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DATA QUALITY ASSESSMENT FOR AIR FORCE PLANT 4 PART 1 OF 2 NAS FORT WORTH TX

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DATA QUALITY ASSESSMENT

U.S. Air Force Plant 4
Fort Worth, Texas

Contract Number DACA 27-94-D-0015
Delivery Order No. 0003
U.S. Army Corps of Engineers
Louisville District

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Prepared for

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ACRONYMS AND ABBREVIATIONS

10X	Ten-times multiplier
2X	Two-times multiplier
5X	Five-times Multiplier
AFCEE	Air Force Center for Environmental Excellence
AFP	Air Force Plant
ASC/EM	Acquisition Environmental Management Directorate of the Air Force Aeronautical Systems Center
ASTM	American Society for Testing and Materials
B/N	Base/Neutral
BCHRES	Batch loader analytical results
BEGDEPTH	Sample interval beginning depth
BH	Borehole
CLP	Contract Laboratory Program
DEPTH	Depth of borehole
DQO	Data Quality Objective
ECOORD	Coordinate east
ELEV	Ground surface elevation
ENDDEPTH	Sample interval ending depth
EPA	U.S. Environmental Protection Agency
GIS	Geographic Information System
GPS	Global Positioning System
GWD	Groundwater level data
IRPIMS	Installation Restoration Program Information Management System
IRP	Installation Restoration Program
LCL	Lower Control Limit
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
LDI	Location definition information
LDL	Laboratory detection limit
LITHCODE	Lithology code
LOCID	Location identification

ACRONYMS AND ABBREVIATIONS (Continued)

LOGDATE	Logging date
LOGTIME	Logging time
LRL	Laboratory reporting limit
LTCCODE	Location type classification code
LTD	Lithologic description
MDL	Method detection limit
MPELEV	Measuring point elevation
MS/MSD	Matrix spike/matrix spike duplicate
NCOORD	Coordinate north
Parsons ES	Parsons Engineering Science, Inc.
PCB	Polychlorinated biphenyl
PRL	Project reporting limit
QA	Quality assurance
QC	Quality control
RDBMS	Relational Data Base Management System
RES	Analytical results
RI/FS	Remedial Investigation/Feasibility Study
RPD	Relative percent difference
SAMP	Environmental sampling information
SCLENGTH	Screen length
SEDEPTH	Sample ending depth
STATDEP	Static water level depth
STRATORDER	Stratigraphic order code
TEST	Sample preparation information
TIS	Technical Information System
TOTDEPTH	Total casing depth
UCL	Upper control limit
VOC	Volatile organic compound
WCI	Well completion information
WL	Well

EXECUTIVE SUMMARY

This report presents results of an investigation to consolidate, quality-check, and characterize the usability of geological and chemical data for Air Force Plant 4 (AFP 4), Fort Worth, Texas. The U.S. Air Force has manufactured aircraft at AFP 4 since World War II, and is now engaged in a complex effort to identify and remediate soil and groundwater contamination that have resulted from industrial activities on the facility. The organization leading this program is the Acquisition Environmental Management Directorate of the Air Force Aeronautical Systems Center (ASC/EM), located at Wright-Patterson Air Force Base, Ohio. This report was prepared by Parsons Engineering Science, Inc. (Parsons ES) under contract to the Louisville District, U.S. Army Corps of Engineers, contract number DACA27-94-D-0015, under supervision by the Fort Worth District.

During the past 10 years, numerous contractors have sampled soils and groundwater to determine the presence or absence of potential contaminants and locate contaminated areas. The geological and chemical data they have collected during field investigations comprise the basis for current efforts to clean up contaminated Installation Restoration Program (IRP) sites. Until this project, however, these data were scattered in a variety of hard copy reports and electronic files, and had not been subjected to uniform standards of quality and usability. To make the best possible use of these data, it was necessary to: (1) consolidate the data into a single electronic database format; (2) characterize data quality using uniform validation criteria and methods; and (3) attach to each record a label that characterizes its usefulness for remedial, regulatory, and management purposes. This project has accomplished these steps, and in addition, has identified future tasks that may be undertaken to increase the usability of data for future studies.

The consolidated database was assembled from available data from the following sources:

- Rust Geotech, Inc.;
- U.S. Geological Survey;
- Radian Corporation (Radian);
- Jacobs Engineering Group, Inc. (Jacobs);
- IT Corporation;
- Environmental Science and Engineering, Inc.;
- Geo-Marine Corporation; and
- Air Force Center for Environmental Excellence (AFCEE) Installation Restoration Program Information Management System (IRPIMS) Database, which consisted of Radian and Jacobs historical data.

These data were consolidated into a single database of approximately 500,000 records in the IRPIMS database format. In this electronic format, the data are readily accessible to the AFP 4 Team Chief and/or project personnel through the Technical Information System (TIS), which incorporates an ORACLE® database system and a geographic information system (GIS).

After consolidation, the data were electronically validated and then reviewed by chemists to judge the data usability. Data were reviewed for conformance to quality control requirements. To identify data omissions or problems, two automated tools were applied to the data set: (1) the IRPIMS Batch Loader program, which checks data for compliance with the IRPIMS format; and (2) an additional series of automated procedures that assist in validation of the data. These automated tools assigned the validation qualifiers, as specified by U.S. Environmental Protection Agency (EPA) guidance, which were reviewed by the chemists to make the final assessment of data quality.

Detailed results of the data quality review are included in Appendices A through D. Based on results of the automated validation and chemist reviews, a new system of assessing data usability was established. In this process, each record in the database was assigned one of seven validation codes. These codes were then mapped into three categories of data usability: (1) Usable for All Purposes, (2) Usable for Limited Purposes, and (3) Unusable. The kinds of analysis and reporting activities intended to fit each of these categories are explained as well. Therefore, this process provides specific guidance to the database user concerning the overall usability of each data record, while retaining a direct link back to the QC data and detailed evaluation results.

Table ES.1 summarizes the percentage of environmental data that received each of these usability-category labels. As shown in Table 2.1, more than two-thirds of the environmental sample analytes were determined to be usable for all purposes, and most of the remaining sample analytes were determined to be usable for limited purposes. Less than 0.1 percent of the environmental sample analyte data were determined to be unusable.

To support future projects, parts of this database may require further augmentation and review to move key data elements from lower to higher usability classes. Because only specific types of data are likely to be needed in future studies, it is necessary to identify the critical data and prioritize efforts to upgrade their data quality and subsequent usability. As a final step in this study, a process has been recommended by which AFP 4 personnel can determine the necessity and selection priority of completing and upgrading the data quality of specific portions of this database. This process would involve the following primary elements:

- Identify specific data required in planned studies;
- Determine availability of data in the ASC/EM IRPIMS database, segregated by its usability category, as established in this study;

- Compare usable data to what is needed and determine if data quality can be improved and made available for use;
- Estimate the cost to achieve the desired enhancements;
- Design and prioritize projects to achieve the most cost-effective results; and
- As these projects are completed, ensure that improvements in usability are recorded with the appropriate codes in the database.

In general, the quality of the chemical results data appears to be adequate to support most modeling and remedial design projects. Therefore, any efforts to upgrade the database, should be focused through the process described above, and undertaken only if necessary. ASC/EM should consider a further effort to link the quality of chemical results to the completeness of location and geological data associated with each result.

Correction of remaining data deficiencies can be accomplished by various methods. In the case of missing data, a search of records at ASC/EM and at the original contractors may locate valuable data. The data can be loaded, checked, and relabeled for usability through the procedures established in this project. Where adequate QC data cannot be located or perhaps cannot be associated with specific chemical results, and where a complete validation is not possible, geostatistical methods may be employed to establish and label the usability of some results for modeling and analysis purposes. Missing location data can be restored by surveying, where physical evidence of the field location still can be found. X/Y geographic coordinates can be estimated by reference to hardcopy or electronic maps in the GIS. Surface Z coordinates can be estimated by intersecting the X/Y location of points with the surface model (Digital Terrain Model) recently developed for AFP 4 under a separate delivery order.

During this investigation, the AFP 4 data have been combined into a cohesive IRPIMS database. Uniform data evaluation standards are now available to ASC/EM for determining the usability of its remediation chemistry data for any of the Air Force plants. Immediate use may be made of all elements of the AFP 4 database, consistent with the usability labeling that has been applied. Any further efforts at data augmentation should occur within the same framework of data format, validation standards, and usability reporting. This framework should also apply to the data that result from future field investigations. It is recommended that a central data integration function be established at ASC/EM to ensure consistent data processing and management procedures.

TABLE ES.1
SUMMARY OF DATABASE USABILITY BY PARAMETER
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter	Usable for All Purposes No.[a]	Usable for All Purposes %[b]	Usable for Limited Purposes No.	Usable for Limited Purposes %	Unusable No.	Unusable %	Total No.
Volatiles	141,315	58.12	101,697	41.83	115	0.05	243,127
Semivolatiles	136,003	80.41	32,932	19.47	211	0.12	169,146
Pesticides/PCBs	112	100	0		0	0	112
Metals	25,376	70.70	10,519	29.30	0	0	35,895
Wet Chemistry	5,841	59.83	3,914	40.09	7	0.07	9,762
Total	308,647	67.38	149,062	32.54	333	0.07	458,042

[a] Number of analytes.
[b] Percent of total.

SECTION 1

INTRODUCTION

1.1 PROJECT DESCRIPTION

This project was conducted by Parsons Engineering Science, Inc. (Parsons ES) under Contract DACA27-94-D0015, Delivery Order 3, with the Louisville District, U.S. Army Corps of Engineers, and was supervised by the Fort Worth District, U.S. Army Corps of Engineers. The primary project objective is to build and validate a facility-wide database for remediation of soil and groundwater contamination at AFP 4, Fort Worth, Texas. This database has been supplied to the Acquisition Environmental Management Directorate of the Air Force Aeronautical Systems Center (ASC/EM), and is expected to replace the existing APF 4 database within IRPIMS. An additional project objective was to prepare this report, which summarizes the results of the data review and validation efforts that accompanied development of the database.

AFP 4 is a large aircraft manufacturing complex which is owned by the U.S. Air Force, and is operated by Lockheed Fort Worth Company, Inc. ASC/EM is responsible for environmental remediation, pollution prevention, and facility management at AFP 4. To better fulfill the needs of all the industrial plants it manages, ASC/EM has developed a Technical Information System (TIS), which provides computing services for data management, technical analysis, and program management functions. Important elements of this system include a Geographic Information System (GIS) and a large database that is maintained in the ORACLE® Relational Data Base Management System (RDBMS). The RDBMS is intended to be the repository of all scientific data required to support ASC/EM efforts, and in particular, to contain all the chemical and hydrogeological data that have been collected for remediation of hazardous waste sites. Such data are stored in the IRPIMS format, which includes information about the sources and quality of the data as well as the records themselves.

During the past decade, environmental remediation projects at AFP 4 have generated a large amount of data. These data originated with numerous contractors and existed in a variety of electronic and hardcopy formats, not all of which were compatible with IRPIMS. To be useful in the ASC/EM TIS, these data had to be combined into the IRPIMS format, and checked for completeness and quality. This report presents results of that data management and data validation process.

This report is directed to two primary audiences. First, it is intended to provide ASC/EM remedial program managers with an overview of the condition and usability of the AFP 4 database, and to provide a quantitative basis for planning any further efforts to upgrade the quality of the database for analytical and regulatory purposes.

The report is also intended to provide to ASC/EM contractors, through more detailed presentation of data in the appendices, adequate information concerning the completeness and quality of individual data sets to support use of the database in modeling and analytical studies. Further detail can be obtained by direct queries to the electronic database.

For this project, Parsons ES performed the following tasks:

- Identified available data sets;
- Determined, in consultation with ASC/EM, which of those data sets are important enough to be included in the IRPIMS database;
- Acquired copies of the data;
- Loaded hardcopy and electronic data into the IRPIMS format where appropriate;
- Created a consolidated IRPIMS database of all data, in the ORACLE RDBMS;
- Executed the IRPIMS batch loader quality control routine on these data;
- Executed a series of additional computerized quality control routines;
- Provided technical review of analytical, hydrogeological, and quality control data associated with the database;
- Characterized each chemistry data set with respect to quality and usability for the remediation program; and
- Produced this report to document results and describe an approach for future work.

The IRPIMS database for AFP 4 now includes approximately 500,000 individual records of hydrogeological and chemical analytical results. These data are labeled for quality and usability.

1.2 SOURCES OF DATA

The expanded AFP 4 facility-wide environmental IRPIMS database has been assembled from several sources which contain geological and chemical analytical data from the activities described below.

Rust Geotech, Inc.

Rust Geotech, Inc. submitted data from two different data collection and loading activities:

Remedial Investigation/Feasibility Study(RI/FS)

Data were collected to support the RI/FS, which included preparation of remedial investigation planning documents, implementation of field

investigations, and preparation of remedial investigation, risk assessment, and feasibility study reports.

Historical Data Loading

In 1994, Rust Geotech, Inc. was contracted to load data from many AFP 4 historical reports containing sampling, analytical, and hydrogeological results from past investigations. Most of these reports resulted from work conducted by Hargis and Associates.

Jacobs Engineering Group, Inc.

Jacobs Engineering Group, Inc. performed quarterly monitoring of selected wells and surface water locations on and adjacent to AFP 4, as well as two comprehensive sampling rounds.

IT Corporation

Three data sets were received from IT Corporation. The first data set contains monthly groundwater levels measured at locations on AFP 4 and Carswell AFB properties. The monthly readings were taken between June 1994 and January 1995.

The second data set contains soil borehole logs, well construction diagrams, and analytical data resulting from work conducted during recovery well installation Phases I, II, and III; system startup; and the June and September 1994 quarterly sampling events.

The third data set contains well, soil borehole, and analytical data resulting from studies at the Landfill 3 site. This data set was received too late for incorporation into the database.

Environmental Science and Engineering, Inc. (ESE)

ESE logged soil boreholes during investigative efforts at Buildings 181 and 182 during December 1994.

Radian Corporation

Radian Corporation was contracted during 1987 to conduct an IRP Phase II Confirmation/Quantification Stage 1 investigation. Field investigation activities included installation of nine upper zone and four Paluxy aquifer monitoring wells; drilling of nine soil boreholes; completion of six hand-auger boreholes; performance of two surface geophysical surveys and a soil gas survey; and collection of soil, groundwater, and surface water samples for chemical analysis. In addition, the effects of continued pumping of water supply wells on the Paluxy aquifer were evaluated, and the existing monitoring wells were evaluated for inclusion in a long-term monitoring program. The data from these efforts were loaded and validated in this project.

Geo-Marine Inc.

Geo-Marine, Inc. installed wells and collected groundwater monitoring data at Landfill 4 and on Carswell Air Force Base beginning in 1992.

U.S. Geological Survey (USGS)

The USGS constructed and collected samples from 16 wells outside the AFP 4 boundary. Ten of these wells were drilled on Carswell Air Force Base property. A set of three nested wells was completed at the National Guard Armory in the upper, middle, and lower Paluxy aquifers, and a second set of three wells was installed near Lake Worth on public land. Location, completion, and lithologic data were loaded into IRPIMS at the conclusion of that work.

1.3 DATA LOADING

Electronic deliverable data sets in IRPIMS batch format were received for Rust Geotech historical, Rust Geotech remedial investigation, Jacobs quarterly groundwater monitoring, and Geo-Marine Corporation data. These data sets were loaded using the IRPIMS Batch File Loader, with the exception of the Rust Geotech historical data set, which was determined to be missing too significant an amount of information to undergo the batch loader process. Error, warning, and chemistry reports were generated and reviewed for data sets loaded with the batch loader. In addition, additional existing data in the IRPIMS database from earlier Radian Corporation projects were included in the review. This review also evaluated QC data available in the data sets and the resultant differing levels of data validation possible. The detailed results of the data validation effort are presented in Appendix C.

Hardcopy data loading was performed for data from the USGS, Radian Corporation, and IT Corporation. Hardcopy data were loaded using the Distributed IRPIMS Data Loading Tool. All entered data were double-keyed to ensure the accuracy of the data loading. The two double-keyed databases were then compared, and all inconsistencies were corrected. Finally, cross-comparisons were made between the Location Definition Information (LDI), Environmental Sampling Information (SAMP), and Sample Preparation Information (TEST), and Analytical Results (RES) data files to ensure internal consistency within the database.

SECTION 2

DATA REVIEW PROCESS

2.1 HYDROGEOLOGICAL DATA REVIEW PROCESS

2.1.1 Data Sources

Six data sets from Rust Geotech, Inc., USGS, Radian Corporation, Jacobs Engineering Group, Inc., IT Corporation, and GeoMarine Corporation were merged to create the IRPIMS LDI, lithologic description (LTD), well completion information (WCI), and groundwater level data (GWD) tables. The data sets are labeled as follows:

Label	Data Description
IRP	Data that existed in distributed IRPIMS tables at Air Force Center for Environmental Excellence (AFCEE) during the beginning of this effort.
BCH	Data loaded from historical reports by Rust Geotech and submitted to Parsons ES in IRPIMS export format.
EXP	Data submitted by Rust Geotech resulting from their RI studies.
JCB	Data submitted by Jacobs from quarterly groundwater monitoring studies.
PES	Data loaded by Parsons ES from hardcopy reports.

2.1.2 Data Evaluation Process for the Location Definition Information Table

The LDI is the foundation for all the subsequent environmental data submitted to IRPIMS. A location is a geographical point where an environmental measurement was taken. Incomplete location definition information limits the usefulness of the data in GIS and other analysis tools. For this reason, the following LDI fields were closely evaluated: location type classification code (LTCCODE), coordinate north (NCOORD), coordinate east (ECOORD), ground surface elevation (ELEV), and depth of borehole (DEPTH).

The data sets received from the various contractors were evaluated according to the following procedure:

- LDI tables from all data sets were merged to form one comprehensive LDI table.
- A list of unique location identifications (LOCIDs) was established.
- The comprehensive table was examined against this list to identify duplicate records.
- To eliminate duplicate records, they were visually inspected and either the most complete record was selected, or data from the two records were merged to form a complete record.
- The resulting table, with no duplicate records, was evaluated for missing or inconsistent data.

Results of the evaluation of the LDI table are discussed in Section 3 and presented in Appendix A.

2.1.3 Data Evaluation Process for the Lithologic Description Table

The LTD table contains lithologic descriptions and classifications of cuttings and cores taken from boreholes and test pits. Each record describes one distinct lithological interval (stratum). Strata are numbered on a sitewide basis, and the numbers should increase with stratum depth. The stratum order codes applied to interpret lithologic descriptions were originated by Jacobs and had also been used by Rust Geotech when assigning stratum order codes to their RI studies data.

Critical fields in the LTD table that were evaluated include: LOCID, sample interval beginning depth (BEGDEPTH), sample interval ending depth (ENDDEPTH), lithology code (LITHCODE), American Society for Testing and Materials (ASTM) code (ASTMCODE), and the assigned stratigraphic order code (STRATORDER). Missing data in these fields would limit the usefulness of the data for hydrogeologic and site modeling.

The following procedure was used to evaluate the LTD table:

- LTD tables from all data sets were merged to form one comprehensive LTD table.
- Unique records were determined by using a compound key, or combination, of LOCID+BEGDEPTH+ENDDEPTH.
- A list of unique records was established.
- The comprehensive LTD table was examined against this list of unique records to identify duplicate records.
- To eliminate duplicate records, they were visually inspected and either the most complete record was selected, or data from the two records were merged to form a complete record.

- The resulting table, with no duplicate records, was evaluated for missing or inconsistent data.

Results of the evaluation of the Lithologic Description Table are discussed in Section 3 and presented in Appendix A.

2.1.4 Data Evaluation Process for the Well Completion Information Table

The WCI table contains data pertaining to the installation of wells. Critical fields in the WCI table that were evaluated include: LOCID, measuring point elevation (MPELEV), sample ending depth (SEDEPTH), screen length (SCLENGTH), and total casing depth (TOTDEPTH). The measuring point elevation and total well depth entries are used together with the location of the ground surface elevation in the estimation of many hydrogeologic parameters and in most of the subsequent data analyses. The TOTDEPTH for a location and its maximum ENDDEPTH in the LTD table should be the same.

The following procedure was used to evaluate the WCI table:

- WCI tables from all data sets were merged to form one comprehensive WCI table.
- A list of unique LOCIDs was established.
- The comprehensive table was examined against this list to identify duplicate records.
- To eliminate duplicate records, they were visually inspected and either the most complete record was selected, or data from the two records were merged to form a complete record.
- The resulting table, with no duplicate records, was evaluated for missing or inconsistent data.

Results of the evaluation of the well completion information are discussed in Section 3 and presented in Appendix A.

2.1.5 Evaluation Process for the Groundwater Level Data

The GWD table contains information concerning groundwater levels. This information allows site and location groundwater characterization. Each record provides measurements collected for one well on a given day. For the groundwater information to be usable for modeling applications, the following key fields must be present: LOCID, logging date (LOGDATE), logging time (LOGTIME), static water level depth (STATDEP).

Groundwater level data were received from only two sources: Jacobs Engineering and IT Corporation. The Jacobs Engineering data were received in IRPIMS format and were easily entered into the database. The IT Corporation data were submitted in

spreadsheet format. Location, surface elevation, or measuring point elevation data were not submitted.

The following process was followed to evaluate the GWD table:

- GWD tables from two data sets were merged to form one comprehensive GWD table.
- Unique records were determined by using a compound key, or combination, of LOCID+LOGDATE+LOGTIME.
- A list of unique records was established.
- The comprehensive GWD table was examined against this list of unique records to identify duplicate records.
- To eliminate duplicate records, they were visually inspected and either the most complete record was selected, or data from the two records were merged to form a complete record.
- The resulting table, with no duplicate records, was evaluated for missing or inconsistent data.

Results of the evaluation of the groundwater level data table are discussed in Section 3 and presented in Appendix A.

2.2 CHEMICAL DATA REVIEW PROCESS

The AFP 4 database was assessed, verified, and qualified according to intended use in accordance with the U.S. National Quality Standards (January 1995). Any limitations of the intended data use are required by those standards to be expressed quantitatively to the extent practicable, and documented in any reporting of the data, either in print or electronically.

This data assessment, verification, and qualification process is referred to as "data review." Data review includes data validation, data evaluation, and data usability assessment. Data review ensures that the data collected are of adequate quality and quantity for decision making within the specifications of program and project data quality objectives (DQOs).

Data validation is a systematic review of data accomplished by comparing data results to preestablished quality control (QC) acceptance criteria. Data that do not conform to QC criteria are identified, and the reasons for nonconformances are documented. Analytical data quality was evaluated by comparing the database to analytical methodology QC acceptance criteria. The analytical methodology QC elements that were evaluated include target analyte list completeness, quantification limits, holding time, surrogate spike recovery, method blank contamination, laboratory control spike recovery, matrix spike and matrix spike duplicate recovery and relative percent difference (RPD), and field duplicate sample RPD. The field blank data are

presented but not validated because sample association information was limited and inconsistent.

Data evaluation is the process of reviewing data that were flagged with qualifiers during automated data validation processes. Data usability assessment is the process of qualifying the data for end use appropriateness. This assessment is performed on the database as a whole, for both validated and unvalidated data. In this study, the data were categorized into three classes of usability described in Section 3.

2.2.1 Programs Used for Automated Data Validation

Automated methods for data validation were used to evaluate laboratory and field quality control data for environmental data sets. Data first were run through the IRPIMS batchloader. The output of additional quality checking and validation programs was then evaluated by chemists to determine the usability of the data. Quality control elements include verification of rejected data, resolution of inconsistencies in the data, examining multiple mutually exclusive qualifiers, or noting absent qualifiers. The automated programs used for data validation are discussed below.

IRPIMS Batchloader

Data received from the subcontractors in electronic format were loaded using the IRPIMS batchloader tool. Data received in hard copy format only (historical data) were loaded using the hard copy data loading tool. The IRPIMS batchloader process evaluates the credibility of data by checking field entries against a set of valid value lists to verify that the value is an allowed valid value. The batchloader also examines the database for holding time violations, blank contamination, and the precision and accuracy of the field and laboratory duplicates. The hard copy data loading tool also evaluates the data with respect to the valid value list, but does not perform the precision, accuracy, contamination, and holding time evaluations. Results from the IRPIMS batchloader are presented in Appendix C.

Quality Control Spike Sample Evaluation Program

Quality control spike data are read from the IRPIMS batchloader analytical results (BCHRES) file, and the RPD and percent recoveries for matrix spike/matrix spike duplicate (MS/MSD) and laboratory control sample/laboratory control sample duplicate (LCS/LCSD) pairs are recalculated. The results are evaluated against project-specific criteria (stored in tabular form), and the appropriate validation flag is applied to results not meeting those criteria.

Surrogate Recovery Evaluation Program

Surrogate data are read from the IRPIMS BCHRES file, and the percent recoveries are recalculated and evaluated against project-specific criteria. The appropriate validation flag is applied to results not meeting criteria.

Field Blank Evaluation Program

Field blank and environmental sample data are read from the IRPIMS BCHRES file. The two sets of data are associated using the field blank association table, and the highest associated field blank concentration is determined. The sample results are evaluated against the appropriate blank value, and validation flags are assigned if needed.

Field Duplicate Evaluation Program

Field duplicate and environmental sample data are read from the IRPIMS BCHRES file. The two sets of data are associated using the key fields (location, date, and depth). The RPD between positive concentrations of field duplicates is determined. The sample results are evaluated against the appropriate validation criteria, and data that do not meet criteria are tabulated.

Holding Time Evaluation Program

Data for sampling, analysis, and extraction dates are read from the IRPIMS BCHRES file. Analysis and extraction dates are calculated and then evaluated against project-specific criteria. Data validation flags are assigned to sample parameters if holding times are out of criteria limits.

Method Blank Evaluation Program

Method blank and associated environmental data are read from the IRPIMS BCHRES file. The two sets of data are associated using the lab lot control field. The results are evaluated using the appropriate blank factor, and validation qualifiers are applied to the environmental sample as needed.

2.2.2 Limitations of Data Evaluation

Because this data evaluation was performed on electronic data deliverables only, quality assurance/quality control (QA/QC) normally provided through review of hardcopy deliverables could not be performed. For this evaluation, the following assumptions are made.

- Chain-of-custody records from both field and internal laboratory were complete;
- Shipping cooler receipt conditions were acceptable;
- Sample collection, preservation, and storage procedures were followed;
- Case narratives revealed no problems related to data quality;
- Calculations used to determine sample results were correct;
- The correct dilution factors were used to calculate final sample values;
- The percent moisture was taken into account to report all soil samples on a dry weight final calculation basis;

- Method initial and continuing calibrations were acceptable in terms of linearity, reproducibility, and frequency;
- The quality of the data was not affected if field blank associations were not possible, and field blank contamination was not significant;
- Mass spectrometer instrument tuning met criteria;
- Sample preparation procedures were acceptable;
- Instrument analysis injection logs were in good order;
- Standards were traceable; and
- QA data review performed by the laboratory was adequate.

In addition, a complete IRPIMS electronic data deliverable format in accordance with Revision 2.3 was not received for all data groups. Although all data acquired for this project were collected prior to the establishment of this IRPIMS revision, the data were evaluated on that basis. Table B.1 presents QA/QC information submitted within the database for all sample groups.

2.2.3 Chemical Data Review Criteria

The guidelines used as a basis for all data validation were:

- U.S. Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (EPA, 1994), and
- EPA CLP National Functional Guidelines for Inorganic Data Review (EPA, 1994).

All QC guidelines were as dictated by:

- EPA SW846 Test Methods for Evaluating Solid Waste, Physical and Chemical Methods (November 1992);
- EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020 (March 1983);
- Standard Methods for the Examination of Water and Wastes, (17th edition 1989); and
- Headquarters Air Force Center for Environmental Excellence Handbook for the Installation Restoration Program Remedial Investigations and Feasibility Studies (September 1993).

SECTION 3

DATA QUALITY AND USABILITY ASSESSMENT

3.1 EVALUATION RESULTS

3.1.1 Hydrogeological Data Evaluation Results

This section summarizes results of the hydrogeological data review. A continuing process of coordination with AFP 4 contractors and the USGS can be expected to yield additional data and information about the quality of existing data.

Results of the evaluation of the LDI table are summarized in Appendix A. The initial comprehensive LDI table consisted of 1,831 records. When the table was queried for unique LOCIDs, the number of records was reduced to 966 as summarized in Table A.1. The 532 LOCIDs that had duplicate records associated with them are in Table A.2. Several duplicate records have inconsistent northing (NCOORD) and easting [(ECOORD) coordinates (same LOCID with different NCOORD and/or ECOORD)]. These duplicate LOCIDs are displayed in Table A.3. Table A.4 lists the 966 unique records that now comprise the LDI table. Figure 3.1 illustrates the geographic distribution of the final LDI table.

The 173 records with missing NCOORD and ECOORD are listed in Table A.5. Table A.6 lists 412 records with missing ELEV data. Table A.7 lists 211 records missing LTCCODE data. Table A.8 lists 222 records with missing DEPTH data.

Results of the evaluation of the Lithologic Description Table are summarized in Tables A.9 to A.16. The initial LTD table consisted of 5,292 records. This consolidated table contained 617 unique LOCIDs as summarized in Table A.9. Once the unique LOCIDs were established, 847 records were determined to have duplicate data associated with them. These duplicate records are listed in Table A.10. Table A.11 lists the 4,053 unique records in the LTD table after duplicate data were removed. Figure 3.2 illustrates the geographic distribution of the LDI locations (LOCIDs) that have associated lithologic data in the LTD table.

Locations that are not boreholes or wells probably will not have associated lithologic information. Unassigned LTCCODEs were also examined because they could be a borehole or well. Therefore, the LDI table was revisited to compare unique LDI LOCIDs where LTCCODE was a borehole (BH), a well (WL) or unassigned (null), with unique LOCIDs in LTD table. Table A.12 lists the 238 unique LOCIDs (that are either a borehole, a well or unknown) from the LDI table that do not have associated lithologic data.

The geologic accuracy of the stratigraphic order assignment was not evaluated as part of this study. However, the 16 intervals for which STRATORDER is missing are listed in Table A.13. The 19 records with missing LITHCODE data are listed in Table A.14, and Table A.15 lists the 817 records with missing ASTMCODE data.

LTD records were also evaluated to determine if specified intervals were continuous down hole (without gaps). Table A.16 lists the 30 records with discontinuous BEGDEPTH and ENDDEPTH. Results of the evaluation of the well completion information are summarized in Tables A.17 through A.22.

The initially merged WCI table consisted of 378 records. When the table was queried for unique LOCIDs, the number of records was reduced to 283 as listed in Table A.17. The 58 duplicate records that were found are listed in Table A.18. Table A.19 is a complete listing of the 283 unique records in the WCI table. Figure 3.3 illustrates the geographic distribution of the LOCIDs that have associated well completion records in the WCI table.

The 32 unique LOCIDs with missing MPELEV are listed in Table A.20. The 14 records with missing SBDEPTH or SCLENGTH are listed in Table A.21.

When the TOTDEPTH was compared to the LTD maximum ENDDEPTH, 30 records were found to be not equal. These records are listed in Table A.22. Results of the evaluation are summarized in Tables A.23 through A.26.

The initial merged GWD table consisted of 944 records. This consolidated table contained 257 unique LOCIDs as listed in Table A.23. Once the unique LOCIDs were established, the compound key was applied to the consolidated GWD table and 430 records were determined to have duplicate data associated with them. These duplicate records are listed in Table A.24. Table A.25 lists the 514 unique records in the GWD table after duplicate data were removed. Figure 3.4 illustrates the geographic distribution of the LOCIDs that have associated groundwater data in the GWD table.

STATDEP data were missing for three unique records, as listed in Table A.26. The limited amount of GWD data otherwise are usable.

3.1.2 Chemical Data Evaluation Results

The detailed results of the data validation are provided in tabular format in Appendix D. The subsections of Appendix D are separated by each sampling group, by method and matrix. The subsections contain summary tables which detail the QA/QC non-conformances from:

- Analytical holding time,
- Quantitation limits,
- Method blanks,
- Surrogate spikes,

- MS/MSDs,
- LCS/LCSDs, and
- Field duplicates.

These detailed results should be consulted when it is necessary to understand the specific reasons for which a sample received a particular QC flag.

Included in Appendix B are tables which present the QC elements and criteria limits used to evaluate MS/MSD, LCS/LCSD, surrogate spikes, and holding time. Tables are included that define the target compound list, MDLs, and PRLs for each method. All data were evaluated using uniform criteria, with the exception that each laboratory had unique MDLs and target compound lists.

3.2 CHEMICAL DATA USABILITY ASSESSMENT

3.2.1 Categorization of Data Usability

The automated and manual validation processes have resulted in detailed information about the individual records, but the information is generally too detailed to help analysts decide which records are usable, and which should be avoided. The appendices of this report present the most detailed results. This section provides interpretive tools to answer the analyst's question, "What does it mean to me?"

Through the validation process, each chemical result has been assigned one of the standardized EPA flags, which provide a detailed record of the judgment applied to a data element and, to some extent, the reason why that judgment has been made. The project team has mapped those flags and other data quality conditions into the following usability codes:

1A Validated, No Qualification

1B Validated, With Qualification ("estimated")

1C Validated, Identity Not Confirmed or Information Missing for a Performance Measure

1D Validated, Rejected

2A Unvalidated, QC Exists

2B Unvalidated, QC Missing from Database

2C Unvalidated, QC Status in Database Unknown

These codes differentiate between validated and unvalidated data, where the term "validated" is subject to the limitations listed in Section 2.2.2, and in some cases, imposed by gaps in available data. For validated data, the codes distinguish good from unusable data. For unvalidated data, the codes provide the means to record whether or not QC information has been located for the data, thereby differentiating data that could

be salvaged in future efforts and data that are unlikely to be validated. Table 3.1 shows the mapping of database flags and conditions to the usability codes.

Because each data element is labeled by one of these codes, the analyst can select records that meet one or a combination of these usability qualifications. A map relating the codes and the types of uses they fit has been created as well. Table 3.2 shows how the usability codes relate to three categories of usability: usable for all purposes, usable for limited purposes, and unusable. Table 3.3 then shows how these usability categories relate to some examples of program activities. Thus it can been determined that data labeled 1C in the database are suited to limited purposes such as program planning and general site characterization, but are not usable for risk assessment.

Typically, an investigator engaged even in informal study will approach this database with the intention of using the best data possible, consistent with the need for some minimum amount of data in key locations of the plant. Therefore, the first query to the database would specify only "1A" data. If that query returns too little data to support analysis, the user may choose to relax the query to include lower quality data. In any case, the analyst retains complete control of the data selection process, and may even choose to study the detailed QC information to help decide which data to accept for a given purpose.

3.2.2 Summary of Chemical Data Usability

This section presents the results of this project in two levels of detail, expressed as numbers of records and percentages of records that were determined to fall into each of the defined usability categories. These summaries are intended to meet the needs of analysts who are planning new investigations, and of the ASC/EM program managers who can use this information in planning for database improvements.

Table 3.4 shows, at the most general level, the proportion of the data for each parameter that falls into each usability category. About 67 percent of all data is judged to be usable for all purposes, and almost 33 percent is usable for limited purposes. Less than 0.1 percent is judged to be unusable.

Tables 3.5 and 3.6 provide more detail, differentiating between sampling programs. Table 3.5 presents the results by usability code, while Table 3.6 shows how the results are grouped into the categories of usable for all purposes, usable for limited purposes, and unusable.

Table 3.7 presents data groups and methods and indicates, for data not categorized 1A, the qualifiers they received and the corresponding use categories.

TABLE 3.1
DATABASE FLAGS
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Usability Code	Description	Database Flag or Condition
1A	Validated, No Qualification	No Flag
1B	Validated, With Qualification	J/UJ
1C	Validated, Identity Not Confirmed	N
1D	Validated, Rejected	R
2A	Unvalidated, QC Missing from Database	Condition as Described
2B	Unvalidated, QC Exists in Database	Condition as Described
2C	Unvalidated, QC Status Unknown	Condition as Described

TABLE 3.2
USABILITY CODES AND CATEGORIES
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Usability Code	Description	Usable for All Purposes	Usable for Limited Purposes	Unusable
1A	*Validated*, No Qualification	X		
1B	*Validated*, With Qualification	X		
1C	*Validated*, Identity Not Confirmed or Information Missing for a Performance Measure		X	
1D	*Validated*, Rejected			X
2A	*Unvalidated*, QC Missing from Database		X	
2B	*Unvalidated*, QC Exists in Database		X	
2C	*Unvalidated,* QC Status in Database Unknown		X	

TABLE 3.3
USABILITY CATEGORIES IN RELATION TO APPLICATIONS
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Data Application	Data Usable for All Purposes	Data Usable for Limited Purposes
Potentially Responsible Party Determination	X	
Program Planning	X	X
Site Characterization	X	X
Risk Assessment	X	
Evaluation of Alternatives	X	
Preliminary Design	X	X
Remedial Design	X	
Monitoring During Remedial Action	X	

TABLE 3.4
SUMMARY OF DATABASE USABILITY BY PARAMETER
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

	Usable for All Purposes		Usable for Limited Purposes		Unusable		Total
Parameter	No.[a/]	%[b/]	No.	%	No.	%	No.
Volatiles	141,315	58.12	101,697	41.83	115	0.05	243,127
Semivolatiles	136,003	80.41	32,932	19.47	211	0.12	169,146
Pesticides/PCBs	112	100	0	0	0	0	112
Metals	25,376	70.70	10,519	29.30	0	0	35,895
Wet Chemistry	5,841	59.83	3,914	40.09	7	0.07	9,762
Total	308,647	67.38	149,062	32.54	333	0.07	458,042

a/ Number of analytes.
b/ Percent of total.

TABLE 3.5
SUMMARY OF DATABASE USABILITY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter Method	Matrix	Usable for All Purposes No.[a]	Usable for All Purposes %[b]	Usable for Limited Purposes No.	Usable for Limited Purposes %	Unusable No.	Unusable %	Total No.
IT								
Volatiles[c]								
SW8240	WG	1370	92.44	112	7.56	0	0.00	1482
Semivolatiles[d]								
SW8270	WG	991	100.00	0	0.00	0	0.00	991
Metals[e]								
SW6010	WG	270	100.00	0	0.00	0	0.00	270
SW7421	WG	15	100.00	0	0.00	0	0.00	15
SW7740	WG	15	100.00	0	0.00	0	0.00	15
SW7841	WG	10	100.00	0	0.00	0	0.00	10
SW7060	WG	15	100.00	0	0.00	0	0.00	15
SW7471	WG	10	100.00	0	0.00	0	0.00	10
SW7196	WG	10	100.00	0	0.00	0	0.00	10
Wet Chemistry[f]								
E150.1	WG	6	100.00	0	0.00	0	0.00	6
E160.1	WG	15	100.00	0	0.00	0	0.00	15
E160.2	WG	15	100.00	0	0.00	0	0.00	15
E300.0	WG	10	100.00	0	0.00	0	0.00	10
E310.1	WG	15	100.00	0	0.00	0	0.00	15
E310.2	WG	10	100.00	0	0.00	0	0.00	10
E325.2	WG	10	100.00	0	0.00	0	0.00	10
E353.2	WG	14	100.00	0	0.00	0	0.00	14
E375.4	WG	10	100.00	0	0.00	0	0.00	10
E405.1	WG	10	100.00	0	0.00	0	0.00	10
E410.4	WG	14	100.00	0	0.00	0	0.00	14
E415.1	WG	4	100.00	0	0.00	0	0.00	4
Total		2839	96.20	112	3.80	0	0.00	2951
Jacobs								
Volatiles								
E524.2	WG	5167	100.00	0	0.00	0	0.00	5167
E524.2	WP	61	100.00	0	0.00	0	0.00	61
E524.2	WS	366	100.00	0	0.00	0	0.00	366
SW8015	WG	391	95.37	0	0.00	19	4.63	410
SW8015	WS	16	100.00	0	0.00	0	0.00	16
SW8240	WG	19764	99.51	1	0.01	96	0.48	19861
SW8240	WS	3605	100.00	0	0.00	0	0.00	3605
SW8260	WG	1436	96.90	46	3.10	0	0.00	1482
SW8260	WS	168	98.25	3	1.75	0	0.00	171
Semivolatiles								
SW8270	WG	29320	99.19	44	0.15	194	0.66	29558
SW8270	WS	1483	100.00	0	0.00	0	0.00	1483
Metals								
SW6010	WG	7406	100.00	0	0.00	0	0.00	7406
SW6010	WS	621	100.00	0	0.00	0	0.00	621
SW7421	WG	296	100.00	0	0.00	0	0.00	296
SW7421	WS	10	100.00	0	0.00	0	0.00	10

TABLE 3.5 (Continued)
SUMMARY OF DATABASE USABILITY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter Method	Matrix	Usable for All Purposes No.[a]	Usable for All Purposes %[b]	Usable for Limited Purposes No.	Usable for Limited Purposes %	Unusable No.	Unusable %	Total No.
Wet Chemistry								
E120.1	WG	135	45.00	165	55.00	0	0.00	300
E120.1	WP	1	100.00	0	0.00	0	0.00	1
E120.1	WS	37	44.58	46	55.42	0	0.00	83
E150.1	WG	156	51.66	144	47.68	2	0.66	302
E150.1	WP	1	100.00	0	0.00	0	0.00	1
E150.1	WS	39	46.43	45	53.57	0	0.00	84
E170.1	WG	156	51.66	144	47.68	2	0.66	302
E170.1	WP	1	100.00	0	0.00	0	0.00	1
E170.1	WS	39	46.43	45	53.57	0	0.00	84
E413.1	WG	1	100.00	0	0.00	0	0.00	1
E413.2	WG	333	99.70	0	0.00	1	0.30	334
E413.2	WS	15	100.00	0	0.00	0	0.00	15
E418.1	WG	332	99.40	1	0.30	1	0.30	334
E418.1	WS	16	100.00	0	0.00	0	0.00	16
Total		71372	98.62	684	0.95	315	0.44	72371
Radian								
Volatiles								
E601	WG	3472	100.00	0	0.00	0	0.00	3472
E602	WG	854	100.00	0	0.00	0	0.00	854
E608	WG	2444	100.00	0	0.00	0	0.00	2444
E624	WG	60	100.00	0	0.00	0	0.00	60
Semivolatiles								
E625	WG	5865	99.04	57	0.96	0	0.00	5922
Metals								
SW6010	WG	793	98.51	12	1.49	0	0.00	805
Wet Chemistry								
E413.2	WG	84	100.00	0	0.00	0	0.00	84
E418.1	WG	87	100.00	0	0.00	0	0.00	87
Total		13659	99.50	69	0.50	0	0.00	13728
Radian Historical								
Volatiles								
E601	WG	3024	100.00	0	0.00	0	0.00	3024
E602	WG	757	100.00	0	0.00	0	0.00	757
E608	WG	2087	100.00	0	0.00	0	0.00	2087
E624	WG	27487	100.00	0	0.00	0	0.00	27487
SW8010	SO	370	100.00	0	0.00	0	0.00	370
SW8015	SO	2	100.00	0	0.00	0	0.00	2
SW8015	WG	4	100.00	0	0.00	0	0.00	4
SW8020	SO	114	100.00	0	0.00	0	0.00	114
SW8020	WG	12	100.00	0	0.00	0	0.00	12
SW8080	SO	225	100.00	0	0.00	0	0.00	225
SW8240	SO	186	100.00	0	0.00	0	0.00	186
SGVOAF	WG	586	100.00	0	0.00	0	0.00	586

TABLE 3.5 (Continued)
SUMMARY OF DATABASE USABILITY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter Method	Matrix	Usable for All Purposes No.[a]	Usable for All Purposes %[b]	Usable for Limited Purposes No.	Usable for Limited Purposes %	Unusable No.	Unusable %	Total No.
Semivolatiles								
E625	WG	23576	100.00	0	0.00	0	0.00	23576
SW8270	SO	378	100.00	0	0.00	0	0.00	378
Metals								
SW6010	SO	82	100.00	0	0.00	0	0.00	82
SW7060	SO	13	100.00	0	0.00	0	0.00	13
SW7421	SO	13	100.00	0	0.00	0	0.00	13
SW7471	SO	17	100.00	0	0.00	0	0.00	17
SW7740	SO	13	100.00	0	0.00	0	0.00	13
Wet Chemistry								
D2216	SO	6	100.00	0	0.00	0	0.00	6
E120.1	WG	105	100.00	0	0.00	0	0.00	105
E150.1	WG	107	100.00	0	0.00	0	0.00	107
E170.1	WG	105	100.00	0	0.00	0	0.00	105
E200.7	WG	358	100.00	0	0.00	0	0.00	358
E206.2	WG	89	100.00	0	0.00	0	0.00	89
E239.2	WG	89	100.00	0	0.00	0	0.00	89
E245.1	WG	89	100.00	0	0.00	0	0.00	89
E270.2	WG	89	100.00	0	0.00	0	0.00	89
E413.1	WG	1	100.00	0	0.00	0	0.00	1
E413.2	SO	14	100.00	0	0.00	0	0.00	14
E413.2	WG	64	100.00	0	0.00	0	0.00	64
E418.1	SO	23	100.00	0	0.00	0	0.00	23
E418.1	WG	67	100.00	0	0.00	0	0.00	67
E900	SO	18	100.00	0	0.00	0	0.00	18
E900	WG	6	100.00	0	0.00	0	0.00	6
E901.1	SO	12	100.00	0	0.00	0	0.00	12
SW1020	SO	16	100.00	0	0.00	0	0.00	16
Total		60204	100.00	0	0.00	0	0.00	60204
Rust RI								
Volatiles								
SW8240	SE	863	100.00	0	0.00	0	0.00	863
SW8240	SO	18045	100.00	0	0.00	0	0.00	18045
SW8240	WG	9303	100.00	0	0.00	0	0.00	9303
SW8240	WS	863	100.00	0	0.00	0	0.00	863
SW8260	GS	2587	100.00	0	0.00	0	0.00	2587
SW8260	SO	61	100.00	0	0.00	0	0.00	61
Semivolatiles								
SW8270	SE	1473	100.00	0	0.00	0	0.00	1473
SW8270	SO	34043	100.00	0	0.00	0	0.00	34043
SW8270	WG	3815	100.00	0	0.00	0	0.00	3815
SW8270	WS	1286	100.00	0	0.00	0	0.00	1286
Pesticides/PCBs[c]								
SW8080	WS	112	100.00	0	0.00	0	0.00	112

TABLE 3.5 (Continued)
SUMMARY OF DATABASE USABILITY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		Usable for All Purposes		Usable for Limited Purposes		Unusable		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.
Metals								
SW6010	SE	307	100.00	0	0.00	0	0.00	307
SW6010	SO	4692	100.00	0	0.00	0	0.00	4692
SW6010	WG	1606	100.00	0	0.00	0	0.00	1606
SW6010	WS	216	100.00	0	0.00	0	0.00	216
Wet Chemistry								
D2216	SO	21	100.00	0	0.00	0	0.00	21
E120.1	WG	192	100.00	0	0.00	0	0.00	192
E150.1	WG	191	100.00	0	0.00	0	0.00	191
E170.1	WG	190	100.00	0	0.00	0	0.00	190
E300	WG	96	100.00	0	0.00	0	0.00	96
E335.2	SO	21	100.00	0	0.00	0	0.00	21
E335.2	WG	8	100.00	0	0.00	0	0.00	8
E413.2	SE	22	100.00	0	0.00	0	0.00	22
E413.2	SO	180	99.45	0	0.00	1	0.55	181
E413.2	WG	55	100.00	0	0.00	0	0.00	55
E413.2	WS	19	100.00	0	0.00	0	0.00	19
E418.1	SE	22	100.00	0	0.00	0	0.00	22
E418.1	SO	312	100.00	0	0.00	0	0.00	312
E418.1	WG	66	100.00	0	0.00	0	0.00	66
E418.1	WS	19	100.00	0	0.00	0	0.00	19
Total		80686	100.00	0	0.00	1	0.00	80687
Rust Historical								
Volatiles								
SW8240	WG	0	0.00	101381	100.00	0	0.00	101381
Semivolatiles								
SW8270	WG	0	0.00	32817	100.00	0	0.00	32817
Metals								
SW6010	WG	0	0.00	10383	100.00	0	0.00	10383
Wet Chemistry								
E150.1	WG	0	0.00	348	100.00	0	0.00	348
E170.1	WG	0	0.00	176	100.00	0	0.00	176
E212.3	WG	0	0.00	243	100.00	0	0.00	243
E218.4	WG	0	0.00	91	100.00	0	0.00	91
E245.1	WG	0	0.00	541	100.00	0	0.00	541
E300.0	WG	0	0.00	343	100.00	0	0.00	343
E335.2	WG	0	0.00	381	100.00	0	0.00	381
E340.1	WG	0	0.00	316	100.00	0	0.00	316
E352.1	WG	0	0.00	13	100.00	0	0.00	13
E413.2	WG	0	0.00	417	100.00	0	0.00	417
E418.1	WG	0	0.00	379	100.00	0	0.00	379
N6701	WG	0	0.00	20	100.00	0	0.00	20
Total		0	0.00	147849	100.00	0	0.00	147849

TABLE 3.5 (Continued)
SUMMARY OF DATABASE USABILITY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter Method	Matrix	Usable for All Purposes No.[a]	Usable for All Purposes %[b]	Usable for Limited Purposes No.	Usable for Limited Purposes %	Unusable No.	Unusable %	Total No.
Geo Marine								
Volatiles								
SW8010	WG	1149	97.62	28	2.38	0	0.00	1177
SW8021	WG	2489	100.00	0	0.00	0	0.00	2489
SW8240	SO	1058	100.00	0	0.00	0	0.00	1058
SW8240	WG	46	100.00	0	0.00	0	0.00	46
Semivolatiles								
SW8270	SO	1769	99.89	2	0.11	0	0.00	1771
SW8270	WG	77	100.00	0	0.00	0	0.00	77
Metals								
SW6010	SO	200	100.00	0	0.00	0	0.00	200
SW6010	WG	8	100.00	0	0.00	0	0.00	8
SW7421	SO	27	100.00	0	0.00	0	0.00	27
SW7421	WG	1	100.00	0	0.00	0	0.00	1
SW7740	SO	32	100.00	0	0.00	0	0.00	32
SW7740	WG	1	100.00	0	0.00	0	0.00	1
SW7841	SO	23	100.00	0	0.00	0	0.00	23
SW7841	WG	1	100.00	0	0.00	0	0.00	1
SW7060	SO	29	100.00	0	0.00	0	0.00	29
SW7060	WG	1	100.00	0	0.00	0	0.00	1
Wet Chemistry								
A5520C	SO	23	100.00	0	0.00	0	0.00	23
A5520C	WG	1	100.00	0	0.00	0	0.00	1
E418.1	SO	23	100.00	0	0.00	0	0.00	23
E418.1	WG	1	100.00	0	0.00	0	0.00	1
SW9010	SO	23	100.00	0	0.00	0	0.00	23
SW9010	WG	1	100.00	0	0.00	0	0.00	1
Total		6983	99.57	30	0.43	0	0.00	7013
USGS								
Volatiles								
E524	WG	1648	94.60	94	5.40	0	0.00	1742
SW8260	WG	1527	97.95	32	2.05	0	0.00	1559
Semivolatiles								
SW8270	WG	2801	98.98	12	0.42	17	0.60	2830
Metals								
SW6010	WG	520	80.75	124	19.25	0	0.00	644
Wet Chemistry								
E413.2	WG	0	0.00	28	100.00	0	0.00	28
E418.1	WG	0	0.00	28	100.00	0	0.00	28
Total		6496	95.10	318	4.66	17	0.25	6831

a/ Number of analytes.
b/ Percent of total.
c/ Officially cited volatile organic method titles are as follows:
SW8240 Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS).
SW8260 Volatile Organic Compounds by GC/MS Capillary Column Technique.

TABLE 3.5 (Continued)
SUMMARY OF DATABASE USABILITY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter Method	Matrix	Usable for All Purposes No.[a]	Usable for All Purposes %[b]	Usable for Limited Purposes No.	Usable for Limited Purposes %	Unusable No.	Unusable %	Total No.

SW8015 Nonhalogenated Volatile Organics.
SW8010 Halogenated Volatile Organics by Gas Chromatography (GC).
SW8021 Halogenated Volatiles by GC using Photoionization and Electrolytic Conductivity Detectors in series: Capillary column technique.
E624 Purgeable organics by GC/MS.
E601 Purgeable Halocarbons by GC.
E602 Purgeable Aromatics by GC.
E524.2 Measurement of Purgeable Organic Compounds in Water by Capillary Column GC/MS.

d/ Officially cited semivolatile organic method titles are as follows:
SW8270 Semivolatile Organic Compounds by GC/MS: Capillary Column Technique.
E625 Base/Neutrals and Acids by GC/MS.

e/ Officially cited metals method titles are as follows:
SW6010 Inductively Coupled Plasma Atomic Emission Spectroscopy.
SW7421 Lead (Atomic Adsorption Furnace technique).
SW7740 Selenium (Atomic Adsorption Furnace technique).
SW7841 Thallium (Atomic Adsorption Furnace technique).
SW7060 Arsenic (Atomic Adsorption Furnace technique).
SW7471 Mercury in Solid or Semi-Solid Waste (manual cold-vapor technique).
SW7470 Mercury in Liquid Waste (manual cold vapor technique).
SW7196 Chromium, Hexavalent (colorimetric).
E213.2 Cadmium (Atomic Adsorption Furnace technique).
E218.4 Chromium, Hexavalent (Atomic Adsorption, chelation-extraction).
E245.1 Determination of Mercury in Water by Cold Vapor Atomic Adsorption Spectrometry.
E212.3 Boron, (colorimetric, curcumin)

f/ Officially cited wet chemistry methods are as follows:
E150.1 pH
E160.1 Residue, Filterable (Gravimetric, Dried at 180 C).
E160.2 Non-Filterable Residue (Gravimetric, Dried at 103-105 C).
E300.0 Test Method for the Determination of Inorganic Anions in Water by Ion Chromatograp
E310.1 Alkalinity (titrimetric pH 4.5).
E310.2 Alkalinity (Colorimetric, Automated, Methyl orange).
E325.2 Chloride (Colorimetric, Automated, ferricyanide AAII).
E353.2 Nitrogen, Nitrate-Nitrite (colorimetric, Automated, Cadmium reduction).
E375.4 Sulfate (turbidimetric)
E405.1 Biochemical Oxygen Demand (5 days, 20°C).
E410.4 Chemical Oxygen Demand (colorimetric, Automated, manual).
E415.1 Organic Carbon, Total (Combustion or Oxidation).
E120.1 Conductance (specific conductance, umhos at 25°C).
E170.1 Temperature (thermometric).
E413.1 Oil and Grease, Total Recoverable (Gravimetric, Separatory Funnel Extraction).
E413.2 Oil and Grease, Total Recoverable (Spectrophotometric, infrared).
E418.1 Petroleum Hydrocarbons, Total Recoverable.
E335.2 Cyanide, Total (Titrimetric, Spectrophotometric).
SW9010 Total and Amenable Cyanide.
N6701 Nitrogen, Nitrate-Nitrite.
A5520C Total Petroleum Hydrocarbons.

TABLE 3.5 (Continued)
SUMMARY OF DATABASE USABILITY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		Usable for All Purposes		Usable for Limited Purposes		Unusable		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.

D2216 Percent Moisture.

g/ Officially cited Pesticide/PCB methods are as follows:
SW8080 Organochlorine Pesticides and Polychlorinated Biphenyls by GC.
E608 Organochlorine Pesticides and PCBs by GC.

TABLE 3.6
SUMMARY OF DATABASE USABILITY CODES
DATA QUALITY ASSESSMENT
U.S. AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		1A		1B		1C		1D		2A		2B		2C		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
IT																
Volatiles[c]																
SW8240	WG	1370	92.44	0	0.00	112	7.56	0	0.00	0	0.00	0	0.00	0	0.00	1482
Semivolatiles[d]																
SW8270	WG	991	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	991
Metals[e]																
SW6010	WG	265	98.15	5	1.85	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	270
SW7421	WG	15	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	15
SW7740	WG	15	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	15
SW7841	WG	10	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10
SW7060	WG	15	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	15
SW7471	WG	10	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10
SW7196	WG	7	70.00	3	30.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10
Wet Chemistry[f]																
E150.1	WG	6	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	6
E160.1	WG	15	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	15
E160.2	WG	14	93.33	1	6.67	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	15
E300	WG	10	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10
E310.1	WG	15	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	15
E310.2	WG	9	90.00	1	10.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10
E325.2	WG	10	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10
E353.2	WG	14	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	14
E375.4	WG	10	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10
E405.1	WG	10	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10
E410.4	WG	14	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	14
E415.1	WG	4	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	4
Total		2829	95.87	10	0.34	112	3.80	0	0.00	0	0.00	0	0.00	0	0.00	2951
Jacobs																
Volatiles																
E524.2	WG	5129	99.26	38	0.74	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	5167
E524.2	WP	60	98.36	1	1.64	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	61
E524.2	WS	366	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	366

022/726698/12.XLS

TABLE 3.6 (Continued)
SUMMARY OF DATABASE USABILITY CODES
DATA QUALITY ASSESSMENT
U.S. AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		1A		1B		1C		1D		2A		2B		2C		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
SW8015	WG	391	95.37	0	0.00	0	0.00	19	4.63	0	0.00	0	0.00	0	0.00	410
SW8015	WS	16	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	16
SW8240	WG	19621	98.79	143	0.72	1	0.01	96	0.48	0	0.00	0	0.00	0	0.00	19861
SW8240	WS	3564	98.86	41	1.14	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	3605
SW8260	WG	1435	96.83	1	0.07	46	3.10	0	0.00	0	0.00	0	0.00	0	0.00	1482
SW8260	WS	166	97.08	2	1.17	3	1.75	0	0.00	0	0.00	0	0.00	0	0.00	171
Semivolatiles																
SW8270	WG	29292	99.10	28	0.09	44	0.15	194	0.66	0	0.00	0	0.00	0	0.00	29558
SW8270	WS	1481	99.87	2	0.13	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1483
Metals																
SW6010	WG	6751	91.16	655	8.84	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	7406
SW6010	WS	572	92.11	49	7.89	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	621
SW7421	WG	232	78.38	64	21.62	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	296
SW7421	WS	10	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10
Wet Chemistry																
E120.1	WG	135	45.00	0	0.00	165	55.00	0	0.00	0	0.00	0	0.00	0	0.00	300
E120.1	WP	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
E120.1	WS	37	44.58	0	0.00	46	55.42	0	0.00	0	0.00	0	0.00	0	0.00	83
E150.1	WG	156	51.66	0	0.00	144	47.68	2	0.66	0	0.00	0	0.00	0	0.00	302
E150.1	WP	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
E150.1	WS	39	46.43	0	0.00	45	53.57	0	0.00	0	0.00	0	0.00	0	0.00	84
E170.1	WG	156	51.66	0	0.00	144	47.68	2	0.66	0	0.00	0	0.00	0	0.00	302
E170.1	WP	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
E170.1	WS	39	46.43	0	0.00	45	53.57	0	0.00	0	0.00	0	0.00	0	0.00	84
E413.1	WG	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
E413.2	WG	333	99.70	0	0.00	0	0.00	1	0.30	0	0.00	0	0.00	0	0.00	334
E413.2	WS	15	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	15
E418.1	WG	332	99.40	0	0.00	1	0.30	1	0.30	0	0.00	0	0.00	0	0.00	334
E418.1	WS	16	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	16
Total		70348	97.20	1024	1.41	684	0.95	315	0.44	0	0.00	0	0.00	0	0.00	72371
Radian																
E601	WG	3351	96.51	121	3.49	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	3472
E602	WG	819	95.90	35	4.10	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	854

TABLE 3.6 (Continued)
SUMMARY OF DATABASE USABILITY CODES
DATA QUALITY ASSESSMENT
U.S. AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		1A		1B		1C		1D		2A		2B		2C		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
E608	WG	2444	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2444
E624	WG	60	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	60
E625	WG	5779	98.53	86	1.47	57	0.97	0	0.00	0	0.00	0	0.00	0	0.00	5922
SW6010	WG	385	48.55	408	51.45	12	1.51	0	0.00	0	0.00	0	0.00	0	0.00	805
E413.2	WG	84	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	84
E418.1	WG	87	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	87
Total		12838	95.18	650	4.82	69	0.51	0	0.00	0	0.00	0	0.00	0	0.00	13557
Radian Historical																
Volatiles																
E601	WG	3024	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	3024
E602	WG	757	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	757
E608	WG	2087	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2087
E624	WG	27487	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	27487
SW8010	SO	370	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	370
SW8015	SO	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2
SW8015	WG	0	0.00	4	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	4
SW8020	SO	114	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	114
SW8020	WG	12	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	12
SW8080	SO	225	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	225
SW8240	SO	186	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	186
SGVOAF	WG	586	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	586
Semivolatiles																
E625	WG	23576	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	23576
SW8270	SO	378	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	378
Metals																
SW6010	SO	82	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	82
SW6010	WG	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
SW7060	SO	13	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	13
SW7421	SO	13	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	13
SW7471	SO	17	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	17
SW7740	SO	13	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	13

TABLE 3.6 (Continued)
SUMMARY OF DATABASE USABILITY CODES
DATA QUALITY ASSESSMENT
U.S. AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		1A		1B		1C		1D		2A		2B		2C		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
Wet Chemistry																
D2216	SO	6	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	6
E120.1	WG	105	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	105
E150.1	WG	107	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	107
E170.1	WG	105	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	105
E200.7	WG	358	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	358
E206.2	WG	89	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	89
E239.2	WG	89	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	89
E245.1	WG	89	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	89
E270.2	WG	89	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	89
E413.2	SO	14	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	14
E413.2	WG	64	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	64
E418.1	SO	23	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	23
E418.1	WG	67	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	67
E900	SO	18	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	18
E900	WG	6	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	6
E901.1	SO	12	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	12
SW1020	SO	16	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	16
Total		60200	99.99	4	0.01	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	60204
Rust RI																
Volatiles																
SW8240	SE	838	97.10	25	2.90	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	863
SW8240	SO	17784	98.55	261	1.45	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	18045
SW8240	WG	9275	99.70	28	0.30	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	9303
SW8240	WS	861	99.77	2	0.23	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	863
SW8260	GS	2585	99.92	2	0.08	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2587
SW8260	SO	61	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	61
Semivolatiles																
SW8270	SE	1473	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1473
SW8270	SO	34040	99.99	3	0.01	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	34043
SW8270	WG	3815	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	3815
SW8270	WS	1286	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1286

TABLE 3.6 (Continued)
SUMMARY OF DATABASE USABILITY CODES
DATA QUALITY ASSESSMENT
U.S. AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		1A		1B		1C		1D		2A		2B		2C		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
Pesticides/PCBs[g]																
SW8080	WS	112	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	112
Metals																
SW6010	SE	269	87.62	38	12.38	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	307
SW6010	SO	4038	86.06	654	13.94	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	4692
SW6010	WG	1409	87.73	197	12.27	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1606
SW6010	WS	206	95.37	10	4.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	216
Wet Chemistry																
D2216	SO	21	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	21
E120.1	WG	192	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	192
E150.1	WG	191	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	191
E170.1	WG	190	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	190
E300	WG	81	84.38	15	15.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	96
E335.2	SO	21	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	21
E335.2	WG	7	87.50	1	12.50	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	8
E413.2	SE	22	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	22
E413.2	SO	178	98.34	2	1.10	0	0.00	1	0.55	0	0.00	0	0.00	0	0.00	181
E413.2	WG	55	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	55
E413.2	WS	19	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	19
E418.1	SE	22	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	22
E418.1	SO	312	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	312
E418.1	WG	66	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	66
E418.1	WS	19	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	19
Total		79448	98.46	1238	1.53	0	0.00	1	0.00	0	0.00	0	0.00	0	0.00	80687
Rust Historical																
Volatiles																
SW8240	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	101381	100.00	0	0.00	101381
Semivolatiles																
SW8270	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	32817	100.00	0	0.00	32817
Metals																
SW6010	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	10383	100.00	0	0.00	10383

TABLE 3.6 (Continued)
SUMMARY OF DATABASE USABILITY CODES
DATA QUALITY ASSESSMENT
U.S. AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		1A		1B		1C		1D		2A		2B		2C		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
Wet Chemistry																
E150.1	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	348	100.00	0	0.00	348
E170.1	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	176	100.00	0	0.00	176
E212.3	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	243	100.00	0	0.00	243
E218.4	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	91	100.00	0	0.00	91
E245.1	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	541	100.00	0	0.00	541
E300.0	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	343	100.00	0	0.00	343
E335.2	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	381	100.00	0	0.00	381
E340.1	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	316	100.00	0	0.00	316
E352.1	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	13	100.00	0	0.00	13
E413.2	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	417	100.00	0	0.00	417
E418.1	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	379	100.00	0	0.00	379
N6701	WG	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	20	100.00	0	0.00	20
Total		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	147849	100.00	0	0.00	147849
Geo Marine																
Volatiles																
SW8010	WG	1148	97.54	1	0.08	28	2.38	0	0.00	0	0.00	0	0.00	0	0.00	1177
SW8021	WG	2486	99.88	3	0.12	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2489
SW8240	SO	1016	96.03	42	3.97	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1058
SW8240	WG	46	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	46
Semivolatiles																
SW8270	SO	1711	96.61	58	3.27	2	0.11	0	0.00	0	0.00	0	0.00	0	0.00	1771
SW8270	WG	77	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	77
Metals																
SW6010	SO	155	77.50	45	22.50	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	200
SW6010	WG	7	87.50	1	12.50	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	8
SW7421	SO	27	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	27
SW7421	WG	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
SW7740	SO	32	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	32
SW7740	WG	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
SW7841	SO	23	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	23
SW7841	WG	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1

TABLE 3.6 (Continued)
SUMMARY OF DATABASE USABILITY CODES
DATA QUALITY ASSESSMENT
U.S. AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		1A		1B		1C		1D		2A		2B		2C		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.
SW7060	SO	29	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	29
SW7060	WG	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
Wet Chemistry																
A5520C	SO	23	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	23
A5520C	WG	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
E418.1	SO	23	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	23
E418.1	WG	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
SW9010	SO	23	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	23
SW9010	WG	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1
Total		6832	97.42	151	2.15	30	0.43	0	0.00	0	0.00	0	0.00	0	0.00	7013
USGS																
Volatiles																
E524	WG	1644	94.37	4	0.23	94	5.40	0	0.00	0	0.00	0	0.00	0	0.00	1742
SW8260	WG	1522	97.63	5	0.32	32	2.05	0	0.00	0	0.00	0	0.00	0	0.00	1559
Semivolatiles																
SW8270	WG	2753	97.28	48	1.70	12	0.42	17	0.60	0	0.00	0	0.00	0	0.00	2830
Metals																
SW6010	WG	502	77.95	18	2.80	124	19.25	0	0.00	0	0.00	0	0.00	0	0.00	644
Wet Chemistry																
E413.2	WG	0	0.00	0	0.00	28	100.00	0	0.00	0	0.00	0	0.00	0	0.00	28
E418.1	WG	0	0.00	0	0.00	28	100.00	0	0.00	0	0.00	0	0.00	0	0.00	28
Total		5919	96.54	57	0.93	138	2.25	17	0.28	0	0.00	0	0.00	0	0.00	6131

a/ Number of analytes.
b/ Percent of total.
c/ Officially cited volatile organic method titles are as follows:
SW8240 Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS).
SW8260 Volatile Organic Compounds by GC/MS Capillary Column Technique.
SW8015 Nonhalogenated Volatile Organics.
SW8010 Halogenated Volatile Organics by Gas Chromatography (GC).
SW8021 Halogenated Volatiles by GC using Photoionization and Electrolytic Conductivity Detectors in series: Capillary column technique.
E624 Purgeable organics by GC/MS.

TABLE 3.6 (Continued)
SUMMARY OF DATABASE USABILITY CODES
DATA QUALITY ASSESSMENT
U.S. AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		1A		1B		1C		1D		2A		2B		2C		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.

E601 Purgeable Halocarbons by GC.
E602 Purgeable Aromatics by GC.
E524.2 Measurement of Purgeable Organic Compounds in Water by Capillary Column GC/MS.

d/ Officially cited semivolatile organic method titles are as follows:
SW8270 Semivolatile Organic Compounds by GC/MS: Capillary Column Technique.
E625 Base/Neutrals and Acids by GC/MS.

e/ Officially cited metals method titles are as follows:
SW6010 Inductively Coupled Plasma Atomic Emission Spectroscopy.
SW7421 Lead (Atomic Adsorption Furnace technique).
SW7740 Selenium (Atomic Adsorption Furnace technique).
SW7841 Thallium (Atomic Adsorption Furnace technique).
SW7060 Arsenic (Atomic Adsorption Furnace technique).
SW7471 Mercury in Solid or Semi-Solid Waste (manual cold-vapor technique).
SW7470 Mercury in Liquid Waste (manual cold vapor technique).
SW7196 Chromium, Hexavalent (colorimetric).
E213.2 Cadmium (Atomic Adsorption Furnace technique).
E218.4 Chromium, Hexavalent (Atomic Adsorption, chelation-extraction).
E245.1 Determination of Mercury in Water by Cold Vapor Atomic Adsorption Spectrometry.
E212.3 Boron, (colorimetric, curcumin)

f/ Officially cited wet chemistry methods are as follows:
E150.1 pH
E160.1 Residue, Filterable (Gravimetric, Dried at 180 C).
E160.2 Non-Filterable Residue (Gravimetric, Dried at 103-105 C).
E300.0 Test Method for the Determination of Inorganic Anions in Water by Ion Chromatography.
E310.1 Alkalinity (titrimetric pH 4.5).
E310.2 Alkalinity (Colorimetric, Automated, Methyl orange).
E325.2 Chloride (Colorimetric, Automated, ferricyanide AAII).
E353.2 Nitrogen, Nitrate-Nitrite (colorimetric, Automated, Cadmium reduction).
E375.4 Sulfate (turbidimetric)
E405.1 Biochemical Oxygen Demand (5 days, 20°C).
E410.4 Chemical Oxygen Demand (colorimetric, Automated, manual).
E415.1 Organic Carbon, Total (Combustion or Oxidation).

TABLE 3.6 (Continued)
SUMMARY OF DATABASE USABILITY CODES
DATA QUALITY ASSESSMENT
U.S. AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter		1A		1B		1C		1D		2A		2B		2C		Total
Method	Matrix	No.[a]	%[b]	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.

E120.1 Conductance (specific conductance, umhos at 25°C).
E170.1 Temperature (thermometric).
E413.1 Oil and Grease, Total Recoverable (Gravimetric, Separatory Funnel Extraction).
E413.2 Oil and Grease, Total Recoverable (Spectrophotometric, infrared).
E418.1 Petroleum Hydrocarbons, Total Recoverable.
E335.2 Cyanide, Total (Titrimetric, Spectrophotometric).
SW9010 Total and Amenable Cyanide.
N6701 Nitrogen, Nitrate-Nitrite.
A5520C Total Petroleum Hydrocarbons.
D2216 Percent Moisture.

g/ Officially cited Pesticide/PCB methods are as follows:
SW8080 Organochlorine Pesticides and Polychlorinated Biphenyls by GC.
E608 Organochlorine Pesticides and PCBs by GC.

TABLE 3.7
DATA VALIDATION QUALIFICATION SUMMARY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter Method	Matrix	Usability Code	Qualifiers PRL[a]	HT[b]	MB[c]	LCS[d]	SURR[e]	No. of Analytes
IT Corporation								
Volatiles[f]								
SW8240	WG[g]	1C		NC[h]				78
SW8240	WG	1C	N[i]					34
Metals[j]								
SW6010	WG	1B	J[k]					5
SW7196	WG	1B	J					3
Wet Chemistry[l]								
E160.2	WG	1B		UJ[m]				1
E310.2	WG	1B	J					1
Jacobs								
Volatiles								
E524.2	WG	1B	J					38
E524.2	WP[n]	1B	J					1
SW8015	WG	1D		R[o]				19
SW8240	WG	1B	J					143
SW8240	WG	1C	N					1
SW8240	WG	1D		R				96
SW8240	WS[p]	1B	J					41
SW8260	WG	1B	J					1
SW8260	WG	1C	N					46
SW8260	WS	1B	J					2
SW8260	WS	1C	N					3
Semivolatiles[q]								
SW8270	WG	1B	J					28
SW8270	WG	1C	N					44
SW8270	WG	1D		R				192
SW8270	WG	1D	J	R				1
SW8270	WG	1D	N	R				1
SW8270	WS	1B	J					2
Metals								
SW6010	WG	1B	J					655
SW6010	WS	1B	J					49
SW7421	WG	1B	J					64
Wet Chemistry								
E120.1	WG	1C	N					165
E120.1	WS	1C	N					46
E150.1	WG	1C	N					144
E150.1	WG	1D	N	R				2
E150.1	WS	1C	N					45
E170.1	WG	1C	N					144
E170.1	WG	1D	N	R				2
E170.1	WS	1C	N					45
E413.2	WG	1D		R				1

TABLE 3.7 (Continued)
DATA VALIDATION QUALIFICATION SUMMARY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter Method	Matrix	Usability Code	Qualifiers PRL[a]	HT[b]	MB[c]	LCS[d]	SURR[e]	No. of Analytes
E418.1	WG	1C	N					1
E418.1	WG	1D		R				1
Radian								
Volatiles								
E601	WG	1B	J					121
E602	WG	1B	J					35
Semivolatiles								
E625	WG	1B	J					86
E625	WG	1C	N					57
Metals								
SW6010	WG	1B	J					408
SW6010	WG	1C	N					12
Radian Historical								
Volatiles								
SW8015	WG	1B		J				4
SW8015	WG	1B		UJ				4
Rust RI								
Volatiles								
SW8240	SE[r]	1B	J					25
SW8240	SO[s]	1B	J					261
SW8240	WG	1B	J					28
SW8240	WS	1B	J					2
SW8260	GS[t]	1B	J					2
Semivolatiles								
SW8270	SO	1B	J					3
Metals								
SW6010	SE	1B	J					38
SW6010	SO	1B	J					654
SW6010	WG	1B	J					197
SW6010	WS	1B	J					10
Wet Chemistry								
E300	WG	1B	J					15
E335.2	WG	1B	J					1
E413.2	SO	1B		UJ				2
E413.2	SO	1D		R				1
Rust Historical								
Volatiles								
SW8240	WG	2B						100283
SW8240	WG	2B	J					1098
Semivolatiles								
SW8270	WG	2B						32744
SW8270	WG	2B	J					73

TABLE 3.7 (Continued)
DATA VALIDATION QUALIFICATION SUMMARY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter Method	Matrix	Usability Code	Qualifiers PRL[a]	HT[b]	MB[c]	LCS[d]	SURR[e]	No. of Analytes
Metals								
SW6010	WG	2B						6988
SW6010	WG	2B	J					3395
Wet Chemistry								
E150.1	WG	2B						348
E170.1	WG	2B						176
E212.3	WG	2B						243
E218.4	WG	2B						89
E218.4	WG	2B	J					2
E245.1	WG	2B						503
E245.1	WG	2B	J					38
E300.0	WG	2B						343
E335.2	WG	2B						378
E335.2	WG	2B	J					3
E340.1	WG	2B						261
E340.1	WG	2B	J					55
E352.1	WG	2B						13
E413.2	WG	2B						417
E418.1	WG	2B						379
N6701	WG	2B						20
Geo Marine								
Volatiles								
SW8010	WD[w]	1B	J					1
SW8010	WD	1C	N					28
SW8021	WG	1B	J					3
SW8240	SO	1B	J					42
Semivolatiles								
SW8270	SO	1B	J					58
SW8270	SO	1C	N					2
Metals								
SW6010	SO	1B	J					45
SW6010	WG	1B	J					1
SW7060	WG	1B	J					1
USGS								
Volatiles								
E524	WG	1B	J					4
E524	WG	1C	N					94
SW8260	WG	1B	J					5
SW8260	WG	1C	N					32
Semivolatiles								
SW8270	WG	1B					J	1
SW8270	WG	1B					UJ	47
SW8270	WG	1C	N					12
SW8270	WG	1D					R	17

TABLE 3.7 (Continued)
DATA VALIDATION QUALIFICATION SUMMARY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter Method	Matrix	Usability Code	Qualifiers PRL[a]	HT[b]	MB[c]	LCS[d]	SURR[e]	No. of Analytes
Metals								
SW6010	WG	1B	J					18
SW6010	WG	1C	N					124
Wet Chemistry								
E413.2	WG	1C		NC				28
E418.1	WG	1C		NC				28

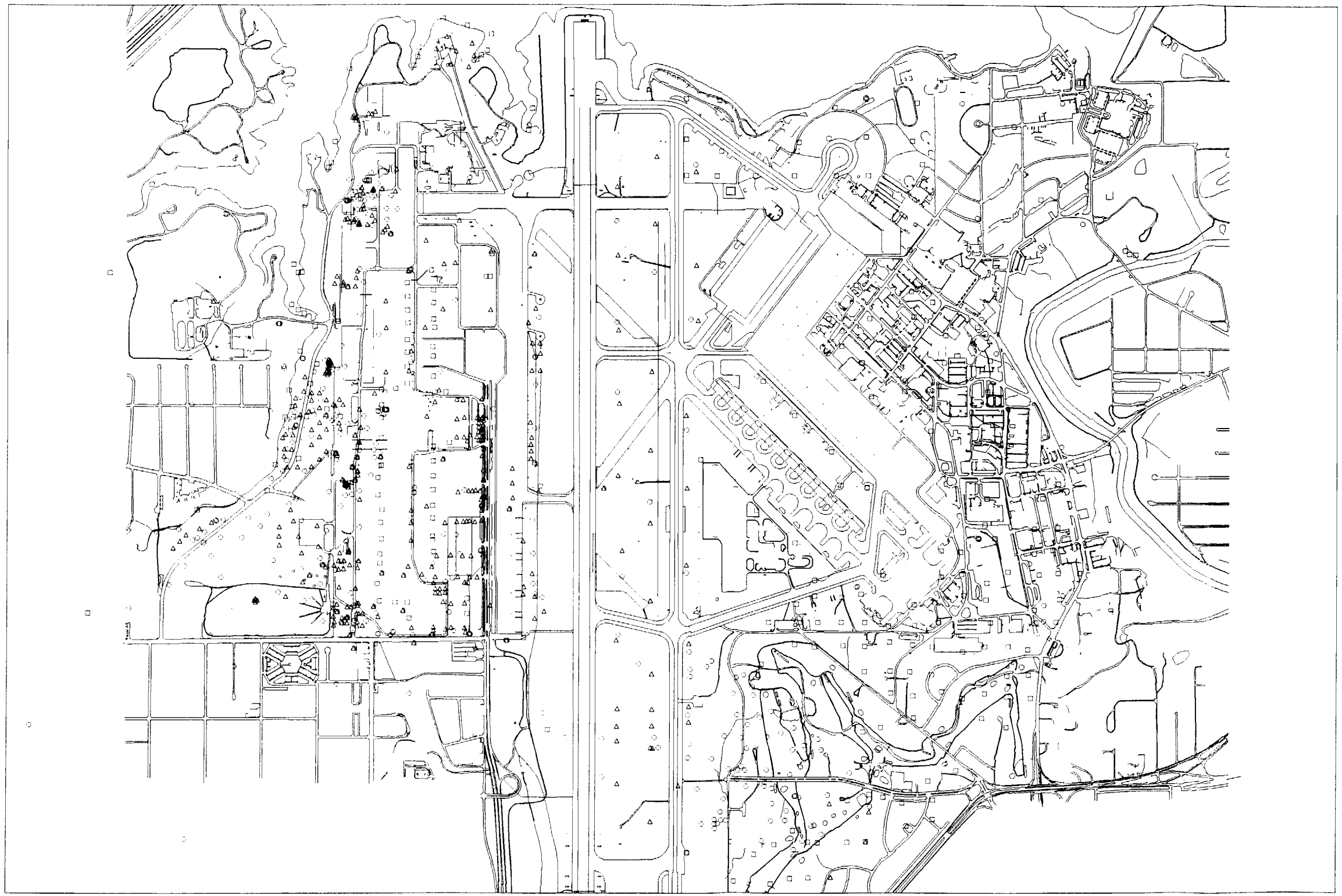
[a]PRL = Project reporting limit.
[b]HT = Analytical holding time.
[c]MB = Method blank.
[d]LCS = Laboratory control sample.
[e]SURR = Surrogate spike.
[f] Officially cited volatile organic method titles are as follows:
SW8240 Volatile Organics by Gas Chromatography/Mass Spectrometry (GC/MS).
SW8260 Volatile Organic Compounds by GC/MS Capillary Column Technique.
SW8015 Nonhalogenated Volatile Organics.
SW8010 Halogenated Volatile Organics by Gas Chromatography (GC).
SW8021 Halogenated Volatiles by GC using Photoionization and Electrolytic Conductivity Detectors in series:
E624 Purgeable Organics by GC/MS.
E601 Purgeable Halocarbons by GC.
E602 Purgeable Aromatics by GC.
E524.2 Measurement of Purgeable Organic Compounds in Water by Capillary Column GC/MS.
[g]WG = Ground water.
[h] NC = Not calculated (due to missing data).
[i] N = Presumptive evidence of a detected compound.
[j] Officially cited metals method titles are as follows:
SW6010 Inductively Coupled Plasma Atomic Emission Spectroscopy.
SW7421 Lead (Atomic Adsorption Furnace technique).
SW7740 Selenium (Atomic Adsorption Furnace technique).
SW7841 Thallium (Atomic Adsorption Furnace technique).
SW7060 Arsenic (Atomic Adsorption Furnace technique).
SW7471 Mercury in Solid or Semi-Solid Waste (manual cold-vapor technique).
SW7470 Mercury in Liquid Waste (manual cold vapor technique).
SW7196 Chromium, Hexavalent (colorimetric).
E213.2 Cadmium (Atomic Adsorption Furnace technique).
E218.4 Chromium, Hexavalent (Atomic Adsorption, chelation-extraction).
E245.1 Determination of Mercury in Water by Cold Vapor Atomic Adsorption Spectrometry.
E212.3 Boron, (colorimetric, curcumin)
[k]J = Detected target compound of estimated concentration.
[l] Officially cited wet chemistry methods are as follows:
E150.1 pH
E160.1 Residue, Filterable (Gravimetric, Dried at 180 C).
E160.2 Non-Filterable Residue (Gravimetric, Dried at 103-105 C).
E300.0 Test Method for the Determination of Inorganic Anions in Water by Ion Chromatography.
E310.1 Alkalinity (titrimetric pH 4.5).

TABLE 3.7 (Continued)
DATA VALIDATION QUALIFICATION SUMMARY
DATA QUALITY ASSESSMENT
US AIR FORCE PLANT 4
FORT WORTH, TEXAS

Parameter Method	Matrix	Usability Code	Qualifiers PRL[a]	HT[b]	MB[c]	LCS[d]	SURR[e]	No. of Analytes

E310.2 Alkalinity (Colorimetric, Automated, Methyl Orange).
E325.2 Chloride (Colorimetric, Automated, Ferricyanide AAII).
E353.2 Nitrogen, Nitrate-Nitrite (colorimetric, Automated, Cadmium reduction).
E375.4 Sulfate (turbidimetric).
E405.1 Biochemical Oxygen Demand (5 days, 20°C).
E410.4 Chemical Oxygen Demand (colorimetric, Automated, manual).
E415.1 Organic Carbon, Total (Combustion or Oxidation).
E120.1 Conductance (specific conductance, umhos at 25°C).
E170.1 Temperature (thermometric).
E413.1 Oil and Grease, Total Recoverable (Gravimetric, Separatory Funnel Extraction).
E413.2 Oil and Grease, Total Recoverable (Spectrophotometric, infrared).
E418.1 Petroleum Hydrocarbons, total recoverable.
E335.2 Cyanide, Total (Titrimetric, Spectrophotometric).
SW9010 Total and Amenable Cyanide.
N6701 Nitrogen, Nitrate-Nitrite.
A5520C Total petroleum hydrocarbons.

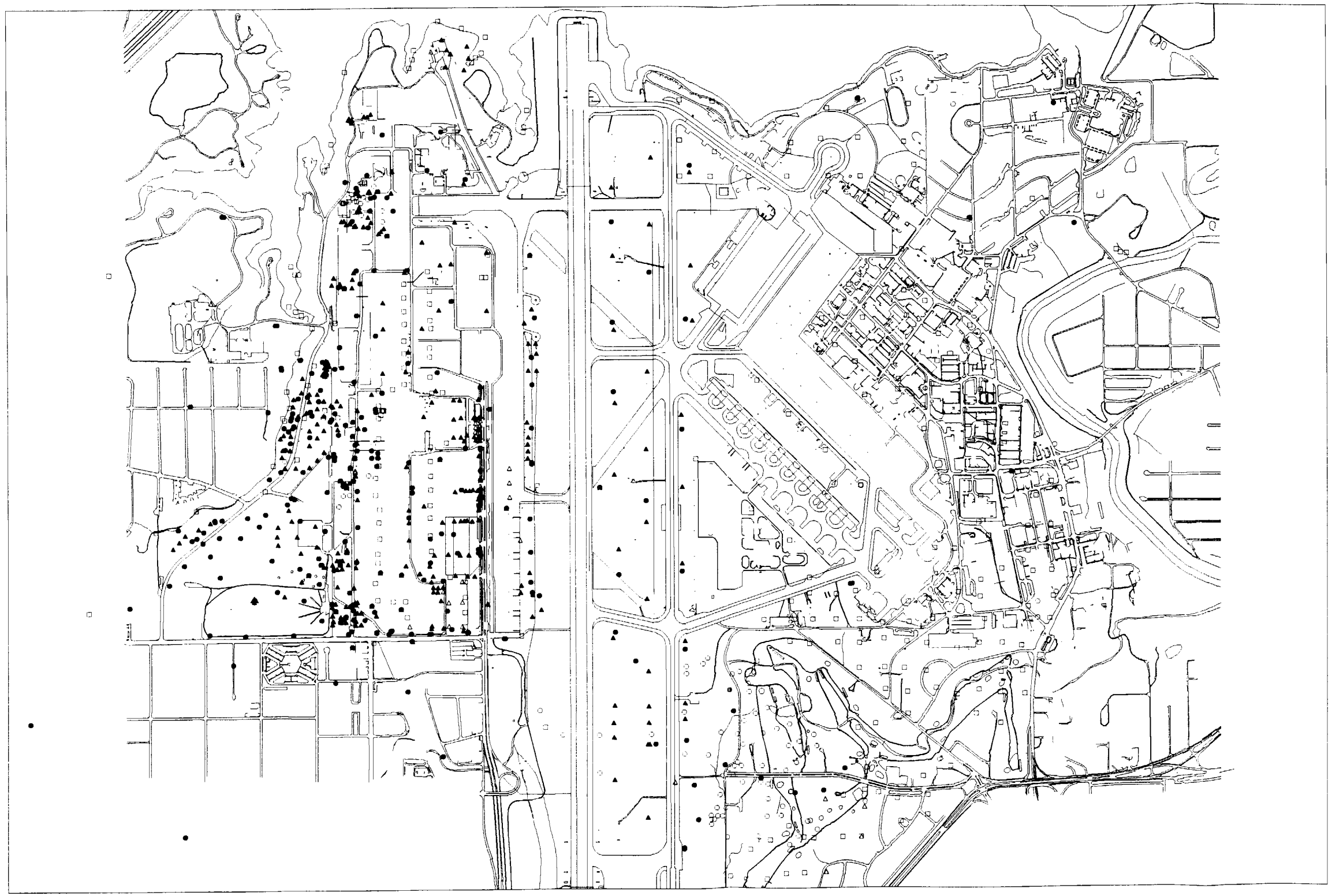
[m] UJ = Nondetected target compound of estimated concentrations.
[n] WP = Drinking water.
[o] R = Unusable value.
[p] WS = Surface water.
[q] Officially cited semivolatile organic method titles are as follows:
SW8270 Semivolatile Organic Compounds by GC/MS: Capillary Column Technique.
E625 Base/Neutrals and Acids by GC/MS.
[r] SE = Sediment.
[s] SO = Soil.
[t] GS = Soil Gas.
[u] WD = Well Development Water.



LEGEND

- Well
- Borehole
- Other locations

Figure 3.1 Map of LDI Table Locations at AFP4



Legend

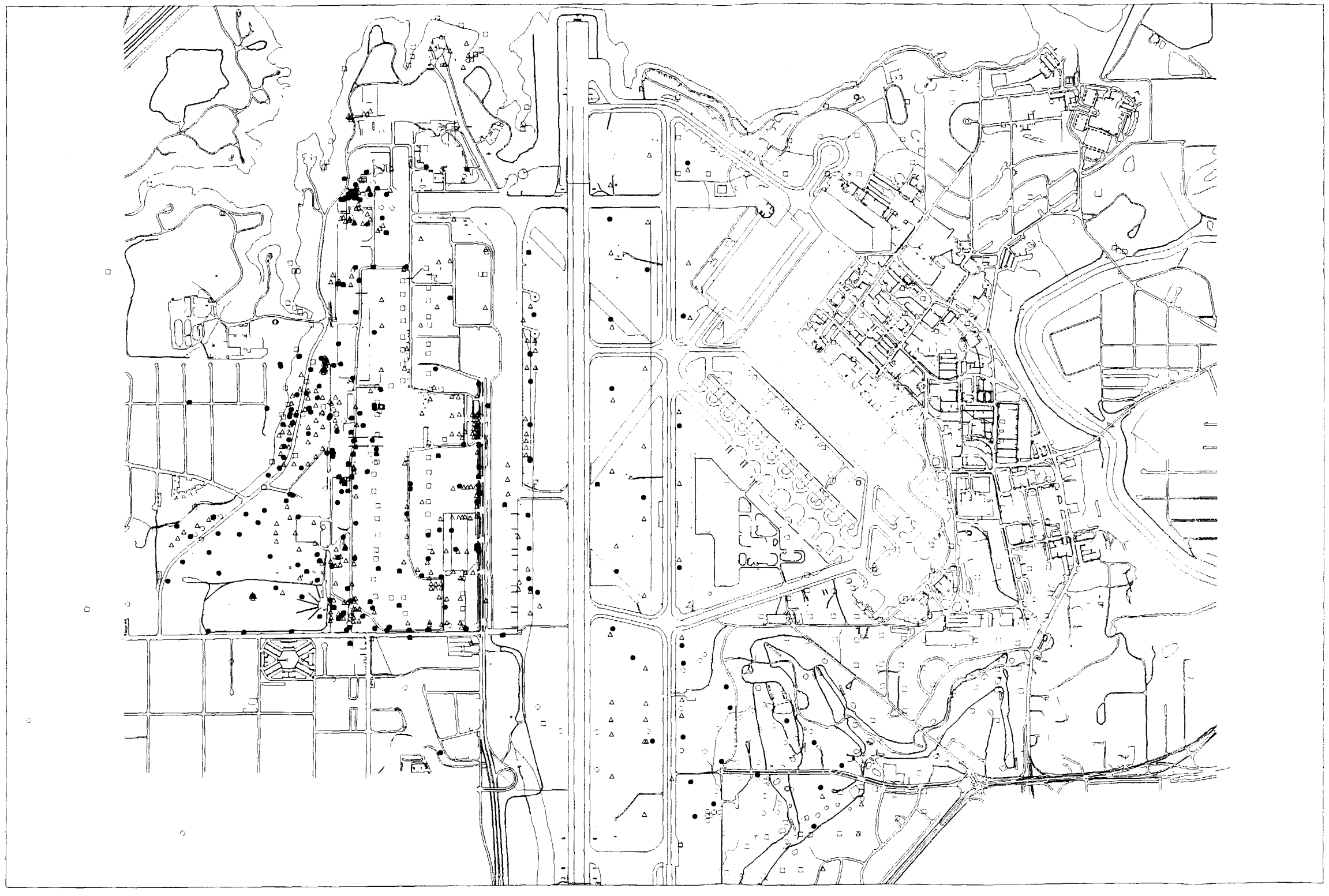
- ○ Well
- △ Borehole
- □ Other Locations
- ● Well with lith data
- ▲ Boreholes with lith data
- ■ Other locations with lith data

Figure 3.2 Locations With Associsated Llithologic Data

LEGEND

- ○ Well
- △ Borehole
- □ Other location
- ● Well with completion data
- ▲ Borehole with completion data
- ■ Other location with completion data

Figure 3.3. Locations With Well Completion Data



LEGEND

- ○ Well
- △ Borehole
- □ Other location
- ● Well with groundwater data
- ▲ Borehole with groundwater data
- ■ Other location with groundwater data

Figure 3.4 Locations With Groundwater Data

SECTION 4

RECOMMENDATIONS

4.1 DATA IMPROVEMENT PROCESS

As the remediation program at AFP 4 continues, this database may require further augmentation and review to upgrade needed data to higher usability classes. For example, it may be necessary to locate and load additional QC information before data for a particular site can be used in a risk assessment. Because only certain data are likely to be needed in future studies, it is necessary to identify the critical data and prioritize work to improve them. As a final step in this study, a process is recommended by which ASC/EM can determine the necessity and priority of completing and improving specific portions of this database. This process involves the following steps:

- Determine, through review with project managers and contractors, what types of data may be required for anticipated investigations and design work in specific hazardous waste study areas on and around AFP 4. For example, additional TCE data may be superfluous if they apply to a well characterized spill area, but important if they can help delineate the leading edge of the groundwater plume moving off the facility.

- Determine, by use of the ASC/EM GIS, the availability of usable data in the vicinity of crucial contaminant conditions. Then identify any additional data for the areas which do not meet the usability criteria at this time, and which are therefore candidates for further evaluation.

- Determine, through review of the administrative record and additional gathering of documents review, whether missing data could be extracted from hardcopy maps or documents. For example, the location coordinates of sampling points sometimes are missing in the electronic record, but may exist as labeled points on hardcopy maps that can be obtained from the contractors. Likewise, quality control data for electronic records may exist in hardcopy reports only.

- Compare data needs for planned projects to the data now existing in the consolidated database and data identified as having potential for inclusion or improvement. Determine what data enhancements that are important to the planned studies, and the time sequence.

- Estimate the cost in each case to achieve the desired data enhancement.

- Design and prioritize projects to achieve the most program benefit for the least total cost, in the time sequence required by project schedules.

- As projects are completed, ensure that the usability codes attached to records are updated.

The quality of chemical results data will support most modeling and remedial design tasks that may be undertaken in the foreseeable future. It is recommend that additional effort on those data be undertaken only on a case-by-case basis, using the process described above. This topic would be very suitable for discussion in AFP 4 partnering sessions, where upcoming studies and data needs can be discussed with regulators, the Air Force, and contractors.

ASC/EM should consider undertaking an additional effort to correlate the quality of chemical analytical results to the completeness and quality of hydrogeological and location data for the associated sampling sites. Even though chemistry data may be classified as usable for any purpose, a lack of field data may undermine the practical utility. An effort to tie chemical data quality to the corresponding geological data would make it more convenient to find useful data for modeling and other analyses.

4.2 METHODS FOR DATABASE IMPROVEMENT

Cost savings will be realized if data improvement efforts are prioritized through the process described above. Much of the current database already is usable for the purposes likely to be made of it. However, some segments of the database will require further investment before decisions can be made or work can proceed.

Correction of data deficiencies should be accomplished by various methods, depending on the nature of the deficiency and availability of information. Some of the methods that should be implemented are discussed in the following paragraphs.

Locate Records. In the case of missing chemical or quality control data, a search of records at the original contractors and laboratories may locate additional QC or locational data that can be loaded, checked, and re-labeled for usability through the procedures established in this project. The same approach may fill in some of the gaps in the geological database.

Collect Data. In most cases pertaining to these database records, lost or unrecorded data are not recoverable. However, missing location data can be restored by surveying, where physical evidence of the location still can be found. Elevation values can be obtained at the same time. Conventional surveying methods are cost-effective at AFP 4, and measurements using Global Positioning System (GPS) technology can be considered as well.

Infer Values and/or Usability. Relatively imprecise X/Y coordinates can be obtained by reference to hardcopy or electronic maps in the GIS. After maps have been scanned or digitized into the GIS and have been properly georeferenced to the AFP 4 base map, it will be possible to obtain estimated coordinates for each point by graphical query methods. The precision of such estimates will be limited primarily by the quality of the original map source, but may nonetheless serve to make otherwise

unusable data usable. Surface elevation coordinates can be estimated by intersecting the X/Y location of points with the AFP 4 surface model (Digital Terrain Model) recently developed for ASC/EM under a separate delivery order. The precision of these estimates will be limited to the precision of the topographic interpretation of a recent aerial survey, plus or minus 2 feet, plus error associated with interpolation between interpreted contours.

Where adequate QC data cannot be located or perhaps cannot be associated with certain chemical results, it may be possible to use geostatistical methods to establish and label the usability of some results for modeling and analysis purposes. "Geostatistics" is a general term for a variety of statistics-based approaches to interpolating values between known points on a surface or within a volume. Using geostatistics, analysts could use high-quality data values to estimate the values at points for which QC is missing. The estimated value at that point can then be compared to the reported value (lacking QC), and the variance evaluated for acceptability. Such an approach would be experimental and could not be used without prior agreement of the AFP 4 partners and technical support community. However, the potential exists in these methods to improve the confidence of much of the AFP 4 database.

4.3 MAINTENANCE

A significant investment has been made in consolidating and evaluating the AFP 4 remediation database. Through this study, ASC/EM has developed a greatly improved database for remediation of AFP 4. Immediate use may be made of all elements of the AFP 4 database, consistent with the usability labeling that has been applied. ASC/EM should now establish procedures that will ensure that any new data are similarly evaluated and integrated into the AFP 4 data base.

Any further efforts at database enhancement should occur within the same framework of data format, validation standards, and usability reporting that were applied in this study. The introduction of all new data resulting from future field investigations also should be subjected to the same standards and evaluation processes.

It is recommended that a central data integration function be established to ensure consistent data processing and management. This function would include technical review of contract specifications; database status reporting; planning for database improvements; tracking data improvement efforts and new data submissions; coordinating with AFCEE; assisting contractors and other users in identifying data suitable for their purposes; and publishing and enforcing standards of data quality determination, reporting, and formatting. This integration function can be performed by a contractor under supervision of the AFP 4 Team Chief and the ASC/EM database administrator.

SECTION 5

SELECTED REFERENCES

American Society For Quality Control Energy and Environmental Quality Division Environmental Issues Group, American National Standard, Specifications and Guidelines for Data Quality Systems for Environmental Data Collection and Environmental Technology Programs, ANSI/ASQC E4-1994 (January 1995).

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U.S. Air Force Center for Environmental Excellence, Installation Restoration Program Information Management System, IRPIMS Data Loading Handbook, Version 2.3, (May 1994).

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U.S. Environmental Protection Agency (USEPA) Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March 1983).

U.S. Environmental Protection Agency (USEPA) Contract Laboratory Statement of Work for Organic Analysis, OLM01.8 (August 1991).

U.S. Environmental Protection Agency (USEPA) Contract Laboratory Statement of Work for Inorganic Analysis, ILM03.0 (March 1990).

Hardcopy Data Sources

IRP-Phase II Confirmation/Quantification Stage 1
Volume 2 Appendix A-1
Final Report for Sept. 1985 through Sept. 1986, 1986
Radian Corporation
December 1987

IRP-Phase II Confirmation/Quantification Stage 1
Volume 3 Appendix A-1
Final Report for Sept. 1985 through Sept. 1986, 1986
Radian Corporation
December 1987

IRP-Phase II Confirmation/Quantification Stage 1
Volume 4 Appendix A-1
Final Report for Sept. 1985 through Sept. 1986, 1986
Radian Corporation
December 1987

IRP-Phase II Confirmation/Quantification Stage 1
Volume 5 Appendix A-2
Final Report for Sept. 1985 through Sept. 1986, 1986
Radian Corporation
December 1987

IRP-RI Ground-water Monitoring
May 1993 through June 1993
U.S. Geological Survey
1995

IRP-RI Ground-water Monitoring Phase III
Jan 1993 through Sept 1994
IT Corporation
1995

APPENDIX A

GEOLOGICAL DATA QUALITY ASSESSMENT

TABLE A1 Unique LOCIDs in LDI Table

5/24/85 60

LOCID
8A-105
8A-106
8A-107
8A-108
8A-88
8A-89
8A-90
8A-91
8A-92
8A-93
8A-94
8A-95
8A-96
8A-97
8A-98
8A-99
8A3F-109
8A3F-110
8A4C-100
8A4C-101
8A4C-102
8A4C-103
8A4C-104
8A4C-83
8A4C-84
8A4C-85
8A4C-86
8A4C-87
A4
A7
AC-1
AC-10
AC-11
AC-12
AC-13
AC-14
AC-15
AC-16
AC-17
AC-2
AC-3
AC-4
AC-5
AC-6
AC-7
AC-8
AC-9
BG-001
BG-002
C-1
C-2
C-3
C-4
C-5
COOL-IN
COOL-OUT
CREEK_SEEP
CS-001
CS-002
CS-003
CS-004
CS-005

TABLE A1 Unique LOCIDs in LDI Table

258 61

LOCID
CS-006
CS-007
DOCK-17
DRAIN PIPE
EGL-1
EGL-2
EPA-1
EPA-2
EPA-3
EPA-4
F-200
F-201
F-202
F-203
F-204
F-205
F-206
F-207
F-208
F-209
F-210
F-211
F-212
F-213
F-214
F-215
F-216
F-217
F-218
F-219
F-220
F-221
F-222
F-223
FB-1
FB-2
FF-1
FIREHYDRNT
FRDRN#1
FRDRN#2
FSA-3-01
FSA-3-02
FSA-3-03
FSA-3-04
FSA-3-06
FSA-3-07
FSA-3-08
FSA-3-10
FSA-3-12
FSA-3-14
FSA-3-15
FSA-3-16
FSA-3-17
FSA3-1
FSA3-10
FSA3-11
FSA3-12
FSA3-13
FSA3-14
FSA3-15
FSA3-16
FSA3-17

TABLE A1 Unique LOCIDs in LDI Table

LOCID
FSA3-2
FSA3-3
FSA3-4
FSA3-5
FSA3-6
FSA3-7
FSA3-8
FSA3-9
FT08-11A
FT08-11B
FT09-12A
FT09-12B
GMI-01M
GMI-02M
GMI-03M
GMI-04M
GMI-05M
HA-1
HA-2
HA-3
HA-4
HA-5
HA-6
HM-1
HM-10
HM-100
HM-101
HM-102
HM-103
HM-104
HM-105
HM-106
HM-107
HM-108
HM-11
HM-110
HM-111
HM-112
HM-113
HM-114
HM-115
HM-116
HM-117
HM-118
HM-119
HM-12
HM-120
HM-121
HM-122
HM-123
HM-124
HM-125
HM-126
HM-127
HM-13
HM-14
HM-15
HM-16
HM-17
HM-18
HM-19
HM-2

LOCID
HM-20
HM-21
HM-22
HM-23
HM-24
HM-25
HM-26
HM-27
HM-28
HM-29
HM-30
HM-31
HM-32
HM-33
HM-34
HM-35
HM-36
HM-37
HM-38
HM-39
HM-3A
HM-3B
HM-40
HM-41
HM-42
HM-43
HM-44
HM-45
HM-46
HM-47
HM-48
HM-49
HM-4A
HM-4B
HM-5
HM-50
HM-51
HM-52
HM-53
HM-54
HM-55
HM-56
HM-57
HM-58
HM-59
HM-6
HM-60
HM-61
HM-62
HM-63
HM-64
HM-65
HM-66
HM-68
HM-69
HM-7
HM-70
HM-71
HM-72
HM-73
HM-74
HM-75

TABLE A1 Unique LOCIDs in LDI Table

258 64

LOCID
HM-76
HM-77
HM-78
HM-79
HM-8
HM-80
HM-81
HM-82
HM-83
HM-84
HM-85
HM-86
HM-87
HM-88
HM-89
HM-9
HM-90
HM-91
HM-92
HM-93
HM-94
HM-95
HM-96
HM-97
HM-98
HM-99
LABQC
LF04-01
LF04-02
LF04-04
LF04-10
LF04-4A
LF04-4B
LF04-4C
LF04-4G
LF05-01
LF05-02
LF05-14
LF05-18
LF05-19
LF05-5A
LF05-5B
LF05-5D
LF05-5E
LF05-S5
LF05-S6
LF05-S7
LF05-SS1
LOC_1
LOC_10
LOC_11
LOC_12
LOC_13
LOC_14
LOC_15
LOC_16
LOC_17
LOC_18
LOC_19
LOC_2
LOC_20
LOC_21

LOCID
LOC_22
LOC_23
LOC_24
LOC_25
LOC_26
LOC_28
LOC_29
LOC_3
LOC_30
LOC_31
LOC_32
LOC_33
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LOC_37
LOC_38
LOC_39
LOC_4
LOC_40
LOC_41
LOC_43
LOC_44
LOC_45
LOC_46
LOC_47
LOC_48
LOC_49
LOC_5
LOC_50
LOC_51
LOC_52
LOC_53
LOC_54
LOC_55
LOC_8
LOC_9
LOC_B-3
LOC_B-5
LOC_E7
LW-01
LW-02
LW-03
LW-04
LW-05
LW-06
LW-07
LW-08
LW-09
LW-10
LW-11
LW-12
LW-13
LW-14
LW-15
LW-16
LW-17
LW-18
LW-19
LW-20
LW-21
LW-22

TABLE A1 Unique LOCIDs in LDI Table

LOCID
LW-23
LW-24
LW-25
LW-26
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
NBR3 SEEP
OF-1
OF-3
OF-4
OF-5
OLD HOLE
OUT#1
OUT#3
OUT#4
OW-1
OW-2
P-1
P-10M
P-10U
P-11M
P-11U
P-11US
P-12M
P-12U
P-12UN
P-12US
P-13M
P-13U
P-13US
P-14U
P-14US
P-15U
P-15US
P-16US
P-17US
P-18US
P-19US
P-2
P-20
P-20M
P-21
P-21M
P-21U
P-22M
P-22U
P-23U
P-24M
P-24U
P-25M
P-25U
P-26M
P-26U
P-27U
P-28U
P-29M
P-3

LOCID
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P-31U
P-4
P-5M
P-5U
P-5UN
P-5US
P-6M
P-6U
P-7M
P-7U
P-8M
P-8U
P-8UN
P-8US
P-9M
P-9U
P-9UN
P-9US
P1L
P1M
P1U
P2L
P2M
P2U
P3-C
PZ-1
PZ-2
PZ-5
PZ-6
PZ-7
RADAR SEEP
RR-1
RR-2
RR-3
RR-4
RR-5
RR-6
RR-7
RSB-02
RSB-03
RSB-04
RSB-05
RSB-06
RSB-08
RSB-10
RSB-12
RSB-13
RSB-14
RSB-15
RSB-17
RSB-20
RSB-22
RSB-26
RSB-27
RSB-28
RSB-30
RSB-33
RSB-34
RSB-35
RSB-36
RSB-37

TABLE A1 Unique LOCIDs in LDI Table

LOCID
RSB-38
RSB-39
RSB-40
RSB-41
RSB-42
RSB-43
RSB-44
RSB-45
RSB-46
RSB-47
RSB-48
RSB-49
RSB-50
RSB-51
RSB-52
RSB-53
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RSB-67
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SB-029
SB-030
SB-031
SB-032
SB-033

LOCID
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SB-035
SB-036
SB-037
SB-038
SB-039
SB-041
SB-042
SB-043
SB-044
SB-045
SB-046
SB-047
SB-048
SB-049
SB-052
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SB-054
SB-055
SB-056
SB-057
SB-058
SB-059
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SB-065
SB-066
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SB-085
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SB-091
SB-092
SB-093
SB-094
SB-095
SB-096
SB-097
SB-098

TABLE A1 Unique LOCIDs in LDI Table

LOCID
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SB-1(86)
SB-10
SB-10(86)
SB-100
SB-101
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SB-104
SB-105
SB-106
SB-107
SB-108
SB-109
SB-11
SB-11(86)
SB-110
SB-111
SB-112
SB-113
SB-114
SB-115
SB-116
SB-117
SB-118
SB-119
SB-12
SB-120
SB-121
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SB-127
SB-128
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SB-134
SB-135
SB-136
SB-137
SB-138
SB-139
SB-140
SB-141
SB-142
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SB-144
SB-145
SB-146
SB-147
SB-148
SB-149
SB-150
SB-151
SB-152
SB-153

TABLE A1 Unique LOCIDs in LDI Table

LOCID
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SB-155
SB-2
SB-2(86)
SB-3
SB-3(86)
SB-4
SB-4(86)
SB-5
SB-5(86)
SB-6
SB-6(86)
SB-7
SB-7(86)
SB-8
SB-8(86)
SB-9
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SG-1
SG-10
SG-11
SG-12
SG-13
SG-14
SG-15
SG-16
SG-17
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SG-19
SG-2
SG-20
SG-21
SG-22
SG-23
SG-24
SG-25
SG-26
SG-27
SG-28
SG-29
SG-3
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SG-41
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SG-43
SG-44
SG-45
SG-46
SG-47
SG-48
SG-49

LOCID
SG-5
SG-50
SG-51
SG-52
SG-53
SG-54
SG-55
SG-56
SG-57
SG-58
SG-59
SG-6
SG-60
SG-61
SG-62
SG-63
SG-64
SG-65
SG-66
SG-67
SG-68
SG-69
SG-7
SG-70
SG-71
SG-72
SG-73
SG-74
SG-75
SG-76
SG-77
SG-78
SG-79
SG-8
SG-80
SG-81
SG-82
SG-83
SG-84
SG-85
SG-86
SG-87
SG-88
SG-89
SG-9
SG-90
SITE5CATCH
SL-1
SL-11
SL-12
SL-13
SL-14
SL-15
SL-16
SL-19
SL-2
SL-20
SL-21
SL-22
SL-23
SL-24
SL-25

TABLE A1 Unique LOCIDs in LDI Table

LOCID
SL-27
SL-28
SL-29
SL-3
SL-30
SL-31
SL-32
SL-33
SL-34
SL-35
SL-36
SL-37
SL-38
SL-39
SL-4
SL-40
SL-41
SL-42
SL-43
SL-44
SL-45
SL-46
SL-5
SL-6
SL-7
SL-8
SL-9
SS-01
SSO
ST5
SW-01
SW-02
SW-03
SW-03A
SW-04
SW-05
SW-06
SW-07
SW-08
SW-09
SW-10
SW-11
TH-1
TH-11
TH-12
TH-13
TH-14
TH-15
TH-16
TH-17
TH-18
TH-19
TH-2
TH-20
TH-21
TH-22
TH-23
TH-24
TH-25
TH-26
TH-3
TH-4

TABLE A1 Unique LOCIDs in LDI Table

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LOCID
TH-5
TH-6
TH-7
TH-8
TH-9
U25-3
U25-9
U26-2
USGS01P
USGS01T
USGS02T
USGS03T
USGS04T
USGS05P
USGS06P
USGS06T
USGS07P
USGS07T
USGS08PL
USGS08PM
USGS08PU
USGS09PL
USGS09PM
USGS09PU
UZB-1
UZB-2
UZB-3
UZB-6
UZB-7
V12-1
VW-1
VW-2
VW-3
VW-4
W-128L
W-128U
W-129
W-130
W-131L
W-131U
W-132
W-133L
W-133U
W-134
W-135
W-136
W-137
W-139L
W-139U
W-140
W-141L
W-141U
W-143
W-144
W-145
W-146
W-147
W-148
W-149
W-150L
W-150U
W-151

LOCID
W-152
W-153
W-154
W-155
W-156
W-157
W-158
W-159
W-160
W-162
W-163
W-164
W24-6
W25-3
WP07-10A
WS-1
WS-12
WS-2
WS-3
WS-5
WS-5A
WS-6
WS-8
WS-H3
X1
X10
X11
X2
X3
X4
X5
X6
X7
X8
X9

TABLE A2 Duplicate Record Count for given LOCID in LDI Table

LOCID Field	NumberOfDups
8A-94	2
8A-95	2
8A-96	2
8A-97	2
8A-98	2
8A-99	2
8A3F-109	2
8A3F-110	2
8A4C-100	2
8A4C-101	2
8A4C-102	2
8A4C-103	2
8A4C-104	2
8A4C-83	2
8A4C-84	2
8A4C-85	2
8A4C-86	2
8A4C-87	2
C-1	3
C-2	3
C-3	3
C-4	3
C-5	3
COOL-IN	2
COOL-OUT	2
CREEK SEEP	2
DOCK-17	3
DRAIN PIPE	2
EGL-1	2
EGL-2	2
EPA-1	2
EPA-2	2
EPA-3	2
EPA-4	2
F-200	3
F-202	3
F-203	3
F-204	4
F-207	4
F-208	3
F-209	4
F-211	3
F-212	3
F-213	4
F-214	3
F-215	4
F-216	4
F-217	4
F-218	3
F-219	4
F-220	3
F-221	3
FF-1	2
FRDRN#1	3
FRDRN#2	3
FSA-3-01	2
FSA-3-02	2
FSA-3-03	2
FSA-3-04	2
FSA-3-06	2
FSA-3-07	2
FSA-3-08	2

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LOCID Field	NumberOfDups
FSA-3-10	2
FSA-3-12	2
FSA-3-14	2
FSA-3-15	2
FSA-3-16	2
FSA-3-17	2
FT08-11A	2
FT08-11B	2
FT09-12A	2
FT09-12B	2
HM-1	2
HM-10	4
HM-100	3
HM-101	3
HM-102	3
HM-103	4
HM-104	3
HM-105	3
HM-106	3
HM-107	4
HM-108	3
HM-11	3
HM-110	3
HM-111	4
HM-112	3
HM-113	4
HM-114	3
HM-115	4
HM-116	4
HM-117	4
HM-118	3
HM-119	3
HM-12	3
HM-120	3
HM-121	3
HM-122	4
HM-123	3
HM-124	3
HM-125	3
HM-126	4
HM-127	3
HM-13	3
HM-14	4
HM-15	3
HM-16	4
HM-17	3
HM-18	3
HM-19	3
HM-2	3
HM-20	4
HM-21	4
HM-22	3
HM-23	3
HM-24	3
HM-25	3
HM-26	3
HM-27	3
HM-28	3
HM-29	4
HM-30	3
HM-31	3
HM-32	3

TABLE A2 Duplicate Record Count for given LOCID in LDI Table

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LOCID Field	NumberOfDups
HM-33	3
HM-34	3
HM-35	3
HM-36	3
HM-37	3
HM-38	3
HM-39	3
HM-3A	2
HM-3B	2
HM-40	3
HM-41	3
HM-42	3
HM-43	3
HM-44	3
HM-45	2
HM-46	3
HM-47	4
HM-48	3
HM-49	3
HM-4A	2
HM-4B	2
HM-5	3
HM-50	4
HM-51	4
HM-52	3
HM-53	4
HM-54	3
HM-55	3
HM-56	4
HM-57	3
HM-58	3
HM-59	3
HM-6	2
HM-60	4
HM-61	3
HM-62	3
HM-63	4
HM-64	3
HM-65	3
HM-66	4
HM-68	3
HM-69	3
HM-7	4
HM-70	3
HM-71	4
HM-72	3
HM-73	3
HM-74	3
HM-75	3
HM-76	3
HM-77	3
HM-78	2
HM-79	3
HM-8	3
HM-80	3
HM-81	3
HM-82	3
HM-83	2
HM-84	3
HM-85	2
HM-86	4
HM-87	4

TABLE A2 Duplicate Record Count for given LOCID in LDI Table

LOCID Field	NumberOfDups
HM-88	4
HM-89	4
HM-9	3
HM-90	4
HM-91	3
HM-92	3
HM-93	4
HM-94	4
HM-95	4
HM-96	4
HM-97	4
HM-98	3
HM-99	3
LF04-01	2
LF04-02	2
LF04-04	2
LF04-10	2
LF04-4A	2
LF04-4B	2
LF04-4C	2
LF04-4G	2
LF05-01	2
LF05-02	2
LF05-14	2
LF05-18	2
LF05-19	2
LF05-5A	2
LF05-5B	2
LF05-5D	2
LF05-5E	2
LF05-S5	2
LF05-S6	2
LF05-S7	2
LF05-SS1	2
LW-01	2
LW-02	2
LW-03	2
LW-05	2
LW-08	2
LW-11	2
LW-12	2
LW-15	2
LW-16	2
LW-17	2
LW-18	2
LW-21	2
MW-1	2
MW-2	2
MW-3	2
MW-4	2
MW-5	2
MW-6	2
MW-7	2
OF-3	2
OF-4	2
OF-5	2
P-1	2
P-10M	3
P-10U	4
P-11M	3
P-11U	3
P-11US	3

TABLE A2 Duplicate Record Count for given LOCID in LDI Table

LOCID Field	NumberOfDups
P-12M	3
P-12U	2
P-12UN	3
P-12US	3
P-13M	3
P-13U	3
P-13US	3
P-14U	3
P-14US	3
P-15U	3
P-15UN	2
P-15US	3
P-16US	3
P-17US	3
P-18US	3
P-19US	3
P-2	3
P-20M	3
P-21U	3
P-22M	3
P-22U	4
P-23U	3
P-24M	3
P-24U	3
P-25M	3
P-25U	3
P-26M	3
P-26U	3
P-27U	3
P-28U	4
P-29M	3
P-3	2
P-30M	3
P-31U	4
P-4	2
P-5M	3
P-5U	2
P-5UN	4
P-5US	3
P-6M	3
P-6U	3
P-7M	4
P-7U	4
P-8M	3
P-8U	2
P-8UN	3
P-8US	3
P-9M	3
P-9U	2
P-9UN	3
P-9US	3
SB-001	2
SB-002	2
SB-003	2
SB-004	2
SB-005	2
SB-006	2
SB-007	2
SB-008	2
SB-009	2
SB-010	2
SB-011	2

TABLE A2 Duplicate Record Count for given LOCID in LDI Table

LOCID Field	NumberOfDups
SB-012	2
SB-013	2
SB-014	2
SB-015	2
SB-016	2
SB-017	2
SB-018	2
SB-019	2
SB-020	2
SB-021	2
SB-022	2
SB-023	2
SB-024	2
SB-025	2
SB-026	2
SB-027	2
SB-028	2
SB-029	2
SB-030	2
SB-031	2
SB-032	2
SB-033	2
SB-034	2
SB-035	2
SB-036	2
SB-037	2
SB-038	2
SB-039	2
SB-041	2
SB-042	2
SB-043	2
SB-044	2
SB-045	2
SB-046	2
SB-047	2
SB-048	2
SB-049	2
SB-052	2
SB-053	2
SB-054	2
SB-055	2
SB-056	2
SB-057	2
SB-058	2
SB-059	2
SB-060	2
SB-061	2
SB-062	2
SB-063	2
SB-064	2
SB-065	2
SB-066	2
SB-067	2
SB-068	2
SB-069	2
SB-070	2
SB-071	2
SB-072	2
SB-073	2
SB-074	2
SB-075	2
SB-076	2

LOCID Field	NumberOfDups
SB-077	2
SB-078	2
SB-079	2
SB-080	2
SB-081	2
SB-082	2
SB-083	2
SB-084	2
SB-085	2
SB-086	2
SB-087	2
SB-088	2
SB-089	2
SB-090	2
SB-091	2
SB-092	2
SB-093	2
SB-094	2
SB-095	2
SB-096	2
SB-097	2
SB-098	2
SB-099	2
SB-100	2
SB-101	2
SB-102	2
SB-103	2
SB-104	2
SB-105	2
SB-106	2
SB-107	2
SB-108	2
SB-109	2
SB-110	2
SB-111	2
SB-112	2
SB-113	2
SB-115	2
SB-116	2
SB-117	2
SB-118	2
SB-119	2
SB-120	2
SB-121	2
SB-122	2
SB-123	2
SB-124	2
SB-125	2
SB-126	2
SB-127	2
SB-128	2
SB-129	2
SB-130	2
SB-131	2
SB-132	2
SB-133	2
SB-134	2
SB-135	2
SB-136	2
SB-137	2
SB-138	2
SB-139	2

LOCID Field	NumberOfDups
SB-140	2
SB-142	2
SB-143	2
SB-144	2
SB-145	2
SB-146	2
SB-147	2
SB-148	2
SB-149	2
SB-151	2
SB-152	2
SB-153	2
SB-154	2
SB-155	2
SG-1	2
SG-10	2
SG-11	2
SG-12	2
SG-13	2
SG-14	2
SG-15	2
SG-16	2
SG-17	2
SG-18	2
SG-19	2
SG-2	2
SG-3	2
SG-4	2
SG-5	2
SG-6	2
SG-7	2
SG-8	2
SG-9	2
SSO	2
ST5	2
SW-01	2
SW-02	3
SW-03	3
SW-03A	2
SW-04	2
SW-05	3
SW-06	2
SW-07	2
SW-08	2
VW-1	2
VW-2	2
VW-3	2
VW-4	2
W-128L	4
W-128U	4
W-129	4
W-130	4
W-131L	4
W-131U	4
W-132	4
W-133L	4
W-133U	4
W-134	4
W-135	4
W-136	4
W-137	4
W-139L	4

LOCID Field	NumberOfDups
W-139U	4
W-140L	3
W-141L	4
W-141U	4
W-143	4
W-144	4
W-145	4
W-146	4
W-147	4
W-148	4
W-149	4
W-150L	4
W-150U	4
W-151	4
W-152	4
W-153	4
W-154	4
W-155	4
W-156	4
W-157	4
W-158	4
W-159	4
W-160	4
W-162	3
W-163	3
W-164	3
WP07-10A	2
WS-1	3
WS-12	3
WS-2	3
WS-3	2
WS-5	2
WS-5A	2
WS-6	2
WS-8	2
WS-H3	2

TABLE A3 LOCID with multiple NCOORD and ECOORD in LDI Table

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LOCID	LTCCOD	LPR	NCOORD	ECOORD	ELEV	ESCCOD	DRLC	EXC	CMCC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
C-1	RV	I	406586.7	2023961.13	0	HARG	NA	NA	NA	11-JAN-83			N/A	BCH
C-1			401305.73	2012655.56										EXP
C-3	RV	I	404845.05	2025593.28		HARG	NA	NA	NA	06-MAY-83				IRP
C-3	RV	I	404845.05	2025593.28	0	HARG	NA	NA	NA	06-MAY-83			N/A	BCH
C-3			402933.22	2014396.52										EXP
C-4	RV	I	405597.29	2024315.11	0	HARG	NA	NA	NA	02-JUN-83				IRP
C-4			401658.37	2013648.08										EXP
C-5	RV	I	404040.35	2014741.35	0	JEG	NA	NA	NA	24-JUL-92			ON MEANDERING	IRP
C-5			404110.91	2014705.15										EXP

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LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
8A-105	BH	I	2292730.26	6964941.272	646.49	COE	USAC		HS	21-FEB-86	57	8	US Army Corps boring in East Parking Lot	EXP
BA-106	BH	I	2292737.76	6965056.85	646.82	COE	USAC		HS	04-MAR-86	61	8	US Army Corps boring in East Parking Lot	EXP
8A-107	BH	I	2292710.75	6965128.087	647.37	COE	USAC		HS	05-MAR-86	61	8	US Army Corps boring in East Parking Lot	EXP
BA-108	BH	I	2292603.4	6965128.705	648.82	COE	USAC		HS	06-MAR-B6	48	8	US Army Corps boring in East Parking Lot	EXP
8A-88	BH	I	2292403.14	6965113.797	651	COE	USAC		HS	01-FEB-86	19.5	B	US Army Corps boring in East Parking Lot	EXP
8A-89	BH	I	2292389.95	6964709.239	649.35	COE	USAC		HS	02-FEB-86	46	8	US Army Corps boring in East Parking Lot	EXP
8A-90	BH	I	2292309.16	6964257.704	648.74	COE	USAC		HS	03-FEB-86	39	B	US Army Corps boring in East Parking Lot	EXP
8A-91	BH	I	2292469.20	6964245.857	647.21	COE	USAC		HS	04-FEB-86	31.5	8	US Army Corps boring in East Parking Lot	EXP
8A-92	BH	I	2292402.82	6963965.06	647.21	COE	USAC		HS	04-FEB-B6	23.5	8	US Army Corps boring in East Parking Lot	EXP
8A-93	BH	I	2292098.17	6963960.658	650.96	COE	USAC		HS	05-FEB-86	39	8	US Army Corps boring in East Parking Lot	EXP
8A-94	BH	I	2292589.71	6964247.795	645.72	COE	USAC		HS	06-FEB-86	20	8	US Army Corps boring in East Parking Lot	EXP
8A-95	BH	I	2292117.32	6964247.027	652.95	COE	USAC		HS	06-FEB-86	44	8	US Army Corps boring in East Parking Lot	EXP
8A-96	BH	I	2291914.32	6963999.16	653.13	COE	USAC		HS	06-FEB-86	36	8	US Army Corps boring in East Parking Lot	EXP
8A-97	BH	I	2292228.33	696469B.049	650.98	COE	USAC		HS	07-FEB-B6	35	8	US Army Corps boring in East Parking Lot	EXP
8A-98	BH	I	2292674.70	6963959.278	643.64	COE	USAC		HS	07-FEB-86	4.5	8	US Army Corps boring in East Parking Lot	EXP
8A-99	BH	I	2292572.90	6963958.609	644.98	COE	USAC		HS	07-FEB-86	4	B	US Army Corps boring in East Parking Lot	EXP
8A3F-109	BH	I	2292528.48	6964718.428	647.24	COE	USAC		HS	06-MAR-86	49.5	8	US Army Corps boring in East Parking Lot	EXP
8A3F-110	BH	I	2292564.72	6964721.794	647.22	COE	USAC		HS	13-MAR-B6	238.6	8	US Army Corps boring in East Parking Lot	EXP
8A4C-100	BH	I	2292638.38	6964704.244	647.1	COE	USAC		HS	0B-FEB-86	52	8	US Army Corps boring in East Parking Lot	EXP
8A4C-101	BH	I	2292482.61	6964710.061	648.35	COE	USAC		HS	11-FEB-86	51.5	8	US Army Corps boring in East Parking Lot	EXP
8A4C-102	BH	I	2292649.23	6965135.091	648.22	COE	USAC		HS	12-FEB-B6	80	8	US Army Corps boring in East Parking Lot	EXP
8A4C-103	BH	I	2292723.88	6965011.365	646.66	COE	USAC		HS	18-FEB-86	65	8	US Army Corps boring in East Parking Lot	EXP
8A4C-104	BH	I	2292730.54	6964864.131	646.27	COE	USAC		HS	20-FEB-86	40.7	8	US Army Corps boring in East Parking Lot	EXP
8A4C-83	BH	I	2292726.61	6964725.025	645.83	COE	USAC		HS	09-JUL-85	39	8	US Army Corps boring in East Parking Lot	EXP
8A4C-84	BH	I	2292732.32	6965604.479	647.65	COE	USAC		HS	12-JUL-85	62	7.8	US Army Corps boring in East Parking Lot	EXP
BA4C-85	BH	I	2292725.95	6965957.27B	647.2	COE	USAC		HS	16-JUL-85	65.5	10	US Army Corps boring in East Parking Lot	EXP
8A4C-86	BH	I	2292566.86	6965884.419	648.98	COE	USAC		HS	21-JUL-B5	65.5	8	US Army Corps boring in East Parking Lot	EXP
8A4C-B7	BH	I	2292551.26	6965125.608	649.29	COE	USAC		HS	01-FEB-86	41.5	8	US Army Corps boring in East Parking Lot	EXP
A4	SS	I				CNGT	NA	NA	NA	17-SEP-90			N/A	BCH
A7	SS	I				CNGT	NA	NA	NA	17-SEP-90			N/A	BCH
AC-1	BH	I	2291914.98	6963563.602		UNK	UNK		UN	01-JUN-42	59.5		Pre-plant construction foundation soil boring. Drill	EXP
AC-10	BH	I	2292555.27	6968314.964		UNK	UNK		UN	01-JUN-42	38.2		Pre-plant construction foundation soil boring. Drill	EXP
AC-11	BH	I	2292066.12	6968157.378		UNK	UNK		UN	01-JUN-42	32.5		Pre-plant construction foundation soil boring. Drill	EXP
AC-12	BH	I	2291428.19	6968044.447		UNK	UNK		UN	01-JUN-42	41.6		Pre-plant construction foundation soil boring. Drill	EXP
AC-13	BH	I	2291792.23	6966274.184		UNK	UNK		UN	01-JUN-42	35.4		Pre-plant construction foundation soil boring. Drill	EXP
AC-14	BH	I	2291757.45	6964037.978		UNK	UNK		UN	01-JUN-42	43.7		Pre-plant construction foundation soil boring. Drill	EXP
AC-15	BH	I	2291433.7	6964041.995		UNK	UNK		UN	01-JUN-42	46.5		Pre-plant construction foundation soil boring. Drill	EXP
AC-16	BH	I	2291440.48	6965397.176		UNK	UNK		UN	01-JUN-42	42.2		Pre-plant construction foundation soil boring. Drill	EXP
AC-17	BH	I	2291435.84	6966695.034		UNK	UNK		UN	01-JUN-42	38.9		Pre-plant construction foundation soil boring. Drill	EXP
AC-2	BH	I	2291849.39	6966430.647		UNK	UNK		UN	06-JUN-42	33		Pre-plant construction foundation soil boring. Drill	EXP
AC-3	BH	I	2291891.22	6967527.207		UNK	UNK			01-JUN-42	30		Pre-plant construction foundation soil boring. Drill	EXP
AC-4	BH	I	2291678.58	6964865.113		UNK	UNK		UN	01-JUN-42	40.6		Pre-plant construction foundation soil boring. Drill	EXP
AC-5	BH	I	2291679.94	6966074.644		UNK	UNK		UN	01-JUN-42	59.6		Pre-plant construction foundation soil boring. Drill	EXP

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
AC-6	BH	I	2291657.52	6967283.608		UNK	UNK		UN	01-JUN-42	37.8		Pre-plant construction foundation soil boring. Drill	EXP
AC-7	BH	I	2291912.67	6968141.816		UNK	UNK		UN	01-JUN-42	38		Pre-plant construction foundation soil boring. Drill	EXP
AC-8	BH	I	2291666.67	6968458.291		UNK	UNK		UN	01-JUN-42	60		Pre-plant construction foundation soil boring. Drill	EXP
AC-9	BH	I	2292548.56	6967518.936		UNK	UNK		UN	01-JUN-42	27		Pre-plant construction foundation soil boring. Drill	EXP
BG-001	SS	O	2290992.31	6962997.063		CNGT	NA	NA	NA	02-JUL-91			N/A	BCH
BG-002	SS	O	2289852.69	6966215.162		CNGT	NA	NA	NA	02-JUL-91			N/A	BCH
C-1	RV	I	2299675.63	6970003.138		HARG	NA	NA	NA	11-JAN-83			N/A	BCH
C-2	RV	I	2290194.33	6966788.978		JEG	NA	NA	NA	01-JAN-99			SURFACE WATER LOCATION IN MEANDERING	JCB
C-3	RV	I	2301324.29	6968277.092		HARG	NA	NA	NA	06-MAY-83			N/A	BCH
C-4	RV	I	2300039.01	6969017.134		HARG	NA	NA	NA	02-JUN-83				IRP
C-5	RV	I	2290480.45	6967369.085		JEG	NA	NA	NA	24-JUL-92			ON MEANDERING ROAD CREEK UPSTREAM OF	JCB
COOL-IN	TK	I				HARG	NA	NA	NA	11-OCT-85			COOLING TOWER INFLUENT	IRP
COOL-OUT	TK	I				HARG	NA	NA	NA	11-OCT-85			COOLING TOWER EFFLUENT	IRP
CREEK SEE	SE	I	2289952.79	6965509.116		HARG	NA	NA	NA	15-APR-84				IRP
CS-001	CH	I	2291099.45	6966106.128		CNGT	NA	NA	NA	21-MAY-91			N/A	BCH
CS-002	CH	I	2291111.34	6966173.535		CNGT	NA	NA	NA	21-MAY-91			N/A	BCH
CS-003	CH	I	2291130.26	6966166.875		CNGT	NA	NA	NA	21-MAY-91			N/A	BCH
CS-004	CH	I	2291130.26	6966166.875		CNGT	NA	NA	NA	21-MAY-91			N/A	BCH
CS-005	CH	I	2291138.58	6966163.664		CNGT	NA	NA	NA	21-MAY-91			N/A	BCH
CS-006	CH	I	2291127.43	6966167.818		CNGT	NA	NA	NA	21-MAY-91			N/A	BCH
CS-007	CH	I	2291122.29	6966169.839		CNGT	NA	NA	NA	21-MAY-91			N/A	BCH
DOCK-17	WL	I	2292302.02	6969404.374	629.8	USAF	JEG	NA	Z	01-JAN-99	1	1	NO CONSTRUCTION INFORMATION AVAILABLE	IRP
DRAIN PIPE	TK	I	2290331.82	6966176.452		HARG	NA	NA	NA	19-JAN-84				IRP
EGL-1	RV	I	2293346.83	6961828.91		JEG	NA	NA	NA	25-OCT-91			UPSTREAM END OF AQUADUCT EAST OF GRA	IRP
EGL-2	RV	I	2296258.18	6962716.973		JEG	NA	NA	NA	01-FEB-92			DOWNSTREAM END OF AQUEDUCT	IRP
EPA-1	WL	I	2291750.41	6962384.028	640		NA	NA	NA	01-JAN-10				IRP
EPA-2	WL	I	2290763.43	6962509.816	650.8		NA	NA	NA	01-JAN-10				IRP
EPA-3	WL	I	2289367.99	6962756.012	661.1		NA	NA	NA	01-JAN-10				IRP
EPA-4	WL	I	2287943.12	6963547.558	686.3		NA	NA	NA	01-JAN-10				IRP
F-200	WL	I	2291132.26	6968741.508	646	USAF	SWL	NA	HS	24-FEB-86	28.5	4	FUEL SATURATION AREA 3	IRP
F-201			2291128.93	6968888.315										EXP
F-202	WL	I	2290845.65	6968835.824	641.9	USAF	JEG	NA	HS	25-FEB-86	21	4	FUEL SATURATION AREA 3	IRP
F-203	WL	I	2290997.98	6965707.499	645.6	USAF	SWL	NA	HS	25-FEB-86	33	4	FSA NO. 1	IRP
F-204	WL	I	2290928.61	6965284.245	654.1	USAF	SWL	NA	HS	25-FEB-86	31.2	40	SOUTH OF BUILDING 14	IRP
F-205			2290966.68	6965619.477	654.3									EXP
F-206			2290971.78	6965520.25	653.7									EXP
F-207	WL	I	2290744.11	6965704.012	657.2	USAF	SWL	NA	HS	06-MAR-86	35	4	WEST OF BUILDING 14	IRP
F-208	WL	I	2290938.24	6968664.016	644.5	USAF	SWL	NA	HS	06-MAR-86	21.33	4	FUEL SATURATION AREA 3	IRP
F-209	WL	I	2291195.76	6969069.381		USAF	JEG	NA	HS	07-MAR-86	18	8	FUEL SATURATION AREA 3	IRP
F-210			2290960.51	6968888.171	640.6									EXP
F-211	WL	I	2290872.93	6965917.16	656.9	USAF	SWL	NA	HS	07-MAR-86	36	4	NORTH OF BUILDING 14	IRP
F-212	WL	I	2290821.36	6967900.111	647.5	USAF	SWL	NA	HS	04-SEP-86	25.5	4	FUEL SATURATION AREA 2	IRP
F-213	WL	I	2290568.34	6966754.127	646.8	USAF	SWL	NA	HS	09-SEP-86	12	4	FDTA NO. 2	IRP

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F-214	WL	I	2290157.89	6966101.722	628.4	USAF	SWL	NA	UN	05-SEP-86	18.5	4	LANDFILL NO. 3	IRP
F-215	WL	I	2290829.84	6966080.749	628.4	USAF	SWL	NA	HS	22-SEP-86	34	4	NORTH OF BUILDING 14	IRP
F-216	WL	I	2290513.87	6965837.817	647.8	USAF	SWL	NA	HS	08-SEP-86	26	4	LANDFILL NO. 1	IRP
F-217	WL	I	2290402.98	6966021.651	639.2	USAF	SWL	NA	HS	08-SEP-86	18	4	LANDFILL NO. 1	IRP
F-218	WL	I	2291768.05	6964085.132	654.7	ITC	SWL	NA	AM	11-SEP-86	32.22	4	Don't know borehole diameter.	IRP
F-219	WL	I	2291766.95	6964404.739	655.2	USAF	SWL	NA	HS	11-SEP-86	35	4	NEXT TO ASSEMBLY BUILDING	IRP
F-220	WL	I	2290530.54	6964111.709	666.4	USAF	SWL	NA	HS	05-SEP-86	33.5	4	CHROME PIT NO. 3 NEXT TO FENCE	IRP
F-221	WL	I	2290869.22	6963305.869	653.3	USAF	SWL	NA	HS	10-SEP-86	21.5	4	FDTA NO. 5	IRP
F-222			2291024.74	6969076.753	636.2									EXP
F-223			2291277.44	6968886.579	645.3									EXP
FB-1	BH	I	2290885.64	6970177.511	629.07	REI	SWL		HS	06-SEP-86	2.2		Elevation data taken from original survey	EXP
FB-2	BH	I	2290932.82	6970172.979	630.11	REI	SWL		HS	04-SEP-86	2.2			EXP
FF-1	CH	I				JEG	NA	NA	NA	22-OCT-91			WEST SIDE OF AFP4	IRP
FIREHYDRN	UN	I					NA	NA	NA	01-JAN-10			FIRE HYDRANT	IRP
FRDRN#1	TK	I	2290313.89	6966080.646		HARG	NA	NA	NA	01-NOV-82				IRP
FRDRN#2	TK	I	2290513.68	6966079.079		HARG	NA	NA	NA	13-APR-84				IRP
FSA-3-01	WL	I	2291078.96	6969082.56		HARG	SWL	NA	Z	06-JUN-88	19.5	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-02	WL	I	2291048.57	6969082.881	638.1	HARG	SWL	NA	Z	06-JUN-88	20	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-03	WL	I	2290972.82	6969083.289	632.4	HARG	SWL	NA	Z	06-JUN-88	20	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-04	WL	I	2290926.45	6969083.348	630.9	HARG	SWL	NA	Z	07-JUN-88	15	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-06	WL	I	2290973.77	6969139.121	630.9	HARG	SWL	NA	Z	07-JUN-88	12	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-07	WL	I	2291025.36	6969130.682	634.9	HARG	SWL	NA	Z	07-JUN-88	15	6.25	FUEL SATURATION AREA 3	JCB
FSA-3-08	WL	I	2291006.87	6969178.639	631.7	HARG	SWL	NA	Z	07-JUN-88	15.25		FUEL SATURATION AREA 3	IRP
FSA-3-10	WL	I	2291073.5	6969137.871	638.7	HARG	SWL	NA	Z	07-JUN-88	20	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-12	WL	I	2291130.83	6969061.163	642	HARG	SWL	NA	Z	08-JUN-88	19.5	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-14	WL	I	2290869.42	6969064.334	632.12	ITC	CAD	NA	HS	09-JUL-92	9.5	8	FUEL SATURATION AREA 3	IRP
FSA-3-15	WL	I	2290894.32	6969066.291	632.14	ITC	CAD	NA	HS	09-JUL-92	9.5	8	FUEL SATURATION AREA 3	IRP
FSA-3-16	WL	I	2290907.22	6969064.694	632.23	ITC	CAD	NA	HS	09-JUL-92	9.5	8	FUEL SATURATION AREA 3	IRP
FSA-3-17	WL	I	2290886.67	6969057.628	633.55	ITC	CAD	NA	HS	09-JUL-92	9.5	8	FUEL SATURATION AREA 3	IRP
FSA3-1			2291078.96	6969082.56										EXP
FSA3-10			2291073.5	6969137.871	638.7									EXP
FSA3-11			2291031.17	6968944.297	641.2									EXP
FSA3-12			2291130.83	6969061.163	642									EXP
FSA3-13			2290934.83	6969048.286										EXP
FSA3-14			2290880.91	6969055.883										EXP
FSA3-15			2290895.15	6969057.438										EXP
FSA3-16			2290911.17	6969058.361										EXP
FSA3-17			2290895.65	6969044.852										EXP
FSA3-2			2291048.57	6969082.881	638.1									EXP
FSA3-3			2290972.82	6969083.289	632.4									EXP
FSA3-4			2290926.45	6969083.348	630.9									EXP
FSA3-5			2290873.54	6969082.414										EXP
FSA3-6			2290973.77	6969139.121	630.9									EXP

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FSA3-7			2291025.36	6969130.682	634.9									EXP
FSA3-8			2291006.87	6969178.639	631.7									EXP
FSA3-9			2291014.77	6969228.007										EXP
FT08-11A	WL	I	2296277.83	6962281.096	608.22	RAD	EDC	NA	HS	01-JAN-99			DATE ESTABLISHED. DEPTH	IRP
FT08-11B	WL	I	2296332.87	6962048.778	608.14	RAD	EDC	NA	HS	01-JAN-99			DATE ESTABLISHED	IRP
FT09-12A	WL	I	2295821.97	6960494.296	635.66	RAD	EDC	NA	HS	01-JAN-99			DATE ESTABLISHED	IRP
FT09-12B	WL	I	2296073.95	6960663.705	625.6	RAD	EDC	NA	B	01-MAR-90	40	8	WEST FLIGHT LINE NEAR FIRE TRAINING PIT	IRP
GMI-01M	WL	I				GMI	UNK		HS	7/19/94	16	8	Landfill No. 4	PAR
GMI-02M	WL	I				GMI	UNK		HS	7/19/94	27.5	8	Land Fill No.4	PAR
GMI-03M	WL	I				GMI	UNK		HS	7/19/94	27.5	8	Land Fill No. 4	PAR
GMI-04M	WL	I				GMI	UNK		HS	7/18/94	27	8	Land Fill No.4	PAR
GMI-05M	WL	I				GMI	UNK		HS	7/18/94	17.5	8	Land Fill No.4	PAR
HA-1														IRP
HA-2														IRP
HA-3														IRP
HA-4														IRP
HA-5														IRP
HA-6														IRP
HM-1			2290535.45	6964064.703	666.4									EXP
HM-10	WL	I	2290415.1	6965872.408	643.4	HARG	SWL	NA	B	06-DEC-82	22	7	LANDFILL NO. 1	IRP
HM-100	WL	I	2289973.09	6963758.431	669.96	RAD	SWL	NA	HS	22-JAN-86	49	8	CENTER OF OLD RADAR RANGE.	IRP
HM-101	WL	I	2289180.36	6964503.624	665.3	RAD	SWL	NA	HS	21-JAN-86	34	8	NORTH OF LANDFILL NO. 2	IRP
HM-102	WL	I	2289563.68	6964772.809	655	RAD	SWL	NA	HS	23-JAN-86	44	8	LANDFILL NO. 2	IRP
HM-103	WL	I	2292236.64	6963898.743	648.28	RAD	SWL	NA	HS	26-JAN-86	39	8	EAST OF ASSEMBLY BUILDING IN SOUTHERN E	IRP
HM-104	WL	I	2291494.65	6963175.527	649.66	RAD	SWL	NA	HS	27-JAN-86	39	8	SOUTHWEST CORNER OF ASSEMBLY BUILDING	IRP
HM-105	WL	I	2291266.38	6969126.367	642.3	RAD	URM	NA	HS	12-AUG-86	21	8	WEST OF JET ENGINE TEST STAND	IRP
HM-106	WL	I	2291065.28	6968137.677	650	RAD	SWL	NA	HS	27-JAN-86	34	8	NW OF ASSEMBLY BLDG	IRP
HM-107	WL	I	2291066.35	6969193.156	639.3	RAD	URM	NA	HS	12-AUG-86	23	8	WEST OF JET ENGINE TEST STAND	IRP
HM-108	WL	I	2291067.74	6969268.193	636.8	RAD	URM	NA	HS	12-AUG-86	15	8	WEST OF JET ENGINE TEST STAND	IRP
HM-11	WL	I	2291226.33	6963153.011	650.7	HARG	SWL	NA	AR	28-MAR-83	35.5	7.75	SOUTH OF ASSEMBLY BUILDING AND WASTE	IRP
HM-110	WL	I	2293457.62	6963728.861	637.33	HARG	RVLB	NA	HS	25-MAR-88	37	6.75	WEST FLIGHT LINE AREA.	IRP
HM-111	WL	I	2293559.73	6963683.901	636.7	HARG	SWL	NA	B	25-MAR-88	53	6.75	WEST FLIGHT LINE BETWEEN RUNWAY AND H	IRP
HM-112	WL	I	2293436.02	6964278.976	638.06	HARG	SWL	NA	HS	25-MAR-88	50.75	10.3	WEST FLIGHT LINE AREA.	IRP
HM-113	WL	I	2293427.96	6964737.515	639.5	HARG	SWL	NA	B	26-MAR-88	49	10.3	WEST FLIGHT LINE BETWEEN RUNWAY AND H	IRP
HM-114	WL	I	2294646.5	6963973.516	627.77	HARG	RVLB	NA	HS	31-JAN-89	36.5	10.8	EAST FLIGHT LINE AREA	IRP
HM-115	WL	I	2295021.43	6964982.552	626.2	HARG	SWL	NA	B	31-JAN-89	27	10.8	EAST FLIGHT LINE BTWN RUNWAY AND TAXI	IRP
HM-116	WL	I	2294578.23	6966473.165	633.77	HARG	RVLB	NA	HS	31-JAN-89	33	10.8	EAST FLIGHT LINE AREA.	IRP
HM-117	WL	I	2294568.8	6967417.178	633.4	HARG	SWL	NA	B	01-FEB-89	39.5	10.8	EAST FLIGHT LINE BTWN RUNWAY AND TAXI	IRP
HM-118	WL	I	2295075.08	6968097.156	626.04	HARG	RVLB	NA	HS	01-FEB-89	27	10.8	EAST FLIGHT LINE AREA BETWEEN RUNWAY 1	IRP
HM-119	WL	I	2294566.33	6968788.04	624.79	HARG	RVLB	NA	HS	02-FEB-89	32	10.8	EAST FLIGHT LINE AREA BETWEEN RUNWAY 1	IRP
HM-12	WL	I	2290690.69	6963149.78	654.3	HARG	SWL	NA	AR	29-MAR-83	40	7.75	DYE YARD CHEMICAL PITS	IRP
HM-120	WL	I	2295637.93	6969551.227	616.56	HARG	RVLB	NA	HS	02-FEB-89	20	10.8	EXTREME NORTHEAST CORNER OF FLIGHT LIN	IRP
HM-121	WL	I	2295573.92	6967452.12	627.47	HARG	RVLB	NA	HS	08-FEB-89	31.5	10.8	EAST FLIGHT LINE	IRP

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HM-122	WL	I	2295554.93	6962951.56	619.5	HARG	SWL	NA	B	15-FEB-89	28.5	10.8	EAST FLIGHT LINE EAST OF TAXIWAY 197 N O	IRP
HM-123	WL	I	2295567.27	6961699.508	624.69	HARG	RVLB	NA	HS	15-FEB-89	40.5	10.8	EAST OF TAXIWAY 197	IRP
HM-124	WL	I	2295517.94	6964019.147	623.2	HARG	SWL	NA	B	16-FEB-89	25	10.8	EAST OF TAXIWAY 197	IRP
HM-125	WL	I	2295514.81	6965954.114	629.06	HART	RWD	NA	HS	16-FEB-89	33	10.8	EAST OF TAXIWAY 197 AT CARSWELL AIR FO	IRP
HM-126	WL	I	2294594.77	6963182.299	623.2	HARG	SWL	NA	B	17-FEB-89	37	10.8	BETWEEN TAXIWAY 197 AND RUNWAY 130 S	IRP
HM-127	WL	I	2295147.91	6961649.501	623.82	HARG	RVLB	NA	HS	18-FEB-89	38.5	10.8	WEST OF TAXIWAY 197	IRP
HM-13	WL	I	2290190.63	6963161.398	658.5	HARG	SWL	NA	AR	29-MAR-83	44	7.75	NEAR DIE YARD CHEMICAL PITS IN RADAR RA	IRP
HM-14	WL	I	2289537.11	6963152.805	663.2	HARG	SWL	NA	AR	30-MAR-83	58	5	FORMER FUEL STORAGE IN RADAR RANGE	IRP
HM-15	WL	I	2290544.10	6963865.504	666	HARG	SWL	NA	AR	01-APR-83	50	5	CHROME PIT NO. 3	IRP
HM-16	WL	I	2290535.47	6964216.532	664.5	HARG	SWL	NA	AR	01-APR-83	50	7.75	NORTH OF CHROME PIT NO. 3	IRP
HM-17	WL	I	2290745.62	6964054.694	657.1	HARG	SWL	NA	AR	31-MAR-83	45	7.75	EAST OF CHROME PIT NO. 3	IRP
HM-18	WL	I	2290322.86	6965399.163	654.5	HARG	SWL	NA	AR	31-MAR-83	38	7.75	LANDFILL NO. 1	IRP
HM-19	WL	I	2290539.65	6966362.442	644	HARG	SWL	NA	AR	01-APR-83	28	7.75	LANDFILL NO. 1	IRP
HM-2	WL	I	2289820.48	6964818.657	655	HARG	SWL	NA	B	02-DEC-82	35	7	LANDFILL NO. 2	IRP
HM-20	WL	I	2290719.2	6966113.978	653.1	HARG	SWL	NA	AR	01-APR-83	40	5	WEST OF ASSEMBLY BUILDING BETWEEN BLD	IRP
HM-21	WL	I	2290252.27	6966117.842	632.9	HARG	SWL	NA	AR	01-APR-83	15	7.75	LANDFILL NO. 3	IRP
HM-22	WL	I	2288490.68	6963856.67	682.9	HARG	SWL	NA	AR	23-MAY-83	55	8	WEST OF FORMER FUEL STORAGE IN RADAR R	IRP
HM-23	WL	I	2289045.30	6963174.503	671.6	HARG	SWL	NA	AR	24-MAY-83	50	8	SOUTHWEST OF FORMER FUEL STORAGE IN R	IRP
HM-24	WL	I	2290579.46	6963365.683	658.1	HARG	SWL	NA	AR	24-MAY-83	43	8	WEST OF DIE YARD CHEMICAL PITS IN RADAR	IRP
HM-25	WL	I	2290869.86	6963375.539	653.6	HARG	SWL	NA	AR	25-MAY-83	42	8	FDTA NO. 5	IRP
HM-26	WL	I	2290088.36	6965698.807	631	HARG	SWL	NA	AR	25-MAY-83	16	8	LANDFILL NO. 3	IRP
HM-27	WL	I	2290158.46	6965789.23	634.9	HARG	SWL	NA	AR	25-MAY-83	16	8	LANDFILL NO. 3	IRP
HM-28	WL	I	2290716.20	6963593.428	656.8	HARG	SWL	NA	AR	26-MAY-83	41.5	8	DIE YARD CHEMICAL PITS PARKING LOT SOUT	IRP
HM-29	WL	I	2291005.49	6966076.652	657	HARG	SWL	NA	AR	26-MAY-83	44	8	WEST OF ASSEMBLY BUILDING	IRP
HM-30	WL	I	2290277.77	6964074	668.4	HARG	SWL	NA	HS	26-MAY-83	54	8	CHROME PIT NO. 3	IRP
HM-31	WL	I	2291798.28	6963174.908	646.3	HARG	SWL	NA	HS	26-MAY-83	41	8	SOUTH END OF ASSEMBLY BUILDING.	IRP
HM-32	WL	I	2290332.51	6963639.316	665.5	HARG	SWL	NA	AR	13-APR-84	46	8	SOUTHWEST OF CHROME PIT NO. 3	IRP
HM-33	WL	I	2289115.21	6964735.136	652.2	HARG	SWL	NA	AR	11-APR-84	28	4.75	FDTA NO. 3	IRP
HM-34	WL	I	2289869.81	6965300.834	636.8	HARG	SWL	NA	AR	11-APR-84	20	4.75	SOUTH OF LANDFILL NO. 3	IRP
HM-35	WL	I	2290026.85	6965400.785	637.8	HARG	SWL	NA	AR	11-APR-84	20	4.75	SOUTH END OF LANDFILL NO. 3	IRP
HM-36	WL	I	2290079.50	6965545.314	634.3	HARG	SWL	NA	AR	11-APR-84	16	4.75	SOUTH END OF LANDFILL NO. 3	IRP
HM-37	WL	I	2290134.11	6965949.117	632.3	HARG	SWL	NA	AR	11-APR-84	12	4.75	LANDFILL NO. 3	IRP
HM-38	WL	I	2290172.79	6966139.576	628.7	HARG	SWL	NA	AR	11-APR-84	25	4.75	LANDFILL NO. 3	IRP
HM-39	WL	I	2290264.63	6966404.005	631.2	HARG	SWL	NA	AR	11-APR-84	14	4.75	LANDFILL NO. 3	IRP
HM-3A	WL	I					NA	NA	NA	01-JAN-10				IRP
HM-3B	WL		2290716.02	6963440.867	654.5									EXP
HM-40	WL	I	2289901.67	6964189.405	668.3	HARG	SWL	NA	AR	12-APR-84	53	4.75	SOUTHEAST OF LANDFILL NO. 2	IRP
HM-41	WL	I	2290282.37	6964730.72	665.2	JEG	SWL	NA	AR	12-APR-84	46	4.75	EAST OF LANDFILL NO. 2	IRP
HM-42	WL	I	2289471.39	6964497.255	663.7	HARG	SWL	NA	AR	12-APR-84	48	4.75	LANDFILL NO. 2	IRP
HM-43	WL	I	2289052.83	6964252.215	670.3	HARG	SWL	NA	AR	12-APR-84	22	4.75	WEST OF LANDFILL NO. 2	IRP
HM-44	WL	I	2289189.31	6963960.678	673.6	HARG	SWL	NA	AR	12-APR-84	40	4.75	WEST OF FORMER FUEL STORAGE IN RADAR R	IRP
HM-45			2290621.90	6964587.855	660.9									EXP
HM-46	WL	I	2290114.08	6964955.82	657.2	HARG	SWL	NA	AR	14-APR-84	44	4.75	NORTHEAST OF LANDFILL NO. 2	IRP

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
HM-47	WL	I	2291295.73	6963474.52	652.3	HARG	SWL	NA	AR	14-APR-84	36	8	SOUTH OF ASSEMBLY BLDG NEAR WASTEWAT	IRP
HM-48	WL	I	2291052.51	6964160.382	654.2	HARG	SWL	NA	AM	14-APR-84	33	8	SOUTHWEST SIDE OF ASSEMBLY BUILDING.	IRP
HM-49	WL	I	2290452.64	6966745.045	632.5	HARG	SWL	NA	AR	15-APR-84	10.5	4.75	WEST OF FDTA NO. 2 IN WEST PARKING LOT	IRP
HM-4A	WL		2290716.14	6963313.861	653.8									EXP
HM-4B	WL		2290716.15	6963307.861	653.8									EXP
HM-5	WL	I	2288800.61	6964464.505	664.4	HARG	SWL	NA	AR	02-DEC-82	33	7	LANDFILL NO. 4	IRP
HM-50	WL	I	2290392.33	6966422.142	636.8	HARG	SWL	NA	AR	15-APR-84	14.5	4.75	LANDFILL NO. 1	IRP
HM-51	WL	I	2290622.62	6966727.912	639.4	HARG	SWL	NA	AR	15-APR-84	20	8	FDTA NO. 2	IRP
HM-52	WL	I	2291069.18	6964640.768	654.5	HARG	SWL	NA	AR	15-APR-84	26	8	WEST OF ASSEMBLY BUILDING	IRP
HM-53	WL	I	2291063.42	6965681.441	654.6	HARG	SWL	NA	AR	16-APR-84	37	8	WEST OF ASSEMBLY BUILDING	IRP
HM-54	WL	I	2291028.40	6966623.401	650.2	HARG	SWL	NA	AR	16-APR-84	27	8	WEST OF ASSEMBLY BUILDING	IRP
HM-55	WL	I	2291062.45	6965131.211	654.4	HARG	SWL	NA	AR	16-APR-84	33	4.75	WEST OF ASSEMBLY BUILDING	IRP
HM-56	WL	I	2291766.35	6965515.596	654.9	HARG	SWL	NA	AR	16-APR-84	40	4.75	ALONG EAST WALL OF ASSEMBLY BUILDING	IRP
HM-57	WL	I	2291766.59	6964760.456	655.2	HARG	SWL	NA	AR	17-APR-84	39	4.75	ALONG EAST WALL OF ASSEMBLY BUILDING	IRP
HM-58	WL	I	2291323.91	6967249.4	653.6	HARG	SWL	NA	AR	17-APR-84	31	4.75	WEST OF ASSEMBLY BUILDING	IRP
HM-59	WL	I	2291763.74	6966872.017	655.3	HARG	SWL	NA	AR	17-APR-84	38	4.75	ALONG EAST WALL OF ASSEMBLY BUILDING	IRP
HM-6	WL	I	2290471.5	6966133.66	641.1	RAD	SWL	NA	HS	08-DEC-82				IRP
HM-60	WL	I	2290959.17	6963746.17	653.8	HARG	SWL	NA	AR	17-APR-84	36	4.75	WEST OF ASSEMBLY BUILDING	IRP
HM-61	WL	I	2290828.20	6967096.431	653.3	HARG	SWL	NA	AR	17-APR-84	35	4.75	WEST OF ASSEMBLY BUILDING AND BLDG 15	IRP
HM-62	WL	I	2290675.16	6965603.32	656.9	HARG	SWL	NA	AR	18-APR-84	39	4.75	LANDFILL NO. 1	IRP
HM-63	WL	I	2290653.37	6965123.215	659.4	HARG	SWL	NA	AR	18-APR-84	40	4.75	NORTH OF MILLION GALLON TANK	IRP
HM-64	WL	I	2291408.65	6966468.703	654.8	HARG	SWL	NA	AR	18-APR-84	38	4.75	WEST OF ASSEMBLY BUILDING	IRP
HM-65	WL	I	2290595.56	6966896.194	634.2	HARG	SWL	NA	AR	04-JAN-85	18	7.5	NORTH OF FDTA NO. 2	IRP
HM-66	WL	I	2290567.71	6966517.248	644	HARG	SWL	NA	AR	05-JAN-85	21.5	7.5	SOUTH OF FDTA NO. 2	IRP
HM-68	WL	I	2292753.57	6964241.915	644.7	HARG	SWL	NA	AR	06-JAN-85	37	7.5	EAST PARKING LOT BTWN FENCE AND SIDEW	IRP
HM-69	WL	I	2292295.46	6963484.08	645.9	HARG	SWL	NA	AR	07-JAN-85	38	7.5	EAST PARKING LOT EAST OF BLDG 188	IRP
HM-7	WL	I	2290429.38	6966221.324	639.2	HARG	SWL	NA	B	04-DEC-82	15	7	LANDFILL NO. 1	IRP
HM-70	WL	I	2291966.99	6963911.086	653.1	HARG	SWL	NA	AR	08-JAN-85	47	7.5	EAST PARKING LOT	IRP
HM-71	WL	I	2292751.66	6966532.095	646.9	HARG	SWL	NA	AR	08-JAN-85	56	7.5	EAST PARKING LOT BTWN FENCE AND SIDEW	IRP
HM-72	WL	I	2292357.54	6967709.858	651.5	HARG	SWL	NA	AR	09-JAN-85	40	7.5	OUTSIDE N-MOST EAST PARKING LOT	IRP
HM-73	WL	I	2291757.30	6968138.226	654.3	HARG	SWL	NA	AR	09-JAN-85	45	7.5	NORTH OF ASSEMBLY BUILDING IN SE CORNER	IRP
HM-74	WL	I	2291305.08	6968139.89	652.8	HARG	SWL	NA	AR	09-JAN-85	40	7.5	NE OF ASSEMBLY BUILDING	IRP
HM-75	WL	I	2291064.73	6967526.297	649.9	HARG	SWL	NA	AR	09-JAN-85	30	7.5	W OF ASSEMBLY BUILDING	IRP
HM-76	WL	I	2290765.86	6966799.49	652.7	HARG	SWL	NA	AR	10-JAN-85	34	7.5	W OF ASSEMBLY BUILDING AND BLDG 15	IRP
HM-77	WL	I	2290999.3	6963579.403	653.4	HARG	SWL	NA	AR	10-JAN-85	35	7.5	CHROME PIT NO. 2	IRP
HM-78			2291010.92	6968815.307	643.9									EXP
HM-79	WL	I	2292163.51	6966739.246	643.9	HARG	SWL	NA	AR	15-JAN-85	42	7.5	N-MOST EAST PARKING LOT	IRP
HM-8	WL	I	2289658.98	6963649.723	670.1	HARG	SWL	NA	B	05-DEC-82	50	7	FORMER FUEL STORAGE AREA IN RADAR RAN	IRP
HM-80	WL	I	2290820.57	6967917.634	647.6	HARG	SWL	NA	AR	15-JAN-85	30	7.5	FSA NO. 2	IRP
HM-81	WL	I	2291216.94	6969436.204	642.2	HARG	SWL	NA	AR	16-JAN-85	50	7.5	NORTH OF FSA NO. 3 AND JET ENGINE TEST S	IRP
HM-82	WL	I	2292752.85	6965140.368	646.8	HARG	SWL	NA	AR	16-JAN-85	50	7.5	EAST PARKING LOT BTWN FENCE AND SIDEW	IRP
HM-83			2292266.54	6969310.401										EXP
HM-84	WL	I	2292036.43	6969500.75	632	HARG	SWL	NA	AR	01-JAN-99	13	7.5	NE OF ASSEMBLY BUILDING	IRP

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
HM-85			2291930.93	6969956.091										EXP
HM-86	WL	I	2292733.26	6964922.87	646.4	HARG	SWL	NA	HS	01-JAN-99	86	18	EAST PARKING LOT ALONG EAST FENCELINE	IRP
HM-87	WL	I	2292434.57	6964269.069	647.5	HARG	SWL	NA	8	19-SEP-87	42	7.88	EAST PARKING LOT	IRP
HM-88	WL	I	2292214.22	6964540.486	651	HARG	SWL	NA	8	22-SEP-87	47	7.88	EAST PARKING LOT	IRP
HM-89	WL	I	2292377.76	6964531.583	650	HARG	SWL	NA	8	21-SEP-87	52	7.88	EAST PARKING LOT	IRP
HM-9	WL	I	2288615.96	6964612.835	636	HARG	SWL	NA	8	05-DEC-82	5.5	7	LANDFILL NO. 4	IRP
HM-90	WL	I	2292752.12	6965701.713	647.6	HARG	SWL	NA	8	26-SEP-87	59.5	7.88	EAST PARKING LOT BTWN FENCE AND SIDEW	IRP
HM-91	WL	I	2292880.58	6966235.996	646.7	HARG	SWL	NA	8	02-OCT-87	62	7.88	BTWN AFP4 HANGAR STA 30 AND FENCELINE	IRP
HM-92	WL	I	2292544.66	6965707.298	650.2	HARG	SWL	NA	8	04-JAN-87	61.75	7.88	EAST PARKING LOT	IRP
HM-93	WL	I	2292488.62	6965136.292	649.9	HARG	SWL	NA	8	05-OCT-87	37	7.88	EAST PARKING LOT	IRP
HM-94	WL	I	2292752.7	6965392.401	647	HARG	SWL	NA	8	10-OCT-87	121	7.88	EAST PARKING LOT BTWN FENCE AND SIDEW	IRP
HM-95	WL	I	2293450.59	6965504.183	641.2	HARG	SWL	NA	8	23-OCT-87	45	6.25	WEST FLIGHTLINE BTWN RUNWAY AND HANG	IRP
HM-96	WL	I	2293463.33	6966568.774	642.5	HARG	SWL	NA	8	24-JAN-87	54	6.25	WEST FLIGHTLINE BTWN RUNWAY AND HANG	IRP
HM-97	WL	I	2293452.88	6966945.945	642.1	HARG	SWE	NA	8	26-OCT-87	180	6.25	WEST FLIGHTLINE	IRP
HM-98	WL	I	2293501.93	6967480.832	640.52	HARG	RVLB	NA	HS	23-MAR-88	31.5	6.75	WEST FLIGHT LINE AREA NORTHEAST OF HAN	IRP
HM-99	WL	I	2293452.05	6965977.623	642.01	HARG	RVLB	NA	HS	24-MAR-88	44	10.3	WEST OF RUNWAY 130 NORTH	IRP
LABQC		I				RAD				31-MAR-86				IRP
LF04-01	WL	I	2295732.54	6961004.213	629.24	RAD	EDC	NA	HS	23-MAR-90	40.1	2	BOREHOLE DIAMETER UNKNOWN.	IRP
LF04-02	WL	I	2296679.32	6961090.064	612.07	RAD	EDC	NA	HS	28-MAR-90	40.1	2	BOREHOLE DIA. UNKNOWN.	IRP
LF04-04	WL	I	2297539.23	6960905.772	609.4	RAD	EDC	NA	HS	20-MAR-90	25.4	2	BOREHOLE DIA. UNKNOWN.	IRP
LF04-10	WL	I	2297545.06	6960358.298	626.9	RAD	EDC	NA	8	02-APR-90	49.1	8	CARSWELL GOLF COURSE	IRP
LF04-4A	WL	I	2296231.82	6960232.225	624.6	RAD	EDC	NA	8	01-MAR-90	24	8	CARSWELL GOLF COURSE	IRP
LF04-4B	WL	I	2296679.23	6960274.318	618.4	RAD	EDC	NA	8	01-MAR-90	24	8	CARSWELL GOLF COURSE SOUTH OF ROAD	IRP
LF04-4C	WL	I	2297020.06	6960585.911	610.9	RAD	EDC	NA	8	01-MAR-90	29.5	8	CARSWELL GOLF COURSE	IRP
LF04-4G	WL	I	2297050.18	6961202.302	619.1	RAD	EDC	NA	8	01-MAR-90	36	8	CARSWELL GOLF COURSE	IRP
LF05-01	WL	I	2295002.28	6962753.346	619.3	RAD	EDC	NA	HS	22-MAR-90	27.48	2	BETWEEN RUNWAY 130 NORTH AND TAXIWA	IRP
LF05-02	WL	I	2295644.85	6962646.499	620	RAD	EDC	NA	8	22-MAR-90	27.2	8	CARSWELL	IRP
LF05-14	WL	I	2297115.08	6961890.318	603.2	RAD	EDC	NA	8	19-MAR-90	13.3	8	CARSWELL GOLF COURSE	IRP
LF05-18	WL	I	2297488.79	6961579.259	612.1	RAD	EDC	NA	8	21-MAR-90	23.95	8	CARSWELL GOLF COURSE	IRP
LF05-19	WL	I	2297878.73	6961225.193	606.08	RAD	EOC	NA	HS	21-MAR-90	20.8	2	BOREHOLE DIAMETER UNKNOWN.	IRP
LF05-5A	WL	I	2295964.69	6961414.606	619.4	AERO	UNK	NA	HS	01-JAN-99	30.31	2	DONT KNOW ESTAB. CO.	IRP
LF05-5B	WL	I	2296510.74	6961910.014	597.4	RAD	EDC	NA	8	01-MAR-90	9	8	CARSWELL GOLF COURSE	IRP
LF05-5D	WL	I	2295753.13	6961740.95	608.5	RAD	EDC	NA	8	01-MAR-90	20.5	8	CARSWELL	IRP
LF05-5E	WL	O	2295931.7	6961148.757		JEG	JEG	NA	UN	22-MAY-93			CARSWELL AIR FORCE BASE	IRP
LF05-S5	RV	I	2297639.39	6961795.436		JEG	NA	NA	NA	29-JUL-92			EAST FLIGHT LINE AREA ON CARSWELL AFB.	IRP
LF05-S6	RV	I	2297877.19	6961856.263	578.89	RAD	NA	NA	NA	10-JUL-90			SURFACE WATER LOCATION ON FARMERS BR	IRP
LF05-S7	RV	I	2297763.74	6961251.3	589.7	RAD	NA	NA	NA	10-JUL-90			UNNAMED TRIBUTARY TO FARMERS BRANCH	IRP
LF05-SS1	RV	I				JEG	NA	NA	NA	01-JAN-99			SURFACE WATER LOCATION	IRP
LOC_1	SS	I	2292244.44	6963201.099		CNGT	NA	NA	NA	27-JUN-90			N/A	BCH
LOC_10	SS	I	2291765.83	6964693.875		CNGT	NA	NA	NA	16-JUL-90			N/A	BCH
LOC_11	SS	I	2291765.67	6964865.673		CNGT	NA	NA	NA	17-SEP-90			N/A	BCH
LOC_12	SS	I	2291774.28	6965078.557		CNGT	NA	NA	NA	30-JUN-90			N/A	BCH
LOC_13	SS	I	2291774.11	6965265.665		CNGT	NA	NA	NA	30-JUN-90			N/A	BCH

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
LOC 14	SS	I	2291772.68	6965467.683		CNGT	NA	NA	NA	30-JUN-90			N/A	BCH
LOC 15	SS	I	2291772.49	6965665.892		CNGT	NA	NA	NA	30-JUN-90			N/A	BCH
LOC 16	SS	I	2291994.85	6965716.103		CNGT	NA	NA	NA	01-JUL-90			N/A	BCH
LOC 17	SS	I	2291942.53	6966405.623		CNGT	NA	NA	NA	01-JUL-90			N/A	BCH
LOC 18	SS	I	2291789.53	6966402.796		CNGT	NA	NA	NA	01-JUL-90			N/A	BCH
LOC 19	SS	I	2291769.32	6966616.995		CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC 2	SS	I	2292244.25	6963398.308		CNGT	NA	NA	NA	28-JUN-90			N/A	BCH
LOC 20	SS	I	2291768.56	6966892.904		CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC 21	SS	I	2291763.96	6967015.897		CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC 22	SS	I	2291788.11	6967282.922		CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC 23	SS	I	2291772.81	6967392.012		CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC 24	SS	I	2291771.97	6967615.107		CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC 25	SS	I	2291771.32	6967787.61		CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC 26	SS	I	2291739.23	6968054.739		CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC 28	SS	I	2291449.18	6968055.118		CNGT	NA	NA	NA	29-OCT-90			N/A	BCH
LOC 29	SS	I	2291415.18	6967888.114		CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC 3	SS	I	2292246.29	6963606.809		CNGT	NA	NA	NA	28-JUN-90			N/A	BCH
LOC 30	SS	I	2291416.31	6967699.775		CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC 31	SS	I	2291419.44	6967515.424		CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC 32	SS	I	2291423.85	6967343.077		CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC 33	SS	I	2291419.06	6967115.078		CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC 34	SS	I	2291419.22	6966943.07		CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC 35	SS	I	2291418.41	6966747.671		CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC 36	SS	I	2291417.99	6966520.065		CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC 37	SS	I	2291259.18	6966455.019		CNGT	NA	NA	NA	01-JUL-90			N/A	BCH
LOC 38	SS	I	2291066.89	6966442.837		CNGT	NA	NA	NA	01-JUL-90			N/A	BCH
LOC 39	SS	I	2291068.95	6966234.835		CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC 4	SS	I	2292246.1	6963813.409		CNGT	NA	NA	NA	28-JUN-90			N/A	BCH
LOC 40	SS	I	2291067.31	6966062.66		CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC 41	SS	I	2291067.69	6965790.228		CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC 43	SS	I	2291068.20	6965414.222		CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC 44	SS	I	2291023.01	6965247.182		CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC 45	SS	I	2291021.23	6965015.172		CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC 46	SS	I	2291080.41	6964816.224		CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC 47	SS	I	2291065.58	6964640.213		CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC 48	SS	I	2291075.78	6964416.218		CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC 49	SS	I	2291052.98	6964210.189		CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC 5	SS	I	2292037.59	6963886.717		CNGT	NA	NA	NA	03-JUN-90			N/A	BCH
LOC 50	SS	I	2291055.09	6964090.193		CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC 51	SS	I	2291018.65	6963810.16		CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC 52	SS	I	2291046.87	6963579.176		CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC 53	SS	I	2291260.88	6963559.383		CNGT	NA	NA	NA	17-SEP-90			N/A	BCH
LOC 54	SS	I	2291426.89	6963558.533		CNGT	NA	NA	NA	15-SEP-90			N/A	BCH

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
LOC 55	SS	I	2291454.1	6963340.56		CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC 8	SS	I	2291780.26	6964240.877		CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC 9	SS	I	2291765.06	6964450.914		CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC B-3	SS	I				CNGT	NA	NA	NA	14-SEP-90			N/A	BCH
LOC B-5	SS	I				CNGT	NA	NA	NA	14-SEP-90			N/A	BCH
LOC E7	SS	I				CNGT	NA	NA	NA	14-SEP-90			N/A	BCH
LW-01	LK	O	2288243.12	6969288.039	592.7	CNGT	NA	NA	NA	18-OCT-91			N/A	BCH
LW-02	LK	O	2290314.26	6967539.962	592.7	CNGT	NA	NA	NA	18-OCT-91			N/A	BCH
LW-03	LK	O	2290236.52	6967586.324	592.7	CNGT	NA	NA	NA	20-OCT-91			N/A	BCH
LW-04			2290145.65	6967656.263	592.7									EXP
LW-05	LK	O	2290285.89	6968094.423	592.7	CNGT	NA	NA	NA	19-OCT-91			N/A	BCH
LW-06			2290234.29	6968093.931	592.7									EXP
LW-07			2290175.92	6968205.382	592.7									EXP
LW-08	LK	O	2290645.02	6969511.722	592.7	CNGT	NA	NA	NA	19-OCT-91			N/A	BCH
LW-09			2290678.75	6969581.947	592.7									EXP
LW-10			2290727.68	6969862.329	592.7									EXP
LW-11	LK	O	2290921.72	6970847.632	592.7	CNGT	NA	NA	NA	19-OCT-91			N/A	BCH
LW-12	LK	O	2291795.05	6970890.65	592.7	CNGT	NA	NA	NA	17-OCT-91			N/A	BCH
LW-13			2291842.75	6971006.61	592.7									EXP
LW-14			2291864.45	6971132.724	592.7									EXP
LW-15	LK	O	2292199.51	6971527.837	592.7	CNGT	NA	NA	NA	21-OCT-91			N/A	BCH
LW-16	LK	O	2292526.93	6971432.949	592.7	CNGT	NA	NA	NA	21-OCT-91			N/A	BCH
LW-17	LK	O	2292854.58	6971313.562	592.7	CNGT	NA	NA	NA	21-OCT-91			N/A	BCH
LW-18	LK	O	2292660.25	6970968.892	592.7	CNGT	NA	NA	NA	19-OCT-91			N/A	BCH
LW-19			2292719.75	6971032.362	592.7									EXP
LW-20			2292799.38	6971092.624	592.7									EXP
LW-21	LK	O	2293363.91	6970013.839	592.7	CNGT	NA	NA	NA	19-OCT-91			N/A	BCH
LW-22			2293371.34	6970080.684	592.7									EXP
LW-23			2293417.83	6970313.669	592.7									EXP
LW-24	LK	O	2287380.94	6968030.668		CNGT	NA	NA	NA	23-OCT-91			N/A	BCH
LW-25			2290080.31	6966104.853	592.7									EXP
LW-26			2290462.18	6967360.76	592.7									EXP
MW-1	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
MW-2	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
MW-3	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
MW-4	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
MW-5	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
MW-6	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
MW-7	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
NBR3 SEEP	SE	I					NA	NA	NA	01-JAN-10				IRP
OF-1														IRP
OF-3	SE	I				JEG	NA	NA	NA	01-FEB-92			NORTHERN END OF BOMBER ROAD	IRP
OF-4	SW	I				JEG	NA	NA	NA	01-JAN-99			OUTFALL FOR RUNOFF FROM PLANT 4 INTO M	IRP

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
OF-5	SW	I				JEG	NA	NA	NA	01-JAN-99			OUTFALL FOR RUNOFF FROM PLANT 4 INTO M	IRP
OLD HOLE			2291257.8	6969339.437										EXP
OUT#1			2293016.92	6963078.468										EXP
OUT#3			2290896.58	6969265.904										EXP
OUT#4			2290447.08	6967084.181										EXP
OW-1	WL	I				ESCI			B	10/22/93	25	0		PAR
OW-2	WL	I				ESCI			B	10/25/93	25	0		PAR
P-1			2291241.3	6963156.353	650.6									EXP
P-10M	WL	I	2290038.04	6966821.031	628.5	HARG	SWL	NA	AM	10-FEB-85	134	12.8	WEST OF MEANDERING ROAD CREEK.	IRP
P-10U	WL	O	2290041.09	6966790.439	628.6	HARG	SWL	NA	MR	23-JAN-85	58	12.8	WEST OF MEANDERING ROAD CREEK	BCH
P-11M	WL	I	2292569.85	6963186.417	638.84	COE	USAC	NA	AM	26-AUG-85	165.4	10.8	SOUTHEAST CORNER OF ASSEMBLY BLDG.	IRP
P-11U	WL	I	2292580.44	6963181.427	639.52	HARG	USAC	NA	B	13-AUG-85	93	9.88	WEST OF GRANTS LANE	IRP
P-11US	WL	I	2292569.08	6963178.729	638.8	HARG	SWL	NA	AM	16-SEP-87	62	7.88	EAST PARKING LOT	IRP
P-12M	WL	I	2292071.07	6963168.626	643.54	HARG	RVLB	NA	HS	16-SEP-85	155.5	14	SOUTH END OF ASSEMBLY BUILDING.	IRP
P-12U	WL	I	2292060.77	6963168.708	643.64	COE			B	24-SEP-85	97	14		EXP
P-12UN	WL	I	2292050.19	6963168.517	643.31	HARG	UNK	NA	AR	03-JAN-88	97	8.75	SOUTH OF ASSEMBLY BUILDING.	IRP
P-12US	WL	I	2292060.77	6963168.708	642.88	HARG	RVLB	NA	HS	07-FEB-85	97	12.8	SOUTH END OF ASSEMBLY BUILDING.	IRP
P-13M	WL	I	2293088.97	6963098.715	637.83	HARG	SWL	NA	AM	03-JAN-86	167.8	10.8	EAST OF GRANTS LANE	IRP
P-13U	WL	I	2293070.42	6963098.998	638.3	HARG	USAC	NA	B	30-JAN-86	90.5	9.62	SOUTHWEST CORNER OF FLIGHT LINE	IRP
P-13US	WL	I	2293080.45	6963098.004	638	HARG	SWL	NA	AM	19-AUG-87	64	7.88	SOUTH OF AFP4 HANGERS	IRP
P-14U	WL	I	2292732.94	6964915.146	646.4	HARG	SWL	NA	AM	01-JAN-99	86	6.63	EAST PARKING LOT	IRP
P-14US	WL	I	2292726.45	6964918.785	646.97	HARG	RVLB	NA	MR	01-JAN-99	70	10.8	EASTERN EDGE OF EAST PARKING LOT. DATE	IRP
P-15U	WL	I	2292752.46	6965688.495	646.29	HARG	SWL	NA	AM	24-SEP-87	122	7.88	EAST OF ASSEMBLY BUILDING ON SIDEWALK	IRP
P-15US	WL	I	2292752.35	6965695.315	647.07	HARG	RVLB	NA	HS	26-SEP-87	69	12.3	EAST PARKING LOT ON SIDEWALK ALONG GR	IRP
P-16US	WL	I	2292752.53	6965397.34	646.36	HARG	SWL	NA	AM	11-OCT-87	70.5	7.88	EAST OF ASSEMBLY BUILDING ON SIDEWALK	IRP
P-17US	WL	I	2293456.61	6966937.16	641.82	HARG	RVLB	NA	HS	27-OCT-87	71	12.3	WEST FLIGHT LINE AREA	IRP
P-18US	WL	I	2293450.67	6965484.473	640.49	HARG	RVLB	NA	MR	07-MAR-88	75	12.3	WEST FLIGHT LINE AREA	IRP
P-19US	WL	I	2293436.14	6963868.814	637.78	HARG	RVLB	NA	MR	05-MAR-88	70.5	12.3	WEST FLIGHT LINE AREA	IRP
P-2	WL	I	2296774.93	6960912.264		RAD	URM	NA	AR	01-JAN-10			NO CONSTRUCTION INFORMATION	IRP
P-20		I				RAD				28-FEB-86				IRP
P-20M	WL	I	2288692.97	6964117.111	673.15	RAD	URM	NA	MR	05-MAR-86	155	10	SOUTHWEST CORNER OF AFP4 JUST EAST OF	IRP
P-21		I				RAD				28-FEB-86				IRP
P-21M														IRP
P-21U	WL	I	2289725.13	6964655.35	660.97	RAD	URM	NA	MR	10-MAR-86	110	5	SOUTHWEST CORNER OF AFP4 IN OLD RADAR	IRP
P-22M	WL	I	2290201.58	6966011.143	625.88	HARG	SWL	NA	AM	30-OCT-87	136	7.88	BETWEEN BOMBER ROAD AND MEANDERING C	IRP
P-22U	WL	I	2290202.91	6966022.516	631.7	RAD	URM	NA	AM	21-MAR-86	62.75	10	LANDFILL NO. 3	IRP
P-23U	WL	I	2290915.05	6969348.944	626.85	RAD	URM	NA	MR	18-MAR-86	55.3	5	AT NORTH END OF BOMBER ROAD	IRP
P-24M	WL	I	2290297.92	6966929.562	625.88	HARG	SWL	NA	AM	02-DEC-88	134	7.88	BETWEEN BOMBER ROAD AND MEANDERING R	IRP
P-24U	WL	I	2290296.43	6966921.457	625.82	HARG	SWL	NA	HS	01-DEC-88	61	7.88	WEST OF BOMBER ROAD	IRP
P-25M	WL	I	2290168.6	6965040.114	655.47	HARG	RVLB	NA	HS	05-DEC-88	160	7.88	WEST OF ASSEMBLY BUILDING	IRP
P-25U	WL	I	2290207.55	6965027.005	657.19	HARG	SWL	NA	MR	05-DEC-88	115	7.88	EAST OF BOMBER ROAD	IRP
P-26M	WL	I	2291328.24	6963196.014	652.28	HARG	RVLB	NA	HS	06-JAN-89	171.5	7.88	SOUTHWEST CORNER OF ASSEMBLY BUILDING	IRP
P-26U	WL	I	2291327.74	6963186.388	651	HARG	SWL	NA	AM	03-JAN-89	93	7.88	SOUTH OF ASSEMBLY BUILDING	IRP

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
P-27U	WL	I	2290743.9	6965643.236	657.02	CNGT	ACB	NA	MR	18-JUN-91	100	4.25	DRILLING COMPANY UNKNOWN. DIRECTLY W	IRP
P-28U	WL	I	2291481.49	6968610.316	649.7	CNGT	CNGT	NA	AR	14-JUN-91	94	7.63	NORTH PARKING LOT	IRP
P-29M	WL	I	2289852.69	6966215.162		CNGT	ACB	NA	MR	28-JUN-91	140	4.25	ELEVATION UNKNOWN. WEST OF BOMBER RO	IRP
P-3			2291132.79	6969922.85	640.2									EXP
P-30M	WL	I	2291806.04	6963069.396	642.5	CNGT	ACB	NA	HS	01-JUL-91	157	10.8	SOUTH OF CLIFFORD AVENUE SOUTH OF ASSE	IRP
P-31U	WL	I	2290942.34	6963175.618	652.1	CNGT	CNGT	NA	AR	19-JUN-91	100	6	SOUTH OF BUILDING 12 IN FENCED PARKING A	IRP
P-4			2290613.77	6965976.646										EXP
P-5M	WL	I	2291024.68	6966188.031	653.4	HARG	SWL	NA	AM	05-JUN-84	162	12.8	NORTH SIDE OF ASSEMBLY BUILDING.	IRP
P-5U			2291025.1	6966142.632	653.8									EXP
P-5UN	WL	I	2291025.50	6966151.457	653.6	HARG	SWL	NA	AM	15-OCT-87	98	7.88	WEST ASSEMBLY BUILDING/PLANT	IRP
P-5US	WL	I	2291025.1	6966142.632	653	HARG	SWL	NA	AM	14-OCT-87	101	12.3	WEST ASSEMBLY BUILDING/PLANT	IRP
P-6M	WL	I	2291053.95	6965587.866	654.4	HARG	SWL	NA	AM	22-MAY-84	169.5	12.8	NORTH OF ASSEMBLY BUILDING.	IRP
P-6U	WL	I	2291053.89	6965518.701	655.73	HARG	SWL	NA	HS	20-MAY-84	100	12.8	WEST OF ASSEMBLY BUILDING	IRP
P-7M	WL	I	2290467.36	6965543.127	654.9	HARG	SWL	NA	AM	13-FEB-85	165	12.8	WEST PARKING LOT	IRP
P-7U	WL	I	2290462.92	6965495.563	656.93	HARG	SWL	NA	HS	06-JAN-85	111	12.8	WEST OF ASSEMBLY BUILDING	IRP
P-8M	WL	I	2292725.03	6964268.755	644.5	HARG	SWL	NA	AM	29-JAN-85	169	12.8	EAST OF ASSEMBLY BUILDING IN PARKING LO	IRP
P-8U			2292725.15	6964322.679	644.5									EXP
P-8UN	WL	I	2292726.18	6964305.018	645.7	HARG	SWL	NA	HS	05-JUN-87	96	12.8	EAST OF ASSEMBLY BUILDING IN PARKING LO	IRP
P-8US	WL	I	2292725.15	6964322.679	645.94	HARG	RVLB	NA	HS	19-JAN-85	92	12.8	EASTERN EDGE OF EAST PARKING LOT.	IRP
P-9M	WL	I	2291812.89	6965172.049	655.66	HARG	SWL	NA	HS	12-FEB-92	168	12.8	EAST OF CENTER OF ASSEMBLY BUILDING	IRP
P-9U			2291810.05	6965099.398	654.6									EXP
P-9UN	WL	I	2291809.89	6965104.127	654.84	HARG	SWL	NA	AM	08-OCT-87	112	7.88	DIRECTLY EAST OF ASSEMBLY BUILDING IN PA	IRP
P-9US	WL	I	2291810.05	6965099.398	655.98	HARG	SWL	NA	AM	06-OCT-87	118	12.3	DIRECTLY EAST OF ASSEMBLY BUILDING IN PA	IRP
P1L	WL	O	2289687.94	6967334.99	631.84	USGS	USGS	NA	MR	10-JAN-94	203	5.88	USGS Lower Paluxy well at Killdeer and Shorevie	JCB
P1M	WL	O	2289668.02	6967336.21	631.82	USGS	USGS	NA	MR	12-JAN-94	172	5.88	USGS Middle Paluxy well at Killdeer and Shorevie	JCB
P1U	WL	O	2289668.02	6967337.73	632.08	USGS	USGS	NA	AR	11-JAN-94	70	5.88	USGS Upper Paluxy well at Kildeer and Shorevie	JCB
P2L	WL	I	2288965	6968817.36	636.71	USGS	USGS	NA	MR	26-JAN-94	207	5.88	USGS Lower Paluxy well near National Guard Ar	JCB
P2M	WL	I	2288944.88	6968817.36	636.74	USGS	USGS	NA	MR	27-JAN-94	117	5.88	USGS Middle Paluxy well near National Guard Ar	JCB
P2U	WL	I	2288943.6	6968826.04	632.82	USGS	USGS	NA	AR	28-JAN-94	78	5.88	USGS Upper Paluxy well near National Guard Ar	JCB
P3-C	WL					ESCI				12/12/93	0	0		PAR
PZ-1	PZ	I				ESCI			B	10/21/93	5	0		PAR
PZ-2	BH	I				ESCI			B	10/20/93	5	0		PAR
PZ-5	BH	I				ESCI			B	10/20/93	5	0		PAR
PZ-6	PZ	I				ESCI			B	10/21/93	5	0		PAR
PZ-7	PZ	I				ESCI			B	10/25/93	5	0		PAR
RADAR_SEE	SE	I					NA	NA	NA	11-OCT-85			RADAR RANGE SEEP	IRP
RR-1	BH	I	2289840.33	6964819.496					HS	20-SEP-89	21	6.25	Drilled in the vicinity of the proposed AMDL site	EXP
RR-2	BH	I	2289689.57	6964583.047					HS	20-SEP-89	26	6.25	Drilled in the vicinity of the proposed AMDL site	EXP
RR-3	BH	I	2289689.89	6964339.036					HS	20-SEP-89	31	6.25	Drilled in the vicinity of the proposed AMDL site	EXP
RR-4	BH	I	2289949.85	6964450.518					HS	20-SEP-89	31	6.25	Drilled in the vicinity of the proposed AMDL site	EXP
RR-5	BH	I	2289880.77	6964667.873					HS	21-SEP-89	27.5	6.25	Drilled in the vicinity of the proposed AMDL site	EXP
RR-6	BH	I	2290199.45	6964598.903					HS	21-SEP-89	37.5	6.25	Drilled in the vicinity of the proposed AMDL site	EXP
RR-7	BH	I	2290216.13	6964317.046					HS	21-SEP-89	31	6.25	Drilled in the vicinity of the proposed AMDL site	EXP

TABLE A4 LDI Table Illustrating Missing Data 5/24/95

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
RSB-02			2293400.45	6965565.689										EXP
RSB-03			2293402.62	6965667.795										EXP
RSB-04			2293403.51	6965761.589										EXP
RSB-05			2293407.96	6965854.177										EXP
RSB-06			2293393.29	6966059.738										EXP
RSB-08			2293410.66	6966762.553										EXP
RSB-10			2293418.93	6967131.772										EXP
RSB-12			2293518.65	6967129.632										EXP
RSB-13			2293525.68	6966995.381										EXP
RSB-14			2293360.98	6967406.626										EXP
RSB-15			2293525.81	6966759.079										EXP
RSB-17			2293462.59	6967601.584										EXP
RSB-20			2293459.39	6963399.209										EXP
RSB-22			2293459.87	6963699.631										EXP
RSB-26			2293583.81	6963496.59										EXP
RSB-27			2293302.22	6963728.441										EXP
RSB-28			2293310.28	6963826.923										EXP
RSB-30			2293421.19	6964001.619										EXP
RSB-33			2293297.18	6964446.903										EXP
RSB-34			2295050.6	6962653.79										EXP
RSB-35			2295041.07	6961651.664										EXP
RSB-36			2295039.83	6960649.466										EXP
RSB-37			2294586.36	6961162.007										EXP
RSB-38			2294584.19	6962180.863										EXP
RSB-39			2294565.69	6963107.258										EXP
RSB-40			2295554.43	6963064.601										EXP
RSB-41			2295552.24	6962210.843										EXP
RSB-42			2295067.15	6961647.852										EXP
RSB-43			2294646.11	6964320.071										EXP
RSB-44			22945B5.8	6965344.234										EXP
RSB-45			2294598.65	6966320.201										EXP
RSB-46			2294591.54	6967318.919										EXP
RSB-47			2294578.62	6968331.942										EXP
RSB-48			2294568.42	6969257.066										EXP
RSB-49			2295111.37	6969660.389										EXP
RSB-50			2295086.07	6968749.847										EXP
RSB-51			2295032.72	6963644.295										EXP
RSB-52			2295643.81	6969459.387										EXP
RSB-53			2295647.13	6968186.408										EXP
RSB-54			2295026.13	6964698.821										EXP
RSB-55			2295023.66	6965686.803										EXP
RSB-56			2295044.51	6966752.94										EXP
RSB-57			2294578.82	6961742.747										EXP

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
RSB-58			2294577.15	6961941.072										EXP
RSB-59			2295055.49	6962169.26										EXP
RSB-60			2295514.70	6964130.132										EXP
RSB-61			2295519.85	6965170.289										EXP
RSB-62			2295513.78	6966153.566										EXP
RSB-63			2295668.51	6967439.29										EXP
RSB-65			2295553.79	6961999.466										EXP
RSB-66			2295058.12	6961947.183										EXP
RSB-67			2295119.86	6961072.622										EXP
SB-001	BH	I	2288541.26	6964357.299	663.9	CNGT	LES	NA	HS	14-FEB-91	16.4	7.25	Landfill 4	BCH
SB-002	BH	I	2288627.74	6964447.968	664	CNGT	LES	NA	HS	14-FEB-91	24	7.25	Landfill 4	BCH
SB-003	BH	I	2288711.56	6964556.642	663	CNGT	LES	NA	HS	14-FEB-91	24	7.25	Landfill 4	BCH
SB-004	BH	I	2288894.40	6964622.587	662.5	CNGT	LES	NA	HS	14-FEB-91	16	7.25	Landfill 4	BCH
SB-005	BH	I	2289056.06	6964705.131	655.2	CNGT	LES	NA	HS	15-FEB-91	22	7.25	Landfill 4	BCH
SB-006	BH	I	2290765.17	6963293.167	653.7	CNGT	LES	NA	HS	18-FEB-91	18	7.25	Die Yard Chemical Pit	BCH
SB-007	BH	I	2290765.53	6963393.696	654.2	CNGT	LES	NA	HS	21-FEB-91	654.2	7.25	Die Yard Chemical Pit	BCH
SB-008	BH	I	2290765.7	6963493.433	654.7	CNGT	LES	NA	HS	19-FEB-91	24.5	10.3	DYCP	BCH
SB-009	BH	I	2290766.27	6963593.614	655.3	CNGT	LES	NA	HS	18-FEB-91	25	7.25	Die Yard	BCH
SB-010	BH	I	2290735.73	6963353.93	654.1	CNGT	LES	NA	HS	19-FEB-91	20	7.25	Die Yard	BCH
SB-011	BH	I	2290735.90	6963473.659	654.7	CNGT	LES	NA	HS	19-FEB-91	20	7.25	Die Yard	BCH
SB-012	BH	I	2290613.28	6965667.034	655.8	CNGT	LES	NA	HS	16-FEB-91	26	7.25	Landfill 1	BCH
SB-013	BH	I	2290613.73	6965966.525	648.3	CNGT	LES	NA	HS	16-FEB-91	20	7.25	Landfill 1	BCH
SB-014	BH	I	2290613.38	6966166.433	646.6	CNGT	LES	NA	HS	17-FEB-91	15	7.25	Landfill 1	BCH
SB-015	BH	I	2290613.16	6966366.682	647.8	CNGT	LES	NA	HS	02-MAR-91	12	8.25	Landfill 1	BCH
SB-016	BH	I	2290524.09	6965562.849	656.1	CNGT	LES	NA	HS	02-MAR-91	28	8.25	Landfill 1	BCH
SB-017	BH	I	2290523.46	6965865.54	647.3	CNGT	LES	NA	HS	17-FEB-91	13	7.25	Landfill 1	BCH
SB-018	BH	I	2290523.93	6966056.495	643.3	CNGT	LES	NA	HS	16-FEB-91	14	7.25	Landfill 1	BCH
SB-019	BH	I	2290523.02	6966262.358	643.1	CNGT	LES	NA	HS	17-FEB-91	12	7.25	Landfill 1	BCH
SB-020	BH	I	2290415.39	6965461.998	655.7	CNGT	LES	NA	HS	16-MAR-91	20	7.25	Landfill 1	BCH
SB-021	BH	I	2290414.28	6965761.654	646.5	CNGT	LES	NA	HS	16-MAR-91	16	7.25	Landfill 1	BCH
SB-022	BH	I	2290414.42	6965961.367	640.8	CNGT	LES	NA	HS	02-MAR-91	8	7.25	Landfill 1	BCH
SB-023	BH	I	2290375.78	6966207.533	636.7	CNGT	LES	NA	HS	16-FEB-91	10	7.25	Landfill 1	BCH
SB-024	BH	I	2290414.01	6966360.845	638.1	CNGT	LES	NA	HS	16-FEB-91	9	7.25	Landfill 1	BCH
SB-025	BH	I	2290042.38	6965600.204	631.5	CNGT	LES	NA	HS	20-FEB-91	7	7.25	Landfill 3	BCH
SB-026	BH	I	2290150.35	6965693.617	631.8	CNGT	LES	NA	HS	20-FEB-91	6	7.25	Landfill 3	BCH
SB-027	BH	I	2290020.34	6965854.208	627.8	CNGT	LES	NA	HS	20-FEB-91	4	7.25	Landfill 3	BCH
SB-028	BH	I	2290192.94	6966289.906	628.5	CNGT	LES	NA	HS	20-FEB-91	2	7.25	Landfill 3	BCH
SB-029	BH	I	2290201.23	6966389.521	628.8	CNGT	LES	NA	HS	21-FEB-91	3.5	7.25	Landfill 3	BCH
SB-030	BH	I	2290308.16	6966481.204	630.6	CNGT	LES	NA	HS	21-FEB-91	4	7.25	Landfill 3	BCH
SB-031	BH	I	2290323.35	6966680.56	631	CNGT	LES	NA	HS	21-FEB-91	4	7.25	Landfill 3	BCH
SB-032	BH	I	2290081.27	6965453.836	636.6	CNGT	LES	NA	HS	21-FEB-91	15.5	7.75	Landfill 3	BCH
SB-033	BH	I	2290177.24	6965997.72	631.3	CNGT	LES	NA	HS	28-FEB-91	8	8.25	Landfill 3	BCH
SB-034	BH	I	2291764.82	6967025.896	655.4	CNGT	LES	NA	HS	26-FEB-91	6.5	7.25	Parts Plant/Assembly	BCH

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
SB-035	BH	I	2291420.64	6967699.876	655.1	CNGT	LES	NA	HS	26-FEB-91	14	7.25	Parts Plant/Assembly	BCH
SB-036	BH	I	2291425.15	6967343.079	654.8	CNGT	LES	NA	HS	27-FEB-91	10	7.25	Parts Plant/Assembly	BCH
SB-037	BH	I	2291418.03	6966739.717	655	CNGT	LES	NA	HS	03-MAR-91	15	B.25	PPA	BCH
SB-038	8H	I	2291264.07	6966454.455	654.6	CNGT	LES	NA	HS	17-MAR-91	26	8.25	Assembly Building/Parts Plant	BCH
SB-039	BH	I	2291065.88	6966235.756	653.7	CNGT	LES	NA	HS	01-APR-91	20	8.25	PPA	BCH
S8-041	BH	I	2291237.21	6969213.224	644	CNGT	LES	NA	HS	20-MAR-91	8	8.25	UST 25 A	BCH
SB-042	8H	I	2291077.51	6965990.433	654.9	CNGT	LES	NA	HS	06-MAR-91	3	7.25	Parts Plant/Assembly	BCH
S8-043	BH	I	2291067.12	6965015.019	654.8	CNGT	LES	NA	HS	04-JUN-91	21	8.25	PPA	BCH
SB-044	8H	I	2291064.50	6965791.438	654.8	CNGT	LES	NA	HS	28-APR-91	26	8.25	Parts Plant/Assembly	BCH
SB-045	BH	O	2291811.04	6963069.444	642.5	CNGT	LES	NA	HS	15-JUN-91	30.5	8.25	Clifford Ave.	BCH
SB-046	BH	I	2291060.2	6964183.316	654.4	CNGT	LES	NA	HS	01-MAR-91	11.5	7.25	Parts Plant/Assembly	BCH
SB-047	BH	I	2291044.98	6964091.216	654.2	CNGT	LES	NA	HS	01-MAR-91	16	7.25	Parts Plant/Assembly	BCH
SB-048	BH	I	2291019.54	6963810.38B	654.1	CNGT	LES	NA	HS	01-MAR-91	16	7.25	Parts Plant/Assembly	BCH
SB-049	BH	I	2291044.06	6963580.409	653.4	CNGT	LES	NA	HS	28-FEB-91	16	7.25	Parts Plant/Assembly	BCH
SB-052	BH	I	2292243.79	6963247.905	643.1	CNGT	LES	NA	HS	17-MAR-91	14.3	8.25	Assembly Building/Parts Plant	BCH
SB-053	BH	I	2292076.79	6963882.45	651.7	CNGT	LES	NA	HS	06-MAR-91	24	7.25	Parts Plant/Assembly	BCH
SB-054	BH	I	2291766.55	6964459.268	655	CNGT	LES	NA	HS	18-MAR-91	5	8.25	Assembly Build/Parts Plant	BCH
SB-055	BH	I	2291766.13	6964694.767	655.2	CNGT	LES	NA	HS	17-MAR-91	5.5	8.25	Assembly Build/Parts Plant	BCH
SB-056	BH	I	2291767.67	6964866.372	655.2	CNGT	LES	NA	HS	06-MAR-91	6.5	7.25	Parts Plant/Assembly	BCH
SB-057	BH	I	2290721.21	6963548.953	655.1	CNGT	LES	NA	HS	27-FEB-91	23	7.25	DYCP	BCH
SB-058	BH	I	2290721.96	6963430.733	654.5	CNGT	LES	NA	HS	27-FEB-91	18	7.25	DYCP	BCH
SB-059	BH	I	2290722.94	6963310.586	653.8	CNGT	LES	NA	HS	28-FEB-91	14	7.25	Dye Yard Chemical Pit	BCH
SB-060	BH	I	2290163.61	6965892.555	631.8	CNGT	LES	NA	HS	01-MAR-91	6	8.25	Landfill 3	BCH
SB-061	BH	I	2290063.79	6965898.685	628.8	CNGT	LES	NA	HS	19-MAR-91	2.3	8.25	Landfill 3	BCH
SB-062	BH	I	2290049.53	6965698.858	630.2	CNGT	LES	NA	HS	19-MAR-91	6	8.25	Landfill 3	BCH
SB-063	BH	I	2290263.67	6966164.223	632.4	CNGT	LES	NA	HS	01-MAR-91	6	8.25	Landfill 3	BCH
SB-064	BH	I	2290905.32	6963338.724	653.2	CNGT	LES	NA	HS	01-MAR-91	14	8.25	FDTA 5	8CH
S8-065	8H	I	2290834.82	6963339.683	653.7	CNGT	LES	NA	HS	05-MAR-91	21.8	7.25	FDTA-5	BCH
SB-066	8H	I	2290834.52	6963409.894	654	CNGT	LES	NA	HS	04-MAR-91	27	7.25	FDTA-5	BCH
SB-067	BH	I	2290903.49	6963410.621	653.5	CNGT	LES	NA	HS	05-MAR-91	20.75	7.25	FDTA-5	BCH
SB-068	BH	I	2290615.77	6966752.989	638.4	CNGT	LES	NA	HS	02-MAR-91	10	7.25	FDTA-2	BCH
SB-069	BH	I	2290647.53	6966727.79	640.2	CNGT	LES	NA	HS	02-MAR-91	12	7.25	FDTA-2	BCH
SB-070	BH	I	2290629.53	6966703.557	640.3	CNGT	LES	NA	HS	02-MAR-91	12	7.25	FDTA-2	BCH
SB-071	BH	I	2290597.73	6966727.465	638.5	CNGT	LES	NA	HS	02-MAR-91	11	7.25	FDTA-2	BCH
SB-072	BH	I	2290413.99	6966461.291	637.4	CNGT	LES	NA	HS	02-MAR-91	8	8.25	Landfill 1	BCH
SB-073	BH	I	2290522.93	6966462.708	642.7	CNGT	LES	NA	HS	02-MAR-91	6	8.25	Landfill 1	BCH
S8-074	BH	I	2289658.36	6963674.649	670.5	CNGT	LES	NA	HS	03-MAR-91	38	7.25	FFSA	BCH
SB-075	BH	I	2289683.98	6963649.881	670.4	CNGT	LES	NA	HS	30-MAR-91	36	7.25	FFSA	BCH
SB-076	BH	I	2289657.94	6963625.872	669.8	CNGT	LES	NA	HS	16-MAR-91	20	8.25	FFSA	BCH
S8-077	BH	I	2289634.74	6963647.192	669.8	CNGT	LES	NA	HS	03-MAR-91	16	7.25	FFSA	BCH
SB-078	BH	I	2290906.89	6963414.393	653.5	CNGT	LES	NA	HS	06-MAR-91	33	7.25	FDTA-5	BCH
SB-079	BH	I	2291010.22	6965275.722		CNGT	LES	NA	HS	27-MAR-91	32.5	7.25	FSA-1	BCH
SB-080	BH	I	2291045.24	6968746.74	645.6	CNGT	LES	NA	HS	12-MAR-91	12	8.25	UST 30	BCH

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
SB-081	BH	I	2291050.79	6968757.323	645.6	CNGT	LES	NA	HS	13-MAR-91	10	8.25	UST 30	BCH
SB-082	BH	I	2291057.89	6968747.73	645.6	CNGT	LES	NA	HS	12-MAR-91	13.3	8.25	UST 30	BCH
SB-083	BH	I	2291050.27	6968748.258	645.6	CNGT	LES	NA	HS	13-MAR-91	10	8.25	UST 30	BCH
SB-084	BH	I	2291266.25	6968794.697	646.4	CNGT	LES	NA	HS	12-MAR-91	14	8.25	FSA - 3	BCH
SB-085	BH	I	2291360.81	6969218.221	643.8	CNGT	LES	NA	HS	13-MAR-91	17.9	7.25	JETS	BCH
SB-086	BH	I	2291165.62	6968739.836	646	CNGT	LES	NA	HS	14-MAR-91	16	8.25	FSA 3	BCH
SB-087	BH	I	2290866.15	6968809.978	642.3	CNGT	LES	NA	HS	14-MAR-91	4	8.25	FSA-3	BCH
SB-088	BH	I	2290987.70	6968806.935	643.4	CNGT	LES	NA	HS	14-MAR-91	19	8.25	FSA 3	BCH
SB-089	BH	I	2290930	6968772.504	643.8	CNGT	LES	NA	HS	15-MAR-91	2	7.25	FSA-3	BCH
SB-090	BH	I	2290899.09	6968823.193	642.5	CNGT	LES	NA	HS	14-MAR-91	20	8.25	FSA-3	BCH
SB-091	BH	I	2291225.65	6968867.485	645.1	CNGT	LES	NA	HS	15-MAR-91	17.5	8.25	FSA 3	BCH
S8-092	BH	I	2291110.01	6969001.331	642	CNGT	LES	NA	HS	18-MAR-91	16	8.25	FSA 3	BCH
SB-093	BH	I	2291113.16	6968954.648	642.8	CNGT	LES	NA	HS	18-MAR-91	1.5	8.25	FSA 3	BCH
SB-094	BH	I	2291019.54	6970190.456	633.5	CNGT	LES	NA	HS	19-MAR-91	4.2	8.25	FDTA 6	BCH
SB-095	BH	I	2290992.1	6970183.995	632.8	CNGT	LES	NA	HS	19-MAR-91	4	8.25	FDTA 6	BCH
SB-096	BH	I	2291007.36	6970150.968	632.3	CNGT	LES	NA	HS	19-MAR-91	4.2	8.25	FDTA 6	BCH
SB-097	BH	I	2290976.06	6970214.984	633.4	CNGT	LES	NA	HS	19-MAR-91	2.4	8.25	FDTA 6	BCH
SB-098	BH	I	2290965.01	6970191.507	632.9	CNGT	LES	NA	HS	19-MAR-91	4	8.25	FDTA 6	BCH
SB-099	BH	I	2291244.54	6969223.314	643.7	CNGT	LES	NA	HS	20-MAR-91	8	8.25	UST 25A	BCH
SB-1														IRP
SB-1(86)	BH	I	2290710.62	6967840.953		UNK	RDN			24-JAN-86	22			EXP
SB-10														IRP
SB-10(86)	BH	I	2291267.54	6969428.345		UNK	RDN		UN	22-JUL-86	19.5			EXP
SB-100	BH	I	2291248.09	6969207.347	643.6	CNGT	LES	NA	HS	20-MAR-91	20	8.25	UST 25A	BCH
S8-101	BH	I	2290228.47	6965455.838	648.4	CNGT	LES	NA	HS	17-MAR-91	16	7.25	Landfill 1	BCH
SB-102	BH	I	2291404.83	6968669.97	648.8	CNGT	LES	NA	HS	18-MAR-91	26	7.25	FSA-3	BCH
SB-103	BH	I	2290900.07	6967899.62	648.8	CNGT	LES	NA	HS	20-MAR-91	12.3	7.25	FSA-2	BCH
SB-104	BH	I	2290839.78	6967919.147	648	CNGT	LES	NA	HS	20-MAR-91	14	7.25	FSA-2	BCH
SB-105	BH	I	2290839.87	6967959.51	648	CNGT	LES	NA	HS	20-MAR-91	10	7.25	FSA-2	BCH
SB-106	BH	I	2291237.55	6969200.187	643.7	CNGT	LES	NA	HS	21-MAR-91	18.7	8.25	UST 25A	BCH
SB-107	BH	I	2291090.93	6969242.093	641.7	CNGT	LES	NA	HS	21-MAR-91	4.8	8.25	Jet Engine Test Stand	BCH
SB-108	BH	I	2291107.06	6969164.542	642.4	CNGT	LES	NA	HS	26-MAR-91	12	7.25	Jet Engine Test Stand	BCH
SB-109	BH	I	2291034.32	6965587.679		CNGT	LES	NA	HS	02-APR-91	33.2	7.25	FSA-1	BCH
SB-11														IRP
SB-11(86)	BH	I	2292300.44	6971125.275		UNK	RDN		UN	24-JUL-86	4.75			EXP
SB-110	BH	I	2291261.75	6963560.701		CNGT	LES	NA	HS	26-MAR-91	28.9	7.25	WCB	BCH
SB-111	BH	I	2290966.37	6965448.294		CNGT	LES	NA	HS	30-MAR-91	32	10.3	FSA-1	BCH
SB-112	BH	I	2291039.7	6965407.49		CNGT	LES	NA	HS	28-MAR-91	29.3	10.3	FSA-1	BCH
SB-113	BH	I	2291486.32	6968610.622		CNGT	LES	NA	HS	03-APR-91	30	7.25	FSA-3	BCH
SB-114			2291039.31	6965397.076										EXP
S8-115	BH	I	2291372.06	6968636.396	648.8	CNGT	LES	NA	HS	17-MAR-91	25	7.25	FSA-3	BCH
SB-116	BH	I	2291044.01	6965345.738	653.87	CNGT	LES	NA	HS	31-MAR-91	23.5	8.25	FSA-1	BCH
SB-117	BH	I	2291440.4	6968711.811	648.7	CNGT	LES	NA	HS	18-MAY-91	26	7.25	FSA-3	BCH

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
SB-118	BH	I	2290959.90	6965249.581	654	CNGT	LES	NA	HS	01-APR-91	22	8.25	FSA-1	BCH
SB-119	BH	I	2290942.34	6963175.618	652.1	CNGT	LES	NA	HS	20-MAY-91	100	10.7	South of Building 12	BCH
SB-12														IRP
SB-120	BH	I	2290879.68	6965201.935	656.1	CNGT	LES	NA	HS	04-APR-91	24	8.25	Underground Tanks (Removed)	BCH
SB-121	BH	I	2290882.79	6965228.606	655.6	CNGT	LES	NA	HS	04-APR-91	14	8.25	UST-19	BCH
SB-122	BH	I	2290902.04	6965235.469	654.8	CNGT	LES	NA	HS	10-APR-91	24	7.25	UST-19	BCH
SB-123	BH	I	2290878.35	6965243.474	655.8	CNGT	LES	NA	HS	10-APR-91	24	7.25	UST-19	BCH
SB-124	BH	I	2290865.65	6965220.322	656.2	CNGT	LES	NA	HS	11-APR-91	18	7.25	UST-19	BCH
SB-125	BH	I	2290744.26	6965638.68		CNGT	LES	NA	HS	10-APR-91	32.8	10.3	FSA-1	BCH
SB-126	BH	I	2292413.43	6968791.61	647.57	CNGT	LES	NA	HS	11-APR-91	12.4	7.25	South of Building 85 (EPL)	BCH
SB-127	BH	I	2290923.44	6964294.39	656.9	CNGT	LES	NA	HS	14-APR-91	5.5	7.25	UST 24A & 24B	BCH
SB-128	BH	I	2290914.93	6964305.46	657	CNGT	LES	NA	HS	14-APR-91	8	7.25	UST 24A & 24B	BCH
SB-129	BH	I	2290923.83	6964305.395	656.7	CNGT	LES	NA	HS	14-APR-91	16	7.25	UST 24A & 24B	BCH
SB-130	BH	I	2290925.28	6964325.38	656.5	CNGT	LES	NA	HS	14-APR-91	10	7.25	UST 24A & 24B	BCH
SB-131	BH	I	2290914.30	6965180.053		CNGT	LES	NA	HS	11-APR-91	28	7.25	N/A	BCH
SB-132	BH	I	2290189.42	6966198.208		CNGT	LES	NA	HS	14-APR-91	30	10.3	N/A	BCH
SB-133	BH	I	2290838.01	6965276.112		CNGT	LES	NA	HS	15-APR-91	31	7.25	N/A	BCH
SB-134	BH	I	2290569.85	6964131.224		CNGT	LES	NA	HS	16-APR-91	31.5	8.25	N/A	BCH
SB-135	BH	I	2292752.7	6965267.484		CNGT	LES	NA	HS	17-APR-91	58.7	8.25	N/A	BCH
SB-136	BH	I	2292769.53	6965047.252	646.2	CNGT	LES	NA	HS	16-APR-91	22	7.75	East Parking Lot	BCH
SB-137	BH	I	2292769.58	6965042.452		CNGT	LES	NA	HS	17-APR-91	58.8	10.3	EPL	BCH
SB-138	BH	I	2290753.32	6968039.211	640.31	CNGT	LES	NA	HS	25-APR-91	6	7.25	FSA-2	BCH
SB-139	BH	I	2292516.62	6963206.791	640.03	CNGT	LES	NA	HS	23-APR-91	30.5	7.25	East Parking Lot	BCH
SB-140	BH	I	2292539.36	6969318.899	630.91	CNGT	LES	NA	HS	26-APR-91	12	7.25	Flight Line	BCH
SB-141			2290396.46	6963987.785										EXP
SB-142	BH	I	2292197.69	6965558.905		CNGT	LES	NA	HS	27-APR-91	36.1	10.3	EPL	BCH
SB-143	BH	O	2294390.71	6965167.826		CNGT	LES	NA	HS	29-APR-91	39.4	10.3	FLA	BCH
SB-144	BH	I	2290726.85	6967944.183	640.69	CNGT	LES	NA	HS	29-APR-91	4.5	7.25	FSA-2	BCH
SB-145	BH	I	2292847.88	6963575.156	640.7	CNGT	LES	NA	HS	29-APR-91	14.4	7.25	East Parking Lot	BCH
SB-146	BH	O	2293440.2	6968337.392		CNGT	LES	NA	HS	30-APR-91	23	10.3	FLA	BCH
SB-147	BH	O	2293109.34	6964885.619	644.4	CNGT	LES	NA	HS	01-MAY-91	58.5	8.25	FLA	BCH
SB-148	BH	I	2291077.97	6968944.613	641.92	CNGT	LES	NA	HS	21-MAY-91	17.5	7.25	FSA-3	BCH
SB-149	BH	I	2290980.28	6968779.733	642.51	CNGT	LES	NA	HS	22-MAY-91	13	7.25	FSA-3	BCH
SB-150			2290771.51	6963493.509									DYCP	EXP
SB-151	BH	O	2290992.31	6962997.063		CNGT	LES	NA	HS	30-MAY-91	31.5	8.25	CLFD	BCH
SB-152	BH	I	2291374.89	6964016.204		CNGT	LES	NA	HS	01-JUN-91	37.8	7.25	PPI	BCH
SB-153	BH	I	2291664.89	6963984.224		CNGT	LES	NA	HS	01-JUN-91	37	8.25	PPI	BCH
SB-154	BH	I	2291662.63	6963509.975		CNGT	LES	NA	HS	02-JUN-91	38.5	8.25	PPI	BCH
SB-155	BH	O	2292659.98	6962997.434	636	CNGT	LES	NA	HS	03-JUN-91	15	8.25	CLFD	BCH
SB-2														IRP
SB-2(86)	BH	I	2290717.51	6967958.025		UNK	RDN		UN	24-JAN-86	21			EXP
SB-3														IRP
SB-3(86)	BH	I	2290734.65	6968048.193		UNK	RDN			26-JAN-86	22			EXP

253101

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
SB-4														IRP
SB-4(86)	BH	I	2291060.57	6965536.156		UNK	RDN			26-JAN-86	28			EXP
SB-5														IRP
SB-5(86)	BH	I	2291029.23	6963365.736		UNK	RDN		UN	23-JAN-86	33.5			EXP
SB-6														IRP
SB-6(86)	BH	I	2292254.48	6970805.82		UNK	RDN			21-JUL-86	9			EXP
SB-7														IRP
SB-7(86)	BH	I	2292321.02	6970959.462		UNK	RDN		UN	21-JUL-86	4			EXP
SB-8														IRP
SB-8(86)	BH	I	2292076.42	6971022.136		UNK	RDN		UN	21-JUL-86	5.75			EXP
SB-9														IRP
SB-9(86)	BH	I	2291248.42	6969126.146		UNK	RDN		UN	22-JUL-86	20.5			EXP
SG-1	BH	I				ESCI			B	10/26/93	5	0		PAR
SG-10	BH	I				ESCI			B	10/26/93	5	0		PAR
SG-11	BH	I				ESCI			B	10/26/93	5	0		PAR
SG-12	BH	I				ESCI			B	10/21/93	5	0		PAR
SG-13	BH	I				ESCI			B	10/21/93	5	0		PAR
SG-14	BH	I				ESCI			B	10/25/93	5	0		PAR
SG-15	BH	I				ESCI			B	10/25/93	5	0		PAR
SG-16	BH	I				ESCI			B	10/26/93	5	0		PAR
SG-17	BH	I				ESCI			B	10/22/93	5	0		PAR
SG-18	BH	I				ESCI			B	10/20/93	5	0		PAR
SG-19	BH	I				ESCI			B	10/26/93	5	0		PAR
SG-2	BH	I				ESCI			B	10/26/93	5	0		PAR
SG-20														IRP
SG-21														IRP
SG-22														IRP
SG-23														IRP
SG-24														IRP
SG-25														IRP
SG-26														IRP
SG-27														IRP
SG-28														IRP
SG-29														IRP
SG-3	BH	I				ESCI			B	10/25/93	5	0		PAR
SG-30														IRP
SG-31														IRP
SG-32														IRP
SG-33														IRP
SG-34														IRP
SG-35														IRP
SG-36														IRP
SG-37														IRP

TABLE A4 LDI Table Illustrating Missing Data 5/24/95

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
SG-38														IRP
SG-39														IRP
SG-4	BH	I				ESCI			B	10/20/93	5	0		PAR
SG-40														IRP
SG-41														IRP
SG-42														IRP
SG-43														IRP
SG-44														IRP
SG-45														IRP
SG-46														IRP
SG-47														IRP
SG-48														IRP
SG-49														IRP
SG-5	BH	I				ESCI			B	10/21/93	4	0		PAR
SG-50														IRP
SG-51														IRP
SG-52														IRP
SG-53														IRP
SG-54														IRP
SG-55														IRP
SG-56														IRP
SG-57														IRP
SG-58														IRP
SG-59														IRP
SG-6	BH	I				ESCI			B	10/21/93	4	0		PAR
SG-60														IRP
SG-61														IRP
SG-62														IRP
SG-63														IRP
SG-64														IRP
SG-65														IRP
SG-66														IRP
SG-67														IRP
SG-68														IRP
SG-69														IRP
SG-7	BH	I				ESCI			B	10/21/93	5	0		PAR
SG-70														IRP
SG-71														IRP
SG-72														IRP
SG-73														IRP
SG-74														IRP
SG-75														IRP
SG-76														IRP

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LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
SG-77														IRP
SG-78														IRP
SG-79														IRP
SG-8	BH	I				ESCI			B	10/25/93	5	0		PAR
SG-80														IRP
SG-81														IRP
SG-82														IRP
SG-83														IRP
SG-84														IRP
SG-85														IRP
SG-86														IRP
SG-87														IRP
SG-88														IRP
SG-89														IRP
SG-9	BH	I				ESCI			B	10/26/93	5	0		PAR
SG-90														IRP
SITE5CATC	UN	I					NA	NA	NA	01-JAN-10			SITE 5 CATCHMENT	IRP
SL-1	BH	I	2290663.36	6963498.439	660.5	HARG	SWL		UN	10-AUG-64	41		Drilled to investigate subsurface conditions of fo	EXP
SL-11	BH	I	2292394.9	6966050.051	652	UNK	SWL		UN	27-JAN-67	60		Drilled to investigate subsurface conditions of fo	EXP
SL-12	BH	I	2292366.6	6966056.602	652	UNK	SWL		UN	27-JAN-67	42		Drilled to investigate subsurface conditions of fo	EXP
SL-13	BH	I	2292092.04	6965795.823	652	UNK	SWL		UN	28-JAN-67	43.5		Drilled to investigate subsurface conditions of fo	EXP
SL-14	BH	I	2292435.95	6965797.918	652	UNK	SWL		UN	28-JAN-67	74		Drilled to investigate subsurface conditions of fo	EXP
SL-15	BH	I	2292435.49	6966310.252	652	UNK	SWL		UN	28-JAN-67	46		Drilled to investigate subsurface conditions of fo	EXP
SL-16	BH	I	2292371.03	6965799.039	652	UNK	SWL		UN	28-JAN-67	61		Drilled to investigate subsurface conditions of fo	EXP
SL-19	BH	I	2292435.54	6965902.99	652	UNK	SWL		UN	28-JAN-67	79		Drilled to investigate subsurface conditions of fo	EXP
SL-2	BH	I	2290611.87	6963494.599	661	UNK	SWL		UN	10-AUG-64	41		Drilled to investigate subsurface conditions of fo	EXP
SL-20	BH	I	2292461.51	6965796.131	652	UNK	SWL		UN	03-FEB-67	113		Drilled to investigate subsurface conditions of fo	EXP
SL-21	BH	I	2292451.87	6965750.407	652	UNK	SWL		UN	04-FEB-67	75		Drilled to investigate subsurface conditions of fo	EXP
SL-22	BH	I	2292391.91	6965750.996	652	UNK	SWL		UN	04-FEB-67	61		Drilled to investigate subsurface conditions of fo	EXP
SL-23	BH	I	2292236.34	6965743.524	652	UNK	SWL		UN	04-FEB-67	38.5		Drilled to investigate subsurface conditions of fo	EXP
SL-24	BH	I	2292421.65	6965747.819	652	UNK	SWL		UN	04-FEB-67	67		Drilled to investigate subsurface conditions of fo	EXP
SL-25	BH	I	2292417.91	6965853.519	652	UNK	SWL		UN	05-FEB-67	66		Drilled to investigate subsurface conditions of fo	EXP
SL-27	BH	I	2291484.74	6963213.225	650	UNK	SWL		UN	18-FEB-67	29		Drilled to investigate subsurface conditions of fo	EXP
SL-28	BH	I	2291784.17	6963217.647	650	UNK	SWL		UN	18-FEB-67	12		Drilled to investigate subsurface conditions of fo	EXP
SL-29	BH	I	2291781.43	6963180.538	650	UNK	SWL		UN	28-FEB-67	25		Drilled to investigate subsurface condition of fou	EXP
SL-3	BH	I	2289682.77	6964457.025	665	UNK	SWL		UN	10-AUG-64	50		Drilled to investigate subsurface conditions of fo	EXP
SL-30	BH	I	2291410.88	7003524.596	650	UNK	SWL		UN	18-FEB-67	45		Drilled to investigate subsurface conditions of fo	EXP
SL-31	BH	I	477415.451	6946154.948	650	UNK	SWL		UN	19-FEB-67	34		Drilled to investigate subsurface conditions of fo	EXP
SL-32	BH	I	2292022.57	6963212.736	650	UNK	SWL		UN	19-FEB-67	21		Drilled to investigate subsurface conditions of pr	EXP
SL-33	BH	I	2292019.23	6963536.043	650	UNK	SWL		UN	19-FEB-67	43.5		Drilled to investigate subsurface conditions of fo	EXP
SL-34	BH	I	2288783.68	6967638.753	650	UNK	SWL		UN	19-FEB-67	43.5		Drilled to investigate subsurface conditions of fo	EXP
SL-35	BH	I	2292207.55	6963208.798	650	UNK	SWL		UN	19-FEB-67	24.5		Drilled to investigate subsurface conditions of fo	EXP
SL-36	BH	I	2292208.45	6963823.841	650	UNK	SWL		UN	19-FEB-67	44		Drilled to investigate subsurface conditions of fo	EXP

25104

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
SL-37	BH	I	2292207.81	6963540.529	650	UNK	SWL		UN	20-FEB-67	33		Drilled to investigate subsurface conditions of fo	EXP
SL-38	BH	I	2292860.41	6964972.163	646	UNK	SWL		UN	20-FEB-67	66		Drilled to investigate subsurface conditions of fo	EXP
SL-39	BH	I	2292853.52	6965173.739	646	UNK	SWL		UN	21-FEB-67	25		Drilled to investigate subsurface conditions of fo	EXP
SL-4	BH	I	2292190.72	6966059.427	652	UNK	SWL		UN	25-JAN-67	43.5		Drilled to investigate subsurface conditions of fo	EXP
SL-40	BH	I	2292852.65	6965370.752	646	UNK	SWL		UN	21-FEB-67	66		Drilled to investigate subsurface conditions of fo	EXP
SL-41	BH	I	2292454.37	6965959.932	652	UNK	SWL		UN	16-APR-67	67		Drilled to investigate subsurface conditions of fo	EXP
SL-42	BH	I	2292458.91	6966022.599	652	UNK	SWL		UN	16-APR-67	64		Drilled to investigate subsurface conditions of fo	EXP
SL-43	BH	I	2292462.68	6966084.398	652	UNK	SWL		UN	16-APR-67	67		Drilled to investigate subsurface conditions of fo	EXP
SL-44	BH	I	2292389.85	6965869.933	652	UNK	SWL		UN	16-APR-67	65		Drilled to investigate subsurface conditions of fo	EXP
SL-45	BH	I	2292393.63	6965931.742	652	UNK	SWL		UN	16-APR-67	56		Drilled to investigate subsurface conditions of fo	EXP
SL-46	BH	I	2292393.59	6965988.395	652	UNK	SWL		UN	16-APR-67	41		Drilled to investigate subsurface conditions of fo	EXP
SL-5	BH	I	2292192.30	6965794.307	652	UNK	SWL		UN	25-JAN-67	43		Drilled to investigate subsurface conditions of fo	EXP
SL-6	BH	I	2292175.75	6966300.768	652	UNK	SWL		UN	25-JAN-67	44		Drilled to investigate subsurface conditions of fo	EXP
SL-7	BH	I	2292089.41	6966303.096	652	UNK	SWL		UN	26-JAN-67	44		Drilled to investigate subsurface conditions of fo	EXP
SL-8	BH	I	2292090.8	6966041.254	652	UNK	SWL		UN	26-JAN-67	44		Drilled to investigate subsurface conditions of fo	EXP
SL-9	BH	I	2292437.6	6966064.048	652	UNK	SWL		UN	26-JAN-67	64		Drilled to investigate subsurface conditions of fo	EXP
SS-01	RV	I	2301188.04	6968330.908		CNGT	NA	NA	NA	28-FEB-91			N/A	BCH
SSO	SW	I				JEG	NA	NA	NA	01-FEB-92			STORM SEWER OUTFALL	IRP
ST5	TK	I	2301244.65	6968288.034		HARG	NA	NA	NA	15-SEP-83			N/A	BCH
SW-01	RV	O	2287096.54	6963416.289	656.5	CNGT	NA	NA	NA	28-FEB-91			N/A	BCH
SW-02	RV	I	2288309.32	6964581.133	636	JEG	NA	NA	NA	01-JAN-99			UPSTREAM END OF MEANDERING ROAD CREEK	JCB
SW-03	RV	I	2288862.77	6964873.19	631.5	JEG	NA	NA	NA	01-JAN-99			SURFACE WATER LOCATION IN MEANDERING	JCB
SW-03A	RV	I	2289518.01	6965076.311		JEG	NA	NA	NA	01-JAN-99			SURFACE WATER LOCATION IN MEANDERING	IRP
SW-04	RV	O	2289926.97	6965488.359	612	CNGT	NA	NA	NA	01-MAY-91			N/A	BCH
SW-05	RV	I	2290055.82	6966134.622	604	JEG	NA	NA	NA	22-OCT-91			STREAM WATER SAMPLE ON MEANDERING RO	IRP
SW-06	RV	I	2290112.35	6966500.181	600	CNGT	NA	NA	NA	01-MAY-91			N/A	BCH
SW-07	RV	O	2290257.35	6967026.591	595	CNGT	NA	NA	NA	01-MAY-91			N/A	BCH
SW-08	RV	I	2290108.33	6966524.374		JEG	NA	NA	NA	22-OCT-91			STREAM SAMPLE FROM MEANDERING ROAD C	IRP
SW-09	RV	I	2290056.67	6966075.057		CNGT	NA	NA	NA	02-MAY-91			N/A	BCH
SW-10	RV	I	2290859.05	6969267.476		CNGT	NA	NA	NA	02-JUL-91			N/A	BCH
SW-11	RV	I	2290890.77	6969286.839		CNGT	NA	NA	NA	22-NOV-91			N/A	BCH
TH-1	BH	I	2290740.93	6963548.141	655.8	UNK	SWL		AR	02-DEC-82	4	5	Test holes were drilled to assess subsurface con	EXP
TH-11	BH	I	2290366.88	6966773.43	629.4	UNK	SWL		B	06-DEC-82	3	7	Drilled to assess subsurface conditions & locate	EXP
TH-12	BH	I	2290373.22	6966805.772	628.9	UNK	SWL		B	06-DEC-82	2	7	Drilled to assess subsurface conditions & locate	EXP
TH-13	BH	I	2290372.46	6966833.606	628.1	UNK	SWL		B	06-DEC-82	2	7	Drilled to assess subsurface conditions & locate	EXP
TH-14	BH	I	2290346.81	6966851.823	627.7	UNK	SWL		B	06-DEC-82	1	7	Drilled to assess subsurface conditions & to locat	EXP
TH-15	BH	I	2290342.43	6966813.849	628.5	UNK	SWL		B	06-DEC-82	1	7	Drilled to assess subsurface conditions & to locat	EXP
TH-16	BH	I	2290333.88	6966762.525	629.5	UNK	SWL		B	06-DEC-82	2	7	Drilled to assess subsurface conditions & to locat	EXP
TH-17	BH	I	2290362.12	6966741.993	629.9	UNK	SWL		B	06-DEC-82	3	7	Drilled to assess subsurface conditions and to loc	EXP
TH-18	BH	I	2290360.97	6966690.269	630.9	UNK	SWL		B	06-DEC-82	4	7	Drilled to assess subsurface conditions & to locat	EXP
TH-19	BH	I	2290394.43	6966779.102	629.4	UNK	SWL		B	06-DEC-82	3	7	Drilled to assess subsurface conditions & to locat	EXP
TH-2	BH	I	2290767.10	6963549.68	655.11	UNK	SWL		AR	02-OEC-82	11	5	Drilled to assess subsurface conditions & locate	EXP
TH-20	BH	I	2290496.7	6966310.19	639.6	UNK	SWL		B	07-DEC-82	8	7	Drilled to assess subsurface conditions & to locat	EXP

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LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
TH-21	BH	I	2290546.82	6966236.793	641.16	UNK	SWL		B	07-DEC-82	12	7	Drilled to assess subsurface conditions & to locat	EXP
TH-22	BH	I	2290415.12	6966245.659	636.59	UNK	SWL		B	07-DEC-82	4	7	Drilled to assess subsurface cond ons & to locat	EXP
TH-23	BH	I	2290441.71	6966225.042	637.49	UNK	SWL		B	07-DEC-82	11	7	Drilled to assess subsurface conditions & to locat	EXP
TH-24	BH	I	2290492.96	6965988.536	644.54	UNK	SWL		B	07-DEC-82	17	7	Drilled to assess subsurface conditions & to locat	EXP
TH-25	BH	I	2290504.48	6965916.222	642.93	UNK	SWL		B	07-DEC-82	13	7	Drilled to assess subsurface conditions & to locat	EXP
TH-26	BH	I	2290975.08	6970207.584	631	UNK	SWL		B	07-DEC-82	6	7	Drilled to assess subsurface conditions & to locat	EXP
TH-3	BH	I	2290770.54	6963407.015	654.38	UNK	SWL		AR	02-DEC-82	11	5	Drilled to assess subsurface conditions & locate	EXP
TH-4	BH	I	2290819.65	6963241.573	653.45	UNK	SWL		AR	02-DEC-82	10	5	Drilled to assess subsurface conditions & locate	EXP
TH-5	BH	I	2290818.34	6963404.07	654.28	UNK	SWL		AR	02-DEC-82	15	5	Drilled to assess subsurface conditions & locate	EXP
TH-6	BH	I	2290741.86	6963406.151	655.7	UNK	SWL		AR	02-DEC-82	7	5	Drilled to assess subsurface conditions & locate	EXP
TH-7	BH	I	2290743.46	6963238.747	653.8	UNK	SWL		AR	02-DEC-82	10	5	Drilled to assess subsurface conditions & locate	EXP
TH-8	BH	I	2290749.15	6963295.735	654	UNK	SWL		AR	02-DEC-82	5	5	Drilled to assess subsurface conditions & locate	EXP
TH-9	BH	I	2289777.29	696363B.909	670.3	UNK	SWL		B	05-DEC-82	6	7	Drilled to assess subsurface conditions & locate	EXP
U25-3	SS	I	2292488.55	6967969.57		CNGT	NA	NA	NA	25-OCT-90			N/A	BCH
U25-9	SS	I	2292543.54	6967970.304		CNGT	NA	NA	NA	26-OCT-90			N/A	BCH
U26-2	SS	I				CNGT	NA	NA	NA	26-OCT-90			N/A	BCH
USGS01P	WL	I	2297664.37	6970387.26	604.97	USGS			MR	12/12/93	114	9.87	N.W. of Boy Scout Lodge.	PAR
USGS01T	WL	I	2297660.56	6970383.71	604.97	USGS			HS	11/10/93	20.5	8.62	NW of Boy Scout Lodge	PAR
USGS02T	WL	I	2300333.85	6970326.56	604.57	USGS	UNK		HS	11/18/93	48	8.62	End of visiting officers' quarters (VOQ).	PAR
USGS03T	WL	I	2300609.18	6968690.57	575.23	USGS			HS	11/3/93	8.5	8.62	On Stratofortress Ct, across from Berger Lane.	PAR
USGS04T	WL	I	2299177.89	6968758.85	605.12	USGS			HS	11/10/93	26.5	8.62	NW corner of 2nd and Boyos Lane.	PAR
USGS05P	WL	I	2299736.32	6965287.95	576.75	USGS			MR	1/6/94	90	5.87	Near Shoppette at Carswell AFB, Texas.	PAR
USGS06P	WL	I	2297557.64	6963771.98	605.57	USGS			MR	12/16/93	73.3	5.87	NW of Bldg. 1024, near taxiway at Carswell AFB	PAR
USGS06T	WL	I	2297541.33	6963763.62	606.64	USGS			HS	11/13/93	22.5	8.62	East side of taxiway.	PAR
USGS07P	WL	I	2295249.94	6960150.74	632.48	USGS			HS	12/18/93	140	5.87	East edge of taxiway east of main runway.	PAR
USGS07T	WL	I	2295245.8	696016B.21	632.52	USGS			HS	11/12/93	16.5	8.62	East side of taxiway, near old radar range.	PAR
USGS08PL	WL	O	228B965.88	6968817.36	636.71	USGS			MR	1/10/94	203	5.87	On Shoreview Drive across intersection with Killd	PAR
USGS0BPM	WL	O	228B944.88	6968817.36	636.74	USGS			MR	1/12/94	127	5.87	On Shoreview Drive across intersection with Killd	PAR
USGS0BPU	WL	O	2288943.6	6968826.03	636.82	USGS			AR	1/11/94	70	5.87	On Shoreview Drive across intersection with Killd	PAR
USGS09PL	WL	O	2289687.93	6967334.99	631.64	USGS			MR	1/26/94	207	5.87	East of Texas Army National Guard Armory.	PAR
USGS09PM	WL	O	2289678.02	6967336.21	631.82	USGS			MR	1/27/94	117	5.87	Top of 2	PAR
USGS09PU	WL	O	2289668.02	6967337.73	632.08	USGS			AR	1/28/94	78	5.87	Easty of Texas Army National Guard Armory.	PAR
UZB-1	BH	I				ESCI			HS	11/29/94	16	8		PAR
UZB-2	BH	I				ESCI			HS	11/29/93	34.25	8		PAR
UZB-3	BH	I				ESCI			HS	11/29/93	35.5	8		PAR
UZB-6	BH	I				ESCI			HS	11/29/93	22.5	8		PAR
UZB-7	BH	I				ESCI			HS	12/1/94	34	8		PAR
V12-1	SS	I				CNGT	NA	NA	NA	28-OCT-90			N/A	BCH
VW-1	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
VW-2	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
VW-3	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
VW-4	WL	I				JEG	JEG	NA	UN	22-MAR-93			CHROME PIT NO. 1	IRP
W-128L	WL	I	2290771.51	6963493.509	654.7	CNGT	LES	NA	HS	23-MAY-91	34.5	8.25	DIE YARK CHEMICAL PITS	BCH

LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
W-128U	WL	I	2290765.7	6963493.433	654.7	HARG	CNGT	NA	HS	19-FEB-91	24.5	10.3	DIE YARD CHEMICAL PITS	JCB
W-129	WL	I	2290071.68	6965997.535	629.2	CNGT	LES	NA	HS	28-FEB-91	12.9	8.25	LANDFILL NO. 3	BCH
W-130	WL	I	2290162.05	6966104.572	629.2	CNGT	LES	NA	HS	27-FEB-91	22.5	8.25	LANDFILL NO. 3	BCH
W-131L	WL	I	2290830.1	6963338.088	653.7	CNGT	LES	NA	HS	26-MAR-91	33	8.25	DIE YARD CHEMICAL PITS	BCH
W-131U	WL	I	2290834.82	6963339.683	653.7	CNGT	LES	NA	HS	05-MAR-91	21.8	7.25	DIE YARD CHEMICAL PITS	BCH
W-132	WL	I	2290189.42	6966198.208	628.1	CNGT	LES	NA	HS	26-FEB-91	20.8	7.25	LANDFILL NO. 3	BCH
W-133L	WL	I	2290906.89	6963414.393	653.5	CNGT	LES	NA	HS	06-MAR-91	33	8.25	FDTA NO. 5	BCH
W-133U	WL	I	2290903.49	6963410.621	653.5	CNGT	LES	NA	HS	05-MAR-91	20.75	8.25	FDTA NO. 5	BCH
W-134	WL	I	2291360.81	6969218.221	643.8	CNGT	LES	NA	HS	13-MAR-91	17.75	7.25	FSA NO. 3	BCH
W-135	WL	I	2290900.07	6967899.62	648.8	CNGT	LES	NA	HS	20-MAR-91	12.3	7.25	FSA NO. 2	BCH
W-136	WL	I	2291010.22	6965275.722	654.2	CNGT	LES	NA	HS	27-MAR-91	32.5	8.25	WEST OF ASSEMBLY BLDG AND SE OF BLDG 1	BCH
W-137	WL	I	2291261.75	6963560.701	654.2	CNGT	LES	NA	HS	26-MAR-91	28.7	7.25	SOUTH OF ASSEMBLY BLDG NEAR WASTEWAT	BCH
W-139L	WL	I	2291034.32	6965587.679	654.3	CNGT	LES	NA	HS	02-APR-91	33.2	7.25	FSA NO. 1	BCH
W-139U	WL	I	2291033.37	6965582.739	654.3	CNGT	LES	NA	HS	09-APR-91	29.5	10.3	FSA NO. 1	BCH
W-140	WL	I	2291039.7	6965407.49	654	CNGT	LES	NA	HS	28-MAR-91	29.3	10.3	FSA-1	BCH
W-141L	WL	I	2290966.37	6965448.294	653.8	CNGT	LES	NA	HS	30-MAR-91	32	10.3	FSA NO. 1	BCH
W-141U	WL	I	2290966.53	6965453.166	653.8	CNGT	LES	NA	HS	01-APR-91	29	10.3	FSA NO. 1	BCH
W-143	WL	I	2291486.32	6968610.622	649.6	CNGT	LES	NA	HS	03-APR-91	30	7.25	NORTH OF ASSEMBLY BUILDING IN NORTH PA	BCH
W-144	WL	I	2290744.26	6965638.68	657.2	CNGT	LES	NA	HS	10-APR-91	32.8	10.3	WEST OF BUILDING 14	BCH
W-145	WL	I	2290894.35	6964449.092	655.2	CNGT	LES	NA	HS	11-APR-91	18.5	7.75	WEST OF ASSEMBLY BUILDING	BCH
W-146	WL	I	2290914.30	6965180.053	655.5	CNGT	LES	NA	HS	11-APR-91	28	7.25	WEST OF ASSEMBLY BUILDING	BCH
W-147	WL	I	2291004.26	6965885.279	654.7	CNGT	LES	NA	HS	15-APR-91	30	10.3	BETWEEN ASSEMBLY BUILDING AND BUILDING	BCH
W-148	WL	I	2290838.01	6965276.112	656.7	CNGT	LES	NA	HS	15-APR-91	31	7.25	WEST OF ASSEMBLY BUILDING	BCH
W-149	WL	I	2292752.7	6965267.484	647	CNGT	LES	NA	HS	17-APR-91	58.7	8.25	EAST PARKING LOT BTWN FENCE AND SIDEW	BCH
W-150L	WL	I	2290569.85	6964131.224	664.8	CNGT	LES	NA	HS	25-APR-91	45.5	8.25	CHROME PIT NO. 3	BCH
W-150U	WL	I	2290575.63	6964131.379	664.8	CNGT	LES	NA	HS	16-APR-91	31.5	8.25	CHROME PIT NO. 3	BCH
W-151	WL	I	2292769.58	6965042.452	646.21	CNGT	SWL	NA	HS	17-APR-91	58.8	10.3	EAST OF ASSEMBLY BUILDING IN PARKING LO	JCB
W-152	WL	I	2292197.69	6965558.905	650.88	CNGT	SWL	NA	HS	27-APR-91	36.15	10.3	IN EAST PARKING LOT	IRP
W-153	WL	I	2294390.71	6965167.826	631.4	CNGT	LES	NA	HS	29-APR-91	39.4	10.3	EAST OF RUNWAY BETWEEN C AND B	BCH
W-154	WL	I	2290400.96	6963987.828	666.4	CNGT	LES	NA	HS	29-APR-91	42.3	8.25	CHROME PIT NO. 3	BCH
W-155	WL	I	2293440.2	6968337.392	635.9	CNGT	LES	NA	HS	30-APR-91	23	10.3	WEST OF TAXIWAY	BCH
W-156	WL	I	2293109.34	6964885.619	644.4	CNGT	LES	NA	HS	01-MAY-91	58.5	8.25	AFP4 HANGAR AREA BETWEEN STA 171 AND	BCH
W-157	WL	O	2290992.31	6962997.063	651.7	CNGT	LES	NA	HS	30-MAY-91	31.5	7.25	WEST OF FDTA NO. 5 AND CLIFFORD AVE.	BCH
W-158	WL	I	2291374.89	6964016.204	655.3	CNGT	LES	NA	HS	01-JUN-91	37.8	7.25	IN ASSEMBLY BUILDING NO. 181	BCH
W-159	WL	I	2291664.89	6963984.224	655.3	CNGT	LES	NA	HS	01-JUN-91	37	8.25	IN ASSEMBLY BUILDING NO. 182	BCH
W-160	WL	I	2291662.63	6963509.975	655.3	CNGT	LES	NA	HS	02-JUN-91	38.5	8.25	IN ASSEMBLY BUILDING NO. 182	BCH
W-162	WL	I	2290520.87	6964860.399		JEG	JEG	NA	UN	22-MAR-93			AT MILLION GALLON TANK	IRP
W-163	WL	I	2290669.54	6965020.453		JEG	JEG	NA	UN	22-MAR-93			AT MILLION GALLON TANK	IRP
W-164	WL	I	2290581.87	6965011.178		JEG	JEG		NA	22-MAR-93			AT MILLION GALLON TANK	JCB
W24-6	SS	I				CNGT	NA	NA	NA	25-OCT-90			N/A	BCH
W25-3	SS	I	2292572.59	6968279.607		CNGT	NA	NA	NA	26-OCT-90			N/A	BCH
WP07-10A	WL	I	2295807.17	6961292.43	624.2	AERO	UNK	NA	HS	01-JAN-99	37.8	2	NO LOGS AVAILABLE	IRP
WS-1	WL	O	2286594.13	6961957.722		AERO	ACB	NA	Z	01-JAN-10			WHITE SETTLEMENT PRODUCTION WELL	JCB

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LOCID	LTCC	L	ECOORD	NCOORD	ELEV	ESCCO	DRLC	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	sourc
WS-12	WL	O	2292231.83	6961494.383		AERO	UNK	NA	UN	01-JAN-99			WHITE SETTLEMENT WATER WELL #12	IRP
WS-2	WL	O	2288826.47	6966347.228		JEG	NA	NA	NA	24-OCT-91			WHITE SETTLEMENT MUNICIPAL WATER SUPPL	JC8
WS-3	WL	O				AERO	ACB	NA	Z	01-JAN-10			WITE SETTLEMENT PRODUCTION WELL	JCB
WS-5	WL	O				JEG	JEG	NA	UN	09-SEP-99			MUNICIPAL WATER SUPPLY WELL	IRP
WS-5A	WL	O				JEG	JEG	NA	UN	20-MAY-93			WHITESETTLEMENT MUNICIPAL SUPPLY WELL	IRP
WS-6	WL	I	2284546.43	6964016.339		JEG	JEG	NA	HS	01-JAN-10			WHITESETTLEMENT MUNICIPAL SUPPLY WELL.	IRP
WS-8	WL	O				JEG	JEG	NA	UN	20-MAY-93			WHITESETTLEMENT MUNICIPAL SUPPLY WELL	IRP
WS-H3	WL	O				AERO	UNK	NA	UN	01-JAN-10			LOCATION	IRP
X1	BH	I	2289997.62	6964230.311		CNGT	LES	NA	HS	19-DEC-89	9.1	8	Collection and analysis of soil samples	BCH
X10	8H	I	2290560.74	6964013.641		CNGT	LES	NA	HS	20-DEC-89	9.4	8	Collection and analysis of soil samples	BCH
X11	BH	I	2290494.36	6964009.138		CNGT	LES	NA	HS	20-DEC-89	9.3	8	Collection and analysis of soil samples	BCH
X2	8H	I	2290504.94	6964229.402		CNGT	LES	NA	HS	19-DEC-89	9.1	8	Collection and analysis of soil samples	BCH
X3	BH	I	2290503.46	6963763.321		CNGT	LES	NA	HS	20-DEC-89	9	8	Collection and analysis of soil samples	BCH
X4	BH	I	2290010.97	6963833.695		CNGT	LES	NA	HS	19-DEC-89	9.1	8	Collection and analysis of soil samples	8CH
X5	BH	I	2290314.46	6964038.137		CNGT	LES	NA	HS	19-DEC-89	9.4	8	Collection and analysis of soil samples	8CH
X6	8H	I	2290430.06	6964062.129		CNGT	LES	NA	HS	19-DEC-89	9.3	8	Collection and analysis of soil samples	8CH
X7	8H	I	2290491.93	6964121.802		CNGT	LES	NA	HS	19-DEC-89	9.3	8	Collection and analysis of soil samples	BCH
X8	BH	I	2290566.54	6964121.652		CNGT	LES	NA	HS	19-DEC-89	9.3	8	Collection and analysis of soil samples	8CH
X9	BH	I	2290641.63	6964066.774		CNGT	LES	NA	HS	19-DEC-89	10	8	Collection and analysis of soil samples	BCH

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
A4	SS	I	0	0	0	CNGT	NA	NA	NA	17-SEP-90			N/A	BCH
A7	SS	I	0	0	0	CNGT	NA	NA	NA	17-SEP-90			N/A	BCH
COOL-IN	TK	I	0	0		HARG	NA	NA	NA	11-OCT-85			COOLING TOWER INFLUENT	IRP
COOL-OUT	TK	I	0	0		HARG	NA	NA	NA	11-OCT-85			COOLING TOWER EFFLUENT	IRP
FF-1	CH	I	0	0	0	JEG	NA	NA	NA	22-OCT-91			WEST SIDE OF AFP4	IRP
FIREHYDRNT	UN	I	0	0			NA	NA	NA	01-JAN-10			FIRE HYDRANT	IRP
GMI-01M	WL	I	0	0	0	GMI	UNK		HS	7/19/94	16	8	Landfill No. 4	PAR
GMI-02M	WL	I	0	0	0	GMI	UNK		HS	7/19/94	27.5	8	Land Fill No.4	PAR
GMI-03M	WL	I	0	0	0	GMI	UNK		HS	7/19/94	27.5	8	Land Fill No. 4	PAR
GMI-04M	WL	I	0	0	0	GMI	UNK		HS	7/18/94	27	8	Land Fill No.4	PAR
GMI-05M	WL	I	0	0	0	GMI	UNK		HS	7/18/94	17.5	8	Land Fill No.4	PAR
HA-1														IRP
HA-2														IRP
HA-3														IRP
HA-4														IRP
HA-5														IRP
HA-6														IRP
HM-3A	WL	I	0	0			NA	NA	NA	01-JAN-10				IRP
LABQC		I				RAD				31-MAR-8				IRP
LF05-SS1	RV	I	0	0	0	JEG	NA	NA	NA	01-JAN-99			SURFACE WATER LOCATION	IRP
LOC_B-3	SS	I	0	0	0	CNGT	NA	NA	NA	14-SEP-90			N/A	BCH
LOC_B-5	SS	I	0	0	0	CNGT	NA	NA	NA	14-SEP-90			N/A	BCH
LOC_E7	SS	I	0	0	0	CNGT	NA	NA	NA	14-SEP-90			N/A	BCH
MW-1	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-2	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-3	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-4	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-5	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-6	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-7	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
NBR3_SEEP	SE	I	0	0			NA	NA	NA	01-JAN-10				IRP
OF-1														IRP
OF-3	SE	I	0	0	0	JEG	NA	NA	NA	01-FEB-92	333.	3.33	NORTHERN END OF BOMBER ROAD	JCB
OF-3	SE	I	0	0	0	JEG	NA	NA	NA	01-FEB-92			NORTHERN END OF BOMBER ROAD	IRP
OF-4	SW	I	0	0	0	JEG	NA	NA	NA	01-JAN-99			OUTFALL FOR RUNOFF FROM PLANT 4 IN	IRP
OF-4	SW	I	0	0	0	JEG	NA	NA	NA	01-JAN-99	333.	3.33	OUTFALL FOR RUNOFF FROM PLANT 4 IN	JCB
OF-5	SW	I	0	0	0	JEG	NA	NA	NA	01-JAN-99			OUTFALL FOR RUNOFF FROM PLANT 4 IN	IRP
OF-5	SW	I	0	0	0	JEG	NA	NA	NA	01-JAN-99	333.	3.33	OUTFALL FOR RUNOFF FROM PLANT 4 IN	JCB
OW-1	WL	I	0	0	0	ESCI			B	10/22/93	25	0		PAR
OW-2	WL	I	0	0	0	ESCI			B	10/25/93	25	0		PAR
P-20		I				RAD				28-FEB-86				IRP
P-21		I				RAD				28-FEB-86				IRP
P-21M														IRP
P3-C	WL		0	0	0	ESCI				12/12/93	0	0		PAR
PZ-1	PZ	I	0	0	0	ESCI			B	10/21/93	5	0		PAR

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LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
PZ-2	BH	I	0	0	0	ESCI			B	10/20/93	5	0		PAR
PZ-5	BH	I	0	0	0	ESCI			B	10/20/93	5	0		PAR
PZ-6	PZ	I	0	0	0	ESCI			B	10/21/93	5	0		PAR
PZ-7	PZ	I	0	0	0	ESCI			B	10/25/93	5	0		PAR
RADAR SEEP	SE	I	0	0			NA	NA	NA	11-OCT-85			RADAR RANGE SEEP	IRP
SB-1														IRP
SB-10														IRP
SB-11														IRP
SB-12														IRP
SB-2														IRP
SB-3														IRP
SB-4														IRP
SB-5														IRP
SB-6														IRP
SB-7														IRP
SB-8														IRP
SB-9														IRP
SG-1	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-10	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-11	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-12	BH	I	0	0	0	ESCI			B	10/21/93	5	0		PAR
SG-13	BH	I	0	0	0	ESCI			B	10/21/93	5	0		PAR
SG-14	BH	I	0	0	0	ESCI			B	10/25/93	5	0		PAR
SG-15	BH	I	0	0	0	ESCI			B	10/25/93	5	0		PAR
SG-16	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-17	BH	I	0	0	0	ESCI			B	10/22/93	5	0		PAR
SG-18	BH	I	0	0	0	ESCI			B	10/20/93	5	0		PAR
SG-19	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-2	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-20														IRP
SG-21														IRP
SG-22														IRP
SG-23														IRP
SG-24														IRP
SG-25														IRP
SG-26														IRP
SG-27														IRP
SG-28														IRP
SG-29														IRP
SG-3	BH	I	0	0	0	ESCI			B	10/25/93	5	0		PAR
SG-30														IRP
SG-31														IRP
SG-32														IRP
SG-33														IRP
SG-34														IRP

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SG-35														IRP
SG-36														IRP
SG-37														IRP
SG-38														IRP
SG-39														IRP
SG-4	BH	I	0	0	0	ESCI			B	10/20/93	5	0		PAR
SG-40														IRP
SG-41														IRP
SG-42														IRP
SG-43														IRP
SG-44														IRP
SG-45														IRP
SG-46														IRP
SG-47														IRP
SG-48														IRP
SG-49														IRP
SG-5	BH	I	0	0	0	ESCI			B	10/21/93	4	0		PAR
SG-50														IRP
SG-51														IRP
SG-52														IRP
SG-53														IRP
SG-54														IRP
SG-55														IRP
SG-56														IRP
SG-57														IRP
SG-58														IRP
SG-59														IRP
SG-6	BH	I	0	0	0	ESCI			B	10/21/93	4	0		PAR
SG-60														IRP
SG-61														IRP
SG-62														IRP
SG-63														IRP
SG-64														IRP
SG-65														IRP
SG-66														IRP
SG-67														IRP
SG-68														IRP
SG-69														IRP
SG-7	BH	I	0	0	0	ESCI			B	10/21/93	5	0		PAR
SG-70														IRP
SG-71														IRP
SG-72														IRP
SG-73														IRP
SG-74														IRP
SG-75														IRP

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SG-76														IRP
SG-77														IRP
SG-78														IRP
SG-79														IRP
SG-8	BH	I	0	0	0	ESCI			B	10/25/93	5	0		PAR
SG-80														IRP
SG-81														IRP
SG-82														IRP
SG-83														IRP
SG-84														IRP
SG-85														IRP
SG-86														IRP
SG-87														IRP
SG-88														IRP
SG-89														IRP
SG-9	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-90														IRP
SITE5CATCH	UN	I	0	0			NA	NA	NA	01-JAN-10			SITE 5 CATCHMENT	IRP
SSO	SW	I	0	0	0	JEG	NA	NA	NA	01-FEB-92	333.	3.33	STORM SEWER OUTFALL	JCB
SSO	SW	I	0	0	0	JEG	NA	NA	NA	01-FEB-92			STORM SEWER OUTFALL	IRP
SW-03	RV	I	0	0	0	JEG	NA	NA	NA	01-JAN-99			SURFACE WATER LOCATION IN MEANDE	IRP
U26-2	SS	I	0	0	0	CNGT	NA	NA	NA	26-OCT-90			N/A	BCH
UZB-1	BH	I	0	0	0	ESCI			HS	11/29/94	16	8		PAR
UZB-2	BH	I	0	0	0	ESCI			HS	11/29/93	34.2	8		PAR
UZB-3	BH	I	0	0	0	ESCI			HS	11/29/93	35.5	8		PAR
UZB-6	BH	I	0	0	0	ESCI			HS	11/29/93	22.5	8		PAR
UZB-7	BH	I	0	0	0	ESCI			HS	12/1/94	34	8		PAR
V12-1	SS	I	0	0	0	CNGT	NA	NA	NA	28-OCT-90			N/A	BCH
VW-1	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
VW-2	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
VW-3	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
VW-4	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
W24-6	SS	I	0	0	0	CNGT	NA	NA	NA	25-OCT-90			N/A	BCH
WS-3	WL	O	0	0	0	AERO	ACB	NA	Z	01-JAN-10	333.	3.33	WITE SETTLEMENT PRODUCTION WELL	JCB
WS-5	WL	O	0	0	0	JEG	JEG	NA	UN	09-SEP-99	333.	3.33	MUNICIPAL WATER SUPPLY WELL	IRP
WS-5A	WL	O	0	0	0	JEG	JEG	NA	UN	20-MAY-9	333.	3.33	WHITESETTLEMENT MUNICIPAL SUPPLY	IRP
WS-8	WL	O	0	0	0	JEG	JEG	NA	UN	20-MAY-9	333.	3.33	WHITESETTLEMENT MUNICIPAL SUPPLY	IRP
WS-H3	WL	O	0	0	0	AERO	UNK	NA	UN	01-JAN-10	333.	3.33	LOCATION	IRP

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LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCCO	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
A4	SS	I	0	0	0	CNGT	NA	NA	NA	17-SEP-90			N/A	BCH
A7	SS	I	0	0	0	CNGT	NA	NA	NA	17-SEP-90			N/A	BCH
AC-1	BH	I	400221.42	2016139.59		UNK	UNK		UN	01-JUN-42	59.5		Pre-plant construction foundation soil borin	EXP
AC-10	BH	I	404966.42	2016825.07		UNK	UNK		UN	01-JUN-42	38.2		Pre-plant construction foundation soil borin	EXP
AC-11	BH	I	404813.5	2016334.44		UNK	UNK		UN	01-JUN-42	32.5		Pre-plant construction foundation soil borin	EXP
AC-12	BH	I	404706.65	2015695.47		UNK	UNK		UN	01-JUN-42	41.6		Pre-plant construction foundation soil borin	EXP
AC-13	BH	I	402933.02	2016042.64		UNK	UNK		UN	01-JUN-42	35.4		Pre-plant construction foundation soil borin	EXP
AC-14	BH	I	400697.27	2015986.58		UNK	UNK		UN	01-JUN-42	43.7		Pre-plant construction foundation soil borin	EXP
AC-15	BH	I	400704.37	2015662.89		UNK	UNK		UN	01-JUN-42	46.5		Pre-plant construction foundation soil borin	EXP
AC-16	BH	I	402059.41	2015682.57		UNK	UNK		UN	01-JUN-42	42.2		Pre-plant construction foundation soil borin	EXP
AC-17	BH	I	403357.24	2015690.28		UNK	UNK		UN	01-JUN-42	38.9		Pre-plant construction foundation soil borin	EXP
AC-2	BH	I	403088.93	2016101.29		UNK	UNK		UN	06-JUN-42	33		Pre-plant construction foundation soil borin	EXP
AC-3	BH	I	404185.03	2016153.55		UNK	UNK			01-JUN-42	30		Pre-plant construction foundation soil borin	EXP
AC-4	BH	I	401525.11	2015915.59		UNK	UNK		UN	01-JUN-42	40.6		Pre-plant construction foundation soil borin	EXP
AC-5	BH	I	402734.56	2015928.46		UNK	UNK		UN	01-JUN-42	59.6		Pre-plant construction foundation soil borin	EXP
AC-6	BH	I	403943.67	2015917.55		UNK	UNK		UN	01-JUN-42	37.8		Pre-plant construction foundation soil borin	EXP
AC-7	BH	I	404799.4	2016180.85		UNK	UNK		UN	01-JUN-42	38		Pre-plant construction foundation soil borin	EXP
AC-8	BH	I	405118.2	2015937.88		UNK	UNK		UN	01-JUN-42	60		Pre-plant construction foundation soil borin	EXP
AC-9	BH	I	404170.5	2016810.78		UNK	UNK		UN	01-JUN-42	27		Pre-plant construction foundation soil borin	EXP
BG-001	SS	O	399663.7	2015211.58	0	CNGT	NA	NA	NA	02-JUL-91			N/A	BCH
BG-002	SS	O	402892.47	2014102.64	0	CNGT	NA	NA	NA	02-JUL-91			N/A	BCH
C-1	RV	I	406586.7	2023961.13	0	HARG	NA	NA	NA	11-JAN-83			N/A	BCH
C-1			401305.73	2012655.56										EXP
C-2	RV	I	403463	2014449.73	0	JEG	NA	NA	NA	01-JAN-99	333.	3.33	SURFACE WATER LOCATION IN MEANDE	JCB
C-3			402933.22	2014396.52										EXP
C-3	RV	I	404845.05	2025593.28	0	HARG	NA	NA	NA	06-MAY-8			N/A	BCH
C-4			401658.37	2013648.08										EXP
C-4	RV	I	405597.29	2024315.11	0	HARG	NA	NA	NA	02-JUN-83				IRP
C-4	RV	O	405597.29	2024315.11	0	HARG	NA	NA	NA	02-JUN-83			N/A	BCH
C-5			404110.91	2014705.15										EXP
C-5	RV	I	404040.35	2014741.35	0	JEG	NA	NA	NA	24-JUL-92	333.	3.33	ON MEANDERING ROAD CREEK UPSTREA	JCB
COOL-IN	TK	I	0	0		HARG	NA	NA	NA	11-OCT-85			COOLING TOWER INFLUENT	IRP
COOL-OUT	TK	I	0	0		HARG	NA	NA	NA	11-OCT-85			COOLING TOWER EFFLUENT	IRP
CREEK_SEEP	SE	I	402185.51	2014196.02	0	HARG	NA	NA	NA	15-APR-84				IRP
CS-001	CH	I	402771.57	2015348.3	0	CNGT	NA	NA	NA	21-MAY-9			N/A	BCH
CS-002	CH	I	402838.86	2015360.83	0	CNGT	NA	NA	NA	21-MAY-9			N/A	BCH
CS-003	CH	I	402832.02	2015379.69	0	CNGT	NA	NA	NA	21-MAY-9			N/A	BCH
CS-004	CH	I	402832.02	2015379.69	0	CNGT	NA	NA	NA	21-MAY-9			N/A	BCH
CS-005	CH	I	402828.73	2015387.98	0	CNGT	NA	NA	NA	21-MAY-9			N/A	BCH
CS-006	CH	I	402832.99	2015376.87	0	CNGT	NA	NA	NA	21-MAY-9			N/A	BCH
CS-007	CH	I	402835.06	2015371.75	0	CNGT	NA	NA	NA	21-MAY-9			N/A	BCH
DRAIN_PIPE	TK	I	402849.2	2014581.38	0	HARG	NA	NA	NA	19-JAN-84				IRP
EGL-1	RV	I	398473.19	2017554.86	0	JEG	NA	NA	NA	25-OCT-91			UPSTREAM END OF AQUADUCT EAST OF	IRP
EGL-2	RV	I	399333.48	2020474.51	0	JEG	NA	NA	NA	01-FEB-92			DOWNSTREAM END OF AQUEDUCT	IRP
F-201			405553.32	2015404.26										EXP

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LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCCO	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
F-209	WL	I	405733.74	2015472.81	0	USAF	JEG	NA	HS	07-MAR-8	18	8	FUEL SATURATION AREA 3	IRP
FF-1	CH	I	0	0	0	JEG	NA	NA	NA	22-OCT-91			WEST SIDE OF AFP4	IRP
FIREHYDRNT	UN	I	0	0			NA	NA	NA	01-JAN-10			FIRE HYDRANT	IRP
FRDRN#1	TK	I	402753.57	2014562.54	0	HARG	NA	NA	NA	01-NOV-82				IRP
FRDRN#2	TK	I	402750.1	2014762.3	0	HARG	NA	NA	NA	13-APR-84				IRP
FSA-3-01	WL	I	405748.03	2015356.14	0	HARG	SWL	NA	Z	06-JUN-88	19.5	6.25	FUEL SATURATION AREA 3	IRP
FSA3-1			405748.03	2015356.14										EXP
FSA3-13			405715.13	2015211.69										EXP
FSA3-14			405723.24	2015157.84										EXP
FSA3-15			405724.66	2015172.1										EXP
FSA3-16			405725.43	2015188.13										EXP
FSA3-17			405712.07	2015172.48										EXP
FSA3-5			405749.84	2015150.73										EXP
FSA3-9			405894.08	2015293.33										EXP
GMI-01M	WL	I	0	0	0	GMI	UNK		HS	7/19/94	16	8	Landfill No. 4	PAR
GMI-02M	WL	I	0	0	0	GMI	UNK		HS	7/19/94	27.5	8	Land Fill No.4	PAR
GMI-03M	WL	I	0	0	0	GMI	UNK		HS	7/19/94	27.5	8	Land Fill No. 4	PAR
GMI-04M	WL	I	0	0	0	GMI	UNK		HS	7/18/94	27	8	Land Fill No.4	PAR
GMI-05M	WL	I	0	0	0	GMI	UNK		HS	7/18/94	17.5	8	Land Fill No.4	PAR
HA-1														IRP
HA-2														IRP
HA-3														IRP
HA-4														IRP
HA-5														IRP
HA-6														IRP
HM-3A	WL	I	0	0			NA	NA	NA	01-JAN-10				IRP
HM-83			405964.55	2016545.82										EXP
HM-85			406613.4	2016216.38										EXP
LABQC		I				RAD				31-MAR-8				IRP
LF05-5E	WL	O	397768.46	2020133.12	0	JEG	JEG	NA	UN	22-MAY-9	333.	3.33	CARSWELL AIR FORCE BASE	IRP
LF05-S5	RV	I	398398.84	2021846.88	0	JEG	NA	NA	NA	29-JUL-92			EAST FLIGHT LINE AREA ON CARSWELL	IRP
LF05-SS1	RV	I	0	0	0	JEG	NA	NA	NA	01-JAN-99			SURFACE WATER LOCATION	IRP
LOC_1	SS	I	399855.8	2016465.58	0	CNGT	NA	NA	NA	27-JUN-90			N/A	BCH
LOC_10	SS	I	401353.05	2016001.21	0	CNGT	NA	NA	NA	16-JUL-90			N/A	BCH
LOC_11	SS	I	401524.84	2016002.68	0	CNGT	NA	NA	NA	17-SEP-90			N/A	BCH
LOC_12	SS	I	401737.63	2016013.32	0	CNGT	NA	NA	NA	30-JUN-90			N/A	BCH
LOC_13	SS	I	401924.73	2016014.93	0	CNGT	NA	NA	NA	30-JUN-90			N/A	BCH
LOC_14	SS	I	402126.75	2016015.42	0	CNGT	NA	NA	NA	30-JUN-90			N/A	BCH
LOC_15	SS	I	402324.95	2016017.12	0	CNGT	NA	NA	NA	30-JUN-90			N/A	BCH
LOC_16	SS	I	402373.04	2016239.94	0	CNGT	NA	NA	NA	01-JUL-90			N/A	BCH
LOC_17	SS	I	403063.02	2016194.19	0	CNGT	NA	NA	NA	01-JUL-90			N/A	BCH
LOC_18	SS	I	403061.65	2016041.17	0	CNGT	NA	NA	NA	01-JUL-90			N/A	BCH
LOC_19	SS	I	403276.03	2016023	0	CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC_2	SS	I	400053	2016467.27	0	CNGT	NA	NA	NA	28-JUN-90			N/A	BCH
LOC_20	SS	I	403551.93	2016024.86	0	CNGT	NA	NA	NA	02-JUL-90			N/A	BCH

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LOC_21	SS	I	403674.96	2016021.43	0	CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC_22	SS	I	403941.74	2016048.12	0	CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC_23	SS	I	404050.97	2016033.86	0	CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC_24	SS	I	404274.06	2016035.15	0	CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC_25	SS	I	404446.56	2016036.14	0	CNGT	NA	NA	NA	02-JUL-90			N/A	BCH
LOC_26	SS	I	404713.98	2016006.59	0	CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC_28	SS	I	404717.12	2015716.56	0	CNGT	NA	NA	NA	29-OCT-90			N/A	BCH
LOC_29	SS	I	404550.45	2015680.97	0	CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC_3	SS	I	400261.47	2016471.3	0	CNGT	NA	NA	NA	28-JUN-90			N/A	BCH
LOC_30	SS	I	404362.11	2015680.31	0	CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC_31	SS	I	404177.74	2015681.69	0	CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC_32	SS	I	404005.36	2015684.46	0	CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC_33	SS	I	403777.42	2015677.5	0	CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC_34	SS	I	403605.42	2015676.02	0	CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC_35	SS	I	403410.04	2015673.35	0	CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC_36	SS	I	403182.45	2015670.76	0	CNGT	NA	NA	NA	13-JUL-90			N/A	BCH
LOC_37	SS	I	403118.92	2015511.34	0	CNGT	NA	NA	NA	01-JUL-90			N/A	BCH
LOC_38	SS	I	403108.57	2015318.95	0	CNGT	NA	NA	NA	01-JUL-90			N/A	BCH
LOC_39	SS	I	402900.56	2015319.03	0	CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC_4	SS	I	400468.06	2016473.07	0	CNGT	NA	NA	NA	28-JUN-90			N/A	BCH
LOC_40	SS	I	402728.41	2015315.75	0	CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC_41	SS	I	402455.99	2015313.54	0	CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC_43	SS	I	402080	2015310.47	0	CNGT	NA	NA	NA	14-JUL-90			N/A	BCH
LOC_44	SS	I	401913.4	2015263.69	0	CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC_45	SS	I	401681.42	2015259.7	0	CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC_46	SS	I	401481.92	2015316.99	0	CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC_47	SS	I	401306.06	2015300.48	0	CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC_48	SS	I	401081.98	2015308.55	0	CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC_49	SS	I	400876.18	2015283.79	0	CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC_5	SS	I	400543.35	2016265.27	0	CNGT	NA	NA	NA	03-JUN-90			N/A	BCH
LOC_50	SS	I	400756.17	2015284.76	0	CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC_51	SS	I	400476.5	2015245.65	0	CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC_52	SS	I	400245.26	2015271.67	0	CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC_53	SS	I	400223.43	2015485.49	0	CNGT	NA	NA	NA	17-SEP-90			N/A	BCH
LOC_54	SS	I	400221	2015651.48	0	CNGT	NA	NA	NA	15-SEP-90			N/A	BCH
LOC_55	SS	I	400002.78	2015676.61	0	CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC_8	SS	I	400899.94	2016011.32	0	CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC_9	SS	I	401110.11	2015998.12	0	CNGT	NA	NA	NA	15-JUL-90			N/A	BCH
LOC_B-3	SS	I	0	0	0	CNGT	NA	NA	NA	14-SEP-90			N/A	BCH
LOC_B-5	SS	I	0	0	0	CNGT	NA	NA	NA	14-SEP-90			N/A	BCH
LOC_E7	SS	I	0	0	0	CNGT	NA	NA	NA	14-SEP-90			N/A	BCH
LW-24	LK	O	404731.41	2011648.3	0	CNGT	NA	NA	NA	23-OCT-91			N/A	BCH
MW-1	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-2	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-3	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCCO	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
MW-4	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-5	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-6	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-7	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
NBR3 SEEP	SE	I	0	0			NA	NA	NA	01-JAN-10				IRP
OF-1														IRP
OF-3	SE	I	0	0	0	JEG	NA	NA	NA	01-FEB-92	333.	3.33	NORTHERN END OF BOMBER ROAD	JCB
OF-3	SE	I	0	0	0	JEG	NA	NA	NA	01-FEB-92			NORTHERN END OF BOMBER ROAD	IRP
OF-4	SW	I	0	0	0	JEG	NA	NA	NA	01-JAN-99			OUTFALL FOR RUNOFF FROM PLANT 4 IN	IRP
OF-4	SW	I	0	0	0	JEG	NA	NA	NA	01-JAN-99	333.	3.33	OUTFALL FOR RUNOFF FROM PLANT 4 IN	JCB
OF-5	SW	I	0	0	0	JEG	NA	NA	NA	01-JAN-99			OUTFALL FOR RUNOFF FROM PLANT 4 IN	IRP
OF-5	SW	I	0	0	0	JEG	NA	NA	NA	01-JAN-99	333.	3.33	OUTFALL FOR RUNOFF FROM PLANT 4 IN	JCB
OLD HOLE			406003.19	2015537.41										EXP
OUT#1			399725.82	2017236.86										EXP
OUT#3			405933.1	2015175.51										EXP
OUT#4			403755.78	2014705.27										EXP
OW-1	WL	I	0	0	0	ESCI			8	10/22/93	25	0		PAR
OW-2	WL	I	0	0	0	ESCI			B	10/25/93	25	0		PAR
P-2	WL	I	397523.95	2020974.06	0	RAD	URM	NA	AR	01-JAN-10	333.	3.33	NO CONSTRUCTION INFORMATION	IRP
P-20		I				RAD				28-FE8-86				IRP
P-21		I				RAD				28-FEB-86				IRP
P-21M														IRP
P-29M	WL	I	402892.47	2014102.64	0	CNGT	ACB	NA	MR	28-JUN-91	140	4.25	ELEVATION UNKNOWN. WEST OF BOMB	IRP
P-4			402646.72	2014861.41										EXP
P3-C	WL		0	0	0	ESCI				12/12/93	0	0		PAR
PZ-1	PZ	I	0	0	0	ESCI			B	10/21/93	5	0		PAR
PZ-2	BH	I	0	0	0	ESCI			B	10/20/93	5	0		PAR
PZ-5	BH	I	0	0	0	ESCI			8	10/20/93	5	0		PAR
PZ-6	PZ	I	0	0	0	ESCI			B	10/21/93	5	0		PAR
PZ-7	PZ	I	0	0	0	ESCI			B	10/25/93	5	0		PAR
RADAR SEEP	SE	I	0	0			NA	NA	NA	11-OCT-85			RADAR RANGE SEEP	IRP
RR-1	BH	I	401497	2014077					HS	20-SEP-89	21	6.25	Drilled in the vicinity of the proposed AMD	EXP
RR-2	BH	I	401262	2013924					HS	20-SEP-89	26	6.25	Drilled in the vicinity of the proposed AMD	EXP
RR-3	BH	I	401018	2013922					HS	20-SEP-89	31	6.25	Drilled in the vicinity of the proposed AMD	EXP
RR-4	BH	I	401127	2014183					HS	20-SEP-89	31	6.25	Drilled in the vicinity of the proposed AMD	EXP
RR-5	BH	I	401345	2014116					HS	21-SEP-89	27.5	6.25	Drilled in the vicinity of the proposed AMD	EXP
RR-6	BH	I	401273	2014434					HS	21-SEP-89	37.5	6.25	Drilled in the vicinity of the proposed AMD	EXP
RR-7	BH	I	400991	2014448					HS	21-SEP-89	31	6.25	Drilled in the vicinity of the proposed AMD	EXP
RSB-02			402209.25	2017644.04										EXP
RSB-03			402311.33	2017647.18										EXP
RSB-04			402405.11	2017648.96										EXP
RSB-05			402497.65	2017654.29										EXP
RSB-06			402703.34	2017641.58										EXP
RSB-08			403405.95	2017665.64										EXP
RSB-10			403775.07	2017677.42										EXP

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RSB-12			403771.98	2017777.12										EXP
RSB-13			403637.67	2017782.87										EXP
RSB-14			404050.46	2017622.09										EXP
RSB-15			403401.38	2017780.75										EXP
RSB-17			404244.44	2017725.55										EXP
RSB-20			400042.33	2017682.36										EXP
RSB-22			400342.73	2017685.7										EXP
RSB-26			400138.52	2017807.7										EXP
RSB-27			400373.04	2017528.33										EXP
RSB-28			400471.44	2017537.33										EXP
RSB-30			400645.07	2017649.89										EXP
RSB-33			401091.51	2017530.13										EXP
RSB-34			399281.8	2019266.39										EXP
RSB-35			398279.82	2019247.32										EXP
RSB-36			397277.69	2019236.55										EXP
RSB-37			397794.52	2018787.98										EXP
RSB-38			398813.34	2018795.5										EXP
RSB-39			399739.86	2018785.82										EXP
RSB-40			399687.79	2019774.1										EXP
RSB-41			398834.1	2019763.79										EXP
RSB-42			398275.76	2019273.37										EXP
RSB-43			400951.84	2018877.78										EXP
RSB-44			401976.52	2018827.22										EXP
RSB-45			402952.31	2018849.36										EXP
RSB-46			403951.04	2018851.75										EXP
RSB-47			404964.13	2018848.47										EXP
RSB-48			405889.3	2018847.08										EXP
RSB-49			406287.43	2019393.84										EXP
RSB-50			405377.18	2019359.88										EXP
RSB-51			400272.42	2019257.94										EXP
RSB-52			406081.37	2019924.34										EXP
RSB-53			404808.43	2019915.54										EXP
RSB-54			401326.95	2019261.39										EXP
RSB-55			402314.9	2019268.32										EXP
RSB-56			403380.78	2019299.31										EXP
RSB-57			398375.3	2018785.97										EXP
RSB-58			398573.63	2018786.18										EXP
RSB-59			398797.25	2019266.67										EXP
RSB-60			400753.64	2019744.52										EXP
RSB-61			401793.69	2019759.57										EXP
RSB-62			402776.97	2019762.85										EXP
RSB-63			404061.15	2019929.81										EXP
RSB-65			398622.72	2019763.33										EXP
RSB-66			398575.16	2019267.19										EXP
RSB-67			397700.06	2019320.6										EXP

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCCO	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SB-079	BH	I	401942.06	2015251.17	0	CNGT	LES	NA	HS	27-MAR-9	32.5	7.25	FSA-1	BCH
SB-1														IRP
SB-1(86)	BH	I	404510	2014976		UNK	RDN			24-JAN-86	22			EXP
SB-10														IRP
SB-10(86)	BH	I	406092	2015548		UNK	RDN		UN	22-JUL-86	19.5			EXP
SB-109	BH	I	402253.77	2015278.24	0	CNGT	LES	NA	HS	02-APR-91	33.2	7.25	FSA-1	BCH
SB-11														IRP
SB-11(86)	BH	I	407779	2016597		UNK	RDN		UN	24-JUL-86	4.75			EXP
SB-110	BH	I	400224.74	2015486.37	0	CNGT	LES	NA	HS	26-MAR-9	28.9	7.25	WCB	BCH
SB-111	BH	I	402115.04	2015208.97	0	CNGT	LES	NA	HS	30-MAR-9	32.0	10.2	FSA-1	BCH
SB-112	BH	I	402073.54	2015281.9	0	CNGT	LES	NA	HS	28-MAR-9	29.3	10.2	FSA-1	BCH
SB-113	BH	I	405272.24	2015758.99	0	CNGT	LES	NA	HS	03-APR-91	30.0	7.25	FSA-3	BCH
SB-114			402063.13	2015281.42										EXP
SB-12														IRP
SB-125	BH	I	402307.53	2014988.68	0	CNGT	LES	NA	HS	10-APR-91	32.8	10.2	FSA-1	BCH
SB-131	BH	I	401847.31	2015154.35	0	CNGT	LES	NA	HS	11-APR-91	28.0	7.25	N/A	BCH
SB-132	BH	I	402872.31	2014439.19	0	CNGT	LES	NA	HS	14-APR-91	30.0	10.2	N/A	BCH
SB-133	BH	I	401944.09	2015078.97	0	CNGT	LES	NA	HS	15-APR-91	31.0	7.25	N/A	BCH
SB-134	BH	I	400801.82	2014799.93	0	CNGT	LES	NA	HS	16-APR-91	31.5	8.25	N/A	BCH
SB-135	BH	I	401917.23	2016993.48	0	CNGT	LES	NA	HS	17-APR-91	58.7	8.25	N/A	BCH
SB-137	BH	I	401692.05	2017008.22	0	CNGT	LES	NA	HS	17-APR-91	58.8	10.2	EPL	BCH
SB-141			400660.04	2014625.19										EXP
SB-142	BH	I	402213.92	2016441.28	0	CNGT	LES	NA	HS	27-APR-91	36.1	10.2	EPL	BCH
SB-143	BH	O	401801.98	2018630.46	0	CNGT	LES	NA	HS	29-APR-91	39.4	10.2	FLA	BCH
SB-146	BH	O	404980.42	2017710.16	0	CNGT	LES	NA	HS	30-APR-91	23.0	10.2	FLA	BCH
SB-150			400162.22	2014995.51									DYCP	EXP
SB-151	BH	O	399663.7	2015211.58	0	CNGT	LES	NA	HS	30-MAY-9	31.5	8.25	CLFD	BCH
SB-152	BH	I	400679.14	2015603.84	0	CNGT	LES	NA	HS	01-JUN-91	37.8	7.25	PPI	BCH
SB-153	BH	I	400644.4	2015893.52	0	CNGT	LES	NA	HS	01-JUN-91	37.0	8.25	PPI	BCH
SB-154	BH	I	400170.2	2015886.74	0	CNGT	LES	NA	HS	02-JUN-91	38.5	8.25	PPI	BCH
SB-2														IRP
SB-2(86)	BH	I	404627	2014984		UNK	RDN		UN	24-JAN-86	21			EXP
SB-3														IRP
SB-3(86)	BH	I	404717	2015002		UNK	RDN			26-JAN-86	22			EXP
SB-4														IRP
SB-4(86)	BH	I	402202	2015304		UNK	RDN			26-JAN-86	28			EXP
SB-5														IRP
SB-5(86)	BH	I	400032	2015252		UNK	RDN		UN	23-JAN-86	33.5			EXP
SB-6														IRP
SB-6(86)	BH	I	407460	2016548		UNK	RDN			21-JUL-86	9			EXP
SB-7														IRP
SB-7(86)	BH	I	407613	2016616		UNK	RDN		UN	21-JUL-86	4			EXP
SB-8														IRP
SB-8(86)	BH	I	407678	2016372		UNK	RDN		UN	21-JUL-86	5.75			EXP
SB-9														IRP

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCCO	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SB-9(86)	BH	I	405790	2015526		UNK	RDN		UN	22-JUL-86	20.5			EXP
SG-1	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-10	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-11	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-12	BH	I	0	0	0	ESCI			B	10/21/93	5	0		PAR
SG-13	BH	I	0	0	0	ESCI			B	10/21/93	5	0		PAR
SG-14	BH	I	0	0	0	ESCI			B	10/25/93	5	0		PAR
SG-15	BH	I	0	0	0	ESCI			B	10/25/93	5	0		PAR
SG-16	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-17	BH	I	0	0	0	ESCI			B	10/22/93	5	0		PAR
SG-18	BH	I	0	0	0	ESCI			B	10/20/93	5	0		PAR
SG-19	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-2	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR
SG-20														IRP
SG-21														IRP
SG-22														IRP
SG-23														IRP
SG-24														IRP
SG-25														IRP
SG-26														IRP
SG-27														IRP
SG-28														IRP
SG-29														IRP
SG-3	BH	I	0	0	0	ESCI			B	10/25/93	5	0		PAR
SG-30														IRP
SG-31														IRP
SG-32														IRP
SG-33														IRP
SG-34														IRP
SG-35														IRP
SG-36														IRP
SG-37														IRP
SG-38														IRP
SG-39														IRP
SG-4	BH	I	0	0	0	ESCI			B	10/20/93	5	0		PAR
SG-40														IRP
SG-41														IRP
SG-42														IRP
SG-43														IRP
SG-44														IRP
SG-45														IRP
SG-46														IRP
SG-47														IRP
SG-48														IRP
SG-49														IRP

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCCO	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SG-5	BH	I	0	0	0	ESCI			B	10/21/93	4	0		PAR
SG-50														IRP
SG-51														IRP
SG-52														IRP
SG-53														IRP
SG-54														IRP
SG-55														IRP
SG-56														IRP
SG-57														IRP
SG-58														IRP
SG-59														IRP
SG-6	BH	I	0	0	0	ESCI			B	10/21/93	4	0		PAR
SG-60														IRP
SG-61														IRP
SG-62														IRP
SG-63														IRP
SG-64														IRP
SG-65														IRP
SG-66														IRP
SG-67														IRP
SG-6B														IRP
SG-69														IRP
SG-7	BH	I	0	0	0	ESCI			B	10/21/93	5	0		PAR
SG-70														IRP
SG-71														IRP
SG-72														IRP
SG-73														IRP
SG-74														IRP
SG-75														IRP
SG-76														IRP
SG-77														IRP
SG-78														IRP
SG-79														IRP
SG-8	BH	I	0	0	0	ESCI			B	10/25/93	5	0		PAR
SG-80														IRP
SG-B1														IRP
SG-82														IRP
SG-83														IRP
SG-84														IRP
SG-B5														IRP
SG-86														IRP
SG-B7														IRP
SG-88														IRP
SG-89														IRP
SG-9	BH	I	0	0	0	ESCI			B	10/26/93	5	0		PAR

275420

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCCO	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SG-90														IRP
SITE5CATCH	UN	I	0	0			NA	NA	NA	01-JAN-10			SITE 5 CATCHMENT	IRP
SS-01	RV	I	404900.16	2025457.55	0	CNGT	NA	NA	NA	28-FEB-91			N/A	BCH
SSO	SW	I	0	0	0	JEG	NA	NA	NA	01-FEB-92	333.	3.33	STORM SEWER OUTFALL	JCB
SSO	SW	I	0	0	0	JEG	NA	NA	NA	01-FEB-92			STORM SEWER OUTFALL	IRP
ST5	TK	I	404856.75	2025513.75	0	HARG	NA	NA	NA	15-SEP-83			N/A	BCH
ST5			402848.92	2014401.47										EXP
SW-03	RV	I	0	0	0	JEG	NA	NA	NA	01-JAN-99			SURFACE WATER LOCATION IN MEANDE	IRP
SW-03A	RV	I	401756.87	2013757.14	0	JEG	NA	NA	NA	01-JAN-99			SURFACE WATER LOCATION IN MEANDE	IRP
SW-04	RV	O	402165	2014170	0	CNGT	NA	NA	NA	01-MAY-9			N/A	BCH
SW-08	RV	I	403199.23	2014361.21	0	JEG	NA	NA	NA	22-OCT-91			STREAM SAMPLE FROM MEANDERING R	IRP
SW-09	RV	I	402750.43	2014305.28	0	CNGT	NA	NA	NA	02-MAY-9			N/A	BCH
SW-10	RV	I	405935.03	2015138	0	CNGT	NA	NA	NA	02-JUL-91			N/A	BCH
SW-11	RV	I	405954.09	2015169.9	0	CNGT	NA	NA	NA	22-NOV-91			N/A	BCH
U25-3	SS	I	404621.68	2016755.06	0	CNGT	NA	NA	NA	25-OCT-90			N/A	BCH
U25-9	SS	I	404621.89	2016810.06	0	CNGT	NA	NA	NA	26-OCT-90			N/A	BCH
U26-2	SS	I	0	0	0	CNGT	NA	NA	NA	26-OCT-90			N/A	BCH
UZB-1	BH	I	0	0	0	ESCI			HS	11/29/94	16	8		PAR
UZB-2	BH	I	0	0	0	ESCI			HS	11/29/93	34.2	8		PAR
UZB-3	BH	I	0	0	0	ESCI			HS	11/29/93	35.5	8		PAR
UZB-6	BH	I	0	0	0	ESCI			HS	11/29/93	22.5	8		PAR
UZB-7	BH	I	0	0	0	ESCI			HS	12/1/94	34	8		PAR
V12-1	SS	I	0	0	0	CNGT	NA	NA	NA	28-OCT-90			N/A	BCH
VW-1	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
VW-2	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
VW-3	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
VW-4	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
W-162	WL	I	401531.42	2014757.89	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	AT MILLION GALLON TANK	IRP
W-163	WL	I	401690.05	2014908.08	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	AT MILLION GALLON TANK	IRP
W-164	WL	I	401681.61	2014820.33	0	JEG	JEG		NA	22-MAR-9	333.	3.33	AT MILLION GALLON TANK	JCB
W24-6	SS	I	0	0	0	CNGT	NA	NA	NA	25-OCT-90			N/A	BCH
W25-3	SS	I	404930.9	2016842.05	0	CNGT	NA	NA	NA	26-OCT-90			N/A	BCH
WS-1	WL	O	398666.3	2010803.73	0	AERO	ACB	NA	Z	01-JAN-10	333.	3.33	WHITE SETTLEMENT PRODUCTION WELL	JCB
WS-12	WL	O	398149.3	2016436.73	0	AERO	UNK	NA	UN	01-JAN-99	333.	3.33	WHITE SETTLEMENT WATER WELL #12	IRP
WS-2	WL	O	403034.3	2013077.73	0	JEG	NA	NA	NA	24-OCT-91	333.	3.33	WHITE SETTLEMENT MUNICIPAL WATER	JCB
WS-3	WL	O	0	0	0	AERO	ACB	NA	Z	01-JAN-10	333.	3.33	WITE SETTLEMENT PRODUCTION WELL	JCB
WS-5	WL	O	0	0	0	JEG	JEG	NA	UN	09-SEP-99	333.	3.33	MUNICIPAL WATER SUPPLY WELL	IRP
WS-5A	WL	O	0	0	0	JEG	JEG	NA	UN	20-MAY-9	333.	3.33	WHITESETTLEMENT MUNICIPAL SUPPLY	IRP
WS-6	WL	I	400744.3	2008775.73		JEG	JEG	NA	HS	01-JAN-10			WHITESETTLEMENT MUNICIPAL SUPPLY	IRP
WS-8	WL	O	0	0	0	JEG	JEG	NA	UN	20-MAY-9	333.	3.33	WHITESETTLEMENT MUNICIPAL SUPPLY	IRP
WS-H3	WL	O	0	0	0	AERO	UNK	NA	UN	01-JAN-10	333.	3.33	LOCATION	IRP
X1	BH	I	400906.35	2014228.68	0	CNGT	LES	NA	HS	19-DEC-89	9.10	8.00	Collection and analysis of soil samples	BCH
X10	BH	I	400684.33	2014789.7	0	CNGT	LES	NA	HS	20-DEC-89	9.40	8.00	Collection and analysis of soil samples	BCH
X11	BH	I	400680.46	2014723.28	0	CNGT	LES	NA	HS	20-DEC-89	9.30	8.00	Collection and analysis of soil samples	BCH
X2	BH	I	400900.61	2014735.96	0	CNGT	LES	NA	HS	19-DEC-89	9.10	8.00	Collection and analysis of soil samples	BCH

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TABLE A6 Missing and erroneous ELEV in LDI TABLE

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCCO	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
X3	BH	I	400434.57	2014730.05	0	CNGT	LES	NA	HS	20-DEC-89	9.00	8.00	Collection and analysis of soil samples	BCH
X4	BH	I	400509.63	2014238.25	0	CNGT	LES	NA	HS	19-DEC-89	9.10	8.00	Collection and analysis of soil samples	BCH
X5	BH	I	400711.17	2014543.67	0	CNGT	LES	NA	HS	19-DEC-89	9.40	8.00	Collection and analysis of soil samples	BCH
X6	BH	I	400734.06	2014659.49	0	CNGT	LES	NA	HS	19-DEC-89	9.30	8.00	Collection and analysis of soil samples	BCH
X7	BH	I	400793.14	2014721.93	0	CNGT	LES	NA	HS	19-DEC-89	9.30	8.00	Collection and analysis of soil samples	BCH
X8	BH	I	400792.28	2014796.53	0	CNGT	LES	NA	HS	19-DEC-89	9.30	8.00	Collection and analysis of soil samples	BCH
X9	BH	I	400736.69	2014871.1	0	CNGT	LES	NA	HS	19-DEC-89	10.0	8.00	Collection and analysis of soil samples	BCH

256422

TABLE A7 Missing LTCCODE in LDI Table

5/24/95

LOCID	LTCCODE	LPRC	NCOORD	ECOORD	ELEV	ESCC	DRLC	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
C-1			401305.73	2012655.5										EXP
C-3			402933.22	2014396.5										EXP
C-4			401658.37	2013648.0										EXP
C-5			404110.91	2014705.1										EXP
F-200			405406.49	2015406.1	646									EXP
F-201			405553.32	2015404.2										EXP
F-205			402286.21	2015210.9	654.3									EXP
F-206			402186.94	2015215.0	653.7									EXP
F-210			405554.78	2015235.8	640.6									EXP
F-222			405742.74	2015301.8	636.2									EXP
F-223			405550.17	2015552.7	645.3									EXP
FSA3-1			405748.03	2015356.1										EXP
FSA3-10			405803.39	2015351.2	638.7									EXP
FSA3-11			405610.23	2015307.0	641.2									EXP
FSA3-12			405726.14	2015407.8	642									EXP
FSA3-13			405715.13	2015211.6										EXP
FSA3-14			405723.24	2015157.8										EXP
FSA3-15			405724.66	2015172.1										EXP
FSA3-16			405725.43	2015188.1										EXP
FSA3-17			405712.07	2015172.4										EXP
FSA3-2			405748.64	2015325.7	638.1									EXP
FSA3-3			405749.77	2015250.0	632.4									EXP
FSA3-4			405750.27	2015203.6	630.9									EXP
FSA3-5			405749.84	2015150.7										EXP
FSA3-6			405805.59	2015251.4	630.9									EXP
FSA3-7			405796.66	2015303	634.9									EXP
FSA3-8			405844.79	2015284.9	631.7									EXP
FSA3-9			405894.08	2015293.3										EXP
HA-1														IRP
HA-2														IRP
HA-3														IRP
HA-4														IRP
HA-5														IRP
HA-6														IRP
HM-1			400735.63	2014764.9	666.4									EXP
HM-10			402544.38	2014661.7	643.4									EXP
HM-103			400553.48	2016464.4	649.1									EXP
HM-45			401257.93	2014856.3	660.9									EXP
HM-78			405481.44	2015285.5	643.9									EXP
HM-83			405964.55	2016545.8										EXP
HM-85			406613.4	2016216.3										EXP
LA8QC		I				RAD				31-MAR-8				IRP
LW-04			404330.7	2014409.3	592.7									EXP
LW-06			404767.5	2014502.1	592.7									EXP
LW-07			404879.5	2014444.8	592.7									EXP

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LOCID	LTCCODE	LPRC	NCOORD	ECOORD	ELEV	ESCC	DRLC	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
LW-09			406251.2	2014960.7	592.7									EXP
LW-10			406531.1	2015012.3	592.7									EXP
LW-13			407664.7	2016138.2	592.7									EXP
LW-14			407790.6	2016161.1	592.7									EXP
LW-19			407682.1	2017015.4	592.7									EXP
LW-20			407741.6	2017095.6	592.7									EXP
LW-22			406724.27	2017657.9	592.7									EXP
LW-23			406956.8	2017706.6	592.7									EXP
LW-25			402780	2014329.2	592.7									EXP
LW-26			404032.2	2014723	592.7									EXP
OF-1														IRP
OLD HOLE			406003.19	2015537.4										EXP
OUT#1			399725.82	2017236.8										EXP
OUT#3			405933.1	2015175.5										EXP
OUT#4			403755.78	2014705.2										EXP
P-1			399820.61	2015462.0	650.6									EXP
P-12U			399825.16	2016281.6	643.6									EXP
P-2			400237.84	2014738.6	665.8									EXP
P-20		I				RAD				28-FEB-86				IRP
P-21		I				RAD				28-FEB-86				IRP
P-21M														IRP
P-3			406587.76	2015417.9	640.2									EXP
P-4			402646.72	2014861.4										EXP
P-5U			402808.78	2015274.3	653.8									EXP
P-8U			400972.74	2016956.9	644.5									EXP
P-9U			401758.13	2016049.2	654.6									EXP
RSB-02			402209.25	2017644.0										EXP
RSB-03			402311.33	2017647.1										EXP
RSB-04			402405.11	2017648.9										EXP
RSB-05			402497.65	2017654.2										EXP
RSB-06			402703.34	2017641.5										EXP
RSB-08			403405.95	2017665.6										EXP
RSB-10			403775.07	2017677.4										EXP
RSB-12			403771.98	2017777.1										EXP
RSB-13			403637.67	2017782.8										EXP
RSB-14			404050.46	2017622.0										EXP
RSB-15			403401.38	2017780.7										EXP
RSB-17			404244.44	2017725.5										EXP
RSB-20			400042.33	2017682.3										EXP
RSB-22			400342.73	2017685.7										EXP
RSB-26			400138.52	2017807.7										EXP
RSB-27			400373.04	2017528.3										EXP
RSB-28			400471.44	2017537.3										EXP
RSB-30			400645.07	2017649.8										EXP
RSB-33			401091.51	2017530.1										EXP

TABLE A7 Missing LTCCODE in LDI Table

5/24/95

LOCID	LTCCODE	LPRC	NCOORD	ECOORD	ELEV	ESCC	DRLC	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
RSB-34			399281.8	2019266.3										EXP
RSB-35			398279.82	2019247.3										EXP
RSB-36			397277.69	2019236.5										EXP
RSB-37			397794.52	2018787.9										EXP
RSB-38			398813.34	2018795.5										EXP
RSB-39			399739.86	2018785.8										EXP
RSB-40			399687.79	2019774.1										EXP
RSB-41			398834.1	2019763.7										EXP
RSB-42			398275.76	2019273.3										EXP
RSB-43			400951.84	2018877.7										EXP
RSB-44			401976.52	2018827.2										EXP
RSB-45			402952.31	2018849.3										EXP
RSB-46			403951.04	2018851.7										EXP
RSB-47			404964.13	2018848.4										EXP
RSB-48			405889.3	2018847.0										EXP
RSB-49			406287.43	2019393.8										EXP
RSB-50			405377.18	2019359.8										EXP
RSB-51			400272.42	2019257.9										EXP
RSB-52			406081.37	2019924.3										EXP
RSB-53			404808.43	2019915.5										EXP
RSB-54			401326.95	2019261.3										EXP
RSB-55			402314.9	2019268.3										EXP
RSB-56			403380.78	2019299.3										EXP
RSB-57			398375.3	2018785.9										EXP
RSB-58			398573.63	2018786.1										EXP
RSB-59			398797.25	2019266.6										EXP
RSB-60			400753.64	2019744.5										EXP
RSB-61			401793.69	2019759.5										EXP
RSB-62			402776.97	2019762.8										EXP
RSB-63			404061.15	2019929.8										EXP
RSB-65			398622.72	2019763.3										EXP
RSB-66			398575.16	2019267.1										EXP
RSB-67			397700.06	2019320.6										EXP
SB-1														IRP
SB-10														IRP
SB-11														IRP
SB-114			402063.13	2015281.4										EXP
SB-12														IRP
SB-141			400660.04	2014625.1										EXP
SB-150			400162.22	2014995.5									DYCP	EXP
SB-2														IRP
SB-3														IRP
SB-4														IRP
SB-5														IRP
SB-6														IRP

TABLE A7 Missi... LTCCODE in LDI Table

...4/95

LOCID	LTCCODE	LPRC	NCOORD	ECOORD	ELEV	ESCC	DRLC	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SB-7														IRP
SB-8														IRP
SB-9														IRP
SG-20														IRP
SG-21														IRP
SG-22														IRP
SG-23														IRP
SG-24														IRP
SG-25														IRP
SG-26														IRP
SG-27														IRP
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SG-56														IRP
SG-57														IRP
SG-58														IRP
SG-59														IRP
SG-60														IRP
SG-61														IRP

LOCID	LTCCODE	LPRC	NCOORD	ECOORD	ELEV	ESCC	DRLC	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SG-62														IRP
SG-63														IRP
SG-64														IRP
SG-65														IRP
SG-66														IRP
SG-67														IRP
SG-68														IRP
SG-69														IRP
SG-70														IRP
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SG-87														IRP
SG-88														IRP
SG-89														IRP
SG-90														IRP
ST5			402848.92	2014401.4										EXP
SW-04			402165	2014170	612									EXP

259427

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	source
C-1			401305.73	2012655.5										EXP
C-3			402933.22	2014396.5										EXP
C-4			401658.37	2013648.0										EXP
C-5			404110.91	2014705.1										EXP
EPA-1	WL	I	399043.48	2015963.8	640		NA	NA	NA	01-JAN-10				IRP
EPA-2	WL	I	399178.66	2014978.0	650.8		NA	NA	NA	01-JAN-10				IRP
EPA-3	WL	I	399438.13	2013585.0	661.1		NA	NA	NA	01-JAN-10				IRP
EPA-4	WL	I	400243.2	2012167.7	686.3		NA	NA	NA	01-JAN-10				IRP
F-200			405406.49	2015406.1	646									EXP
F-201			405553.32	2015404.2										EXP
F-205			402286.21	2015210.9	654.3									EXP
F-206			402186.94	2015215.0	653.7									EXP
F-210			405554.78	2015235.8	640.6									EXP
F-222			405742.74	2015301.8	636.2									EXP
F-223			405550.17	2015552.7	645.3									EXP
FSA3-1			405748.03	2015356.1										EXP
FSA3-10			405803.39	2015351.2	638.7									EXP
FSA3-11			405610.23	2015307.0	641.2									EXP
FSA3-12			405726.14	2015407.8	642									EXP
FSA3-13			405715.13	2015211.6										EXP
FSA3-14			405723.24	2015157.8										EXP
FSA3-15			405724.66	2015172.1										EXP
FSA3-16			405725.43	2015188.1										EXP
FSA3-17			405712.07	2015172.4										EXP
FSA3-2			405748.64	2015325.7	638.1									EXP
FSA3-3			405749.77	2015250.0	632.4									EXP
FSA3-4			405750.27	2015203.6	630.9									EXP
FSA3-5			405749.84	2015150.7										EXP
FSA3-6			405805.59	2015251.4	630.9									EXP
FSA3-7			405796.66	2015303	634.9									EXP
FSA3-8			405844.79	2015284.9	631.7									EXP
FSA3-9			405894.08	2015293.3										EXP
HA-1														IRP
HA-2														IRP
HA-3														IRP
HA-4														IRP
HA-5														IRP
HA-6														IRP
HM-1			400735.63	2014764.9	666.4									EXP
HM-10			402544.38	2014661.7	643.4									EXP
HM-103			400553.48	2016464.4	649.1									EXP
HM-3A	WL	I	0	0			NA	NA	NA	01-JAN-10				IRP
HM-3B	WL		400110.11	2014939.5	654.5									EXP
HM-45			401257.93	2014856.3	660.9									EXP
HM-4A	WL		399983.11	2014938.4	653.8									EXP

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	source
HM-4B	WL		399977.11	2014938.3	653.8									EXP
HM-6	WL	I	402805.08	2014720.6	641.1	RAD	SWL	NA	HS	08-DEC-82				IRP
HM-78			405481.44	2015285.5	643.9									EXP
HM-83			405964.55	2016545.8										EXP
HM-85			406613.4	2016216.3										EXP
LABQC		I				RAD				31-MAR-8				IRP
LW-04			404330.7	2014409.3	592.7									EXP
LW-06			404767.5	2014502.1	592.7									EXP
LW-07			404879.5	2014444.8	592.7									EXP
LW-09			406251.2	2014960.7	592.7									EXP
LW-10			406531.1	2015012.3	592.7									EXP
LW-13			407664.7	2016138.2	592.7									EXP
LW-14			407790.6	2016161.1	592.7									EXP
LW-19			407682.1	2017015.4	592.7									EXP
LW-20			407741.6	2017095.6	592.7									EXP
LW-22			406724.27	2017657.9	592.7									EXP
LW-23			406956.8	2017706.6	592.7									EXP
LW-25			402780	2014329.2	592.7									EXP
LW-26			404032.2	2014723	592.7									EXP
OF-1														IRP
OLD HOLE			406003.19	2015537.4										EXP
OUT#1			399725.82	2017236.8										EXP
OUT#3			405933.1	2015175.5										EXP
OUT#4			403755.78	2014705.2										EXP
P-1			399820.61	2015462.0	650.6									EXP
P-12U			399825.16	2016281.6	643.6									EXP
P-2			400237.84	2014738.6	665.8									EXP
P-20		I				RAD				28-FEB-86				IRP
P-21		I				RAD				28-FEB-86				IRP
P-21M														IRP
P-3			406587.76	2015417.9	640.2									EXP
P-4			402646.72	2014861.4										EXP
P-5U			402808.78	2015274.3	653.8									EXP
P-8U			400972.74	2016956.9	644.5									EXP
P-9U			401758.13	2016049.2	654.6									EXP
P3-C	WL		0	0	0	ESCI				12/12/93	0	0		PES
RSB-02			402209.25	2017644.0										EXP
RSB-03			402311.33	2017647.1										EXP
RSB-04			402405.11	2017648.9										EXP
RSB-05			402497.65	2017654.2										EXP
RSB-06			402703.34	2017641.5										EXP
RSB-08			403405.95	2017665.6										EXP
RSB-10			403775.07	2017677.4										EXP
RSB-12			403771.98	2017777.1										EXP
RSB-13			403637.67	20177B2.8										EXP

258439

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	source
RSB-14			404050.46	2017622.0										EXP
RSB-15			403401.38	2017780.7										EXP
RSB-17			404244.44	2017725.5										EXP
RSB-20			400042.33	2017682.3										EXP
RSB-22			400342.73	2017685.7										EXP
RSB-26			400138.52	2017807.7										EXP
RSB-27			400373.04	2017528.3										EXP
RSB-28			400471.44	2017537.3										EXP
RSB-30			400645.07	2017649.8										EXP
RSB-33			401091.51	2017530.1										EXP
RSB-34			399281.8	2019266.3										EXP
RSB-35			398279.82	2019247.3										EXP
RSB-36			397277.69	2019236.5										EXP
RSB-37			397794.52	2018787.9										EXP
RSB-38			398813.34	2018795.5										EXP
RSB-39			399739.86	2018785.8										EXP
RSB-40			399687.79	2019774.1										EXP
RSB-41			398834.1	2019763.7										EXP
RSB-42			398275.76	2019273.3										EXP
RSB-43			400951.84	2018877.7										EXP
RSB-44			401976.52	2018827.2										EXP
RSB-45			402952.31	2018849.3										EXP
RSB-46			403951.04	2018851.7										EXP
RSB-47			404964.13	2018848.4										EXP
RSB-48			405889.3	2018847.0										EXP
RSB-49			406287.43	2019393.8										EXP
RSB-50			405377.18	2019359.8										EXP
RSB-51			400272.42	2019257.9										EXP
RSB-52			406081.37	2019924.3										EXP
RSB-53			404808.43	2019915.5										EXP
RSB-54			401326.95	2019261.3										EXP
RSB-55			402314.9	2019268.3										EXP
RSB-56			403380.78	2019299.3										EXP
RSB-57			398375.3	2018785.9										EXP
RSB-58			398573.63	2018786.1										EXP
RSB-59			398797.25	2019266.6										EXP
RSB-60			400753.64	2019744.5										EXP
RSB-61			401793.69	2019759.5										EXP
RSB-62			402776.97	2019762.8										EXP
RSB-63			404061.15	2019929.8										EXP
RSB-65			398622.72	2019763.3										EXP
RSB-66			398575.16	2019267.1										EXP
RSB-67			397700.06	2019320.6										EXP
SB-1														IRP
SB-10														IRP

TABLE A8 Missing DEPTH in LDI TABLE

5/24/95

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	source
SB-11														IRP
SB-114			402063.13	2015281.4										EXP
SB-12														IRP
SB-141			400660.04	2014625.1										EXP
SB-150			400162.22	2014995.5									DYCP	EXP
SB-2														IRP
SB-3														IRP
SB-4														IRP
SB-5														IRP
SB-6														IRP
SB-7														IRP
SB-8														IRP
SB-9														IRP
SG-20														IRP
SG-21														IRP
SG-22														IRP
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SG-26														IRP
SG-27														IRP
SG-28														IRP
SG-29														IRP
SG-30														IRP
SG-31														IRP
SG-32														IRP
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SG-45														IRP
SG-46														IRP
SG-47														IRP
SG-48														IRP
SG-49														IRP
SG-50														IRP
SG-51														IRP

139131

LOCID	LTCCO	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPTH	BHDI	LOCDESC	source
SG-52														IRP
SG-53														IRP
SG-54														IRP
SG-55														IRP
SG-56														IRP
SG-57														IRP
SG-58														IRP
SG-59														IRP
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SG-61														IRP
SG-62														IRP
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SG-87														IRP
SG-88														IRP
SG-89														IRP
SG-90														IRP
ST5			402848.92	2014401.4										EXP
SW-04			402165	2014170	612									EXP
WS-6	WL	I	400744.3	2008775.7		JEG	JEG	NA	HS	01-JAN-10			WHITESETTLEMENT MUNICIPAL SUPPLY	IRP

259132

LOCID
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8A-106
8A-107
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259134

LOCID
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FSA3-9
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FT08-11B
FT09-12A
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GMI-04M
GMI-05M
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HM-18
HM-19
HM-2
HM-20
HM-21
HM-22

TABLE A9 Unique LOCID in LTD Table

LOCID
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HM-82
HM-83

259136

LOCID
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HM-93
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HM-96
HM-97
HM-98
HM-99
LF04-01
LF04-02
LF04-04
LF05-01
LF05-19
LF05-5A
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OW-2
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P-11M
P-11U
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P-21U
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P-22U
P-23U
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P-26U
P-27U

LOCID
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P-9US
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PZ-7
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RSB-48

259138

LOCID
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SB-052
SB-053

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LOCID
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SB-071
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SB-077
SB-080
SB-081
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SB-083
SB-084
SB-086
SB-087
SB-088
SB-089
SB-090
SB-091
SB-092
SB-093
SB-094
SB-095
SB-096
SB-097
SB-098
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SB-10(86)
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SB-102
SB-104
SB-105
SB-106
SB-107
SB-108
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SB-115
SB-116
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SB-126
SB-127
SB-128
SB-129
SB-130

LOCID
SB-136
SB-138
SB-139
SB-140
SB-144
SB-145
SB-148
SB-149
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SB-3(86)
SB-4(86)
SB-5(86)
SB-6(86)
SB-7(86)
SB-8(86)
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USGS02T
USGS03T
USGS04T
USGS05P
USGS06P
USGS06T
USGS07P
USGS07T
USGS08PL
USGS08PM
USGS08PU
USGS09PL
USGS09PM
USGS09PU
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UZB-2
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W-128U
W-129
W-130
W-131L
W-131U
W-132
W-133L
W-133U
W-134
W-135
W-136
W-137
W-139L
W-139U
W-140
W-141L
W-141U
W-143
W-144
W-145
W-146
W-147
W-148
W-149
W-150L
W-150U
W-151
W-152
W-153

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LOCID
W-154
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W-156
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W-158
W-159
W-160
WP07-10A
WS-1
WS-12
WS-2
WS-3
X1
X10
X11
X2
X3
X4
X5
X6
X7
X8
X9

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LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
8A-105	0	0.6	2
8A-105	0.6	2.4	2
8A-105	2.4	54	2
8A-106	0	0.7	2
8A-106	0.7	1.8	2
8A-106	1.8	8	2
8A-106	8	10.5	2
8A-106	10.5	14	2
8A-106	14	16.5	2
8A-106	16.5	44	2
8A-106	44	52	2
8A-107	0	0.6	2
8A-107	0.6	1.4	2
8A-107	1.4	6.5	2
8A-107	6.5	9	2
8A-107	9	13	2
8A-107	13	15.5	2
8A-107	15.5	45	2
8A-108	0	0.6	2
8A-108	0.6	2.5	2
8A-108	2.5	9.5	2
8A-108	9.5	12.5	2
8A-108	12.5	17.5	2
8A-108	17.5	19	2
8A-108	19	21	2
8A-108	21	23.5	2
8A-88	0	0.3	2
8A-88	0.3	3.5	2
8A-88	3.5	6.5	2
8A-88	6.5	8	2
8A-88	8	9	2
8A-88	9	10.5	2
8A-88	10.5	12.5	2
8A-88	12.5	14.5	2
8A-88	14.5	16	2
8A-88	16	18	2
8A-89	0	0.2	2
8A-89	0.2	3	2
8A-89	3	5	2
8A-89	5	14	2
8A-89	14	24.5	2
8A-89	24.5	32	2
8A-89	32	34.5	2
8A-90	0	0.3	2
8A-90	0.3	3.5	2
8A-90	3.5	7	2
8A-90	7	18.5	2
8A-90	18.5	21	2
8A-90	21	27	2
8A-91	0	0.3	2
8A-91	0.3	3	2
8A-91	3	9.5	2
8A-91	9.5	26.5	2
8A-92	0	0.3	2
8A-92	0.3	2.5	2
8A-92	2.5	5.5	2
8A-92	5.5	16.5	2
8A-92	16.5	22.5	2
8A-92	22.5	23.5	2
8A-93	0	0.3	2
8A-93	0.3	1.5	2
8A-93	1.5	6	2

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LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
8A-93	6	11	2
8A-93	11	29.2	2
8A-94	0	0.5	2
8A-94	0.5	4.5	2
8A-94	4.5	19	2
8A-95	0	0.5	2
8A-95	0.5	4	2
8A-95	4	7.5	2
8A-95	7.5	17	2
8A-95	17	19.5	2
8A-95	19.5	22	2
8A-95	22	41	2
8A-96	0	0.3	2
8A-96	0.3	2.4	2
8A-96	2.4	6.5	2
8A-96	6.5	9	2
8A-96	9	14.5	2
8A-96	14.5	31.5	2
8A-97	0	0.3	2
8A-97	0.3	4.5	2
8A-97	4.5	24.5	2
8A-97	24.5	34	2
8A-97	34	35	2
8A-98	0	0.3	2
8A-98	0.3	1.5	2
8A-98	1.5	3.5	2
8A-98	3.5	4.5	2
8A-99	0	0.4	2
8A-99	0.4	2.5	2
8A-99	2.5	4	2
8A3F-109	0	0.5	2
8A3F-109	0.5	2	2
8A3F-109	2	35	2
8A3F-109	35	47.5	2
8A3F-109	47.5	49.5	2
8A3F-110	0	0.4	2
8A3F-110	0.4	1.7	2
8A3F-110	1.7	5.3	2
8A3F-110	5.3	35	2
8A3F-110	35	46	2
8A3F-110	46	57	2
8A3F-110	57	58.5	2
8A3F-110	58.5	61.2	2
8A3F-110	61.2	73	2
8A3F-110	73	85.5	2
8A3F-110	85.5	106	2
8A3F-110	106	112	2
8A3F-110	112	166	2
8A3F-110	166	167.5	2
8A3F-110	167.5	230	2
8A3F-110	230	236	2
8A3F-110	236	238	2
8A4C-100	0	0.4	2
8A4C-100	0.4	4	2
8A4C-100	4	33.5	2
8A4C-100	33.5	48	2
8A4C-100	48	52	2
8A4C-101	0	0.5	2
8A4C-101	0.5	1.2	2
8A4C-101	1.2	4	2
8A4C-101	4	21	2
8A4C-101	21	23	2

TABLE A10 Duplicate Record Count for given LOCID in LTD Table

LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
8A4C-101	23	35	2
8A4C-101	35	44.5	2
8A4C-101	44.5	47.5	2
8A4C-101	47.5	51.5	2
8A4C-102	0	0.2	2
8A4C-102	0.2	1	2
8A4C-102	1	6.5	2
8A4C-102	6.5	44	2
8A4C-102	44	60.5	2
8A4C-102	60.5	61.4	2
8A4C-102	61.4	61.8	2
8A4C-102	61.8	62.4	2
8A4C-102	62.4	63.1	2
8A4C-102	63.1	66.5	2
8A4C-102	66.5	77.6	2
8A4C-102	77.6	80	2
8A4C-103	0	0.5	2
8A4C-103	0.5	1.5	2
8A4C-103	1.5	3	2
8A4C-103	3	10.6	2
8A4C-103	10.6	27	2
8A4C-103	27	33	2
8A4C-103	33	57	2
8A4C-103	57	60.5	2
8A4C-103	62.4	65	2
8A4C-104	0	0.5	2
8A4C-104	0.5	2.5	2
8A4C-104	2.5	35.7	2
8A4C-104	35.7	40.7	2
8A4C-83	0	0.6	2
8A4C-83	0.6	1.1	2
8A4C-83	1.1	7	2
8A4C-83	7	19.5	2
8A4C-83	19.5	32	2
8A4C-83	32	38.1	2
8A4C-84	0	0.6	2
8A4C-84	0.6	1.4	2
8A4C-84	1.4	7	2
8A4C-84	7	11	2
8A4C-84	11	14	2
8A4C-84	14	17.4	2
8A4C-84	17.4	23	2
8A4C-84	23	26	2
8A4C-84	26	29	2
8A4C-84	29	46	2
8A4C-84	46	48	2
8A4C-84	48	61.5	2
8A4C-84	61.5	62	2
8A4C-85	0	0.4	2
8A4C-85	0.4	4.3	2
8A4C-85	4.3	9	2
8A4C-85	9	17	2
8A4C-85	17	29	2
8A4C-85	29	32	2
8A4C-85	32	52	2
8A4C-85	52	59	2
8A4C-85	59	60.5	2
8A4C-85	60.5	62.4	2
8A4C-85	62.4	63.8	2
8A4C-85	63.8	64.9	2
8A4C-85	64.9	65.5	2
8A4C-86	0	0.4	2

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LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
8A4C-86	0.4	2.4	2
8A4C-86	2.4	3.1	2
8A4C-86	3.1	4.5	2
8A4C-86	4.5	6.5	2
8A4C-86	6.5	7.7	2
8A4C-86	7.7	10	2
8A4C-86	10	15	2
8A4C-86	15	50	2
8A4C-87	0	0.4	2
8A4C-87	0.4	2.5	2
8A4C-87	2.5	6	2
8A4C-87	6	37.5	2
8A4C-87	37.5	41.5	2
FT08-11A	0	0	2
FT08-11B	0	0	2
FT09-12A	0	0	2
HM-100	0	0	2
HM-100	0	9	2
HM-100	9	15	2
HM-100	15	24	2
HM-100	24	34	2
HM-100	34	49	2
HM-103	0	9	2
HM-103	9	35	2
HM-103	35	39	3
HM-104	0	3	2
HM-104	0	10	2
HM-104	3	5	2
HM-104	5	16	2
HM-104	10	16	2
HM-104	16	36	3
HM-104	36	39	3
HM-110	0	4	3
HM-110	4	20	3
HM-110	20	28.5	3
HM-110	28.5	32.5	3
HM-110	32.5	34	3
HM-110	34	37	3
HM-112	0	25	2
HM-112	25	27	2
HM-112	27	45	2
HM-112	45	50.5	2
HM-112	50.5	50.75	2
HM-114	0	0.5	3
HM-114	0.5	7	3
HM-114	7	12	3
HM-114	12	25	3
HM-114	25	36.5	3
HM-116	0	0.5	3
HM-116	0.5	4	3
HM-116	4	6	3
HM-116	6	20	3
HM-116	20	31.5	3
HM-116	31.5	32	3
HM-116	32	33	3
HM-118	0	0.5	2
HM-118	0.5	10	2
HM-118	10	13.5	2
HM-118	13.5	14	2
HM-118	14	18	2
HM-118	18	27	2
HM-118	27	27	2

LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
HM-119	0	0.5	3
HM-119	0.5	1.5	3
HM-119	1.5	4	3
HM-119	4	6	3
HM-119	6	9	3
HM-119	9	14	3
HM-119	14	26	3
HM-119	26	32	3
HM-120	0	0.5	3
HM-120	0.5	3	3
HM-120	3	9	3
HM-120	9	11.5	3
HM-120	11.5	14	3
HM-120	14	19	3
HM-120	19	20	3
HM-121	0	0.5	2
HM-121	0.5	3	2
HM-121	3	11	2
HM-121	11	16.5	2
HM-121	16.5	24	2
HM-121	24	30	2
HM-121	30	31.5	2
HM-125	0	0.5	3
HM-125	0.5	18	3
HM-125	18	19	3
HM-125	19	25	3
HM-125	25	27	3
HM-125	27	33	3
HM-125	33	33	2
HM-127	0	0.5	2
HM-127	0.5	2	2
HM-127	2	3	2
HM-127	3	11	2
HM-127	11	20	2
HM-127	20	25	2
HM-127	25	36	2
HM-127	36	38.5	2
HM-24	0	4	3
HM-24	4	7.5	2
HM-24	4	8	2
HM-24	7.5	13.5	2
HM-24	8	14	2
HM-24	13.5	16	2
HM-24	14	16	2
HM-24	16	17	3
HM-24	17	20	3
HM-24	20	22	3
HM-24	22	24	3
HM-24	24	28	3
HM-24	28	30	3
HM-24	30	34	3
HM-24	34	36	3
HM-24	36	43	3
HM-30	0	12	3
HM-30	12	22	3
HM-30	22	24	2
HM-30	22	24.5	2
HM-30	24	26	2
HM-30	24.5	26	2
HM-30	26	28	3
HM-30	28	30	3
HM-30	30	32	3

LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
HM-30	32	34	3
HM-30	34	36	3
HM-30	36	38	3
HM-30	38	40	3
HM-30	40	44	3
HM-30	44	46	3
HM-30	46	54	3
HM-31	0	6	3
HM-31	6	8	3
HM-31	8	10	3
HM-31	10	16	3
HM-31	16	19	3
HM-31	19	32	3
HM-31	32	36	3
HM-31	36	39	2
HM-31	36	41	2
HM-98	0	1	2
HM-98	1	6.5	2
HM-98	6.5	14	2
HM-98	14	19	2
HM-98	19	25	2
HM-98	25	31	2
HM-98	31	31.5	2
HM-99	0	5	2
HM-99	5	9	2
HM-99	9	11	2
HM-99	11	27	2
HM-99	27	38.5	2
HM-99	38.5	44	2
LF04-01	0	4	2
LF04-01	4	12.3	2
LF04-01	12.3	16	2
LF04-01	16	19	2
LF04-01	19	25	2
LF04-01	25	32	2
LF04-01	32	34	2
LF04-01	34	40	2
LF04-01	40	40.1	2
LF04-02	0	11	2
LF04-02	11	37	2
LF04-02	37	37.7	2
LF04-04	0	1.5	2
LF04-04	1.5	10	2
LF04-04	10	25	2
LF04-04	25	25.4	2
LF05-19	0	2	3
LF05-19	2	6	3
LF05-19	6	6.3	3
LF05-19	6.3	20	2
LF05-19	6.3	20.5	2
LF05-19	20	20.8	2
LF05-19	20.5	20.8	2
LF05-5A	0	0	2
P-10M	0	2	3
P-10M	2	28	3
P-10M	28	53	3
P-10M	53	87	3
P-10M	87	129	3
P-10M	129	134	3
P-11M	0	0.3	2
P-11M	0.3	4.8	2
P-11M	4.8	7	2

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LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
P-11M	7	12.7	2
P-11M	12.7	54	2
P-11M	54	54.8	2
P-11M	54.8	61.5	2
P-11M	61.5	71	2
P-11M	71	153.3	2
P-11M	153.3	165.4	2
P-11U	0	0.3	2
P-11U	0.3	2.4	2
P-11U	2.4	6.5	2
P-11U	6.5	8.3	2
P-11U	8.3	12.3	2
P-11U	12.3	31	2
P-11U	31	53.5	2
P-11U	53.5	54	2
P-11U	54	59.8	2
P-11U	59.8	63.8	2
P-11U	63.8	70.1	2
P-11U	70.1	93	2
P-12M	0	1	2
P-12M	1	3.5	2
P-12M	3.5	8.7	2
P-12M	8.7	9.5	2
P-12M	9.5	54.4	2
P-12M	54	55	2
P-12M	55	58.8	2
P-12M	58.8	72.6	2
P-12M	72.6	155.5	2
P-12UN	0	1.5	2
P-12UN	1.5	8	2
P-12UN	8	15	2
P-12UN	15	58	2
P-12UN	58	58.5	2
P-12UN	58.5	61	2
P-12UN	61	70.5	2
P-12UN	70.5	77	2
P-12UN	77	78	2
P-12UN	78	97	2
P-12US	0	3	2
P-12US	3	8.5	2
P-12US	8.5	9.5	2
P-12US	9.5	54.5	2
P-12US	54.5	55	2
P-12US	55	59	2
P-12US	59	73	2
P-12US	73	92	2
P-13M	0	6.5	2
P-13M	6.5	8.5	2
P-13M	8.5	14	2
P-13M	14	26	2
P-13M	26	55.5	2
P-13M	55.5	56	2
P-13M	56	64	2
P-13M	64	72	2
P-13M	72	110	2
P-13M	110	167.7	2
P-13M	167.7	167.8	2
P-13U	0	6.9	2
P-13U	6.9	8.9	2
P-13U	8.9	14.4	2
P-13U	14.4	26	2
P-13U	26	28.3	2

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LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
P-13U	28.3	55.3	2
P-13U	55.3	56	2
P-13U	56	63.7	2
P-13U	63.7	72	2
P-13U	72	76	2
P-13U	76	90.5	2
P-14US	0	0.5	3
P-14US	0.5	32.5	3
P-14US	32.5	51.5	3
P-14US	51.5	52	3
P-14US	52	53.9	3
P-14US	53.9	60.5	3
P-14US	60.5	68.5	3
P-14US	68.5	70	3
P-15UN	0	15	2
P-15UN	15	18	2
P-15UN	18	22	2
P-15UN	22	42	2
P-15UN	42	48	2
P-15UN	48	53	2
P-15UN	53	55	2
P-15UN	55	61	2
P-15UN	61	67	2
P-15UN	67	69	2
P-15UN	69	75	2
P-15UN	75	82	2
P-15UN	82	89	2
P-15UN	89	95	2
P-15UN	95	122	2
P-15US	0	10	2
P-15US	10	12	2
P-15US	12	20	2
P-15US	20	32	2
P-15US	32	42	2
P-15US	42	52	2
P-15US	52	61	2
P-15US	61	63	2
P-15US	63	68	2
P-15US	68	69	2
P-16US	0	4	3
P-16US	4	19.5	3
P-16US	19.5	28	3
P-16US	28	56	3
P-16US	56	59.75	3
P-16US	59.75	62	3
P-16US	62	64.75	3
P-16US	64.75	69	2
P-16US	64.75	70.5	2
P-17US	0	2	2
P-17US	2	7	2
P-17US	7	44.5	2
P-17US	44.5	46.75	2
P-17US	46.75	52.5	2
P-17US	52.5	54	2
P-17US	54	58.25	2
P-17US	58.25	60.5	2
P-17US	60.5	71	2
P-18US	0	3	3
P-18US	3	4	3
P-18US	4	20	3
P-18US	20	36	3
P-18US	36	43	3

LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
P-18US	43	45.5	3
P-18US	45.5	60.5	3
P-18US	60.5	67	3
P-18US	67	68	3
P-18US	68	73.5	3
P-18US	73.5	75	3
P-19US	0	19	3
P-19US	19	31	3
P-19US	31	46	3
P-19US	46	51.5	3
P-19US	51.5	56	3
P-19US	56	58	3
P-19US	58	69.5	3
P-19US	69.5	70.5	3
P-20M	0	1	3
P-20M	1	40	3
P-20M	40	69	3
P-20M	69	73.5	3
P-20M	73.5	111.5	3
P-20M	111.5	122.5	3
P-20M	122.5	140	3
P-20M	140	155	3
P-21U	0	12.5	2
P-21U	12.5	17.5	2
P-21U	17.5	37	2
P-21U	37	42.5	2
P-21U	42.5	60	2
P-21U	60	70	2
P-21U	70	76	2
P-21U	76	82.5	2
P-21U	82.5	100	2
P-21U	100	102.5	2
P-21U	102.5	110	2
P-22M	0	4	2
P-22M	4	6	2
P-22M	6	31	2
P-22M	31	55	2
P-22M	55	61	2
P-22M	61	80	2
P-22M	80	133	2
P-22M	133	136	2
P-23U	0	25	2
P-23U	25	34	2
P-23U	34	55.3	2
P-24M	0	26.5	3
P-24M	26.5	56	3
P-24M	56	72	3
P-24M	72	131.5	3
P-24M	131.5	134	2
P-24U	0	25	2
P-24U	25	56	2
P-24U	56	61	2
P-25M	0	32	4
P-25M	32	57.5	4
P-25M	57.5	58.5	4
P-25M	58.5	64	4
P-25M	64	66	4
P-25M	66	69	4
P-25M	69	74	4
P-25M	74	76	4
P-25M	76	80	4
P-25M	80	82	4

LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
P-25M	82	91.5	4
P-25M	91.5	100	4
P-25M	100	111	4
P-25M	111	125	4
P-25M	125	158	4
P-25M	158	160	4
P-25U	0	12	2
P-25U	12	24	2
P-25U	24	32	2
P-25U	32	33	2
P-25U	33	35	2
P-25U	35	37	2
P-25U	37	44	2
P-25U	44	55	2
P-25U	55	57.5	2
P-25U	57.5	61	2
P-25U	61	68	2
P-25U	68	80	2
P-25U	80	91	2
P-25U	91	102	2
P-25U	102	114	2
P-25U	114	115	2
P-26M	0	2	2
P-26M	2	5	2
P-26M	5	12	2
P-26M	12	21	2
P-26M	21	24	2
P-26M	24	36	2
P-26M	36	41	2
P-26M	41	52	2
P-26M	52	80	2
P-26M	80	94	2
P-26M	94	106	2
P-26M	106	112	2
P-26M	112	120	2
P-26M	120	134	2
P-26M	134	167	2
P-26M	167	171.5	2
P-27U	0	0.5	3
P-27U	0.5	28	2
P-27U	28	34	3
P-27U	34	65	3
P-27U	65	66	2
P-27U	66	75	2
P-27U	75	77	2
P-27U	77	79	2
P-27U	79	80	2
P-27U	80	96	2
P-27U	96	97	3
P-27U	97	100	3
P-29M	0	2	4
P-29M	2	4	4
P-29M	4	24.2	3
P-29M	24.2	26	2
P-29M	24.2	27	2
P-29M	26	27	2
P-29M	27	28.2	3
P-29M	28.2	30	3
P-29M	30	30.2	2
P-29M	30	34	2
P-29M	30.2	34	2
P-29M	34	36	3

LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
P-29M	36	37.5	3
P-29M	37.5	38	3
P-29M	38	39.2	2
P-29M	38	40	2
P-29M	39.2	48.6	2
P-29M	40	48.6	2
P-29M	48.6	50	3
P-29M	50	56	3
P-29M	56	70	3
P-29M	70	75	3
P-29M	75	80.3	3
P-29M	80.3	82.2	3
P-29M	82.2	84.4	3
P-29M	84.4	88.5	3
P-29M	88.5	90	3
P-29M	90	93.2	3
P-29M	93.2	100	3
P-29M	100	110	2
P-29M	100	132.5	2
P-29M	110	120	2
P-29M	120	132.5	2
P-29M	132.5	135	3
P-29M	135	136.5	3
P-29M	136.5	137.2	3
P-29M	137.2	139.2	3
P-29M	139.2	140	3
P-30M	0	5	2
P-30M	0	21	2
P-30M	5	8	2
P-30M	8	10	2
P-30M	10	12	2
P-30M	12	21	3
P-30M	21	29	4
P-30M	29	34	2
P-30M	29	54	2
P-30M	34	38.8	2
P-30M	38.8	53.5	2
P-30M	53.5	59	2
P-30M	54	72	2
P-30M	59	63.5	2
P-30M	63.5	71.5	2
P-30M	71.5	79.5	2
P-30M	74	79.5	2
P-30M	79.5	82.8	2
P-30M	79.5	83	2
P-30M	82.8	100	2
P-30M	83	120	2
P-30M	100	101	2
P-30M	101	102	2
P-30M	102	103	2
P-30M	103	104	2
P-30M	104	105	2
P-30M	105	108	2
P-30M	108	113.25	2
P-30M	113.25	115.5	2
P-30M	115.5	116.8	2
P-30M	116.8	120	2
P-30M	120	121	3
P-30M	121	137.5	3
P-30M	137.5	137.75	2
P-30M	137.5	137.8	2
P-30M	137.75	153.5	2

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LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
P-30M	137.8	154	2
P-30M	153.5	157	2
P-30M	154	154.8	2
P-30M	154.8	155.25	2
P-30M	155.25	157	2
P-5M	0	4	3
P-5M	4	8	3
P-5M	8	9	3
P-5M	9	13	3
P-5M	13	15	3
P-5M	15	18	3
P-5M	18	20	3
P-5M	20	28	3
P-5M	28	31	3
P-5M	31	62	3
P-5M	62	71	3
P-5M	71	77	3
P-5M	77	81	3
P-5M	81	87	3
P-5M	87	91	3
P-5M	91	95	3
P-5M	95	107	3
P-5M	107	115	3
P-5M	115	126	3
P-5M	126	127	3
P-5M	127	133	3
P-5M	133	135	3
P-5M	135	141	3
P-5M	141	143	3
P-5M	143	147	3
P-5M	147	149	3
P-5M	149	153	3
P-5M	153	157	2
P-5M	153	158	2
P-5M	157	162	2
P-5M	158	162	2
P-6M	0	8	2
P-6M	8	11	2
P-6M	11	13	2
P-6M	13	24.5	2
P-6M	24.5	26.5	2
P-6M	26.5	30.5	2
P-6M	30.5	58	2
P-6M	58	60.5	2
P-6M	60.5	65	2
P-6M	65	70	2
P-6M	70	73	2
P-6M	73	77	2
P-6M	77	86	2
P-6M	86	93	2
P-6M	93	105	2
P-6M	105	110	2
P-6M	110	164	2
P-6M	164	167	2
P-6M	167	169	2
P-6U	0	1	3
P-6U	1	4	3
P-6U	4	8	2
P-6U	9	10	3
P-6U	10	12	3
P-6U	12	17	3
P-6U	17	23	3

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LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
P-6U	23	26	3
P-6U	26	28	3
P-6U	28	32	3
P-6U	32	33	2
P-6U	33	60	2
P-6U	60	61	3
P-6U	61	64	3
P-6U	64	66	3
P-6U	66	80	3
P-6U	80	95	3
P-6U	95	98	2
P-6U	98	100	2
P-7U	0	1	3
P-7U	1	5	3
P-7U	5	8	3
P-7U	8	10	3
P-7U	10	11	3
P-7U	11	13	2
P-7U	13	14	2
P-7U	14	16	3
P-7U	16	19	3
P-7U	19	24	3
P-7U	24	27	3
P-7U	27	32	2
P-7U	32	33	2
P-7U	33	35	2
P-7U	35	64	2
P-7U	64	106	2
P-7U	106	107	3
P-7U	107	110	2
P-7U	110	111	2
P-8US	0	20	2
P-8US	20	32	2
P-8US	32	38	2
P-8US	38	58	2
P-8US	58	65	2
P-8US	65	72	2
P-8US	72	84	2
P-8US	84	92	2
P-9M	0	4	3
P-9M	4	14	3
P-9M	14	36	3
P-9M	36	61	3
P-9M	61	64	3
P-9M	64	118	3
P-9M	118	121	3
P-9M	121	128	3
P-9M	128	166	3
P-9M	166	168	3
P-9UN	0	0.5	2
P-9UN	0.5	2	2
P-9UN	2	7	2
P-9UN	7	27	2
P-9UN	27	36	2
P-9UN	36	63	2
P-9UN	63	82	2
P-9UN	82	109	2
P-9UN	109	112	2
P-9US	0	6	3
P-9US	6	18	3
P-9US	18	24	3
P-9US	24	35	3

LOCID Field	BEGDEPTH Field	ENDDEPTH Field	NumberOfDups
P-9US	35	39.5	2
P-9US	35	40	2
P-9US	39.5	62	2
P-9US	40	62	2
P-9US	62	118	3
W-151	0	16.8	2
W-151	16.8	20	3
W-151	20	30	3
W-151	30	32	3
W-151	32	35	2
W-151	35	35.5	2
W-151	35.5	36.5	2
W-151	36.5	37	2
W-151	37	39.5	2
W-151	39.5	40	2
W-151	40	41.5	2
W-151	41.5	42	2
W-151	42	43.9	2
W-151	43.9	44	2
W-151	44	46	2
W-151	46	47.5	2
W-151	47.5	48.3	3
W-151	48.3	54	2
W-151	54	57.5	2
W-151	57.5	58.8	3
W-152	0	1.3	2
W-152	1.3	2.3	2
W-152	2.3	4.5	2
W-152	4.5	10	2
W-152	10	14	2
W-152	14	17.4	2
W-152	17.4	17.8	2
W-152	17.8	18	2
W-152	18	18.6	2
W-152	18.6	26.3	2
W-152	26.3	30	2
W-152	30	36.1	2
WS-1	0	0	2
WS-12	0	0	2
WS-2	0	0	2
WS-3	0	0	2

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
8A-105		2/21/86	0	0.6	ASPT	NA	0	ASPHALT.	PAR
8A-105		2/21/86	0.6	2.4	NAUM	SW	1	SAND, f to c grained, loose, dry, gravelly, brown.	PAR
8A-105		2/21/86	2.4	54	NAUM	CL	1	CLAY, low to med plasticity, soft to stiff at depth, moist to wet at depth, calcar	PAR
8A-105		2/21/86	54	57	NAUM	CH	1	CLAY, med to high plasticity, stiff, wet calcareous,sl gravelly, reddish brown.	PAR
8A-105		2/21/86	57	57	LS	NACM	3	LIMESTONE, (auger refusal on top of limestone).	PAR
8A-106		3/4/86	0	0.7	ASPT	NA	0	ASPHALT.	PAR
8A-106		3/4/86	0.7	1.8	NAUM	SC	1	SAND, f to c grained, loose, dry, clayey, brown.	PAR
8A-106		3/4/86	1.8	8	NAUM	CL	1	CLAY, low to med plasticity, soft, moist, sl gravelly , calcareous, tan to brown.	PAR
8A-106		3/4/86	8	10.5	NAUM	SC	1	SAND, f to c grained, loose, moist, v clayey, calcareous, tan.	PAR
8A-106		3/4/86	10.5	14	NAUM	CL	1	CLAY, low plasticity, soft, moist, v sandy, calcareous, tan.	PAR
8A-106		3/4/86	14	16.5	NAUM	SC	1	SAND, f to c grained, loose, moist, v clayey, calcareous, tan.	PAR
8A-106		3/4/86	16.5	44	NAUM	CL	1	CLAY, low to med plasticity, soft to stiff, calcareous with limy nodules and seam	PAR
8A-106		3/4/86	44	52	NAUM	CH	1	CLAY, high to med plasticity, stiff, wet, calcareous with limy nodules, reddish br	PAR
8A-106		3/4/86	52	61	NAUM	CH	1	CLAY, high to med plasticity, stiff, wet, calcareous, sandy, tan.	PAR
8A-106		3/4/86	61	61	LS	NACM	3	LIMESTONE, (auger refusal at top of limestone).	PAR
8A-107		3/5/86	0	0.6	ASPT	NA	0	ASPHALT.	PAR
8A-107		3/5/86	0.6	1.4	NAUM	SC	1	SAND, f to c grained, loose, moist, clayey, brown.	PAR
8A-107		3/5/86	1.4	6.5	NAUM	CL	1	CLAY, low plasticity, soft, moist, sandy, calcareous, tan.	PAR
8A-107		3/5/86	6.5	9	NAUM	GC	1	GRAVEL, f grained, ang to subang, loose, moist, clayey, v sandy, calcareous, tan	PAR
8A-107		3/5/86	9	13	NAUM	CL	1	CLAY, low plasticity, soft, moist, v sandy, calcareous, tan.	PAR
8A-107		3/5/86	13	15.5	NAUM	SC	1	SAND, f grained, loose, moist, v clayey, calcareous, tan.	PAR
8A-107		3/5/86	15.5	45	NAUM	CL	1	CLAY, low to med plasticity, soft to stiff at depth, moist to wet along basal zone	PAR
8A-107		3/5/86	45	61	NAUM	CH	1	CLAY, high to med plasticity, stiff, wet, calcareouse with limy nodules and blebs	PAR
8A-107		3/5/86	61	61	LS	NACM	3	LIMESTONE, (auger refusal at top of limestone).	PAR
8A-108		3/6/86	0	0.6	ASPT	NA	0	ASPHALT.	PAR
8A-108		3/6/86	0.6	2.5	NAUM	SC	1	SAND, f to c grained, loose, dry, clayey, brown.	PAR
8A-108		3/6/86	2.5	9.5	NAUM	GC	1	GRAVEL, f to c grained, ang to subang, loose to med dense, moist, clayey, sand	PAR
8A-108		3/6/86	9.5	12.5	NAUM	SC	1	SAND, f grained, loose, moist, clayey, calcareous, tan.	PAR
8A-108		3/6/86	12.5	17.5	NAUM	CL	1	CLAY, low to med plasticity, soft to stiff, moist, sandy, tan.	PAR
8A-108		3/6/86	17.5	19	NAUM	SC	1	SAND, f grained, loose, moist, v clayey, tan.	PAR
8A-108		3/6/86	19	21	NAUM	CL	1	CLAY, low to med plasticity, soft to stiff, moist, sandy, tan.	PAR
8A-108		3/6/86	21	23.5	NAUM	SC	1	SAND, f grained, loose, moist, v clayey, sl gravelly, tan.	PAR
8A-108		3/6/86	23.5	48	NAUM	CL	1	CLAY, high to med plasticity, stiff, moist to wet along basal section, calcareous	PAR
8A-108		3/6/86	48	48	LS	NACM	3	LIMESTONE, (auger refusal at top of limestone).	PAR
8A-88		2/1/86	0	0.3	ASPT	NA	0	ASPHALT.	PAR
8A-88		2/1/86	0.3	3.5	NAUM	CL	1	CLAY, med plasticity, stiff, moist, brown.	PAR
8A-88		2/1/86	3.5	6.5	NAUM	CL	1	CLAY, med plasticity, stiff, moist, rust to brown.	PAR
8A-88		2/1/86	6.5	8	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, calcareous, tan.	PAR
8A-88		2/1/86	8	9	NAUM	SC	1	SAND, f to c grained, loose, moist, clayey, gravelly, calcareous, brown.	PAR
8A-88		2/1/86	9	10.5	NAUM	SM	1	SAND, f to c grained, loose, moist, calcareous, tan.	PAR
8A-88		2/1/86	10.5	12.5	NAUM	SM	1	SAND, c grained, loose, moist, clayey, gravelly, brown.	PAR
8A-88		2/1/86	12.5	14.5	NAUM	GM	1	GRAVEL, f grained, rounded to subrounded, loose, moist, clayey, brown.	PAR
8A-88		2/1/86	14.5	16	NAUM	CL	1	CLAY, low plasticity, soft, moist, gravelly, sandy, brown.	PAR
8A-88		2/1/86	16	18	NAUM	CL	1	CLAY, low plasticity, soft, moist, sandy, rust to brown.	PAR
8A-88		2/1/86	18	19.5	NAUM	GC	1	GRAVEL, c grained, angular, loose, moist, calcareous, clayey, tan to brown.	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
8A-88		2/1/86	19.5	19.5	LS	NACM	3	LIMESTONE, (auger refusal on limestone)	PAR
8A-89		2/2/86	0	0.2	ASPT	NA	0	ASPHALT.	PAR
8A-89		2/2/86	0.2	3	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown.	PAR
8A-89		2/2/86	3	5	NAUM	CH	1	CLAY, high plasticity, stiff to hard, moist, reddish brown.	PAR
8A-89		2/2/86	5	14	NAUM	CL	1	CLAY, low to med plasticity, soft, moist, sandy, calcareous, tan.	PAR
8A-89		2/2/86	14	24.5	NAUM	GC	1	GRAVEL, f to c grained, rnd to subrnd, loose, moist, very clayey, tan to brown.	PAR
8A-89		2/2/86	24.5	32	NAUM	CL	1	CLAY, low plasticity, moist, gravelly, tan.	PAR
8A-89		2/2/86	32	34.5	NAUM	SC	1	SAND, f to c grained, loose, dry, clayey, gravelly, tan to brown.	PAR
8A-89		2/2/86	34.5	46	NAUM	GC	1	GRAVEL, f to c grained, ang to subang, dense, wet, clayey, sandy, tan to brown	PAR
8A-89		2/2/86	46	46	LS	NACM	3	LIMESTONE, (auger refusal on limestone).	PAR
8A-90		2/4/86	0	0.3	ASPT	NA	0	ASPHALT.	PAR
8A-90		2/4/86	0.3	3.5	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown to black.	PAR
8A-90		2/4/86	3.5	7	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown to rust.	PAR
8A-90		2/4/86	7	18.5	NAUM	CL	1	CLAY, med to low plasticity, soft, moist, sandy, tan.	PAR
8A-90		2/4/86	18.5	21	NAUM	CH	1	CLAY, high plasticity, stiff, moist, gravelly, calcareous, brown.	PAR
8A-90		2/4/86	21	27	NAUM	GC	1	GRAVEL, f to c grained, rnd to subrnd, loose, moist to wet, clayey, brown.	PAR
8A-90		2/4/86	27	39	NAUM	GC	1	GRAVEL, f to c grained, ang to subang, with scattered cobbles throughout, dens	PAR
8A-90		2/4/86	39	39	LS	NACM	3	LIMESTONE, (auger refusal on limestone).	PAR
8A-91		2/4/86	0	0.3	ASPT	NA	0	ASPHALT.	PAR
8A-91		2/4/86	0.3	3	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown to black.	PAR
8A-91		2/4/86	3	9.5	NAUM	CL	1	CLAY, med to low plasticity, soft, moist, brown.	PAR
8A-91		2/4/86	9.5	26.5	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, sandy with sand seams @ 14.0-15.5,	PAR
8A-91		2/4/86	26.5	31.5	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, calcareous, with numerous calcium car	PAR
8A-91		2/4/86	31.5	31.5	LS	NACM	3	LIMESTONE, (auger refusual on limestone).	PAR
8A-92		2/4/86	0	0.3	ASPT	NA	0	ASPHALT.	PAR
8A-92		2/4/86	0.3	2.5	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown to black.	PAR
8A-92		2/4/86	2.5	5.5	NAUM	CL	1	CLAY, low plasticity, soft, moist, v gravelly throughout, calcareous, tan.	PAR
8A-92		2/4/86	5.5	16.5	NAUM	CL	1	CLAY, low to med plasticity, soft, moist, sandy, calcareous, tan.	PAR
8A-92		2/4/86	16.5	22.5	NAUM	CL	1	CLAY, med plasticity, stiff, moist, gravelly, calcareous with calcium carbonate n	PAR
8A-92		2/4/86	22.5	23.5	LS	NACM	3	LIMESTONE, light gray, f grained, soft.	PAR
8A-93		2/5/86	0	0.3	ASPT	NA	0	ASPHALT.	PAR
8A-93		2/5/86	0.3	1.5	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown to black.	PAR
8A-93		2/5/86	1.5	6	NAUM	CH	1	CLAY, high plasticity, stiff, moist, reddish brown.	PAR
8A-93		2/5/86	6	11	NAUM	CL	1	CLAY, low plasticity, soft, moist, v sandy throughout, calcareous, tan.	PAR
8A-93		2/5/86	11	29.2	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, sl gravelly, calcareous with calcium ca	PAR
8A-93		2/5/86	29.2	39	NAUM	GC	1	GRAVEL, f to c grained, ang to aubrnd, loose, wet, clayey, sandy, tan to brown.	PAR
8A-93		2/5/86	39	39	LS	NACM	3	LIMESTONE, (auger refusal on limestone).	PAR
8A-94		2/6/86	0	0.5	ASPT	NA	0	ASPHALT.	PAR
8A-94		2/6/86	0.5	4.5	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown.	PAR
8A-94		2/6/86	4.5	19	NAUM	CL	1	CLAY, low plasticity, soft, moist, sandy throughout especially along basal sectio	PAR
8A-94		2/6/86	19	20	NAUM	CL	1	CLAY/SHALE, tan to greenish gray, calcareous, soft.	PAR
8A-94		2/6/86	20	20	LS	NACM	3	LIMESTONE, (auger refusal on limestone).	PAR
8A-95		2/6/86	0	0.5	ASPT	NA	0	ASPHALT.	PAR
8A-95		2/6/86	0.5	4	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown.	PAR
8A-95		2/6/86	4	7.5	NAUM	CL	1	CLAY, med plasticity, stiff, moist, gravelly, calcareous with limy nodules in secti	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
8A-95		2/6/86	7.5	17	NAUM	CL	1	CLAY, low plasticity, soft, moist, sandy throughout especially along basal sectio	PAR
8A-95		2/6/86	17	19.5	NAUM	SW	1	SAND, f to c grained, loose, dry, calcareous, sl clayey, tan.	PAR
8A-95		2/6/86	19.5	22	NAUM	GM	1	GRAVEL, f to c grained, ang to subrnd, loose, dry, sandy, clayey, tan.	PAR
8A-95		2/6/86	22	41	NAUM	CL	1	CLAY, low to med plasticity, soft to stiff, moist to wet, sandy, especially along b	PAR
8A-95		2/6/86	41	44	NAUM	CH	1	CLAY, high to med plasticity, stiff, wet, sandy, calcareous, reddish brown.	PAR
8A-95		2/6/86	44	44	LS	NACM	3	LIMESTONE, (auger refusal on limestone).	PAR
8A-96		2/6/86	0	0.3	ASPT	NA	0	ASPHALT.	PAR
8A-96		2/6/86	0.3	2.4	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown to black.	PAR
8A-96		2/6/86	2.4	6.5	NAUM	CL	1	CLAY, low plasticity, soft, moist, gravelly, calcareous, brown.	PAR
8A-96		2/6/86	6.5	9	NAUM	CL	1	CLAY, low plasticity, soft, moist, sandy, tan.	PAR
8A-96		2/6/86	9	14.5	NAUM	CL	1	CLAY, low to med plasticity, soft to stiff, moist, calcareous, gravelly, brown.	PAR
8A-96		2/6/86	14.5	31.5	NAUM	CL	1	CLAY, med plasticity, stiff, moist, sandy, limy with many calcium carbonate sea	PAR
8A-96		2/6/86	31.5	36	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist to wet along basal section, sandy espe	PAR
8A-96		2/6/86	36	36	LS	NACM	3	LIMESTONE, (auger refusal on limestone).	PAR
8A-97		2/7/86	0	0.3	ASPT	NA	0	ASPHALT.	PAR
8A-97		2/7/86	0.3	4.5	NAUM	CL	1	CLAY, low plasticity, soft, moist, gravelly, limy with nodules, tan to brown.	PAR
8A-97		2/7/86	4.5	24.5	NAUM	CL	1	CLAY, low to med plasticity, soft, moist, sandy, small limy nodules, tan.	PAR
8A-97		2/7/86	24.5	34	NAUM	CL	0	CLAY, high to med plasticity, stiff, moist, sandy, calcareous, reddish brown.	PAR
8A-97		2/7/86	34	35	LS	NACM	3	LIMESTONE, light gray, f to c grained, soft.	PAR
8A-98		2/7/86	0	0.3	ASPT	NA	0	ASPHALT.	PAR
8A-98		2/7/86	0.3	1.5	NAUM	CL	1	CLAY, low plasticity, soft, moist, gravelly, sandy, brown.	PAR
8A-98		2/7/86	1.5	3.5	LS	NACM	3	LIMESTONE, light gray, f to c grained, arenaceous, soft.	PAR
8A-98		2/7/86	3.5	4.5	SHLE	NACM	4	CLAY/SHALE, tan to greenish gray, calcareous, soft.	PAR
8A-99		2/7/86	0	0.4	ASPT	NA	0	ASPHALT.	PAR
8A-99		2/7/86	0.4	2.5	NAUM	CL	1	CLAY, low plasticity, soft, moist, gravelly, sandy, brown.	PAR
8A-99		2/7/86	2.5	4	LS	NACM	3	LIMESTONE, light gray, f to c grained, soft.	PAR
8A3F-109		3/6/86	0	0.5	ASPT	NA	0	ASPHALT.	PAR
8A3F-109		3/6/86	0.5	2	NAUM	SC	1	SAND, f to c grained, loose, clayey, brown.	PAR
8A3F-109		3/6/86	2	35	NAUM	CL	1	CLAY, low to med plasticity, soft, sandy, calcareous, tan.	PAR
8A3F-109		3/6/86	35	47.5	NAUM	CL	1	CLAY, high to med plasticity, stiff, calcareous, reddish brown.	PAR
8A3F-109		3/6/86	47.5	49.5	LS	NACM	3	LIMESTONE, brown to gray, f to c grained, soft.	PAR
8A3F-110		3/13/86	0	0.4	ASPT	NA	0	ASPHALT.	PAR
8A3F-110		3/13/86	0.4	1.7	NAUM	SC	1	SAND, f to c grained, loose, dry, gravelly, clayey, brown.	PAR
8A3F-110		3/13/86	1.7	5.3	NAUM	CL	1	CLAY, low plasticity, soft, moist, gravelly, sandy, calcareous, tan.	PAR
8A3F-110		3/13/86	5.3	35	NAUM	CL	1	CLAY, med plasticity, soft to stiff, moist to wet along base, sandy along topmos	PAR
8A3F-110		3/13/86	35	46	NAUM	GW	1	GRAVEL, c grained, v dense to hard, wet, sandy, tan to gray.	PAR
8A3F-110		3/13/86	46	57	LS	NACM	3	LIMESTONE, tan to gray, f to c grained, soft.	PAR
8A3F-110		3/13/86	57	58.5	SHLE	NACM	4	SHALE, gray to dark gray, silty, soft.	PAR
8A3F-110		3/13/86	58.5	61.2	SS	NACM	4	SANDSTONE, v f grained, silty, calcareous, soft.	PAR
8A3F-110		3/13/86	61.2	73	SHLE	NACM	4	SHALE, dark gray, areneaceous with abundant sandstone seams and stringers, s	PAR
8A3F-110		3/13/86	73	85.5	SS	NACM	4	SANDSTONE, f to c grained, silty, calcareous, shaly with inferred shale stringers	PAR
8A3F-110		3/13/86	85.5	106	SHLE	NACM	4	SHALE, dark gray, inferred sandstone stringers and seams, soft.	PAR
8A3F-110		3/13/86	106	112	SS	NACM	4	SANDSTONE, f grained, silty, calcareous, inferred shale sringers, soft.	PAR
8A3F-110		3/13/86	112	166	SS	NACM	4	SANDSTONE, f to c grained, silty, calcareous, soft.	PAR
8A3F-110		3/13/86	166	167.5	SHLE	NACM	4	SHALE, dark gray, soft.	PAR

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
8A3F-110		3/13/86	167.5	230	SS	NACM	4	SANDSTONE, f to c grained, silty, calcareous, inferred shale seams and stringers	PAR
8A3F-110		3/13/86	230	236	SHLE	NACM	4	SHALE, dark gray, arenaceous with sand seams and stringers, soft.	PAR
8A3F-110		3/13/86	236	238	LSSH	NACM	5	LIMESTONE, light gray, f grained, soft.	PAR
8A4C-100		2/9/86	0	0.4	ASPT	NA	0	ASPHALT.	PAR
8A4C-100		2/9/86	0.4	4	NAUM	CL	1	CLAY, low plasticity, soft, moist, gravelly, limy with nodules, tan to brown.	PAR
8A4C-100		2/9/86	4	33.5	NAUM	CL	1	CLAY, low to med plasticity, soft to stiff, sandy, sm small limy nodules, tan.	PAR
8A4C-100		2/9/86	33.5	48	NAUM	GW	1	GRAVEL, f to c grained, ang to subrnd, loose, wet, clean, tan.	PAR
8A4C-100		2/9/86	48	52	LS	NACM	3	LIMESTONE, gray, f to c grained, argillaceous, with shale stringers and thin seam	PAR
8A4C-101		2/11/86	0	0.5	ASPT	NA	0	ASPHALT.	PAR
8A4C-101		2/11/86	0.5	1.2	NAUM	SM	1	SAND, f to c grained, loose, dry, gravelly, clayey, brown.	PAR
8A4C-101		2/11/86	1.2	4	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown to black.	PAR
8A4C-101		2/11/86	4	21	NAUM	CL	1	CLAY, med to low plasticity, soft to stiff, moist, becoming increasingly sandy bel	PAR
8A4C-101		2/11/86	21	23	NAUM	GM	1	GRAVEL, f to c grained, subrnd to rnd, loose, dry, clayey, sandy, tan	PAR
8A4C-101		2/11/86	23	35	NAUM	CL	1	CLAY, low plasticity, soft, moist, calcareous, tan.	PAR
8A4C-101		2/11/86	35	44.5	NAUM	CH	1	CLAY, med to high plasticity, stiff, wet, calcareous with limy seams and nodules	PAR
8A4C-101		2/11/86	44.5	47.5	NAUM	GC	1	GRAVEL, c grained, rnd to subrnd, loose, wet, clayey, brown.	PAR
8A4C-101		2/11/86	47.5	51.5	LS	NACM	3	LIMESTONE, brown, f to c grained, argillaceous, fossiliferous, fractures, soft.	PAR
8A4C-102		2/24/86	0	0.2	ASPT	NA	0	ASPHALT.	PAR
8A4C-102		2/24/86	0.2	1	NAUM	SW	1	SAND, f to c grained, loose, dry, gravelly, brown.	PAR
8A4C-102		2/24/86	1	6.5	NAUM	CL	1	CLAY, low plasticity, soft, moist, gravelly, calcareous, tan to brown.	PAR
8A4C-102		2/24/86	6.5	44	NAUM	CL	1	CLAY, low to med plasticity, soft to stiff, moist to wet along basal section, calca	PAR
8A4C-102		2/24/86	44	60.5	NAUM	CH	1	CLAY, high to med plasticity, stiff to hard in zones, wet, calcareous, reddish bro	PAR
8A4C-102		2/24/86	60.5	61.4	LSCL	NACM	3	LIMESTONE, brown, c to f grained, strongly argillaceous, v fossiliferous, soft.	PAR
8A4C-102		2/24/86	61.4	61.8	LSSD	NACM	3	LIMESTONE, tan, c to f grained, strongly arenaceous, mod hard.	PAR
8A4C-102		2/24/86	61.8	62.4	LS	NACM	3	LIMESTONE, gray, f grained, sl argillaceous, well cemented, hard.	PAR
8A4C-102		2/24/86	62.4	63.1	SHLE	NACM	4	SHALE, dark brown, laminated, arenaceous, soft.	PAR
8A4C-102		2/24/86	63.1	66.5	SD	NACM	4	SAND, f grained, weakly cemented, silty, calcareous, light gray.	PAR
8A4C-102		2/24/86	66.5	77.6	SHLE	NACM	4	SHALE, dark brown, v thinly bedded, areneaceous, soft.	PAR
8A4C-102		2/24/86	77.6	80	SD	NACM	4	SAND, f grained with c grained, weakly cemented, c grained uncemented zones,	PAR
8A4C-103		2/19/86	0	0.5	ASPT	NA	0	ASPHALT.	PAR
8A4C-103		2/19/86	0.5	1.5	NAUM	SW	1	SAND, f to c grained, loose, dry, gravelly, brown.	PAR
8A4C-103		2/19/86	1.5	3	NAUM	CL	1	CLAY, low plasticity, soft, moist, calcareous, sandy, gravelly, tan to brown.	PAR
8A4C-103		2/19/86	3	10.6	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, calcareous with limy nodules and sea	PAR
8A4C-103		2/19/86	10.6	27	NAUM	CL	1	CLAY, low plasticity, soft, moist, sandy, with strong sand fraction noted @ 21.0	PAR
8A4C-103		2/19/86	27	33	NAUM	CL	1	CLAY, med to high plasticity, stiff, moist, calcareous with limy nodules and bleb	PAR
8A4C-103		2/19/86	33	57	NAUM	CL	1	CLAY, low plasticity, soft, moist, sandy, calcareous, tan.	PAR
8A4C-103		2/19/86	57	60.5	SHLE	NACM	3	CLAY/SHALE, tan to greenish gray, calcareous, soft.	PAR
8A4C-103		2/19/86	60.5	61.5	LS	NACM	3	LIMESTONE, tan to gray, f to c grained, areneaceous, weathered, siliceous zones	PAR
8A4C-103		2/19/86	61.5	62.4	SHLE	NACM	3	SHALE, dark brown, laminated, arenaceous, soft.	PAR
8A4C-103		2/19/86	62.4	65	SS	NACM	4	SAND, f grained, weakly cemented, calcareous, v silty, becoming v argillaceous,	PAR
8A4C-104		2/20/86	0	0.5	ASPT	NA	0	ASPHALT.	PAR
8A4C-104		2/20/86	0.5	2.5	NAUM	SW	1	SAND, f to c grained, loose, dry, gravelly, brown.	PAR
8A4C-104		2/20/86	2.5	35.7	NAUM	CL	1	CLAY, low to med plasticity, soft, moist to wet along basal section, calcareous	PAR
8A4C-104		2/20/86	35.7	40.7	LS	NACM	3	LIMESTONE, light gray, f to c grained, prominent fracture noted @ 36.7, siliciou	PAR
8A4C-83		7/11/85	0	0.6	ASPT	NA	0	ASPHALT	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
8A4C-83		7/11/85	0.6	1.1	FILL	NA	0	BASE MATERIAL	PAR
8A4C-83		7/11/85	1.1	7	NAUM	CL	1	CLAY, med plasticity, tan-brown, med stiff, moist, calcareous with scattered lim	PAR
8A4C-83		7/11/85	7	19.5	NAUM	CL	1	CLAY, low to med plasticity, brown, med stiff, moist, calcareous, sl silty.	PAR
8A4C-83		7/11/85	19.5	32	NAUM	GC	1	GRAVEL, dense, f to m grained, well graded, tan, moist, sandy, clayey. Borders	PAR
8A4C-83		7/11/85	32	38.1	LS	NACM	3	LIMESTONE, mod hard, dark gray, fossiliferous, dark gray, calcareous clay matrix	PAR
8A4C-83		7/11/85	38.1	39	LS	NACM	3	LIMESTONE, mod hard, gray, fossiliferous, clayey.	PAR
8A4C-84		7/14/85	0	0.6	ASPT	NA	0	ASPHALT	PAR
8A4C-84		7/14/85	0.6	1.4	FILL	NA	0	GRAVEL BASE.	PAR
8A4C-84		7/14/85	1.4	7	NAUM	CH	1	CLAY, med to high plasticity, black, stiff, moist, calcareous.	PAR
8A4C-84		7/14/85	7	11	NAUM	CH	1	CLAY, high plasticity, tan-brown, v stiff - hard, moist, calcareous, lime nodules fr	PAR
8A4C-84		7/14/85	11	14	NAUM	CL	1	CLAY, med plasticity, reddish brown, v stiff, moist, calcareous, v sandy.	PAR
8A4C-84		7/14/85	14	17.4	NAUM	CL	1	CLAY, low plasticity, tan, stiff, moist, calcareous,silty.	PAR
8A4C-84		7/14/85	17.4	23	NAUM	GM	1	GRAVEL, dense, tan, moist, calcareous, well graded, f to m gravel size, sm coars	PAR
8A4C-84		7/14/85	23	26	NAUM	CL	1	CLAY, low plasticity, tan, med stiff - stiff, moist, calcareous, silty.	PAR
8A4C-84		7/14/85	26	29	NAUM	CL	1	CLAY, med plasticity, reddish brown, med stiff - stiff, moist, calcareous, silty.	PAR
8A4C-84		7/14/85	29	46	NAUM	CL	1	CLAY, low plasticity, tan - reddish brown, med stiff, moist, calcareous, silty.	PAR
8A4C-84		7/14/85	46	48	NAUM	CL	1	CLAY, med - high plasticity, reddish brown, v stiff, moist, calcareous.	PAR
8A4C-84		7/14/85	48	61.5	NAUM	GM	1	GRAVEL.	PAR
8A4C-84		7/14/85	61.5	62	LS	NACM	3	WALNUT FM (?), Determined from rock bit cuttings.	PAR
8A4C-85		7/19/85	0	0.4	ASPT	NA	0	ASPHALT.	PAR
8A4C-85		7/19/85	0.4	4.3	NAUM	CH	1	CLAY, high plasticity, red brown - dark red brown, v stiff, damp, calcareous, san	PAR
8A4C-85		7/19/85	4.3	9	NAUM	CH	1	CLAY, med - high plasticity, red brown , stiff - v stiff, damp, calcareous, with lim	PAR
8A4C-85		7/19/85	9	17	NAUM	CL	1	CLAY, low plasticity, tan - red brown , stiff - med stiff, moist, calcareous, silty.	PAR
8A4C-85		7/19/85	17	29	NAUM	CH	1	CLAY, med - high plasticity, tan, stiff - med stiff, moist, calcareous, silty from 2	PAR
8A4C-85		7/19/85	29	32	NAUM	CH	1	CLAY, high plasticity, red brown, stiff - v stiff, moist, calcareous, with abundant	PAR
8A4C-85		7/19/85	32	52	NAUM	CH	1	CLAY, high plasticity, tan - red brown, stiff - v stiff, moist, calcareous.	PAR
8A4C-85		7/19/85	52	59	NAUM	SP	1	SAND, loose, tan, wet, calcareous, f grained, poorly sorted, sm clay.	PAR
8A4C-85		7/19/85	59	60.5	LS	NACM	3	LIMESTONE, mod hard, tan, highly weathered, iron stained, v fossiliferous, mostl	PAR
8A4C-85		7/19/85	60.5	62.4	LS	NACM	3	LIMESTONE, mod hard, gray, weathered, less fossiliferous, shells in small pieces,	PAR
8A4C-85		7/19/85	62.4	63.8	LS	NACM	3	LIMESTONE, soft, gray, weathered, less fossiliferous, very argillaceous.	PAR
8A4C-85		7/19/85	63.8	64.9	LS	NACM	3	LIMESTONE, mod hard, gray, weathered, v fossiliferous, oyster shells, a few pyri	PAR
8A4C-85		7/19/85	64.9	65.5	SLST	NACM	4	SILTSTONE, soft, blue green, calcareous, contains small pockets of green gray cl	PAR
8A4C-86		2/1/86	0	0.4	ASPT	NA	0	ASPHALT.	PAR
8A4C-86		2/1/86	0.4	2.4	NAUM	CL	1	CLAY, med to low plasticity, med stiff, dry, dark brown, sandy and gravelly.	PAR
8A4C-86		2/1/86	2.4	3.1	NAUM	CL	1	CLAY, med to high plasticity, med stiff, sl moist, black.	PAR
8A4C-86		2/1/86	3.1	4.5	NAUM	CL	1	CLAY, med to high plasticity, med stiff, v dark brown, silty.	PAR
8A4C-86		2/1/86	4.5	6.5	NAUM	CH	1	CLAY, high plasticity, sl moist, dark red brown, silty to sl gravelley.	PAR
8A4C-86		2/1/86	6.5	7.7	NAUM	CH	1	CLAY, high plasticity, v stiff, sl moist, reddish yellow, caliched, silty, sl sandy, gr	PAR
8A4C-86		2/1/86	7.7	10	NAUM	CL	1	CLAY, low to med plasticity, v stiff, sl moist, yellow, v sandy, silty, calcareous.	PAR
8A4C-86		2/1/86	10	15	NAUM	CH	1	CLAY, high plasticity, v stiff to stiff, sl moist, red yellow, silty, scattered sand si	PAR
8A4C-86		2/1/86	15	50	NAUM	CH	1	CLAY, high to med plasticity, med stiff to scattered soft seams, moist, red yello	PAR
8A4C-86		2/1/86	50	59.9	NAUM	CH	1	CLAY, high to med plasticity, stiff to v stiff, moist, brownish yellow and light gra	PAR
8A4C-86		2/1/86	59.9	65	LSCL	NACM	3	ARGILLACEOUS LIMESTONE, weathered stained to 60.7', then unweathered dar	PAR
8A4C-87		2/1/86	0	0.4	ASPT	NA	0	ASPHALT.	PAR
8A4C-87		2/1/86	0.4	2.5	NAUM	CH	1	CLAY, med to high plasticity, stiff, moist, brown.	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
8A4C-87		2/1/86	2.5	6	NAUM	CL	1	CLAY, low to med plasticity, soft, moist , reddish brown.	PAR
8A4C-87		2/1/86	6	37.5	NAUM	CL	1	CLAY, low to med plasticity, soft, moist, sandy, small limy nodules and blebs, ta	PAR
8A4C-87		2/1/86	37.5	41.5	LS	NACM	3	LIMESTONE, tan to brown along basal section, f to c grained, argillaceous, highly	PAR
AC-1		01-JUN-42	0	1.5	STCL	CL	1	Silty clay topsoil. Brown, a few limestone fragments.	EXP
AC-1		01-JUN-42	1.5	10.6	CLAY	CL	1	Clay, mottled grey and brown, weathered, marly, much decomposed limestone a	EXP
AC-1		01-JUN-42	10.6	23	STCL	CL	1	Silty clay, brown, marly, few limestone fragments, some small stream gravel.	EXP
AC-1		01-JUN-42	23	26	SDSL	ML	1	Silt/sand, grey brown, marly silt, fine sand, numerous limestone and gravel fragm	EXP
AC-1		01-JUN-42	26	28	STCL	OL	1	Silt/clay, marly silt, brown clay, gravel and limestone fragments.	EXP
AC-1		01-JUN-42	28	31.8			1	No sample. Core loss, probably same as below.	EXP
AC-1		01-JUN-42	31.8	33	STCL	CL	1	Silty clay, grey, marly, many limestone fragments.	EXP
AC-1		01-JUN-42	33	34.7	STCL	CL	1	Silty clay, greyish brown, many limestone fragments.	EXP
AC-1		01-JUN-42	34.7	40.8	STCL	CL	1	Silty clay, large limestone gravel and limestone fragments.	EXP
AC-1		01-JUN-42	40.8	42.2	CLAY	CL	1	Clay, marly, stiff.	EXP
AC-1		01-JUN-42	42.2	59.5	LS		3	Limestone, hard, fossiliferous, with occasional shaley phases.	EXP
AC-10		01-JUN-42	0	36.3				OVERBURDEN.	EXP
AC-10		01-JUN-42	36.3	38.2	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-11		01-JUN-42	0	14.7				OVERBURDEN.	EXP
AC-11		01-JUN-42	14.7	29.4	CLAY	CL	1	Clay, marly, in place but weathered, occasional band of soft limestone.	EXP
AC-11		01-JUN-42	29.4	31.4	LS		3	Limestone, soft, impure.	EXP
AC-11		01-JUN-42	31.4	32.5	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-12		01-JUN-42	0	37.2				OVERBURDEN.	EXP
AC-12		01-JUN-42	37.2	40.8	LS		3	Limestone, soft, highly fossiliferous (coquina).	EXP
AC-12		01-JUN-42	40.8	41.6	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-13		01-JUN-42	0	32				OVERBURDEN.	EXP
AC-13		01-JUN-42	32	34.2	LS		3	Limestone, soft.	EXP
AC-13		01-JUN-42	34.2	35.4	LS		3	Limestone, hard, fossiliferous.	EXP
AC-14		01-JUN-42	0	37.4				OVERBURDEN.	EXP
AC-14		01-JUN-42	37.4	40.7	LS		3	Limestone, soft.	EXP
AC-14		01-JUN-42	40.7	43.7	LS		3	Limestone, hard, fossiliferous.	EXP
AC-15		01-JUN-42	0	40.5				OVERBURDEN.	EXP
AC-15		01-JUN-42	40.5	42.3	LSCL		3	Limestone/Clay, grey limestone, marly clay.	EXP
AC-15		01-JUN-42	42.3	46.5	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-16		01-JUN-42	0	18				OVERBURDEN.	EXP
AC-16		01-JUN-42	18	33.1	CLAY	CL	1	Clay, marly, in place, occasional thin limestone bands, weathered.	EXP
AC-16		01-JUN-42	33.1	38.3	LS		3	Limestone, grey, soft, fossiliferous, weathered.	EXP
AC-16		01-JUN-42	38.3	42.2	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-17		01-JUN-42	0	19.2				OVERBURDEN.	EXP
AC-17		01-JUN-42	19.2	34.3	CLAY	CL	1	Clay, marly, in place, occasional thin limestone bands, weathered.	EXP
AC-17		01-JUN-42	34.3	38.9	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-2		01-JUN-42	0	30				No sample.	EXP
AC-2		01-JUN-42	30	33	LS		3	Limestone, hard, fossiliferous.	EXP
AC-3		01-JUN-42	0	2.4	STCL	CL	1	Silty clay topsoil, black.	EXP
AC-3		01-JUN-42	2.4	5.7	STCL	CL	1	Silty clay, black to brown, marly, many decomposed limestone fragments.	EXP
AC-3		01-JUN-42	5.7	7.5	CLAY	CL	1	Clay, brown and white, mottled, calcareous, almost chalky.	EXP
AC-3		01-JUN-42	7.5	24.9	CLAY	CL	1	Clay, brown to white, mottled, many limestone fragments.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
AC-3		01-JUN-42	24.9	36.8	CLAY	CL	1	Clay, marly, in place but badly weathered, occasional bands of soft limestone.	EXP
AC-3		01-JUN-42	36.8	38.3	LS		3	Limestone, soft.	EXP
AC-3		01-JUN-42	38.3	40.6	LS		3	Limestone, hard, fossiliferous.	EXP
AC-4		01-JUN-42	0	2.4	STCL	CL	1	Silty clay, topsoil, black.	EXP
AC-4		01-JUN-42	2.4	5.7	STCL	CL	1	Silty clay, black to brown, marly, many decomposed limestone fragments.	EXP
AC-4		01-JUN-42	5.7	7.5	CLAY	CL	1	Clay, brown and white, mottled, calcareous, almost chalky.	EXP
AC-4		01-JUN-42	7.5	24.9	CLAY	CL	1	Clay, brown to white, mottled, many limestone fragments.	EXP
AC-4		01-JUN-42	24.9	36.8	CLAY	CL	1	Clay, marly, in place but badly weathered, occasional bands of soft limestone.	EXP
AC-4		01-JUN-42	36.8	38.3	LS		3	Limestone, soft.	EXP
AC-4		01-JUN-42	38.3	40.6	LS		3	Limestone, hard fossiliferous	EXP
AC-5		01-JUN-42	0	3	STCL	CL	1	Silty clay topsoil, black to brown.	EXP
AC-5		01-JUN-42	3	10.5	CLAY	CL	1	Clay, brown, marly, stiff, limestone fragments increase with depth.	EXP
AC-5		01-JUN-42	10.5	14.4	CLAY	CL	1	Clay, brown, marly, large limestone fragments, some stream gravel.	EXP
AC-5		01-JUN-42	14.4	23.8	SDSL	SM	1	Silty sand, brown and grey, fine, limestone fragments and stream gravel through	EXP
AC-5		01-JUN-42	23.8	29	SDGR	GC	1	Silt/sand/gravel, fine sand, some clay.	EXP
AC-5		01-JUN-42	29	33.8	SDCL	CL	1	Sandy clay, grey, large limestone fragments.	EXP
AC-5		01-JUN-42	33.8	36.2	LS		3	Limestone, grey, moderately hard, shale partings.	EXP
AC-5		01-JUN-42	36.2	59.6	LS		3	Limestone, grey, hard, fossiliferous, occasional clayey phases.	EXP
AC-6		01-JUN-42	0	3	STCL	CL	1	Silty clay topsoil, black.	EXP
AC-6		01-JUN-42	3	5	CLAY	CL	1	Clay, grey to brown, marly, limestone fragments.	EXP
AC-6		01-JUN-42	5	8	STCL	CL	1	Clay/silt, grey to brown, chalky clay, limestone fragments.	EXP
AC-6		01-JUN-42	8	10.2	CLAY	CL	1	Clay, yellow, marly, many limestone fragments.	EXP
AC-6		01-JUN-42	10.2	11.2	CLAY	CL	1	Clay, yellow, marly, stream gravel.	EXP
AC-6		01-JUN-42	11.2	19.4	CLAY	CL	1	Clay, yellow, marly, soft, some limestone fragments.	EXP
AC-6		01-JUN-42	19.4	31.1	CLAY	CL	1	Clay, marly, in place but badly weathered, occasional bands of soft limestone.	EXP
AC-6		01-JUN-42	31.1	32.8	LS		3	Limestone, grey, soft.	EXP
AC-6		01-JUN-42	32.8	37.8	LS		3	Limestone, grey, hard, fossiliferous, with thin clayey phases.	EXP
AC-7		01-JUN-42	0	34				OVERBURDEN.	EXP
AC-7		01-JUN-42	34	36	LS		3	Limestone, grey, soft.	EXP
AC-7		01-JUN-42	36	38	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-8		01-JUN-42	0	3.7	STCL	CL	1	Silty clay topsoil, black.	EXP
AC-8		01-JUN-42	3.7	7.5	CLAY	CL	1	Clay, brown, marly, limestone fragments.	EXP
AC-8		01-JUN-42	7.5	15.5	CLAY	CL	1	Clay, brown, marly, with stream gravel.	EXP
AC-8		01-JUN-42	15.5	24.3	SDCL	CL	1	Sandy clay, marly, with stream gravel and limestone fragments.	EXP
AC-8		01-JUN-42	24.3	29.4	SDCL	SCSM	1	Silty, clayey sand, brown, fine, very little stream gravel.	EXP
AC-8		01-JUN-42	29.4	33.8	CLAY	CL	1	Clay, brown, marly, soft, with limestone fragments.	EXP
AC-8		01-JUN-42	33.8	60	LS		3	Limestone, grey, hard, fossiliferous, with occasional thin clayey phases.	EXP
AC-9		01-JUN-42	0	8				OVERBURDEN.	EXP
AC-9		01-JUN-42	8	24.1	CLAY	CL	1	Clay, marly, in place, occasional thin limestone bands.	EXP
AC-9		01-JUN-42	24.1	26	LS		3	Limestone, grey, soft, with clay bands.	EXP
AC-9		01-JUN-42	26	27	LS		3	Limestone, grey, hard, fossiliferous.	EXP
EPA-1	ATEC	01-JUN-83	0	6	STCL	CL	1	Silty clay, dark brown to black, moist, stiff, granular, no odor. At 2 ft: dark reddi	EXP
EPA-1	ATEC	01-JUN-83	6	12	GVCL	CL	1	Gravelly clay, light brown to tan, moist, stiff, angular limestone gravel, no odor.	EXP
EPA-1	ATEC	01-JUN-83	12	13.5	GVCL	GC	1	Clayey gravel, light brown to grey, wet, slightly loose, angular limestone and shel	EXP
EPA-1	ATEC	01-JUN-83	13.5	17.5	SHLE		2	Shale/Clay, interbedded, medium grey, firm, calcareous, thinly bedded, fossilifero	EXP

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EPA-1	ATEC	01-JUN-83	17.5	25	SHLE		2	Shale, medium to dark grey, slightly moist, slightly to moderately stiff, calcareou	EXP
EPA-1	ATEC	01-JUN-83	25	28.5	LS		2	Shaley Limestone, dark grey, very dense, fossiliferous.	EXP
EPA-1	ATEC	01-JUN-83	28.5	30	LS		3	Shell Agglomerate, dark grey, dense, very fossiliferous (oysters), matrix and inter	EXP
EPA-2	ATEC	02-JUN-83	0	5.5	STCL	CL	1	Silty clay, dark brown, moist, slightly soft to slightly firm, cohesive, some black	EXP
EPA-2	ATEC	02-JUN-83	5.5	9	GVCL	CL	1	Gravelly clay, light brown, moist, slightly firm, angular to round limestone gravel,	EXP
EPA-2	ATEC	02-JUN-83	9	23	SDGR	GP	1	Sand and gravel, light brown, moist, slightly loose, fragments of limestone and s	EXP
EPA-2	ATEC	02-JUN-83	23	26	SHLE		2	Shale, dark grey, slightly moist, firm to stiff, fissile.	EXP
EPA-3	ATEC	31-MAY-83	0	4	STCL	CL	1	Silty clay, reddish brown, moist, moderately stiff, some sand.	EXP
EPA-3	ATEC	31-MAY-83	4	22	STCL	CL	1	Silty gravelly clay, reddish brown, moist, firm. At 13 ft: light to medium brown, l	EXP
EPA-3	ATEC	31-MAY-83	22	25.2	LS		2	Limestone, light grey, dry, dense, brittle, clayey in zones, fossiliferous.	EXP
EPA-3	ATEC	31-MAY-83	25.2	29.5	LS		2	Limestone/shale/clay, greenish buff to grey limestone interbedded with shale and	EXP
EPA-3	ATEC	31-MAY-83	29.5	30.5	SHLE		2	Shale, dark grey, slightly soft.	EXP
EPA-3	ATEC	31-MAY-83	30.5	35	CLAY		2	Clay, greyish green, massive.	EXP
EPA-3	ATEC	31-MAY-83	35	38	LSSH		3	Shale/Clay/Limestone, interbedded, medium to dark grey, dry to slightly moist, d	EXP
EPA-3	ATEC	31-MAY-83	38	40	LS		3	Shell Agglomerate, medium to dark grey, dense, very fossiliferous, matrix and int	EXP
EPA-4	ATEC	03-JUN-83	0	0.5	STCL	CL	1	Silty gravelly clay, brown, moist, slightly firm, slightly cohesive, weathered limes	EXP
EPA-4	ATEC	03-JUN-83	0.5	5	LS		2	Limestone, light grey to buff, dry to slightly moist, dense, two small clay seams.	EXP
EPA-4	ATEC	03-JUN-83	5	9	LSSH		2	Limestone/Clay/Shale, interbedded, light grey to buff clayey limestone, weathere	EXP
EPA-4	ATEC	03-JUN-83	9	15.5	LSSH		2	Shaley Limestone, medium to dark grey, slightly moist, slightly to moderately de	EXP
EPA-4	ATEC	03-JUN-83	15.5	18.5	LSSH		2	Limestone/Shale/Clay, interbedded, medium to dark grey clayey limestone, slightl	EXP
EPA-4	ATEC	03-JUN-83	18.5	26	LS		2	Limestone, medium to dark grey, dry to slightly moist, dense, slightly fossiliferou	EXP
EPA-4	ATEC	03-JUN-83	26	28	SHLE		2	Clayey Shale, medium to dark grey, slightly moist, stiff, fissile, massive, slightly	EXP
EPA-4	ATEC	03-JUN-83	28	46	LSCL		2	Limestone/Shale/Clay, interbedded, medium to dark grey clayey limestone, slightl	EXP
EPA-4	ATEC	03-JUN-83	46	48	SHLE		3	Clayey Shale, dark grey, slightly moist, dense, brittle, fissile, some oyster shells.	EXP
EPA-4	ATEC	03-JUN-83	48	49.5	LS		3	Shell Agglomerate, medium to dark grey, dense, very fossiliferous (oysters), matr	EXP
F-205	REI	05-MAR-86	0	1.5	SDCL	CL	1	Sandy gravelly clay, light brown, gravel is subrounded to rounded, fine to mediu	EXP
F-205	REI	05-MAR-86	1.5	3	SDSL	SM	1	Silty sand, tan with occasional soft, white calcareous nodules present, very calc	EXP
F-205	REI	05-MAR-86	3	9.5	SD	SP	1	Sand, light brown, fine to medium grained, 80-90% quartz, calcareous, occasion	EXP
F-205	REI	05-MAR-86	9.5	10.5	SDGR	SP	1	Gravelly sand, tan, coarse grained, rounded, gravel is coarse, rounded limestone	EXP
F-205	REI	05-MAR-86	10.5	14	SD	SP	1	Sand, light brown, fine to medium grained, calcareous, dry. Coarse gravel seam a	EXP
F-205	REI	05-MAR-86	14	15.5	SDGR	SP	1	Gravelly sand, light brown, gravel is coarse, subrounded to rounded limestone. C	EXP
F-205	REI	05-MAR-86	15.5	17	SD	SP	1	Sand, light brown, with occasional rounded coarse limestone, calcareous, slightly	EXP
F-205	REI	05-MAR-86	17	21	SDSL	SM	1	Silty sand, tan with streaks of white calcareous clay, slightly moist; At 18 ft: wh	EXP
F-205	REI	05-MAR-86	21	22.5	SD	SP	1	Sand, light brown, fine grained, calcareous, slightly moist.	EXP
F-205	REI	05-MAR-86	22.5	24.5	GVST	GM	1	Gravelly, sandy silt, with 1 1/2" layer of poorly cemented conglomerate, moist, c	EXP
F-205	REI	05-MAR-86	24.5	27	GVL	GP	1	Gravel, fine to coarse grained with occasional subangular to rounded limestone c	EXP
F-205	REI	05-MAR-86	27	28	GVST	GMML	1	Gravelly sandy clayey silt, light tan, cohesive, wet, gravel is subrounded to round	EXP
F-205	REI	05-MAR-86	28	30.5	GVL	GP	1	Gravel, fine to coarse, subangular to rounded, limestone, quartz, feldspar and 5	EXP
F-205	REI	05-MAR-86	30.5	31	GVCL	CL	1	Gravelly clay, laminated, ferrous staining on lamination planes, calcareous, gravel	EXP
F-205	REI	05-MAR-86	31	31.5	CLAY		3	Clay with ferrous staining on lamination planes, very stiff, not plastic, very calcar	EXP
F-206	REI	05-MAR-86	0	0.5	CN		0	Concrete slab.	EXP
F-206	REI	05-MAR-86	0.5	1	SDGR	GW	1	Gravelly sand, tan.	EXP
F-206	REI	05-MAR-86	1	1.5	SD	SP	1	Sand, tan, wet, no fuel odor.	EXP
F-206	REI	05-MAR-86	1.5	7.5	CLAY	CL	1	Clay, reddish brown with white, soft calcareous nodules present, very stiff, not p	EXP
F-206	REI	05-MAR-86	7.5	12	STCL	CL	1	Slightly silty clay, becoming less red, occasional fine sand seams present 1/4" to	EXP

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F-206	REI	05-MAR-86	12	14	GVCL	CL	1	Gravelly silty clay, tan gravel is subangular to rounded limestone.	EXP
F-206	REI	05-MAR-86	14	14.25	SDCL	SC	1	Slightly clayey sand, tan, fine grained, moist.	EXP
F-206	REI	05-MAR-86	14.25	15.25	STCL	CL	1	Gravelly sandy silty clay, greyish brown, gravel is subangular to rounded, fine to	EXP
F-206	REI	05-MAR-86	15.25	17.5	SDSL	ML	1	Sandy, clayey silt, with fien sand partings, tan to greyish tan with occasional lim	EXP
F-206	REI	05-MAR-86	17.5	18.5	STCL	CL	1	Silty clay, tan, very calcareous.	EXP
F-206	REI	05-MAR-86	18.5	19.5	SDSL	ML	1	Sandy, clayey silt, mottled grey/brown/tan, with fine sand partings, slight fuel od	EXP
F-206	REI	05-MAR-86	19.5	20	SD	SP	1	Sand, mottled grey/tan, fine grained, damp, slight fuel odor.	EXP
F-206	REI	05-MAR-86	20	21	SDCL	SC	1	Silty, clayey sand, mottled, grey/tan/yellowish brown, with occasional fine graine	EXP
F-206	REI	05-MAR-86	21	23	SDSL	SM	1	Slightly silty sand, light brown, some grey calcareous silt streaks, damp, fuel odo	EXP
F-206	REI	05-MAR-86	23	24	GVL	GP	1	Gravel, fine to coarse grained, poorly sorted, subangular to rounded quartz, limes	EXP
F-206	REI	05-MAR-86	24	26	GVL	GP	1	Gravel, fine to coarse grained, poorly sorted, subangular to rounded quartz, limes	EXP
F-206	REI	05-MAR-86	26	27.5	GVCL	CL	1	Silty, gravelly clay, whitish brown, gravel is angular to rounded, fine to coarse gr	EXP
F-206	REI	05-MAR-86	27.5	28.5	GVL	GP	1	Gravel, subangular to rounded, fine to coarse grained, poorly sorted limestone, q	EXP
F-206	REI	05-MAR-86	28.5	30.25	CLAY	CL	1	Clay, tannish brown, laminated, iron staining on lamination planes, very stiff, not	EXP
F-206	REI	05-MAR-86	30.25	30.5	SHLE		2	Shale at 30.25, grey, consolidated, very fine grained, very calcareous.	EXP
F-207	REI	06-MAR-86	0	0.5	CN		0	Concrete/Aggregate base.	EXP
F-207	REI	06-MAR-86	0.5	4.5	CLAY	CL	1	Clay, red, stiff, slightly moist, not plastic. At 3 ft: fine sand partings.	EXP
F-207	REI	06-MAR-86	4.5	5.5	STCL	CL	1	Sandy silty clay, reddish brown, cohesive, slightly moist with fine sand partings.	EXP
F-207	REI	06-MAR-86	5.5	6	SDSL	SM	1	Silty sand, light brown with fine sand partings.	EXP
F-207	REI	06-MAR-86	6	8	SD	SP	1	Fine sand, light brown, dry, cohesive. At 7.5 ft: light tan with soft white calcare	EXP
F-207	REI	06-MAR-86	8	19.5	SD	SP	1	Fine to Medium sand, light brown, dry, not cohesive, calcareous. At 13.5 ft: mot	EXP
F-207	REI	06-MAR-86	19.5	24	SDSL	SM	1	Silty fine sand, mottled tan/light grey, very calcareous, slight fule odor, dry.	EXP
F-207	REI	06-MAR-86	24	28	SDSL	SM	1	Slightly silty fine sand, light brown with some light grey mottling, occasional sub	EXP
F-207	REI	06-MAR-86	28	29.5	SDCL	SC	1	Clayey coarse sand, mottled tan/light brown/light grey, slightly cemented, sand i	EXP
F-207	REI	06-MAR-86	29.5	34	GVST	GM	1	Silty gravel, subangular to rounded feldspar, limestone and quartz, fine to coarse	EXP
F-207	REI	06-MAR-86	34	35	LS		3	Limestone, light grey mottled with iron oxide staining, massive, consolidated, fin	EXP
F-208	REI	06-MAR-86	0	0.5	CN		0	Concrete slab.	EXP
F-208	REI	06-MAR-86	0.5	4	STCL	CL	1	Sandy silty clay, meterogeneous coloring, tannish green, reddish brown, dark bro	EXP
F-208	REI	06-MAR-86	4	16	STCL	CL	1	Silty clay, brown, some calcareous nodules, moist; 5.5 ft: lt. brn w/ silty sand pa	EXP
F-208	REI	06-MAR-86	16	19	GVCL	CL	1	Gravelly, silty clay, mottled tan/white, much white calcareous streaking, gravel is	EXP
F-208	REI	06-MAR-86	19	21	STCL	CL	1	Silty clay, mottled tan/white calcareous nodules not present, saturated with wat	EXP
F-208	REI	06-MAR-86	21	21.33	LS		3	Limestone, fossiliferous, pinkish white, consolidated.	EXP
F-209	REI	07-MAR-86	0	1.75	CN		1	Concrete slab.	EXP
F-209	REI	07-MAR-86	1.75	2	GVST	GM	1	Sandy, silty gravel, loose, dry.	EXP
F-209	REI	07-MAR-86	2	6	CLAY	CL	1	Clay, dark brown, stiff, slightly moist, roots present; 3 ft: with calcareous nodule	EXP
F-209	REI	07-MAR-86	6	8	STCL	CL	1	Slightly silty clay, mottled whitish grey/yellowish brown, medium stiff, slightly m	EXP
F-209	REI	07-MAR-86	8	8.25	STCL	CL	1	Gravelly silty clay, tannish grey, gravel is fine to medium subrounded to rounded	EXP
F-209	REI	07-MAR-86	8.25	10	CLAY	CL	1	Clay, mottled, dark brown/black, very stiff, slightly moist, roots.	EXP
F-209	REI	07-MAR-86	10	10.25	STCL	ML	1	Clayey silt, with occasional medium gravel, friable, moist, light black.	EXP
F-209	REI	07-MAR-86	10.25	11	STCL	CL	1	Gravelly, slightly silty clay, Meterogeneous coloring reddish brown/dark grey/yell	EXP
F-209	REI	07-MAR-86	11	12.25	GVCL	CL	1	Gravelly clay, reddish brown, streaked white, gravel is subrounded, fine to mediu	EXP
F-209	REI	07-MAR-86	12.25	14	SILT	ML	1	Silt, light grey with soft white calcareous nodules, very calcareous, dry, friable.	EXP
F-209	REI	07-MAR-86	14	15	SDSL	ML	1	Sandy silt, mottled yellowish brown/light grey with occasional limestone gravel,	EXP
F-209	REI	07-MAR-86	15	16.5	GVST	GM	1	Slightly silty gravel, light brown, loose, saturated with water, fuel odor present,	EXP
F-209	REI	07-MAR-86	16.5	17.75	GVCL	CL	1	Silty, very gravelly clay, light grey mottled yellowish brown, gravel is fine to coar	EXP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
F-209	REI	07-MAR-86	17.75	18	LS		3	Limestone, fossiliferous, pinkish white, consolidated.	EXP
F-210	REI	07-MAR-86	0	0.25	CN		0	Concrete slab.	EXP
F-210	REI	07-MAR-86	0.25	0.5	CLAY	CL	1	Clay, greyish green, some gravel, slightly moist, stiff.	EXP
F-210	REI	07-MAR-86	0.5	2	GVCL	CL	1	Sandy gravelly clay, dark brown, slightly wet.	EXP
F-210	REI	07-MAR-86	2	3	CLAY	CL	1	Clay, dark brown, 3" diameter limestone cobble present, very stiff, slightly moist	EXP
F-210	REI	07-MAR-86	3	4	STCL	CL	1	Silty clay, dark brown with white soft calcareous nodules, occasional coarse subr	EXP
F-210	REI	07-MAR-86	4	5	SDCL	CL	1	Sandy, silty clay, dark brown, slightly cohesive, moist.	EXP
F-210	REI	07-MAR-86	5	8	CLAY	CL	1	Clay, dark brown, soft white, calcareous nodules present, very stiff.	EXP
F-210	REI	07-MAR-86	8	13	STCL	CL	1	Very silty clay, limestone gravel, gravel is subangular to subrounded, fine to coar	EXP
F-210	REI	07-MAR-86	13	15.25	STCL	ML	1	Sandy, clayey silt, yellowish tan, roots present, saturated with water, fuel odor p	EXP
F-210	REI	07-MAR-86	15.25	16.5	STCL	CL	1	Slightly sandy, silty clay, with fine gravel and shell fragments, roots present, fuel	EXP
F-210	REI	07-MAR-86	16.5	17	LS		3	Limestone, fossiliferous, pinkish white, consolidated.	EXP
F-211	REI	07-MAR-86	0	0.5	CN		0	Concrete slab.	EXP
F-211	REI	07-MAR-86	0.5	1	SDSL	SM	1	Gravelly, silty sand, brown, dry.	EXP
F-211	REI	07-MAR-86	1	1.5	SD	SP	1	Fine sand, brown, water present.	EXP
F-211	REI	07-MAR-86	1.5	8	STCL	CL	1	Slightly silty clay, reddish brown, roots present, moderately stiff, slightly moist,	EXP
F-211	REI	07-MAR-86	8	17.75	SD	SP	1	Sandy, fine grained, slightly reddish brown, slightly moist, not calcareous; 9 ft: t	EXP
F-211	REI	07-MAR-86	17.75	18	GVST	GM	1	Sandy silty gravel, whitish tan, gravel is quartz, feldspar, limestone and chert, fin	EXP
F-211	REI	07-MAR-86	18	24	SD	SP	1	Sand, fine grained, tan, some white streaking, very calcareous, with occasional 1	EXP
F-211	REI	07-MAR-86	24	28	SDSL	SM	1	Silty fine sand, saturated with water, slightly plastic, calcareous.	EXP
F-211	REI	07-MAR-86	28	33	SDFN	SP	1	Interbedded fine sand/silty fine sand, light brown, mottled greyish-white/yellowis	EXP
F-211	REI	07-MAR-86	33	34	GVCL	GC	1	Silty, clayey gravel, yellowish brown/whitish grey, gravel is fine to medium, suba	EXP
F-211	REI	07-MAR-86	34	35.5	GVL	GP	1	Gravel, angular to rounded, fine to coarse, limestone, quartz, feldspar, chert, sat	EXP
F-211	REI	07-MAR-86	35.5	36	LS		3	Limestone, light grey, consolidated, very fine grained, some iron staining.	EXP
F-212	REI	04-SEP-86	0	0.5	CN		0	Concrete.	EXP
F-212	REI	04-SEP-86	0.5	6.5	GVCL	CL	1	FILL, gravelly clay, grey and brown, occasional fine sand and limestone pebbles,	EXP
F-212	REI	04-SEP-86	6.5	23	SHLE		2	Shale, brown with grey partings, occasional limestone layers ranging from 6-12 i	EXP
F-212	REI	04-SEP-86	23	25.25	SHLE		3	Shale, black, fissile, slightly moist.	EXP
F-212	REI	04-SEP-86	25.25	25.5	LS		3	Limestone, very dark grey, dense, slightly moist.	EXP
F-213	REI	09-SEP-86	0	0.5	CN		0	Concrete.	EXP
F-213	REI	09-SEP-86	0.5	3	SDCL	SC	1	FILL, clayey sand, dark brown, burnt charcoal appearance, no odor.	EXP
F-213	REI	09-SEP-86	3	9	STCL	CL	1	Sandy clay with silt, brown, moderately firm, cohesive < 5% weathered, calcare	EXP
F-213	REI	09-SEP-86	9	10.25	SDGR	GP	1	Sand and gravel, grey, medium to coarse sand, weathered limestone,occasional	EXP
F-213	REI	09-SEP-86	10.25	12	LS		3	Limestone, grey.	EXP
F-214	REI	04-SEP-86	0	17	GVCL	CL	1	FILL, gravelly clay, brown and grey, abundant asphalt and concrete fragments, sli	EXP
F-214	REI	04-SEP-86	17	18.25	STCL	CL	1	Silty clay, brown, occasional coarse grained gravel, limestone fragments, moist.	EXP
F-214	REI	04-SEP-86	18.25	20.5	LS		3	Shaley Limestone, grey, occasional shell fragments, weathered, solvent odors, m	EXP
F-215	REI	22-SEP-86	0	0.5	CN		0	Concrete.	EXP
F-215	REI	22-SEP-86	0.5	2	FILL		1	FILL, black, slightly moist.	EXP
F-215	REI	22-SEP-86	2	3	SDSL	SM	1	Silty sand, dark brown, slightly moist.	EXP
F-215	REI	22-SEP-86	3	8.25	STCL	ML	1	Clayey silt, dark reddish brown, abundant roots, slightly sandy at base, slightly m	EXP
F-215	REI	22-SEP-86	8.25	19.5	SDFN	SP	1	Fine sand, light yellowish brown, roots, limonite stains, slightly moist; 13 ft: 3-in	EXP
F-215	REI	22-SEP-86	19.5	25	SDSL	SM	1	Silty sand, slightly clayey, grey mottled yellowish brown, noncohesive, moist; 22	EXP
F-215	REI	22-SEP-86	25	29	STCL	ML	1	Clayey silt, slightly sandy, gray mottled yellowish brown, wet.	EXP
F-215	REI	22-SEP-86	29	30.5	SDMD	SP	1	Medium sand, light brown, well rounded grains, wet.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
F-215	REI	22-SEP-86	30.5	33	SDGR	GP	1	Sandy gravel, slightly clayey, limestone and quartz pebbles, < 5% mafics, fossil	EXP
F-215	REI	22-SEP-86	33	34	LS		3	Coquina Limestone, grey, moist.	EXP
F-216	REI	08-SEP-86	0	0.5	CN		0	Concrete.	EXP
F-216	REI	08-SEP-86	0.5	3	SDSL	SM	1	FILL, silty sand, dark brown, occasional gravel, slightly moist.	EXP
F-216	REI	08-SEP-86	3	6.25	SDCL	SC	1	Clayey sand, dark brown mottled black, occasional shell fragments, moist.	EXP
F-216	REI	08-SEP-86	6.25	14	STCL	CL	1	Slightly silty clay, light brown mottled reddish-brown, moderately soft, occasiona	EXP
F-216	REI	08-SEP-86	14	16	SD	SP	1	Sand, black and dark brown, burnt charcoal appearance, slight odor.	EXP
F-216	REI	08-SEP-86	16	18	STCL	ML	1	Clayey silt, olive mottled light red, firm, slightly moist.	EXP
F-216	REI	08-SEP-86	18	24	SDGR	SW	1	Gravelly sand, light brown, fine to medium grained, subrounded, <30% weather	EXP
F-216	REI	08-SEP-86	24	25.5	GVL	GP	1	Coquina and gravel, light brown to brown, coarse grained limestone, wet.	EXP
F-216	REI	08-SEP-86	25.5	26	LS		3	Shaley limestone, very dark grey, dense.	EXP
F-217	REI	08-SEP-86	0	0.5	CN		0	Concrete.	EXP
F-217	REI	08-SEP-86	0.5	14	SDSL	SM	1	FILL, silty sand with occasional gravel, heterogeneous coloring, burnt charcoal ap	EXP
F-217	REI	08-SEP-86	14	15	SD	SP	1	Sand, medium grey, subangular, medium grained, wet.	EXP
F-217	REI	08-SEP-86	15	15.75	SDCL	SC	1	Clayey sand, with occasional gravel, light brown, medium to coarse grained, wet	EXP
F-217	REI	08-SEP-86	15.75	17	GVL	GP	1	Gravel, slightly sandy, very pale to light brown, fine to coarse limestone gravel, l	EXP
F-217	REI	08-SEP-86	17	19	LS		3	Coquina Limestone, pale to light brown, dry.	EXP
F-218	ACUX	11-JAN-99	0	0	ASPT	CH	0	No lithology log for this hole.	IRP
F-218	REI	11-SEP-86	0	2.5	GVCL	CL	1	FILL. Gravelly clay, dark brown and brown, firm, calcareous nodules, roots.	EXP
F-218	REI	11-SEP-86	2.5	24	STCL	ML	1	Clayey silt, light brown, moderately cohesive, moderately firm, occasional limonit	EXP
F-218	REI	11-SEP-86	24	24.5	SDGR	GP	1	Sand and gravel, medium and coarse grained weathered limestone, moist.	EXP
F-218	REI	11-SEP-86	24.5	26	STCL	ML	1	Clayey silt, light brown.	EXP
F-218	REI	11-SEP-86	26	26.5	SDGR	GP	1	Sand and gravel, medium and coarse grained weathered limestone, moist.	EXP
F-218	REI	11-SEP-86	26.5	28	STCL	ML	1	Clayey silt, light brown.	EXP
F-218	REI	11-SEP-86	28	34.5	LS		2	Limestone, yellowish/brown mottled pale brown, fractured and very weathered li	EXP
F-218	REI	11-SEP-86	34.5	36	SHLE		3	Shale, very dark grey, occasional gravel and sand, brown fine grained limestone	EXP
F-219	REI	11-SEP-86	0	3	SDSL	SM	1	FILL, silty sand with gravel, light and pale brown, fine to coarse grained, roots.	EXP
F-219	REI	11-SEP-86	3	7	STCL	ML	1	Clayey silt, yellowish brown, mottled grey, < 20% weathered limestone modera	EXP
F-219	REI	11-SEP-86	7	18.5	SHLE		2	Shale, brown, noncohesive, occasional very weathered coarse limestone gravel,	EXP
F-219	REI	11-SEP-86	18.5	25	CLAY		2	Shaley clay, light brown and grey, slickensides < 10% black limonite staining, o	EXP
F-219	REI	11-SEP-86	25	34.75	CLAY		2	Shaley clay, with shale interbeds, medium grey, brittle, moist; 32 ft: becoming w	EXP
F-219	REI	11-SEP-86	34.75	35	SHLE		3	Shale, very dark grey, dense.	EXP
F-220	REI	05-SEP-86	0	8	GVCL	CL	1	FILL. Gravelly clay, grey mottled black, limonite staining, slightly moist; 5 ft: bec	EXP
F-220	REI	05-SEP-86	8	18.5	GVCL	CL	1	Gravelly clay, reddish brown, moist; 13 ft: becoming slightly sandy.	EXP
F-220	REI	05-SEP-86	18.5	26.5	CLAY	CL	1	Clay, black mottled brown, moderately plastic, moist.	EXP
F-220	REI	05-SEP-86	26.5	30.5	SDFN	SP	1	Fine sand, brown, gravelly at base, moist.	EXP
F-220	REI	05-SEP-86	30.5	31	SDGR	GP	1	Sandy gravel, grey, loosely cemented, moist.	EXP
F-220	REI	05-SEP-86	31	33.5	LS		3	Limestone, grey, well-cemented.	EXP
F-221	REI	10-SEP-86	0	1	CN		0	Concrete.	EXP
F-221	REI	10-SEP-86	1	3	SDCL	CL	1	FILL. Sandy clay, brown to dark brown, no odor, dry.	EXP
F-221	REI	10-SEP-86	3	7	STCL	CL	1	Silty clay, light brown, < 5% black limonite staining, occasional calcareous nodu	EXP
F-221	REI	10-SEP-86	7	17.5	SDSL	SM	1	Sandy silt, light brown, moderately firm, < 2% calcareous nodules, moist, mild p	EXP
F-221	REI	10-SEP-86	17.5	20	LS		2	Limestone, light grey, noncohesive, occasional coarse grained limestone gravel.	EXP
F-221	REI	10-SEP-86	20	21.75	LS		2	Coquina and fossiliferous clay, light grey, noncohesive, occasional coarse grained	EXP
F-221	REI	10-SEP-86	21.75	22	SHLE		3	Shale, very dark grey, dense.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
F-222	REI	23-SEP-86	0	10	FILL		1	FILL, slightly silty, reddish brown, moist.	EXP
F-222	REI	23-SEP-86	10	12.5	STCL	CL	1	Silty clay, slighlty gravelly, brown, moist, strong jet fuel odor; 11 ft: becoming w	EXP
F-222	REI	23-SEP-86	12.5	14.5	SDCL	SC	1	Clayey sand, brown, wet, jet fuel odor; 13 ft: becoming grey mottled brown.	EXP
F-222	REI	23-SEP-86	14.5	15	LS		3	Coquina, grey, weathered.	EXP
F-223	REI	23-SEP-86	0	1.5	CN		0	Concrete.	EXP
F-223	REI	23-SEP-86	1.5	9	FILL		1	Fill, dark brown, moist; 6 ft: very slight jet fuel odor.	EXP
F-223	REI	23-SEP-86	9	22	GVCL	CL	1	Silty clay with gravel, reddish brown, subrounded-rounded weathered limestone f	EXP
F-223	REI	23-SEP-86	22	22.3	LS		3	Limestone, grey, fossiliferous.	EXP
F8-1	SWL	04-SEP-86	0	1	GVST	GM	1	Gravelly silt, dark grey, roots, dry.	EXP
FB-1	SWL	04-SEP-86	1	2	GVST	GM	1	Silty gravel, brown, limestone fragments, dry.	EXP
FB-1	SWL	04-SEP-86	2	2.2	LS		3	Coquina.	EXP
FB-2	SWL	04-SEP-86	0	1	GVST	GM	1	Gravelly silt, dark grey, roots, dry.	EXP
FB-2	SWL	04-SEP-86	1	2	GVST	GM	1	Silty gravel, brown, limestone fragments, dry.	EXP
FB-2	SWL	04-SEP-86	2	2.2	LS		3	Coquina.	EXP
FSA3-1	HARG	06-JUN-88	0	5	FILL	ML	1	FILL, moderate brown, 5 YR 3/4, silt, clay, grass, roots, fine to medium grained	EXP
FSA3-1	HARG	06-JUN-88	5	15	STCL	ML	1	Clayey silt, light brown, 5 YR 5/6, moderately cohesive, moderately plastic, dens	EXP
FSA3-1	HARG	06-JUN-88	15	16	LS		3	Limestone, varicolored grey, N8 to N9, weathered, dry.	EXP
FSA3-1	HARG	06-JUN-88	16	19.5	LS		3	Fossiliferous Limestone, varicolored grey, N6 to N7, hard, dense, oyster fossils, d	EXP
FSA3-10	HARG	07-JUN-88	0	12	FILL		1	FILL. Moderate brown, 5 YR 4/4, clayey silts, silty clays, moderately cohesive, s	EXP
FSA3-10	HARG	07-JUN-88	12	16	STCL	CL	1	Silty clay, moderate brown, 5 YR 3/4, very cohesive, sticky, damp; At 15 ft, col	EXP
FSA3-10	HARG	07-JUN-88	16	20	LS		3	Fossiliferous limestone, varicolored grey, N6 to N9, hard, dense, oyster fossils, d	EXP
FSA3-11	HARG	08-JUN-88	0	8	FILL		1	FILL. Moderate brown, 5 YR 3/4, silty clays, trace fine to medium weathered lim	EXP
FSA3-11	HARG	08-JUN-88	8	15	STCL	CL	1	Silty Clay/Clay, light olive grey, 5 Y 5/2, moderately cohesive, slightly plastic, tra	EXP
FSA3-11	HARG	08-JUN-88	15	16	SDGR	SM	1	Gravelly, silty sand, light olive grey, 5 Y 5/2, sand is coarse grained, angular to s	EXP
FSA3-11	HARG	08-JUN-88	16	21	STCL	MLCL	1	Clayey silt, pale olive to yellowish grey, 10 Y 6/2 to 5 Y 7/2, moderately cohesiv	EXP
FSA3-11	HARG	08-JUN-88	21	22.5	LS		3	Fossiliferous Limestone, varicolored, grey, N6 to N7, hard, dense, oyster fossils,	EXP
FSA3-12	HARG	08-JUN-88	0	8	FILL		1	FILL. Moderate brown, 5 YR 3/4, clayey silts, moderately cohesive, slightly plasti	EXP
FSA3-12	HARG	08-JUN-88	8	13	STCL	CL	1	Silty clay, dusky yellowish brown, 10 YR 2/2, moderately cohesive, slightly plast	EXP
FSA3-12	HARG	08-JUN-88	13	16	GVST	CL	1	Gravelly, clayey silt, moderate brown, 5 YR 3/4, moderately cohesive, nonplastic	EXP
FSA3-12	HARG	08-JUN-88	16	17	SDGR	SM	1	Gravelly, silty sand, light olive grey, 5 Y 5/2, sand is coarse grained, angular to s	EXP
FSA3-12	HARG	08-JUN-88	17	19.5	LS		3	Fossiliferous Limestone, varicolored grey, N5 to N7, hard, dense, oyster fossils, d	EXP
FSA3-2	HARG	06-JUN-88	0	5	FILL		1	FILL, moderate brown, 5 YR 3/4, silts, clays, grass, roots, fine to medium, angul	EXP
FSA3-2	HARG	06-JUN-88	5	11	GVST	CL	1	Gravelly, clayey silt, moderate to pale brown, 5 YR 4/4 to 5 YR 5/2, moderately	EXP
FSA3-2	HARG	06-JUN-88	11	18.5	GVST	GM	1	Gravelly silt, greyish orange, 10 YR 7/4, noncohesive, gravel are angular to subro	EXP
FSA3-2	HARG	06-JUN-88	18.5	20	LS		3	Fossiliferous Limestone, varicolored grey, N5 - N7, hard, dense, oyster fossils, dr	EXP
FSA3-3	HARG	06-JUN-88	0	5	FILL		1	FILL, moderate brown, 5 YR 3/4, sand, silts, clays, dry; some fine to medium gra	EXP
FSA3-3	HARG	06-JUN-88	5	12	GVST	CL	1	Gravelly, clayey silt, varicolored grey, N5 - N6, oxidized, moderately cohesive, sli	EXP
FSA3-3	HARG	06-JUN-88	12	15	LS		3	Limestone, very light grey, N8, weathered, friable, dry.	EXP
FSA3-3	HARG	06-JUN-88	15	20	LS		3	Fossiliferous Limestone, varicolored grey, N6 - N7, hard, dense, oyster fossils, dr	EXP
FSA3-4	HARG	07-JUN-88	0	2	FILL		1	FILL. Moderate brown, 5 YR 3/4, sand, silts, dry.	EXP
FSA3-4	HARG	07-JUN-88	2	4	STCL	CL	1	Silty clay, moderate brown, 5 YR 3/4, very slightly damp, moderate fuel odor.	EXP
FSA3-4	HARG	07-JUN-88	4	7.5	STCL	ML	1	Clayey silt, varicolored grey, N6 - N6, oxidized, moderately cohesive, slightly pla	EXP
FSA3-4	HARG	07-JUN-88	7.5	14	LS		3	Limestone, varicolored grey, N7 to N8, weathered, hard, friable, dry.	EXP
FSA3-4	HARG	07-JUN-88	14	15	LS		3	Fossiliferous Limestone, varicolored grey, N4 - N7, slightly weathered, hard, oyst	EXP
FSA3-5	HARG	07-JUN-88	0	2	FILL		1	FILL. Light brown, 5 YR 5/6, sand, silt, some limestone cobbles, dry.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
FSA3-5	HARG	07-JUN-88	2	7	STCL	CL	1	Silty clay, light brown, 5 YR 5/6, moderately cohesive, moderately plastic, moist.	EXP
FSA3-5	HARG	07-JUN-88	7	8	LS		3	Fossiliferous Limestone, varicolored grey, N8 to N9, weathered, friable, dry.	EXP
FSA3-6	HARG	07-JUN-88	0	2	STCL	ML	1	Clayey silt, moderate brown, 5 YR 3/4, moderately cohesive, grass, roots, moist.	EXP
FSA3-6	HARG	07-JUN-88	2	5	SDSL	GM	1	Gravelly sandy silt/silty sand, moderate brown, 5 YR 3/4, blocky, friable, gravels	EXP
FSA3-6	HARG	07-JUN-88	5	8.5	SDSL	SM	1	Silty sand/clayey sand, dark yellowish brown, 10 YR 4/2, moderately cohesive,	EXP
FSA3-6	HARG	07-JUN-88	8.5	12	LS		3	Fossiliferous limestone w/ sand, varicolored grey, N5 to N8, weathered, sand is g	EXP
FSA3-7	HARG	07-JUN-88	0	6	FILL		1	FILL. Moderately brown, 5 YR 3/4, noncohesive, friable, sand, silt, some fine to	EXP
FSA3-7	HARG	07-JUN-88	6	11	STCL	CL	1	Clayey silt/silty clay, dusky yellow, 5 Y 6/4, moderately cohesive, slightly plastic	EXP
FSA3-7	HARG	07-JUN-88	11	15	LS		3	Fossiliferous Limestone with sand, varicolored grey, N5 to N9, weathered, sand i	EXP
FSA3-8	HARG	07-JUN-88	0	5	FILL		1	Fill, moderate brown, 5 YR 3/4, sands, silts, clays, some gravels, moderately coh	EXP
FSA3-8	HARG	07-JUN-88	5	9	STCL	CLML	1	Silty clay/Clayey silt, moderate brown to brownish grey, 5 YR 3/4 to 5 YR 4/1,	EXP
FSA3-8	HARG	07-JUN-88	9	15	LS		3	Fossiliferous Limestone, varicolored grey, N5 to N6, weathered, interbedded with	EXP
FSA3-9	HARG	07-JUN-88	0	6	FILL		1	FILL. Moderate brown, 5 YR 3/4, oxidized, gravels, sands, silts, clays, some con	EXP
FSA3-9	HARG	07-JUN-88	6	13	LS		3	Limestone, light olive grey, 5 Y 6/1, oxidized, weathered, limey clay matrix, mois	EXP
FSA3-9	HARG	07-JUN-88	13	14	LS		3	Fossiliferous Limestone, varicolored grey, N6 to N8, hard, dense, oyster fossils, d	EXP
FT08-11A	RAD	01-JAN-99	0	0	FILL	CL	1	NO LITHOLOGIC LOG AVAILABLE FOR THIS WELL.	IRP
FT08-11B	RAD	01-JAN-99	0	0	FILL	CL	1	NO LITHOLOGIC LOG AVAILABLE FOR THIS WELL.	IRP
FT09-12A	RAD	01-JAN-99	0	0	FILL	CL	1	NO LITHOLOGIC LOG AVAILABLE FOR THIS WELL.	IRP
GMI-01M		7/19/94	0	6.5	NAUM	GM	1	SAND, loose, silty, with limestone gravel to 2".	PAR
GMI-01M		7/19/94	6.5	9.5	NAUM	CL	1	CLAY, silty, plastic, yellow, with sm limestone gravel to 2", trash, heavy gauge	PAR
GMI-01M		7/19/94	9.5	16	NAUM	ML	1	SILT, clayey, brown, crumbly when dry, sl sticky when wet, trash including plast	PAR
GMI-01M		7/19/94	16	16	LS	NACM	3	LIMESTONE, bedrock.	PAR
GMI-02M		7/19/94	0	0.5	NAUM	SM	1	SAND, tan, silty w/2" of organic material w/ roots a top.	PAR
GMI-02M		7/19/94	0.5	5	NAUM	CL	1	CLAY, red, with limestone gravel, lower 3' of sample missing.	PAR
GMI-02M		7/19/94	5	24.5	NAUM	CL	1	CLAY, silty, reddish brown, < 10% sand, with limestone gravel, subrnd, 2" frag	PAR
GMI-02M		7/19/94	24.5	27.5	NAUM	ML	1	SILT, sandy, dark brown, v stiff, with limestone fragments.	PAR
GMI-02M		7/19/94	27.5	27.5	LS	NACM	2	LIMESTONE/MARL.	PAR
GMI-03M		7/19/94	0	5	NAUM	CL	0	CLAY, black, stiff, with reddish metallic oxide - 2" layer of white clay, trash - fib	PAR
GMI-03M		7/19/94	5	17.5	NAUM	ML	1	SILT, semi-plastic, light brown, 30% coarse sand, silica and carbonate.	PAR
GMI-03M		7/19/94	17.5	20	NAUM	GM	1	GRAVEL/SAND, clayey, black, loose sharp contact with above.	PAR
GMI-03M		7/19/94	20	21	NAUM	CL	1	CLAY, silty, plastic, mod reddish brown, with limestone gravel.	PAR
GMI-03M		7/19/94	21	22	NAUM	CL	1	CLAY, silty, plastic, gray orange, with 30 % limestone gravel.	PAR
GMI-03M		7/19/94	22	25	NAUM	CL	1	CLAY, silty, sl moist, plastic to stiff, dusky brown.	PAR
GMI-03M		7/19/94	25	27	NAUM	CL	1	CLAY, black.	PAR
GMI-03M		7/19/94	27	27.5	NAUM	CL	1	CLAY, light olive gray.	PAR
GMI-03M		7/19/94	27.5	27.5	LS	NACM	0	LIMESTONE.	PAR
GMI-04M		7/18/94	0	10	NAUM	ML	1	SILT, dry, loose, pale brown, with 3" organic/roots on top, pieces of concrete, m	PAR
GMI-04M		7/18/94	10	15	NAUM	CL	1	CLAY, silty, black, with sand, f gravel, moist, sl plastic.	PAR
GMI-04M		7/18/94	15	19.5	NAUM	ML	1	SILT, loose, black, with gravel, sand, metal, fibrous material.	PAR
GMI-04M		7/18/94	19.5	22.5	NAUM	CL	1	CLAY, stiff, gray, with metal, 5% large gravel.	PAR
GMI-04M		7/18/94	22.5	23	LS	NACM	3	LIMESTONE, hard.	PAR
GMI-04M		7/18/94	23	27	SHLE	NACM	3	SHALE, fissle, gray, hard.	PAR
GMI-05M		7/18/94	0	0.5	NAUM	CL	1	TOP SOIL, stiff, crumbly.	PAR
GMI-05M		7/18/94	0.5	2	NAUM	CL	1	CLAY, gray orange, with fine gravel.	PAR
GMI-05M		7/18/94	2	4	NAUM	CL	1	CLAY, stiff, striated, dry, dark brown to reddish brown.	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
GMI-05M		7/18/94	4	15	NAUM	CL	1	CLAY, brown, with sand and gravel, ang, plastic, moist, amount of sand decreas	PAR
GMI-05M		7/18/94	15	15.5	NAUM	CL	1	CLAY, sticky, wet, reddish brown, with subdiscoidal rock fragments < 0.5".	PAR
GMI-05M		7/18/94	15.5	17.5	NAUM	ML	1	SILT, sl sticky, wet, gray, 3" ls fragments.	PAR
GMI-05M		7/18/94	17.5	17.5	SEDU	NACM	0	WEATHERED BEDROCK.	PAR
HM-1	SWL	01-DEC-82	0	11	GVCL	CL	1	Fill-gravelly clay,dark brown, moist, stiff, cohesive. At 2 ft-asphalt particles; 4 ft	EXP
HM-1	SWL	01-DEC-82	11	11.5	CLAY	CL	1	Clay, dark brown, moist, zones of greenish yellow chemical residue, small particl	EXP
HM-1	SWL	01-DEC-82	11.5	14	STCL	CL	1	Silty clay, yellowish-brown, slightly moist, stiff, zones of reddish-orange residue,	EXP
HM-1	SWL	01-DEC-82	14	26	GVCL	CL	1	Gravelly clay, brown, moist, white limestone gravel up to 3/4 inch diameter; som	EXP
HM-1	SWL	01-DEC-82	26	29	SDSL	ML	1	Silty sand, brown-orange with zones of yellow and pink, moist, fine grained, wea	EXP
HM-1	SWL	01-DEC-82	29	34	LS		3	Clayey limestone, grey, moist, weathered, zones of orange and black discoloratio	EXP
HM-10	SWL	06-DEC-82	0	15	SDCL	GC	1	Fill, asphalt and subgrade, 1 ft sandy clay; 2 ft, slightly moist to moist, firm-very	EXP
HM-10	SWL	06-DEC-82	15	21	SDGR	SP	1	Gravelly sand, light brown-buff, wet, slightly dense, fine to coarse sand consistin	EXP
HM-10	SWL	06-DEC-82	21	22	LS		3	Shaley limestone, greyish blue-green, saturated, very dense, trace of clay, zones	EXP
HM-100	RAD	20-JAN-86	0	6	CLAY	CH	1	Clay, minor gravel, clay is dk brn, plastic, firm & damp to moist, gravel is lt. colo	EXP
HM-100	RAD	20-JAN-86	6	10.5	SD	SP	1	Sand, LS gravel & minor clay, calcareous, lt. brn, crumbly & dry, gravel increases	EXP
HM-100	RAD	20-JAN-86	10.5	32.5	SILT	MH	1	Silt, sand, calcareous, orange-brown, slightly consolidated & slightly damp, sand	EXP
HM-100	RAD	20-JAN-86	32.5	49	SD	SP	1	Sand, gravel, mottled tan & red, calcareous, poorly sorted, subrounded to suban	EXP
HM-101	RAD	21-JAN-86	0	2	FILL	GC	1	FILL. Clay, sand and gravel.	EXP
HM-101	RAD	21-JAN-86	2	17	SDSL	ML	1	Sand & silt, some clay & gravel, calcareous, mottled tan & brown, sand-primarily	EXP
HM-101	RAD	21-JAN-86	17	31	SDGR	SCGP	1	Clayey sand & limestone gravel, calcareous, mottled orange, brown & tan, firm,	EXP
HM-101	RAD	21-JAN-86	31	34	LS		3	Limestone, fossiliferous, medium to dark grey, sandy, dry.	EXP
HM-102	RAD	21-JAN-86	0	3	CLAY	CH	1	Clay, some limestone pea gravel and minor sand, dark brown, plastic and slighlty	EXP
HM-102	RAD	21-JAN-86	3	9	SD	SP	1	Sand, orange, very fine to fine grained, well sorted, subround to round, dry. Also	EXP
HM-102	RAD	21-JAN-86	9	9.3	SD		1	Sand, sand is calcareous, dark orange brown, fine grained, well sorted, subround	EXP
HM-102	RAD	21-JAN-86	9.3	12	LS		2	Limestone, buff, hard, competent with some weathered portions, layers of weat	EXP
HM-102	RAD	21-JAN-86	12	40	SHLE		2	Shale, mottled orange&tan layer & dk grey layer, calcareous, fissil, slight plastic t	EXP
HM-102	RAD	21-JAN-86	40	44	LS		3	Limestone, very fossiliferous, medium to dark grey, somewhat sandy from 41-44	EXP
HM-103	RAD	26-JAN-86	0	9	SDSL	ML	1	MINOR GRAVEL, CALCAREOUS, MOTTLED ORANGE AND BROWN, SAND IS FI	IRP
HM-103	RAD	26-JAN-86	9	35	STCL	ML	1	CALCAREOUS, MOTTLED ORANGE AND TAN, PLASTIC, COHESIVE, SOME LIM	IRP
HM-103	RAD	26-JAN-86	35	39	SHLE	NACM	2	BLUISH GRAY, CALCAREOUS, FISSILE, HARD, WET.	IRP
HM-104	RAD	27-JAN-86	0	3	FILL	CH	0	ASTM CODE INAPPROPRIATE. TOPSOIL, CALCAREOUS, DARK BROWN CLAYE	IRP
HM-104	RAD	27-JAN-86	3	5	STCL	ML	1	MINOR GRAVEL, CALCAREOUS, MOTTLED TAN AND ORANGE, PLASTIC, SLIG	IRP
HM-104	RAD	27-JAN-86	5	16	CLAY	CL	2	CALCAREOUS, MOTTLED TAN AND ORANGE, PLASTIC, SLIGHTLY DAMP.	IRP
HM-104	RAD	27-JAN-86	16	36	SHLE	NACM	2	CALCAREOUS, BUFF TO TAN, MINOR IRON STAINS, HARD, FRIABLE, DRY.	IRP
HM-104	RAD	27-JAN-86	36	39	LS	NACM	3	LIMESTONE, NO OTHER DESCRIPTION ON LITHOLOGIC LOG.	IRP
HM-105	RAD	11-AUG-86	0	0.75	CN		0	Concrete.	EXP
HM-105	RAD	11-AUG-86	0.75	19	CLAY	CHCL	1	Clay, minor gravel & sand, brown & grey, plastic, slightly damp; 14 ft: mottled t	EXP
HM-105	RAD	11-AUG-86	19	21	CLAY		3	Clay, same as above, but moist and gravel.	EXP
HM-106	RAD	26-JAN-86	0	1	CN		0	Concrete.	EXP
HM-106	RAD	26-JAN-86	1	2	FILL		1	FILL, sand with silt and minor gravel, tannish brown, slightly damp.	EXP
HM-106	RAD	26-JAN-86	2	12	SDSL	SM	1	Silt and sand, minor gravel, red, plastic; 5 ft: sand, some gravel & minor silt, calc	EXP
HM-106	RAD	26-JAN-86	12	14	CLAY	CL	1	Clay, minor gravel and sand, tan, slightly damp to dry.	EXP
HM-106	RAD	26-JAN-86	14	18	SHLE		2	Clay and shale, calcareous, mottled tan and grey, tough, plastic, red roots presen	EXP
HM-106	RAD	26-JAN-86	18	18.5	LS		2	Limestone, .5' thick.	EXP
HM-106	RAD	26-JAN-86	18.5	32	SHLE		2	Sandy shale, calcareous, mottled tan and grey, dry; 23-29 ft: alternating layers o	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-106	RAD	26-JAN-86	32	34	LS		3	Limestone, sandy, grey, fossiliferous.	EXP
HM-107	RAD	11-AUG-86	0	3	FILL		1	FILL, sand, brownish orange, fine-grained, minor gravel, dry.	EXP
HM-107	RAD	11-AUG-86	3	6	SD	SP	1	Sand, clayey with minor gravel, stiff to plastic, dry to slightly damp, brownish or	EXP
HM-107	RAD	11-AUG-86	6	15.5	CLAY		3	Clay, sandy, minor calcareous gravel, dark brownish grey, plastic, moist; 14 ft: s	EXP
HM-107	RAD	11-AUG-86	15.5	23	GVST		3	Silt and gravel, lenses of both from 15.5-23', calcareous, fossiliferous, dry.	EXP
HM-108	RAD	11-AUG-86	0	3	FILL	GP	1	FILL. Calcareous sand, fine-grained, gravel, dry, orange brown.	EXP
HM-108	RAD	11-AUG-86	3	7	SDGR	GC	1	Clayey sand and gravel, orange brown, calcareous, dry.	EXP
HM-108	RAD	11-AUG-86	7	12.5	CLAY	CH	1	Clay, sandy, minor calcareous gravel, plastic to stiff, dry to slightly damp, dark b	EXP
HM-108	RAD	11-AUG-86	12.5	14.2	GVST	MHGP	1	Silt and gravel, lenses of both from 13-14', calcareous, fossiliferous, dry 14-14.	EXP
HM-108	RAD	11-AUG-86	14.2	15	SHLE		3	Calcareous shale, lenses of weathered and unweathered shale, tan and bluish gre	EXP
HM-11	SWL	28-MAR-83	0	4	GVCL	GC	1	Fill, asphalt and subgrade; 1 ft, gravelly clay, brown, moist to slightly wet, no od	EXP
HM-11	SWL	28-MAR-83	4	5	SHLE		2	Clayey shale, light buff to brown, moist, firm, some thin beds of limestone, no vi	EXP
HM-11	SWL	28-MAR-83	5	12	LS		2	Limestone, light buff to white, slightly moist, dense, brittle, slightly fossiliferous,	EXP
HM-11	SWL	28-MAR-83	12	18	CLAY		2	Clay, buff-brown-green, moist, very firm, cohesive, shaley zones, some interbedd	EXP
HM-11	SWL	28-MAR-83	18	22	CLAY		2	Shaley clay, buff-green with orange hue, slightly moist, firm, slightly cohesive to	EXP
HM-11	SWL	28-MAR-83	22	28	SHLE		2	Shale, dark grey, moist, stiff, brittle, fissile, no fossils visible, limey, no odor.	EXP
HM-11	SWL	28-MAR-83	28	33	SHLE		2	Clayey shale, dark grey, moist (?), slightly stiff, brittle, fissile, some fossil shells (	EXP
HM-11	SWL	28-MAR-83	33	35.5	LS		3	Shell Agglomerate, light to dark grey, moist (?), dense, brittle, very fossiliferous (	EXP
HM-110	HARG	25-MAR-88	0	4	CLAY	CL	1	GRAVELLY, SILTY, 8ROWN, MODERATELY COHESIVE, MODERATELY PLASTIC.	IRP
HM-110	HARG	25-MAR-88	4	20	SILT	ML	1	CLAYEY, LIGHT 8ROWN, MODERATELY COHESIVE, SLIGHTLY PLASTIC.	IRP
HM-110	HARG	25-MAR-88	20	28.5	SD	SP	1	CLAYEY, GRAVELLY, LIGHT BROWN, MEDIUM TO COARSE, SUBANGULAR.	IRP
HM-110	HARG	25-MAR-88	28.5	32.5	SD	SM	1	LIGHT BROWN, FINE TO VERY FINE GRAINED, WELL ROUNDED, SILTY.	IRP
HM-110	HARG	25-MAR-88	32.5	34	CLAY	CL	1	MODERATE BROWN, VERY COHESIVE, PLASTIC, HARD, SILTY.	IRP
HM-110	HARG	25-MAR-88	34	37	LS	NACM	3	GRAY, FOSSILIFEROUS, 8RITTLE.	IRP
HM-111	HARG	25-MAR-88	0	3	STCL	CL	1	Silty clay, moderate brown, 5 YR 4/4, moderately cohesive, nonplastic, moist.	EXP
HM-111	HARG	25-MAR-88	3	5	SILT	MH	1	Silt, greyish orange, 10 YR 7/4, noncohesive, friable, minor gravel and caliche, gr	EXP
HM-111	HARG	25-MAR-88	5	15	SDGR	GM	1	Sandy, silty gravel, varicolored gravel, fine to coarse grained, angular to well rou	EXP
HM-111	HARG	25-MAR-88	15	28	STCL	ML	1	Clayey silt, light brown, 5 YR 5/6, slightly cohesive, nonplastic, trace gravel, sub	EXP
HM-111	HARG	25-MAR-88	28	43	SDSL	SM	1	Sandy silt, lt brn, 5 YR 5/6, slightly cohesive, nonplastic, trace gravel, subangula	EXP
HM-111	HARG	25-MAR-88	43	49	GVST	GM	1	Silty sandy gravel, varicolored, loose, fine to coarse grained, silt is light brown, 5	EXP
HM-111	HARG	25-MAR-88	49	53	LS		3	Fossiliferous Limestone, medium bluish grey to light bluish grey, 5 B 5/1 to 5 B 7	EXP
HM-112	HARG	25-MAR-88	0	25	CLAY	CL	1	SILTY, GRAVELLY, LIGHT BROWN, SLIGHTLY PLASTIC, MODERATELY COHESI	IRP
HM-112	HARG	25-MAR-88	25	27	GVL	GP	1	VARICOLORED, MEDIUM TO VERY COARSE GRAINED, SU8ANGULAR TO SU8R	IRP
HM-112	HARG	25-MAR-88	27	45	SDSL	SM	1	LIGHT BROWN, VERY SLIGHTLY COHESIVE, VERY SLIGHTLY PLASTIC, SATUR	IRP
HM-112	HARG	25-MAR-88	45	50.5	GVL	GP	1	VARICOLORED, SAND IS MEDIUM TO VERY COARSE GRAINED, SU8ROUNDED	IRP
HM-112	HARG	25-MAR-88	50.5	50.75	LS	NACM	3	ABUNDANT SHELL FRAGMENTS, HARD.	IRP
HM-113	HARG	26-MAR-88	0	30	STCL	CLML	1	Silty clay/clayey silt, light brown to medium brown, 5 YR 5/6 to 5/4, moderately	EXP
HM-113	HARG	26-MAR-88	30	47	SDSL	SM	1	Silty sand, light brown, 5/YR 5/6, sand is very fine-grained; silt is slightly cohesiv	EXP
HM-113	HARG	26-MAR-88	47	49	SDGR	GP	1	Gravelly sand, no recovery from core barrel. At 40.0 feet, auger refusal.	EXP
HM-114	HARG	31-JAN-89	0	0.5	FILL	CH	0	ASTM CODE INAPPROPRIATE, GRASS AND TOPSOIL.	IRP
HM-114	HARG	31-JAN-89	0.5	7	STCL	CL	1	DARK REDDISH BROWN, MODERATELY COHESIVE, MODERATELY PLASTIC, S	IRP
HM-114	HARG	31-JAN-89	7	12	STCL	ML	1	REDDISH YELLOW, MODERATELY COHESIVE, SLIGHTLY PLASTIC, SOME GRA	IRP
HM-114	HARG	31-JAN-89	12	25	SD	SP	1	YELLOW, VERY FINE GRAINED, SOFT, TRACE SILT.	IRP
HM-114	HARG	31-JAN-89	25	36.5	SDGR	SW	1	REDDISH YELLOW, MEDIUM TO COARSE, ANGULAR TO WELL ROUNDED, GRA	IRP
HM-115	HARG	31-JAN-89	0	0.5	FILL		1	Grass and topsoil.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-115	HARG	31-JAN-89	0.5	7	STCL	MLCL	1	Clayey silt/Silty clay, dark yellowish brown, 10 YR 3/4, moderately cohesive, mo	EXP
HM-115	HARG	31-JAN-89	7	10	GVST	GC	1	Gravelly clayey silt, yellow, 10 YR 7/8, brittle, noncohesive, gravel is 10-20%, fi	EXP
HM-115	HARG	31-JAN-89	10	14	STCL	ML	1	Clayey silt, Yellow, 10 YR 7/8, noncohesive. At 14 ft: trace sand.	EXP
HM-115	HARG	31-JAN-89	14	16	STCL	GC	1	Same as 7.0 to 10.0 feet, more gravel. At 15.5 to 16 feet, color change to light	EXP
HM-115	HARG	31-JAN-89	16	20	SDSL	SM	1	Silty sand, brown, 7.5 5/4, to yellowish red, 5 YR 5/8, very fine to fine, well sor	EXP
HM-115	HARG	31-JAN-89	20	24	SDGR	GP	1	Sandy gravel, varicolored, fine to coarse grained, wet.	EXP
HM-115	HARG	31-JAN-89	24	27	CLAY	CL	1	Limey clay, grey, 5 YR 6/1, weathered, oxidized, moist.	EXP
HM-115	HARG	31-JAN-89	27	27.01	LS		3	Limestone, light grey, 5 YR 7/1, to white, 5 YR 8/1, hard, dense, dry.	EXP
HM-116	HARG	31-JAN-89	0	0.5	FILL	CH	0	ASTM CODE INAPPROPRIATE, GRASS AND TOPSOIL.	IRP
HM-116	HARG	31-JAN-89	0.5	4	STCL	ML	1	YELLOWISH BROWN, MODERATELY COHESIVE, MODERATELY PLASTIC, TRAC	IRP
HM-116	HARG	31-JAN-89	4	6	SILT	ML	1	LIMEY, WHITE TO LIGHT BROWN, LOOSE, BRITTLE, WEAKLY CEMENTED, MOI	IRP
HM-116	HARG	31-JAN-89	6	20	CLAY	CL	1	LIMEY, WHITE, BRITTLE, FRIABLE TO FIRM, NONCOHESIVE, MOIST.	IRP
HM-116	HARG	31-JAN-89	20	31.5	SDSL	SM	1	REDDISH YELLOW, SAND IS VERY FINE GRAINED, SILT IS SLIGHTLY COHESIVE	IRP
HM-116	HARG	31-JAN-89	31.5	32	SDGR	GP	1	VARICOLORED, GRAVEL IS FINE TO COARSE GRAINED, SUBANGULAR TO WEL	IRP
HM-116	HARG	31-JAN-89	32	33	LS	NACM	2	LIGHT GRAY, HARD, DRY.	IRP
HM-117	HARG	01-FEB-89	0	0.5	ASPT		0	Asphalt and fill.	EXP
HM-117	HARG	01-FEB-89	0.5	9	GVCL	GMGC	1	Gravelly, silty clay, reddish yellow, 7.5 to 6/6, clay is moderately cohesive, mod	EXP
HM-117	HARG	01-FEB-89	9	24	STCL	ML	1	Clayey silt, same as .5 to 9 feet but less cohesive.	EXP
HM-117	HARG	01-FEB-89	24	26	SILT	ML	1	Silt, same as 9 to 24 feet, trace clay, very damp.	EXP
HM-117	HARG	01-FEB-89	26	36	SDSL	SM	1	Silty sand/sandy silt, yellowish red, 5 YR 5/6, sand is fine grained, well sorted, si	EXP
HM-117	HARG	01-FEB-89	36	39.5	SDGR	GM	1	Gravelly sand, varicolored, sand is fine to very coarse, subangular to well rounde	EXP
HM-117	HARG	01-FEB-89	39.5	39.51	LS		3	Fossiliferous limestone, grey, N5 to N7, fossils consist of oyster shells.	EXP
HM-118	ACUX	01-FEB-89	0	0.5	FILL	CL	0	LOGGING COMPANY WAS HARGIS & ASSOCIATES. ASTM CODE INAPPROPRI	IRP
HM-118	ACUX	01-FEB-89	0.5	10	STCL	ML	1	YELLOWISH RED, MODERATELY COHESIVE, MODERATELY PLASTIC, SOME IN	IRP
HM-118	ACUX	01-FEB-89	10	13.5	SILT	ML	1	REDDISH YELLOW, SOFT, NONCOHESIVE, MOIST.	IRP
HM-118	ACUX	01-FEB-89	13.5	14	STCL	ML	1	REDDISH YELLOW, FIRM, NONCOHESIVE, VERTICAL SEAMS OF LIMEY CLAY,	IRP
HM-118	ACUX	01-FEB-89	14	18	SILT	ML	1	REDDISH YELLOW, FIRM, NONCOHESIVE, DAMP.	IRP
HM-118	ACUX	01-FEB-89	18	27	SD	SP	1	YELLOWISH RED, FINE GRAINED, SOFT, CLEAN, WELL SORTED. SATURATED	IRP
HM-118	ACUX	01-FEB-89	27	27	LS	NACM	2	LIGHT GRAY, DENSE, HARD, DRY.	IRP
HM-119	ACUX	02-FEB-89	0	0.5	FILL	CL	0	LOGGING COMPANY WAS HARGIS & ASSOCIATES. ASTM CODE INAPPROPRI	IRP
HM-119	ACUX	02-FEB-89	0.5	1.5	STCL	ML	1	YELLOWISH RED, MODERATELY COHESIVE, MODERATELY PLASTIC, MOIST.	IRP
HM-119	ACUX	02-FEB-89	1.5	4	STCL	CL	1	DARK REDDISH BROWN, MODERATELY COHESIVE, MODERATELY PLASTIC, M	IRP
HM-119	ACUX	02-FEB-89	4	6	SILT	ML	1	DARK REDDISH GRAY TO REDDISH BROWN, SOFT, SOME FIRM TO FRIABLE LE	IRP
HM-119	ACUX	02-FEB-89	6	9	SDGR	GM	1	YELLOWISH RED TO REDDISH BROWN, SLIGHTLY MOIST.	IRP
HM-119	ACUX	02-FEB-89	9	14	SDSL	SM	1	REDDISH YELLOW TO WHITE, SLIGHTLY COHESIVE, FIRM TO FRIABLE, SLIGHT	IRP
HM-119	ACUX	02-FEB-89	14	26	SD	SP	1	VERY PALE BROWN, VERY FINE TO FINE GRAINED, SOFT, WELL SORTED. SA	IRP
HM-119	ACUX	02-FEB-89	26	32	SDGR	GM	1	VARICOLORED, FINE TO COARSE, SOME COBBLES UP TO 2.5 INCHES, ANGUL	IRP
HM-12	SWL	29-MAR-83	0	5	STCL	CL	1	Fill, asphalt and subgrade; 2 ft silty clay, dark brown, moist, firm, cohesive, no o	EXP
HM-12	SWL	29-MAR-83	5	9	LS		2	Silty clay/Limestone, interbedded; light brown to medium brown silty clay, moist	EXP
HM-12	SWL	29-MAR-83	9	18	CLAY		2	Clay, greenish-buff, moist, slightly firm to firm, cohesive, orange-yellow discolora	EXP
HM-12	SWL	29-MAR-83	18	20	CLAY		2	Shaley clay/limestone, interbedded, greenish-buff shaley clay, moist, slightly firm	EXP
HM-12	SWL	29-MAR-83	20	24	CLAY		2	Shaley clay, greyish-buff, moist, firm, slightly cohesive, some orange-brown disc	EXP
HM-12	SWL	29-MAR-83	24	32	CLAY		2	Clay, greenish-buff, moist, firm to slightly stiff, slightly cohesive, some orange-br	EXP
HM-12	SWL	29-MAR-83	32	33	SHLE		2	Shale, Medium to dark grey, very moist to slightly wet, firm to stiff, slightly cohe	EXP
HM-12	SWL	29-MAR-83	33	40	LS		3	Shell Agglomerate, light to dark grey, moist (?), dense to very dense, very fossilif	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-120	HARG	02-FEB-89	0	0.5	FILL	CL	0	ASTM CODE INAPPROPRIATE, GRASS AND TOPSOIL.	IRP
HM-120	HARG	02-FEB-89	0.5	3	SDSL	SM	1	YELLOWISH RED, SLIGHTLY COHESIVE, SAND IS VERY FINE TO FINE GRAINED	IRP
HM-120	HARG	02-FEB-89	3	9	SDCL	SC	1	LIGHT OLIVE GRAY, SAND IS VERY FINE TO FINE, CLAY IS MODERATELY COH	IRP
HM-120	HARG	02-FEB-89	9	11.5	SDGR	GP	1	YELLOWISH RED, SAND IS FINE TO COARSE, ANGULAR TO SUBANGULAR, GR	IRP
HM-120	HARG	02-FEB-89	11.5	14	CLAY	CL	1	LIGHT GRAY, DENSE, FIRM, BLOCKY, LIMEY.	IRP
HM-120	HARG	02-FEB-89	14	19	CLAY	CL	1	LIGHT GRAY, STICKY, VERY COHESIVE, SLIGHTLY PLASTIC, WET.	IRP
HM-120	HARG	02-FEB-89	19	20	LS	NACM	2	LIGHT GRAY, DENSE, HARD, SOME THIN INTERBEDDED MOIST CLAY STRINGE	IRP
HM-121	HARG	08-FEB-89	0	0.5	FILL	CL	0	ASTM CODE INAPPROPRIATE, GRASS AND TOPSOIL.	IRP
HM-121	HARG	08-FEB-89	0.5	3	STCL	CL	1	DARK BROWN, MODERATELY COHESIVE, MODERATELY LASTIC, SOME FINE G	IRP
HM-121	HARG	08-FEB-89	3	11	STCL	CL	1	REDDISH YELLOW, SLIGHTLY COHESIVE, NONPLASTIC, WEATHERED, SOME	IRP
HM-121	HARG	08-FEB-89	11	16.5	SILT	MH	1	REDDISH YELLOW, SOFT, LOOSE,NONCOHESIVE, SLIGHTLY MOIST, SOME CL	IRP
HM-121	HARG	08-FEB-89	16.5	24	SD	SP	1	YELLOW, VERY FINE TO FINE GRAINED, WELL SORTED, SATURATED AT 20 FE	IRP
HM-121	HARG	08-FEB-89	24	30	SDGR	SP	1	VARICOLORED, SAND IS FINE TO COARSE, SUBROUNDED TO ROUNDED, GRA	IRP
HM-121	HARG	08-FEB-89	30	31.5	SDGR	GW	1	VARICOLORED, GRAVEL IS POORLY SORTED, FINE TO COARSE GRAINED LIME	IRP
HM-122	HARG	15-FEB-89	0	0.5	FILL		1	Grass and topsoil.	EXP
HM-122	HARG	15-FEB-89	0.5	5	STCL	CL	1	Silty clay, dark brown, moderately cohesive, moderately plastic, some loose to fr	EXP
HM-122	HARG	15-FEB-89	5	15	STCL	GCGM	1	Gravelly, silty clay/gravelly clayey silt, dark brown, slightly cohesive, slightly plas	EXP
HM-122	HARG	15-FEB-89	15	20	GVCL	GC	1	Gravelly, limey clay, greenish grey, moderately cohesive, gravel is fine to mediu	EXP
HM-122	HARG	15-FEB-89	20	24	STCL	CL	1	Silty clay, dark brown, moderately cohesive, moderately plastic, some gravel, fin	EXP
HM-122	HARG	15-FEB-89	24	28.5	GVL	GC	1	Limey gravel, greenish grey, fine to ??? cobble size, angular to subrounded weat	EXP
HM-122	HARG	15-FEB-89	28.5	28.51	LS		3	Limestone, greenish grey, hard, no visible fossils.	EXP
HM-123	ACUX	15-FEB-89	0	0.5	OTHR	PT	0	GRASS AND TOPSOIL	IRP
HM-123	ACUX	15-FEB-89	0.5	3.5	STCL	CL	1	DARK BROWN, MODERATELY COHESIVE, MODERATELY PLASTIC, FIRM, MOIS	IRP
HM-123	ACUX	15-FEB-89	3.5	13.5	STCL	ML	1	LIGHT REDDISH BROWN, MODERATELY COHESIVE, SLIGHTLY PLASTIC, SOME	IRP
HM-123	ACUX	15-FEB-89	13.5	20	GVST	GC	1	TAN, GRAVEL IS FINE TO COARSE GRAINED WEATHERED LIMESTONE, SAND I	IRP
HM-123	ACUX	15-FEB-89	20	35	SS	NACM	1	LIGHT REDDISH BROWN, VERY FINE GRAINED, SOFT, SLIGHTLY MOIST, TRAC	IRP
HM-123	ACUX	15-FEB-89	35	40.5	GVL	GP	1	AUGER REFUSAL @ 40.5. VARICOLORED, FINE TO COARDE GRAINED, SANDY	IRP
HM-124	HARG	16-FEB-89	0	0.5	FILL		1	Grass and topsoil.	EXP
HM-124	HARG	16-FEB-89	0.5	7	STCL	CL	1	Silty clay, dark brown, moderately cohesive, slightly plastic, firm, slightly moist.	EXP
HM-124	HARG	16-FEB-89	7	14	STCL	ML	1	Clayey silt, tan, slightly cohesive, nonplastic, some fine grained, gravel consistin	EXP
HM-124	HARG	16-FEB-89	14	19	SDGR	GM	1	Sandy silty gravel, varicolored, gravel consists of medium to very coarse weather	EXP
HM-124	HARG	16-FEB-89	19	23.5	CLAY	CL	1	Limey clay, light grey, firm, blocky, slightly moist.	EXP
HM-124	HARG	16-FEB-89	23.5	25	LS		3	Limestone, light grey, hard, dry. At 24 to 25 feet, dark grey limey shale.	EXP
HM-125	ACUX	16-FEB-89	0	0.5	FILL	CL	0	LOGGING COMPANY WAS HARGIS & ASSOCIATES. ASTM CODE INAPPROPRI	IRP
HM-125	ACUX	16-FEB-89	0.5	18	STCL	CL	1	TAN, MODERATELY COHESIVE, MODERATELY PLASTIC, SLIGHTLY MOIST.	IRP
HM-125	ACUX	16-FEB-89	18	19	STCL	ML	1	TAN TO ORANGE, SLIGHTLY COHESIVE, SLIGHTLY PLASTIC, SLIGHTLY MOIST	IRP
HM-125	ACUX	16-FEB-89	19	25	SD	SP	1	TAN, VERY FINE TO FINE GRAINED, WELL SORTED, SOFT, TRACE SILT, SLIGH	IRP
HM-125	ACUX	16-FEB-89	25	27	SDGR	GW	1	SAND IS TAN TO ORANGE, FINE TO COARSE GRAINED, ANGULAR, POORLY S	IRP
HM-125	ACUX	16-FEB-89	27	33	CLAY	CL	1	LIMEY CLAY, LIGHT GRAY, FIRM, BLOCKY, HIGHLY WEATHERED, SOME ORAN	IRP
HM-125	ACUX	16-FEB-89	33	33	SHLE	NACM	2	BLUE GRAY, FIRM, DRY.	IRP
HM-126	HARG	16-FEB-89	0	0.5	FILL		1	Grass and topsoil.	EXP
HM-126	HARG	16-FEB-89	0.5	4.5	STCL	CL	1	Silty clay, dark brown, 7.5 YR 3/2, moderately cohesive, slightly plastic, sticky,	EXP
HM-126	HARG	16-FEB-89	4.5	9	STCL	ML	1	Clayey silt, very dark brown, 10 YR 3/2, slightly cohesive, nonplastic, trace fine-	EXP
HM-126	HARG	16-FEB-89	9	17	GVST	GCGM	1	Clayey gravelly silt, brownish yellow, 10 YR 6/6, slightly cohesive, nonplastic, gr	EXP
HM-126	HARG	16-FEB-89	17	32	SDSL	SM	1	Silty sand, reddish yellow, 5 YR 6/6, very fine-grained, well sorted, silt is slightly	EXP

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HM-126	HARG	16-FE8-89	32	36	SD	SP	1	Sand, reddish yellow, 5 YR 6/6, very fine to fine-grained, well sorted, trace silt.	EXP
HM-126	HARG	16-FEB-89	36	37	SDGR	SW	1	Sandy gravel, varicolored, fine to coarse grained, angular to subrounded weather	EXP
HM-126	HARG	16-FEB-89	37	37.01	LS		3	Limestone, light grey, N6 to N7, weathered, hard, dry.	EXP
HM-127	ACUX	18-FE8-89	0	0.5	OTHR	PT	1	GRASS AND TOPSOIL.	IRP
HM-127	ACUX	18-FEB-89	0.5	2	STCL	ML	1	REDDISH BROWN, MOD. COHESIVE, SLI. PLASTIC, SOME FINE-MED. LS GRAV	IRP
HM-127	ACUX	18-FEB-89	2	3	SILT	GC	1	YELLOWISH RED SILT WITH WHITE LIMEY CLAY, MED TO COARSE GRAVEL.	IRP
HM-127	ACUX	18-FEB-89	3	11	SILT	GC	1	REDDISH YELLOW GRAVELLY CLAYEY SILT.	IRP
HM-127	ACUX	18-FEB-89	11	20	SILT	GM	1	PINK TO REDDISH YELLOW, GRAVELLY, NONCOHESIVE, NONPLASTIC.	IRP
HM-127	ACUX	18-FE8-89	20	25	SILT	ML	1	BROWN, SLI. COHESIVE, MOIST TO SATURATED.	IRP
HM-127	ACUX	18-FEB-89	25	36	SDVF	SP	1	REDDISH YELLOW, VERY FINE TO FINE, WELL SORTED, SATURATED.	IRP
HM-127	ACUX	18-FE8-89	36	38.5	SDGR	GM	1	REDDISH YELOW, SAND IS FINE-COARSE, GRAVEL IS FINE TO MEDIUM.	IRP
HM-127	ACUX	18-FEB-89	38.5	38.5	LS	NACM	3	WALNUT FM. GRAY, HARD, DENSE, FOSSILIFEROUS.	IRP
HM-13	SWL	29-MAR-83	0	2	STCL	CL	1	Silty clay, dark brown, moist, firm, cohesive, grass, roots, organic material, no o	EXP
HM-13	SWL	29-MAR-83	2	8	GVCL	GC	1	Clayey gravels, greyish-buff, moist, unconsolidated, weathered dense limestone f	EXP
HM-13	SWL	29-MAR-83	8	10	SDGR	GP	1	Sandy gravel, greyish-buff gravel and light brown sand, very moist, loose, weath	EXP
HM-13	SWL	29-MAR-83	10	12	SDCL	ML	1	Clayey, silty sand, orange-buff, slightly wet, loose, fine to medium grained quart	EXP
HM-13	SWL	29-MAR-83	12	14	SDSL	SM	1	Silty sand, orange-buff, wet, loose, very fine to fine grained quartz sand, sand is	EXP
HM-13	SWL	29-MAR-83	14	26	SD	SP	1	Sand, orange-buff, slightly wet, loose, very fine to fine grained quartz, well sorte	EXP
HM-13	SWL	29-MAR-83	26	30	SDGR	SP	1	Sand/gravel, interbedded, grvl is white-buff-brn, slightly wet, dense weathered fo	EXP
HM-13	SWL	29-MAR-83	30	36	GVL	GW	1	Gravel, same gravel as 28 ft except grading coarser, less sand, some fragments	EXP
HM-13	SWL	29-MAR-83	36	44	LS		3	Shell agglomerate, medium to dark grey, wet (?), dense, very fossiliferous (oyste	EXP
HM-14	SWL	30-MAR-83	0	6	STCL	CL	1	Silty clay, dark brown, moist, firm to slightly stiff, slightly cohesive, some limest	EXP
HM-14	SWL	30-MAR-83	6	10	SDCL	CL	1	Sandy clay, light brown, moist, firm to very firm, slightly cohesive, sand is predo	EXP
HM-14	SWL	30-MAR-83	10	12	SDSL	CL	1	Silty, clayey sand, light buff with orange hue, moist to slightly wet, loose, very fi	EXP
HM-14	SWL	30-MAR-83	12	14	STCL	CL	1	Silty, sandy clay, light brown, slightly wet to wet, slightly firm to firm, slightly c	EXP
HM-14	SWL	30-MAR-83	14	21	SDCL	SC	1	Clayey sand, lt. brn., moist, loose, very fine to fine grained quartz sand with som	EXP
HM-14	SWL	30-MAR-83	21	42.5	SDGR	SP	1	Sandy gravel, lt brn, overall w/ various other colors, moist, loose to slightly dens	EXP
HM-14	SWL	30-MAR-83	42.5	52	LS		3	Shell agglomerate, medium to dark grey, wet, dense, very fossiliferous (oysters),	EXP
HM-14	SWL	30-MAR-83	52	58	SHLE		3	Shale, medium to dark grey, wet, stiff, brittle, fissile, calcareous, some fossils (o	EXP
HM-15	SWL	30-MAR-83	0	4	STCL	CL	1	Silty clay, dark brown, moist, firm, slightly cohesive, some fine-grained gravel, gr	EXP
HM-15	SWL	30-MAR-83	4	6	SDCL	CL	1	Sandy clay, medium brown, moist, firm to stiff, slightly cohesive, very fine-grain	EXP
HM-15	SWL	30-MAR-83	6	8	GVCL	CL	1	Sandy, gravelly clay, light to medium brown, moist, firm to very firm, slightly co	EXP
HM-15	SWL	30-MAR-83	8	10	SDCL	CL	1	Sandy clay, medium brown, moist, firm to very firm, slightly cohesive, fine-grain	EXP
HM-15	SWL	30-MAR-83	10	16	STCL	CL	1	Silty clay, light brown, moist to very moist, slightly firm, choesive, some fine-grai	EXP
HM-15	SWL	30-MAR-83	16	20	SDCL	CL	1	Sandy clay, light brown, moist, slightly firm, slightly cohesive, very fine- to fine-g	EXP
HM-15	SWL	30-MAR-83	20	23	GVST	GM	1	Grvl/sandy silt, interbedded, grvl is greyish-buff fragments of limestone&shells w	EXP
HM-15	SWL	30-MAR-83	23	32	GVST	GM	1	Same description as for sample at 20 ft except gravel is predominantly fine-grain	EXP
HM-15	SWL	30-MAR-83	32	34	SHLE		2	Shale, light buff, slightly moist, slightly firm, non-cohesive.	EXP
HM-15	SWL	30-MAR-83	34	36	LS		2	Limestone, greyish-buff, slightly moist, dense, fossiliferous (mollusks), interbedde	EXP
HM-15	SWL	30-MAR-83	36	44	SHLE		2	Shale/clay, interbedded, light buff, slightly moist, slightly firm to firm, slightly co	EXP
HM-15	SWL	30-MAR-83	44	50	LS		3	Shell agglomerate, medium to dark grey, moist, dense, very fossiliferous (oysters	EXP
HM-16	SWL	31-MAR-83	0	6	STCL	CL	1	Silty clay, dark brown, moist, firm to very firm, slightly cohesive, grass roots, org	EXP
HM-16	SWL	31-MAR-83	6	10	GVCL	CL	1	Gravelly clay, med. brown, moist, slightly cohesive, slightly fossiliferous limeston	EXP
HM-16	SWL	31-MAR-83	10	12	STCL	CL	1	Silty clay, light brown, moist, slightly firm, slightly cohesive, some limestone san	EXP
HM-16	SWL	31-MAR-83	12	14	GVCL	GC	1	Gravelly, sandy clay, light brown, moist, slightly firm, slightly cohesive, weathere	EXP

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HM-16	SWL	31-MAR-83	14	20	STCL	CL	1	Silty clay, lt. brn, moist, slightly firm, moderately cohesive, some fine-grained we	EXP
HM-16	SWL	31-MAR-83	20	22	SDGR	GP	1	Sandy gravel, light buff to brown, slightly moist, loose, predominantly fine-graine	EXP
HM-16	SWL	31-MAR-83	22	24	SLCL	CL	1	Silty clay/clayey silt, light orange-brown, slightly moist to moist, slightly firm, so	EXP
HM-16	SWL	31-MAR-83	24	26	SDSL	CLML	1	Clayey sand/clayey silt, light orange-brown, moist, loose sand, slightly cohesive	EXP
HM-16	SWL	31-MAR-83	26	30	SDSL	SM	1	Silty sand, light orange-brown, moist, loose, very fine- to fine-grained quartz san	EXP
HM-16	SWL	31-MAR-83	30	31	SDGR	GM	1	Gravelly, silty sand, light brown to buff, moist, loose, very fine- to fine-grained q	EXP
HM-16	SWL	31-MAR-83	31	34	LS		2	Shaley limestone, light buff, slightly moist, slightly dense to dense, fossiliferous (	EXP
HM-16	SWL	31-MAR-83	34	45	SHLE		2	Shale, light buff, slightly moist, very firm to stiff, interbedded fossiliferous limest	EXP
HM-16	SWL	31-MAR-83	45	50	LS		3	Shell agglomerate, medium to dark grey, dense, very fossiliferous (oysters), matri	EXP
HM-17	SWL	31-MAR-83	0	14	GVCL	CL	1	Fill, concrete pavement & subgrade. At 2 ft gravel/silt clay, lt. brn. to buff, moist	EXP
HM-17	SWL	31-MAR-83	14	18	SDGR	GM	1	Gravel/silty sand, light brown to buff, moist, gravel is slightly dense, subrounded	EXP
HM-17	SWL	31-MAR-83	18	20	SHLE		2	Shale, light grey to buff with green hue, moist, firm to stiff, slightly cohesive, br	EXP
HM-17	SWL	31-MAR-83	20	28	LS		2	Limestone/shale, interbedded, lt. grey to buff, slightly moist to moist, limestone i	EXP
HM-17	SWL	31-MAR-83	28	36	SHLE		2	Shale, dark grey, slightly moist, very firm to stiff, fissile, some clay.	EXP
HM-17	SWL	31-MAR-83	36	45	LS		3	Shell agglomerate, medium to dark grey, wet (?), dense, very fossiliferous (oyste	EXP
HM-18	SWL	31-MAR-83	0	10	GVCL	CL	1	Fill: Asphalt and subgrade. At 2 ft: gravelly clay, brown to black, moist, slightly	EXP
HM-18	SWL	31-MAR-83	10	16	SDSL	MH	1	Sandy silt, tan, slightly moist, loose, uniform, very fine- to fine-grained quartz sa	EXP
HM-18	SWL	31-MAR-83	16	22	SDSL	SM	1	Silty sand, darker tan than unit above, moist, loose, uniform, very fine- to fine-gr	EXP
HM-18	SWL	31-MAR-83	22	24	SDGR	GM	1	Gravelly, silty sand, tan, moist, loose, uniform, very fine- to fine-grained quartz s	EXP
HM-18	SWL	31-MAR-83	24	32	GVL	GW	1	Gravel, multi-colored, wet, loose, fine- to medium-grained fragments of mollusk s	EXP
HM-18	SWL	31-MAR-83	32	38	LS		3	Shell agglomerate, medium to dark grey, wet, dense, very fossiliferous (oysters),	EXP
HM-19	SWL	01-APR-83	0	12	SDCL	CL	1	Fill. Asphalt and subgrade. 2 ft Sandy clay, med. to dk. brn., moist, slightly firm	EXP
HM-19	SWL	01-APR-83	12	16	SD	SP	1	Sand, light tan, slightly moist, loose, well sorted, subrounded, fine- to medium-gr	EXP
HM-19	SWL	01-APR-83	16	18	SHLE		2	Sandy shale/sandy clay, greyish-buff, slighlty moist, firm to stiff, slightly cohesiv	EXP
HM-19	SWL	01-APR-83	18	28	LS		3	Shell agglomerate, med. to dk. grey, slightly moist, dense, very fossiliferous (oys	EXP
HM-2	SWL	02-DEC-82	0	5	CLAY	CL	1	Fill, dark brown clay with light brown gravelly-clay zones, moist, firm, grey-white	EXP
HM-2	SWL	02-DEC-82	5	7	GVCL	CL	1	Gravelly clay, reddish-brown, slightly moist, very stiff, gravel up to 3/4 inch diam	EXP
HM-2	SWL	02-DEC-82	7	10	SDCL	SC	1	Clayey sand, orange-brown, slightly moist, slightly dense, fine grained, some whi	EXP
HM-2	SWL	02-DEC-82	10	14	SDCL	CL	1	Sandy clay, orange-brown, moist, firm to stiff, uniform, trace of weathered limes	EXP
HM-2	SWL	02-DEC-82	14	20	SD	SP	1	Sand, orange-buff, moist to slightly moist, loose, fine-grained quartz sand, unifor	EXP
HM-2	SWL	02-DEC-82	20	24	SDGR	SW	1	Gravelly sand, brownish-buff, moist, grading to more gravel and clay at 20.5 feet	EXP
HM-2	SWL	02-DEC-82	24	25	SDSL	ML	1	Silty sand, buff, very wet, coarse.	EXP
HM-2	SWL	02-DEC-82	25	29	SDCL	CL	1	Sandy clay, light brown-buff, very wet, soft to firm, cohesive.	EXP
HM-2	SWL	02-DEC-82	29	33	SDGR	GM	1	Sand/Gravel, light brown-buff, very wet, fragments of limestone, quartz, and che	EXP
HM-2	SWL	02-DEC-82	33	35	LS		3	Limestone, blue-grey, moist, dense abundant shells, Walnut formation.	EXP
HM-20	SWL	01-APR-83	0	12	GVCL	CL	1	FILL, sandy gravelly clay, wet, slightly firm, slightly cohesive, limestone gravel u	EXP
HM-20	SWL	01-APR-83	12	24	SD	SP	1	Sand, orange-tan, moist, loose, uniform well sorted, subrounded, fine-grained qu	EXP
HM-20	SWL	01-APR-83	24	30	SDGR	SP	1	Gravelly sand, tan to buff, slightly wet, loose, med.- to coarse-grained quartz san	EXP
HM-20	SWL	01-APR-83	30	32	SDCL	SCCL	1	Clayey gravelly sand, light buff to brown, wet, loose, medium- to coarse-grained	EXP
HM-20	SWL	01-APR-83	32	34	SDGR	GP	1	Sandy gravel, buff, wet, loose, fine-grained limestone gravel, coarse-grained san	EXP
HM-20	SWL	01-APR-83	34	40	LS		3	Shell agglomerate, medium to dark grey, wet, dense, weathered, very fossilifero	EXP
HM-21	SWL	01-APR-83	0	4	STCL	CL	1	FILL. Silty clay, brown, moist, slightly firm, slightly cohesive, white and orange	EXP
HM-21	SWL	01-APR-83	4	15	LS		3	Shell agglomerate, light buff to brown, moist, dense, weathered, very fossiliferou	EXP
HM-22	SWL	23-MAY-83	0	1.5	GVCL	CL	1	Silty, gravelly clay, light to dark brown, moist, slightly firm, slightly cohesive, lim	EXP
HM-22	SWL	23-MAY-83	1.5	8	SHLE		2	Shale/clay/limestone, interbedded, light buff to brown, slightly moist, dense limes	EXP

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HM-22	SWL	23-MAY-83	8	18.5	SHLE		2	Shale/clay, interbedded, light grey to brown, slightly moist, slightly firm to slightl	EXP
HM-22	SWL	23-MAY-83	18.5	20	SHLE		2	Shale, dark grey, slightly moist, firm, brittle, fissile, no odor.	EXP
HM-22	SWL	23-MAY-83	20	26	LS		2	Shaley limestone, medium grey, slightly moist, slightly dense to dense, brittle, sli	EXP
HM-22	SWL	23-MAY-83	26	28	SHLE		2	Shale, dark grey, slightly moist, slightly firm to firm, slightly cohesive, fissile, no	EXP
HM-22	SWL	23-MAY-83	28	34	SHLE		2	Shaley clay, dark grey, slightly moist, slightly firm to firm, slightly cohesive, no f	EXP
HM-22	SWL	23-MAY-83	34	48	SHLE		2	Shaley clay/Clayey shale, interbedded, dk grey, slightly moist, slightly firm to fir	EXP
HM-22	SWL	23-MAY-83	48	55	LS		3	Shell agglomerate, medium to dark grey, dense to very dense, very fossiliferous (	EXP
HM-23	SWL	23-MAY-83	0	2	STCL	CL	1	Silty clay, dark brown, moist to slightly wet, slightly firm, slightly cohesive, trace	EXP
HM-23	SWL	23-MAY-83	2	4	SDCL	CL	1	Sandy clay, medium brown, moist, firm, very slightly cohesive, trace limestone g	EXP
HM-23	SWL	23-MAY-83	4	6	GVCL	CL	1	Sandy, gravelly clay, medium brown, moist, firm, slightly cohesive, weathered li	EXP
HM-23	SWL	23-MAY-83	6	20	STCL	CL	1	Silty clay, lt. brn, moist to very moist, slightly firm, slightly cohesive, some weat	EXP
HM-23	SWL	23-MAY-83	20	36	SDGR	GP	1	Sand & gravel, light buff to brown, moist to very moist, loose, coarse-grained, an	EXP
HM-23	SWL	23-MAY-83	36	43	GVCL	GC	1	Clayey, sandy gravel, light buff to brown, wet, loose, coarse-grained fragments o	EXP
HM-23	SWL	23-MAY-83	43	50	LS		3	Shell agglomerate, light to dark grey, slightly moist to moist, very dense, very fo	EXP
HM-24	HARG	24-MAY-83	0	4	FILL	CL	0	ASTM CODE INAPPROPRIATE.	IRP
HM-24	HARG	24-MAY-83	4	7.5	STCL	CL	1	LIGHT BROWN, MOIST, FIRM, VERY SLIGHTLY COHESIVE, TRACE GRAVEL, SA	IRP
HM-24	HARG	24-MAY-83	7.5	13.5	STCL	ML	1	LIGHT BROWN, SLIGHTLY MOIST, SLIGHTLY LOOSE, TRACE LIMESTONE GRA	IRP
HM-24	HARG	24-MAY-83	13.5	16	SD	SP	1	MEDIUM BROWN, WET, LOOSE, COARSE GRAINED FRAGMENTS OF QUARTZ,	IRP
HM-24	HARG	24-MAY-83	16	17	SDGR	GP	1	LIGHT BROWN TO GRAY, WET, LOOSE, WEATHERED LIMESTONE AND SHELL	IRP
HM-24	HARG	24-MAY-83	17	20	CLAY	CL	2	GREENISH BUFF, WET, VERY FIRM TO SLIGHTLY STIFF, SLIGHTLY COHESIVE.	IRP
HM-24	HARG	24-MAY-83	20	22	SHLE	NACM	2	GREENISH BUFF, SLIGHLTY MOIST, STIFF, SLIGHTLY COHESIVE.	IRP
HM-24	HARG	24-MAY-83	22	24	LS	NACM	2	BUFF TO GRAY, SLIGHTLY MOIST, SLIGHTLY DENSE, BRITTLE, FEW VISIBLE F	IRP
HM-24	HARG	24-MAY-83	24	28	SHLE	NACM	2	BUFF TO GRAY WITH ORANGE-BROWN DISCOLORATION, SLIGHTLY MOIST T	IRP
HM-24	HARG	24-MAY-83	28	30	CLAY	CL	2	DARK GRAY, VERY MOIST TO WET, FIRM, SLIGHTLY COHESIVE, NO FOSSILS.	IRP
HM-24	HARG	24-MAY-83	30	34	SHLE	NACM	2	DARK GRAY, MOIST, VERY FIRM, SLIGHTLY COHESIVE, FISSILE.	IRP
HM-24	HARG	24-MAY-83	34	36	SHLE	NACM	2	DARK GRAY, SLIGHTLY MOIST, DENSE, FISSILE, BRITTLE, SLIGHTLY FOSSILIF	IRP
HM-24	HARG	24-MAY-83	36	43	LS	NACM	3	MEDIUM TO DARK GRAY, SLIGHTLY MOIST, VERY DENSE, VERY FOSSILIFERO	IRP
HM-25	SWL	24-MAY-83	0	4	SDSL	MH	1	FILL. Concrete pavement and subgrade. At 1 foot, sandy silt, light brown, moist	EXP
HM-25	SWL	24-MAY-83	4	12	STCL	CL	1	Silty, sandy clay, light brown, moist, slightly firm, slightly cohesive, trace gravel,	EXP
HM-25	SWL	24-MAY-83	12	14	STCL	ML	1	Sandy, clayey silt, light brown, very moist to wet, slightly loose, trace gravel up	EXP
HM-25	SWL	24-MAY-83	14	20	STCL	CL	1	Silty, sandy clay, light brown, wet, slightly firm, slightly cohesive, trace gravel, s	EXP
HM-25	SWL	24-MAY-83	20	22	GVCL	GC	1	Sandy, gravelly clay, medium brown, wet, slightly soft to slightly firm, slightly co	EXP
HM-25	SWL	24-MAY-83	22	24	SDGR	GW	1	Sand and gravel, wet, loose, coarse-grained limestone sand, weathered limeston	EXP
HM-25	SWL	24-MAY-83	24	32	CLAY		2	Shaley clay, greenish buff, very moist, firm to very firm, slightly cohesive, very s	EXP
HM-25	SWL	24-MAY-83	32	34	SHLE		2	Shale, medium to dark grey, slightly moist, slightly dense to dense, brittle, some	EXP
HM-25	SWL	24-MAY-83	34	43	LS		3	Shell agglomerate, medium to dark grey, slightly moist, very dense, very fossilife	EXP
HM-26	SWL	25-MAY-83	0	2	SDCL	SC	1	FILL. Clayey sand, light to dark brown, moist, loose, coarse-grained, poorly sorte	EXP
HM-26	SWL	25-MAY-83	2	8	SDGR	GW	1	Sand and gravel, grey-brown, wet, loose, coarse-grained, subangular to subround	EXP
HM-26	SWL	25-MAY-83	8	16	LS		3	Shell agglomerate, medium to dark grey, dense, very fossiliferous (oysters), matri	EXP
HM-27	SWL	25-MAY-83	0	4	STCL	CL	1	FILL, silty clay, light brown to black, very moist, slightly firm, slightly cohesive, a	EXP
HM-27	SWL	25-MAY-83	4	10	SDGR	GW	1	Sand and gravel, wet, loose, coarse-grained limestone and quartz sand, gravel up	EXP
HM-27	SWL	25-MAY-83	10	16	LS		3	Shell agglomerate, medium to dark grey, dense, very fossiliferous (oysters), matri	EXP
HM-28	SWL	25-MAY-83	0	6	SDCL	CL	1	FILL. Sandy clay, light to medium brown, very moist, slightly firm, slightly cohes	EXP
HM-28	SWL	25-MAY-83	6	16	STCL	CL	1	Silty clay/clayey silt, light brown, slightly moist, slightly firm, trace sand and gra	EXP
HM-28	SWL	25-MAY-83	16	20	SDSL	ML	1	Sandy, clayey silt, light brown, moist, slightly loose, fine- to medium-grained san	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-28	SWL	25-MAY-83	20	24	GVCL	CL	1	Sandy, gravelly clay, light to medium brown, moist to very moist, firm, slightly c	EXP
HM-28	SWL	25-MAY-83	24	26	SDCL	CL	1	Sandy clay, light to medium brown, slightly moist to moist, slightly firm, slightly	EXP
HM-28	SWL	25-MAY-83	26	28	SDGR	GP	1	Sand and Gravel, light brown to buff, wet, loose, coarse-grained, poorly sorted, li	EXP
HM-28	SWL	25-MAY-83	28	34	SHLE		2	Clay/shale, interbedded, greyish green, moist, very firm to stiff, slightly cohesive,	EXP
HM-28	SWL	25-MAY-83	34	36	SHLE		2	Shale, medium to dark grey, slightly moist, dense, brittle, fissile, no odor.	EXP
HM-28	SWL	25-MAY-83	36	41.5	LS		3	Shell agglomerate, medium to dark grey, dense, very fossiliferous (oysters), matri	EXP
HM-29	SWL	25-MAY-83	0	8	GVCL	CL	1	FILL, silty, gravelly clay, medium brown, slightly moist, slightly firm, slightly coh	EXP
HM-29	SWL	25-MAY-83	8	24	SDSL	SM	1	Silty sand, light buff, slightly moist, loose, very fine- to fine-grained sand, well so	EXP
HM-29	SWL	25-MAY-83	24	28	SDSL	MH	1	Sandy silt, light buff to brown, very moist to wet, slightly loose, very fine- to fin	EXP
HM-29	SWL	25-MAY-83	28	32	STCL	CL	1	Silty clay, light brown, wet, slightly firm, slightly cohesive to cohesive, some san	EXP
HM-29	SWL	25-MAY-83	32	34	GVCL	CL	1	Sandy, gravelly clay, light to medium brown, wet, slightly firm, slightly cohesive,	EXP
HM-29	SWL	25-MAY-83	34	39	SDGR	GW	1	Sand and gravel, medium to light buff-brown, wet, loose, coarse-grained sand, li	EXP
HM-29	SWL	25-MAY-83	39	40	SHLE		3	Shale, dark grey, wet, dense, brittle, fissile, no odor.	EXP
HM-29	SWL	25-MAY-83	40	44	LS		3	Shell agglomerate, medium to dark grey, dense, very fossiliferous (oysters), matri	EXP
HM-30	HARG	26-MAY-83	0	12	FILL	CL	0	ASTM CODE INAPPROPRIATE.	IRP
HM-30	HARG	26-MAY-83	12	22	STCL	CL	1	LIGHT BROWN, WET, SLIGHTLY FIRM, VERY SLIGHTLY COHESIVE, TRACE GR	IRP
HM-30	HARG	26-MAY-83	22	24	STCL	ML	1	LIGHT BUFF TO BROWN, VERY MOIST, SLIGHTLY LOOSE, SOME FINE TO MEDI	IRP
HM-30	HARG	26-MAY-83	24	26	SDSL	SM	1	LIGHT BUFF TO BROWN, VERY MOIST, SLIGHTLY LOOSE, VERY FINE TO MEDI	IRP
HM-30	HARG	26-MAY-83	26	28	STCL	ML	1	LIGHT BUFF TO BROWN, VERY MOIST, LOOSE, SOME SAND AND GRAVEL.	IRP
HM-30	HARG	26-MAY-83	28	30	CLAY	CL	1	LIGHT BUFF TO BROWN, VERY MOIST, SLIGHTLY FIRM, SLIGHTLY COHESIVE.	IRP
HM-30	HARG	26-MAY-83	30	32	CLAY	CL	1	LIGHT BROWN, SANDY, MOIST, SLIGHTLY FIRM, SLIGHTLY COHESIVE, FINE T	IRP
HM-30	HARG	26-MAY-83	32	34	CLAY	CL	1	SANDY, LIGHT BROWN, VERY MOIST, LOOSE, FINE TO MEDIUM SAND, LIMES	IRP
HM-30	HARG	26-MAY-83	34	36	CLAY	CL	1	SANDY, LIGHT BROWN, VERY MOIST, SLIGHTLY FIRM, SLIGHTLY COHESIVE,	IRP
HM-30	HARG	26-MAY-83	36	38	CLAY	CL	1	LIGHT BROWN, VERY MOIST, SLIGHTLY FIRM, SLIGHTLY COHESIVE, VERY FIN	IRP
HM-30	HARG	26-MAY-83	38	40	SDGR	SP	1	LIGHT GRAY TO LIGHT BROWN, WET, SLIGHTLY LOOSE, LIMESTONE, QUART	IRP
HM-30	HARG	26-MAY-83	40	44	CLAY	CL	2	GREENISH GRAY WITH SOME ZONES OF RUSTY BROWN, SLIGHTLY FIRM TO F	IRP
HM-30	HARG	26-MAY-83	44	46	SHLE	NACM	2	DARK GRAY, SLIGHTLY MOIST, DENSE, BRITTLE, FISSILE, NO FOSSILS.	IRP
HM-30	HARG	26-MAY-83	46	54	LS	NACM	3	MEDIUM TO DARK GRAY, DENSE, VERY FOSSILIFEROUS, MATRIX AND INTER	IRP
HM-31	HARG	26-MAY-83	0	6	FILL	CH	0	ASTM CODE INAPPROPRIATE.	IRP
HM-31	HARG	26-MAY-83	6	8	STCL	CL	1	MEDIUM TO DARK BROWN, WET, SLIGHTLY FIRM, MODERATELY COHESIVE,	IRP
HM-31	HARG	26-MAY-83	8	10	SDGR	SP	1	LIGHT BUFF TO BROWN, WET, LOOSE, WEATHERED LIMESTONE SAND AND G	IRP
HM-31	HARG	26-MAY-83	10	16	CLAY	CL	2	GREENISH GRAY, MOIST, VERY FIRM, COHESIVE.	IRP
HM-31	HARG	26-MAY-83	16	19	SHLE	NACM	2	INTERBEDDED SHALE AND LIMESTONE, LIGHT GRAY, DENSE, MOIST, SHALE	IRP
HM-31	HARG	26-MAY-83	19	32	SHLE	NACM	2	MEDIUM TO DARK GRAY, SLIGHTLY MOIST, SLIGHTLY DENSE TO DENSE, BRI	IRP
HM-31	HARG	26-MAY-83	32	36	SHLE	NACM	2	INTERBEDDED SHALE AND LIMESTONE, MEDIUM TO DARK GRAY, SLIGHTLY	IRP
HM-31	HARG	26-MAY-83	36	39	LS	NACM	3	MEDIUM TO DARK GRAY, DENSE, VERY FOSSILIFEROUS, MATRIX AND INTER	IRP
HM-32	SWL	13-APR-84	0	2	STCL	CL	1	FILL, silty clay, dark brown, moist to very moist, trace of gravel, firm, cohesive.	EXP
HM-32	SWL	13-APR-84	2	4	STCL	ML	1	Sandy, clayey silt, orange brown, slightly moist, some gravel, fine to coarse sand	EXP
HM-32	SWL	13-APR-84	4	6	SDGR	GM	1	Sandy, silty gravel, buff to light brown, slighlty moist to moist, some clay, loose.	EXP
HM-32	SWL	13-APR-84	6	8	SDSL	MLCL	1	Silty, clayey sand, light orange, slightly moist to moist, fine- to coarse-grained, tr	EXP
HM-32	SWL	13-APR-84	8	14	SDGR	SP	1	Gravelly sand, buff to light brown, slightly moist, coarse-grained, fine limestone	EXP
HM-32	SWL	13-APR-84	14	21	SDSL	ML	1	Silty sand, light orange, slightly moist, fine- to medium-grained, trace of clay, so	EXP
HM-32	SWL	13-APR-84	21	22	SDSL	ML	1	Sandy silt, light grey and light brown, moist, trace of clay and gravel, sand medi	EXP
HM-32	SWL	13-APR-84	22	26	STCL	CL	1	Silty clay/clayey silt, light grey and light brown, moist, clay is slightly cohesive a	EXP
HM-32	SWL	13-APR-84	26	29	STCL	CL	1	Silty clay, light brown, moist, slightly cohesive, firm.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-32	SWL	13-APR-84	29	31	SDGR	SW	1	Gravelly sand, light grey and light grown, slightly moist fine-grained sand with fin	EXP
HM-32	SWL	13-APR-84	31	40	SDGR	GM	1	Silty sand and gravel, light grey and light brown, moist, fine- to medium-grained	EXP
HM-32	SWL	13-APR-84	40	46	LS		3	Shell agglomerate, medium to dark grey, wet (?), dense, very fossiliferous (oyste	EXP
HM-33	SWL	11-APR-84	0	18	CLAY	CL	1	FILL, Silty clay and sandy clay, moist to very moist, trace limestone gravel, trace	EXP
HM-33	SWL	11-APR-84	18	20	CLAY	CL	1	Clay, grey to green, slightly moist, contains some shell fragments.	EXP
HM-33	SWL	11-APR-84	20	22.5	SHLE		2	Clayey shale, grey to green, slightly moist, contains some shell fragments.	EXP
HM-33	SWL	11-APR-84	22.5	28	LS		3	Shell agglomerate, light to dark grey, weathered, very fossiliferous (oysters), mat	EXP
HM-34	SWL	11-APR-84	0	6	SDCL	CL	1	FILL. Silty clay, sandy clay and clay, moist to very moist, some sand and gravel,	EXP
HM-34	SWL	11-APR-84	6	8	CLAY	CL	1	Clay. Pink to orange, moist to very moist, firm, cohesive. Some rounded limesto	EXP
HM-34	SWL	11-APR-84	8	10	SDCL	CL	1	Sandy silty clay, medium brown, moist, some fine angular to rounded limestone f	EXP
HM-34	SWL	11-APR-84	10	15	STCL	CL	1	Silty clay, grey, moist, slightly sandy, calcareous.	EXP
HM-34	SWL	11-APR-84	15	20	LS		3	Shell agglomerate, dark grey, moist to wet, very fossiliferous (oysters), matrix an	EXP
HM-35	SWL	11-APR-84	0	4	CLAY	CL	1	FILL. Clay, orange to brown, moist, some sand, some plant material, cohesive, pl	EXP
HM-35	SWL	11-APR-84	4	10	SDCL	CL	1	Sandy clay, orange-brown, moist, with some fine limestone gravel.	EXP
HM-35	SWL	11-APR-84	10	14	CLAY	CL	1	Clay, white to orange, wet, cohesive, contains some white limestone and shell fr	EXP
HM-35	SWL	11-APR-84	14	16	LS		3	Limestone, yellow to white, moist, sandy, weathered, very fossiliferous (oysters)	EXP
HM-35	SWL	11-APR-84	16	20	LS		3	Shell agglomerate, dark grey, fresh, very fossiliferous (oysters), matrix and interb	EXP
HM-37	SWL	11-APR-84	0	2	CLAY	CL	1	Clay, medium to dark brown, moist, plastic, cohesive, with some fine rounded li	EXP
HM-37	SWL	11-APR-84	2	4	SDCL	CL	1	Sandy clay, medium brown to yellow, moist, fine- to coarse-grained sand, some f	EXP
HM-37	SWL	11-APR-84	4	6	SDGR	GP	1	Sandy Gravel, medium brown to white, very moist to wet, some clay, medium to	EXP
HM-37	SWL	11-APR-84	6	10	SDCL	CLSC	1	Sandy clay/clayey sand, orange-brown, very moist to wet, fine to coarse-grained	EXP
HM-37	SWL	11-APR-84	10	12	GVL	GW	1	Sandy gravel, medium brown to yellow, very moist to wet, fine- to coarse-graine	EXP
HM-37	SWL	11-APR-84	12	16	LS		3	Shell agglomerate, dark grey, very fossiliferous (oysters), matrix and interbeds of	EXP
HM-38	SWL	11-APR-84	0	2	GVCL	CL	1	FILL. Gravelly clay, dark brown to black, slightly moist, firm. Gravel is weathered	EXP
HM-38	SWL	11-APR-84	2	4			1	FILL. Limestone cobbles and boulders.	EXP
HM-38	SWL	11-APR-84	4	12	GVCL	CL	1	FILL. Clay, sand and gravel, light grey to black, slightly moist to moist, loose. Co	EXP
HM-38	SWL	11-APR-84	12	14	GVCL	CL	1	FILL. Gravelly clay, medium brown, slightly moist to moist, fine limestone gravel	EXP
HM-38	SWL	11-APR-84	14	16	SDGR	GP	1	FILL. Sand and gravel, brown, slightly moist, medium to coarse-grained sand, fin	EXP
HM-38	SWL	11-APR-84	16	18	SDSL	ML	1	Silty sand, buff-green, slightly moist, medium to coarse-grained, some fine limest	EXP
HM-38	SWL	11-APR-84	18	20	SDGR	GC	1	Clayey sand and gravel, buff-green, slightly moist, medium to coarse limestone a	EXP
HM-38	SWL	11-APR-84	20	25	LS		3	Shell agglomerate, medium grey, dense, slightly weathered, very fossiliferous (oy	EXP
HM-39	SWL	11-APR-84	0	2	GVCL	CL	1	FILL. Gravelly clay/Clayey gravel, tan to orange, slightly moist to moist, contains	EXP
HM-39	SWL	11-APR-84	2	7	SDSL	CL	1	Silty, clayey sand, medium to dark brown, slightly moist, some limestone gravel.	EXP
HM-39	SWL	11-APR-84	7	14	LS		3	Shell agglomerate, medium to dark grey, weathered, moist, fossiliferous (oysters)	EXP
HM-3A	SWL	02-DEC-82	0	9	CLAY	CL	1	Fill, dark brown clay with orange sand, moist, soft to firm, some gravel. At 1 st s	EXP
HM-3A	SWL	02-DEC-82	9	13	CLAY		2	Shaley clay, grey-green, moist, stiff, uniform, brown-orange, oxidized zones, stro	EXP
HM-3A	SWL	02-DEC-82	13	19	SHLE		2	Clayey shale, grey, moist, very dense, orange oxidized zones, chemical odor.	EXP
HM-3A	SWL	02-DEC-82	19	25.5	LS		3	Shaley limestone, light grey, slightly moist, very dense, chemical odor.	EXP
HM-3B	SWL	03-DEC-82	0	8	SDCL	CL	1	Fill, sandy clay, brown, moist, soft to firm, some gravel up to 1 1/2 inch diamete	EXP
HM-3B	SWL	03-DEC-82	8	10.5	CLAY	CL	2	Shaley clay, greenish-grey, very stiff, moist, some gravel, zones of orange-brown	EXP
HM-40	SWL	12-APR-84	0	2	CLAY	CL	1	Clay, dark brown to black, moist, brittle, contains plant material.	EXP
HM-40	SWL	12-APR-84	2	4	CLAY	CL	1	Clay, dark brown, moist to very moist, some silt, trace of sand, plastic, cohesive	EXP
HM-40	SWL	12-APR-84	4	8	SDCL	CL	1	Sandy clay, orange to white, moist, fine sand, contains subangular to subrounde	EXP
HM-40	SWL	12-APR-84	8	12	STCL	CL	1	Silty clay, buff to light brown, moist, some fine sand.	EXP
HM-40	SWL	12-APR-84	12	20	SD	SP	1	Sand, orange, moist, fine-grained, some silt and clay, well sorted. Below 14 ft m	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-40	SWL	12-APR-84	20	24	STCL	CL	1	Silty, sandy clay, white to light orange, moist, slightly cohesive.	EXP
HM-40	SWL	12-APR-84	24	32	SDSL	SM	1	Silty fine sand, orange, moist, some clay, slightly cohesive. 26-28 ft more clay,	EXP
HM-40	SWL	12-APR-84	32	38	SD	SP	1	Sand, light orange, moist, fine-grained, some silt, some clay.	EXP
HM-40	SWL	12-APR-84	38	42	SDSL	SM	1	Silty sand/Sandy silt, light orange, very moist to wet, fine-grained.	EXP
HM-40	SWL	12-APR-84	42	46	SD	SP	1	Sand, light orange, very moist to wet, fine- to medium grained, trace silt, trace cl	EXP
HM-40	SWL	12-APR-84	46	49	SDGR	GP	1	Sandy gravel, light orange, very moist to wet, medium- to coarse sand, fine lime	EXP
HM-40	SWL	12-APR-84	49	53	LS		3	Shell agglomerate, dark grey, weathered, friable, clayey, very fossiliferous (oyste	EXP
HM-41	SWL	12-APR-84	0	4	STCL	CL	1	Silty clay, dark brown to black, slightly moist to moist, some sand, trace of fine l	EXP
HM-41	SWL	12-APR-84	4	8	CLAY	CL	1	Clay, light brown to orange, moist to very moist, slightly sandy, some silt, some	EXP
HM-41	SWL	12-APR-84	8	22	SDSL	SM	1	Silty fine sand, orange, moist, some clay, slightly cohesive. 12 to 14 ft some wh	EXP
HM-41	SWL	12-APR-84	22	24	STCL	CL	1	Silty clay, light brown to light orange, trace of sand, slightly cohesive.	EXP
HM-41	SWL	12-APR-84	24	26	SILT	ML	1	Silt, orange, moist, some fine sand, some clay, slightly cohesive.	EXP
HM-41	SWL	12-APR-84	26	30	SDSL	SM	1	Silty sand, orange, moist, fine-grained, trace of clay.	EXP
HM-41	SWL	12-APR-84	30	36	STCL	CL	1	Silty clay, light brown to light orange, moist to very moist, some sand. Below 34	EXP
HM-41	SWL	12-APR-84	36	38	SDCL	CL	1	Sandy silty clay, orange, very most to wet, fine-grained sand.	EXP
HM-41	SWL	12-APR-84	38	41	GVL	GP	1	Gravel, yellow to orange, wet, fine limestone gravel with some chert and quartz,	EXP
HM-41	SWL	12-APR-84	41	46	LS		3	Shell agglomerate, dark grey, weathered, friable, very fossiliferous (oysters), mat	EXP
HM-42	SWL	12-APR-84	0	4	GVCL	CL	1	Gravelly silty clay, medium brown, moist, firm, cohesive, trace of limestone grav	EXP
HM-42	SWL	12-APR-84	4	8	SDGR	GM	1	Silty sand and gravel, light grey and brown, moist, medium to coarse-grained san	EXP
HM-42	SWL	12-APR-84	8	18	CLAY	CL	1	Clay, green to grey and buff to orange, moist to very moist, cohesive, firm to stif	EXP
HM-42	SWL	12-APR-84	18	24	SD	SP	1	Sand, orange to buff, slightly moist, fine-grained, well sorted, loose. Below 22 ft,	EXP
HM-42	SWL	12-APR-84	24	39	SDGR	GP	1	Sandy gravel, buff to light orange, moist, medium to coarse sand, fine limestone	EXP
HM-42	SWL	12-APR-84	39	44	SDCL	CL	1	Sandy clay, dark grey, wet, slighlty cohesive, firm.	EXP
HM-42	SWL	12-APR-84	44	46	SHLE		3	Sandy shale, dark grey to black, wet (?), slightly dense, some shell fragments.	EXP
HM-42	SWL	12-APR-84	46	48	LS		3	Shell agglomerate, medium to dark grey, dry (?), dense, very fossiliferous (oyster	EXP
HM-43	SWL	12-APR-84	0	3	GVCL	CL	1	Gravelly clay, dark brown, very moist, very firm, cohesive, fine limestone gravel,	EXP
HM-43	SWL	12-APR-84	3	17	LS		2	Limestone/Shale, interbedded, light grey and light buff, slightly moist (?). Dense li	EXP
HM-43	SWL	12-APR-84	17	22	SHLE		2	Shale, medium to dark grey, orange-stained in zones, slightly moist (?), very stiff,	EXP
HM-44	SWL	13-APR-84	0	8	STCL	CL	1	Silty clay, light to dark brown, slightly moist, some fine sand, trace of fine gravel	EXP
HM-44	SWL	13-APR-84	8	12	STCL	CLML	1	Silty clay/clayey silt, light orange, moist, some fine sand, loose.	EXP
HM-44	SWL	13-APR-84	12	18	CLAY	CL	1	Clay, buff to tan, moist, slightly silty, trace fine sand, slightly cohesive.	EXP
HM-44	SWL	13-APR-84	18	24	SDSL	SM	1	Silty sand/sandy silt, medium orange, moist to very moist, very fine-grained, som	EXP
HM-44	SWL	13-APR-84	24	26	SDSL	SM	1	Sandy silt, medium orange, very moist, very fine-grained, some clay.	EXP
HM-44	SWL	13-APR-84	26	30	STCL	CL	1	Silty clay, medium to dark orange, very moist to wet, trace sand, loose.	EXP
HM-44	SWL	13-APR-84	30	32	SDCL	CL	1	Sandy silty clay, medium to dark orange, wet, very fine to fine sand, trace fine li	EXP
HM-44	SWL	13-APR-84	32	34	GVL	GC	1	Gravel, buff to orange, wet, predominantly limestone, trace of chert, trace of silt	EXP
HM-44	SWL	13-APR-84	34	40	LS		2	Limestone, buff to yellow, soft, friable, sandy, silty, slightly fossiliferous (shell fr	EXP
HM-45	SWL	13-APR-84	0	4	STCL	CL	1	FILL. Clay and silt, dark brown, moist to very moist trace of sand and gravel, slig	EXP
HM-45	SWL	13-APR-84	4	12	STCL	CL	1	Silty clay, orange, slightly moist to moist, some sand, trace of gravel, stiff, slight	EXP
HM-45	SWL	13-APR-84	12	16	SDCL	CL	1	Sandy silty clay, light orange, moist, fine to medium sand, trace of gravel, firm, c	EXP
HM-45	SWL	13-APR-84	16	20	GVCL	GC	1	Sandy, gravelly clay, tan to light orange, moist, fine to medium sand, fine limest	EXP
HM-45	SWL	13-APR-84	20	22	SDSL	SM	1	Sandy silt/silty sand, light orange, moist, very fine-grained sand, trace of clay.	EXP
HM-45	SWL	13-APR-84	22	28	SDSL	SM	1	Silty sand, light orange, moist to very moist, very fine- to fine-grained sand, som	EXP
HM-45	SWL	13-APR-84	28	31	SHLE		2	Clayey shale, greenish-buff, moist, stiff, slightly cohesive.	EXP
HM-45	SWL	13-APR-84	31	36	SHLE		2	Clayey shale/Limestone, green shale with orange stains in partings, slightly moist	EXP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-45	SWL	13-APR-84	36	38	SHLE		3	Clayey shale, dark grey, slightly moist (?), stiff, cohesive.	EXP
HM-45	SWL	13-APR-84	38	40	LS		3	Limestone, dark grey, slightly moist (?), dense, fossiliferous (oysters).	EXP
HM-45	SWL	13-APR-84	40	43	LS		3	Shell agglomerate, medium to dark grey, dry (?), dense, very fossiliferous (oyster	EXP
HM-46	SWL	14-APR-84	0	5	GVCL	CL	1	FILL. Gravelly clay, brown, moist to very moist, some sand, some coarse limesto	EXP
HM-46	SWL	14-APR-84	5	14	SDSL	SM	1	Silty sand, tan to light orange, moist, loose, very fine- to fine-grained. Below 12	EXP
HM-46	SWL	14-APR-84	14	18	SDSL	ML	1	Sandy silt, tan to light orange, moist, very fine sand, well graded and tightly pac	EXP
HM-46	SWL	14-APR-84	18	20	STCL	CL	1	Clayey silt, tan to light orange, moist, very fine sand, well graded and tightly pa	EXP
HM-46	SWL	14-APR-84	20	26	SDSL	SM	1	Silty sand, tan to light orange, moist, very fine- to fine-grained, moderately well s	EXP
HM-46	SWL	14-APR-84	26	30	SDCL	CL	1	Sandy clay/clayey sand, tan to light orange, moist, very fine- to fine quartz sand,	EXP
HM-46	SWL	14-APR-84	30	32	SDCL	SMSC	1	Silty, clayey sand, tan to light orange, moist to very moist, very fine to fine quart	EXP
HM-46	SWL	14-APR-84	32	39	SDGR	GP	1	Sand and gravel, buff to brown, wet, coarse quartz and limestone sand, fine lime	EXP
HM-46	SWL	14-APR-84	39	44	LS		3	Shell agglomerate, dark grey, dense, very fossiliferous (oysters), matrix and inter	EXP
HM-47	SWL	14-APR-84	0	4	SDCL	CL	1	FILL. 0-5" concrete. Sandy clay, light brown to orange, moist, very fine to fine s	EXP
HM-47	SWL	14-APR-84	4	14	STCL	OL	1	Clayey silt, tan to light orange, moist, some very fine to fine sand, loose.	EXP
HM-47	SWL	14-APR-84	14	16	SDCL	SCCL	1	Sandy clay/clayey sand, orange brown, moist, medium to coarse sand, trace fine	EXP
HM-47	SWL	14-APR-84	16	28	SDGR	GP	1	Sand and gravel, buff to brown, slightly moist to moist, medium to coarse sand f	EXP
HM-47	SWL	14-APR-84	28	30	CLAY		2	Clay, greenish-buff with orange stains in zones, moist, trace of silt, weathered, fi	EXP
HM-47	SWL	14-APR-84	30	32	SHLE		3	Clayey shale, dark grey, slightly moist (?), stiff, cohesive.	EXP
HM-47	SWL	14-APR-84	32	34	LS		3	Limestone, dark grey, dense, very silty, brittle, some fossils.	EXP
HM-47	SWL	14-APR-84	34	36	LS		3	Shell agglomerate, medium to dark grey, dense, very fossiliferous (oysters), matri	EXP
HM-48	ACUX	14-APR-84	0	5	FILL	CL	1	ASTM CODE INVALID, LOGGING COMPANY WAS SOUTHWESTERN LABORAT	IRP
HM-48	ACUX	14-APR-84	5	8	GVST	GP	1	BUFF TO BROWN, MOIST, COARSE SAND, FINE LS GRAVEL, TRACE CLAY, LO	IRP
HM-48	ACUX	14-APR-84	8	10	STCL	SC	1	LIGHT ORANGE-BROWN, MOIST, FINE SAND, FIRM, SLIGHTLY COHESIVE.	IRP
HM-48	ACUX	14-APR-84	10	17	SDGR	SC	1	LIGHT ORANGE-BROWN, MOIST TO WET, COARSE SAND, FINE LS GRAVEL, L	IRP
HM-48	ACUX	14-APR-84	17	28	LSSH	NACM	2	INTERBEDDED: GREENISH BUFF SILTY LS WITH GREENISH BUFF CLAYEY SHAL	IRP
HM-48	ACUX	14-APR-84	28	30	CLAY	NACM	3	DARK GRAY, MOIST, STIFF, SLIGHTLY COHESIVE.	IRP
HM-48	ACUX	14-APR-84	30	33	LSSD	NACM	3	DARK GRAY, DENSE, BRITTLE, FOSSILIFEROUS.	IRP
HM-49	SWL	15-APR-84	0	4	GVCL	CL	1	FILL. Gravelly clay, medium to dark brown, moist, some limestone gravel, firm, sl	EXP
HM-49	SWL	15-APR-84	4	6	CLAY	CL	1	Clay, brown, moist, some limestone gravel, firm, cohesive.	EXP
HM-49	SWL	15-APR-84	6	10.5	LS		3	Shell agglomerate, light to dark grey, dense, weathered, fossiliferous (oysters), m	EXP
HM-4A	SWL	03-DEC-82	0	10	SDCL	CL	1	Fill, sandy clay, light brown, moist, firm, some gravel, grass roots. 2 ft, color cha	EXP
HM-4A	SWL	03-DEC-82	10	12	CLAY		2	Shaley clay, green-grey, moist, very stiff, red and black oxidized zones, slight ch	EXP
HM-4A	SWL	03-DEC-82	12	14	SHLE		2	Clayey shale, grey, moist, slight odor.	EXP
HM-4A	SWL	03-DEC-82	14	15	SHLE		2	Shale, grey, slightly moist, very stiff, interbedded sandy and clayey zones, red ox	EXP
HM-4A	SWL	03-DEC-82	15	20	LS		3	Limestone/shale, grey, slightly moist, interbedded, chemical odor.	EXP
HM-4A	SWL	03-DEC-82	20	25	LS		3	Shaley limestone, grey, moist, orange oxidized zones, chemical odor.	EXP
HM-4A	SWL	03-DEC-82	25	26	LS		3	Shaley limestone/clayey shale, grey, moist, interbedded, orange-brown-black oxid	EXP
HM-5	SWL	02-DEC-82	0	7	CLAY	CL	1	Fill, gravelly clay, dark brown, dry, very stiff, small amounts of refuse.	EXP
HM-5	SWL	02-DEC-82	7	15	SDCL	CL	1	Sandy clay, brown, moist, slightly soft to firm, trace of gravel.	EXP
HM-5	SWL	02-DEC-82	15	16	SD	SP	1	Sand, orange-brown, slightly moist, very fine, uniform, some silt, no odor.	EXP
HM-5	SWL	02-DEC-82	16	25.5	GVCL	GC	1	Clay/Gravelly clay, brown, moist, firm to very stiff, 10-15 percent gravel. At 18	EXP
HM-5	SWL	02-DEC-82	25.5	31	SHLE		3	Shale/Clayey Shale, dark grey to blackish grey, slightly moist, very stiff, some br	EXP
HM-5	SWL	02-DEC-82	31	33	LS		3	Limestone, dark grey, slightly moist, very dense.	EXP
HM-50	SWL	15-APR-84	0	2	GVCL	CL	1	FILL. Gravelly clay, brown, slightly moist to moist, some limestone gravel and co	EXP
HM-50	SWL	15-APR-84	2	7	SDCL	CL	1	FILL. Sandy clay, dark brown, tan and greenish buff, very moist, medium to coar	EXP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-50	SWL	15-APR-84	7	14.5	LS		3	Shell agglomerate, light grey, slightly moist, weathered, dense, fossiliferous (oyst	EXP
HM-51	SWL	15-APR-84	0	4	SDCL	SMSC	1	FILL. 0-4" asphalt. Sandy clay and silty sand, dark brown, very moist to wet, fin	EXP
HM-51	SWL	15-APR-84	4	8	SDCL	CL	1	Sandy clay, buff-brown, very moist, fine to medium sand, firm, slightly cohesive.	EXP
HM-51	SWL	15-APR-84	8	10	STCL	CL	1	Silty, sandy clay, greenish-brown, moist, fine sand, slightly cohesive, firm to stiff	EXP
HM-51	SWL	15-APR-84	10	12	STCL	CL	1	Silty clay, greenish-grey, moist, trace of fine sand, stiff slightly cohesive.	EXP
HM-51	SWL	15-APR-84	12	20	LS		3	Shell agglomerate, light grey and brown, very weathered, dense, fossiliferous (oy	EXP
HM-52	SWL	15-APR-84	0	4	GVCL	CL	1	FILL. 0-5" concrete. Gravelly sandy clay, orange brown, very moist to wet, some	EXP
HM-52	SWL	15-APR-84	4	8	SDSL	SCSM	1	Silty, clayey sand, tan to orange, moist, very fine- to medium-grained, trace of fi	EXP
HM-52	SWL	15-APR-84	8	18	SDGR	GP	1	Sand and gravel, tan, moist, coarse sand and fine limestone gravel, some clay, lo	EXP
HM-52	SWL	15-APR-84	18	26	LS		2	Sandy Limestone/Clayey Shale, interbedded, greenish grey, slightly moist, dense	EXP
HM-53	SWL	16-APR-84	0	4	STCL	CL	1	FILL. 0-5" concrete. Silty sandy clay, reddish-brown, very moist to wet, fine to c	EXP
HM-53	SWL	16-APR-84	4	6	SDSL	SM	1	Silty sand, light brown, moist, fine- to medium-grained, trace of fine gravel, loose	EXP
HM-53	SWL	16-APR-84	6	8	SD	SP	1	Sand, light brown, slightly moist, fine- to medium-grained, some silt, loose.	EXP
HM-53	SWL	16-APR-84	8	14	SDSL	SM	1	Silty sand, light brown, slightly moist, fine to medium-grained, loose.	EXP
HM-53	SWL	16-APR-84	14	16	SDGR	GM	1	Gravelly, silty sand, light brown, moist, fine- to medium- grained, fine limestone	EXP
HM-53	SWL	16-APR-84	16	20	SDCL	SC	1	Clayey sand, light brown, very moist, fine- to medium-grained, trace fine limesto	EXP
HM-53	SWL	16-APR-84	20	22	SD	SP	1	Sand, light brown, wet, medium- to coarse-grained, trace fine limestone gravel, l	EXP
HM-53	SWL	16-APR-84	22	31	SDGR	GP	1	Sand and gravel, buff to brown, very moist, coarse sand, fine limestone gravel, l	EXP
HM-53	SWL	16-APR-84	31	32	CLAY		2	Clay, greenish-grey, wet, stiff, slightly cohesive, fuel odor.	EXP
HM-53	SWL	16-APR-84	32	34	LS		3	Sandy limestone, dark grey, dense, fossiliferous (oysters).	EXP
HM-53	SWL	16-APR-84	34	37	LS		3	Shell agglomerate, dark grey, dense, fossiliferous (oysters), matrix and interbeds	EXP
HM-54	SWL	16-APR-84	0	8	SD	SP	1	FILL. 0-5" concrete. Sand, tan to orange, moist, fine- to medium-grained, trace	EXP
HM-54	SWL	16-APR-84	8	10	SDSL	SM	1	FILL. Silty sand, tan to orange, very moist to wet, fine-grained, trace of clay. loo	EXP
HM-54	SWL	16-APR-84	10	12	SDGR	SP	1	Gravelly sand, brown and tan-orange, wet, fine- to coarse-grained, fine limestone	EXP
HM-54	SWL	16-APR-84	12	14	SHLE		2	Clayey shale, greenish-grey, moist, weathered, firm to stiff, slightly cohesive.	EXP
HM-54	SWL	16-APR-84	14	22	SHLE		2	Clayey shale/Sandy Limestone, interbedded, light grey sandy limestone, weather	EXP
HM-54	SWL	16-APR-84	22	26	SHLE		3	Clayey shale, dark grey, very stiff, some thin interbeds of fossiliferous sandy lim	EXP
HM-54	SWL	16-APR-84	26	27	LS		3	Shell agglomerate, medium to dark grey, dense, fossiliferous (oysters), matrix an	EXP
HM-55	SWL	16-APR-84	0	2	GVCL	GC	1	FILL. 0-5"concrete. Clayey gravel, light brown, very moist, fine to medium limes	EXP
HM-55	SWL	16-APR-84	2	4	SDCL	CL	1	Sandy silty clay, light brown, moist, fine sand, trace of fine limestone gravel, fir	EXP
HM-55	SWL	16-APR-84	4	8	STCL	CL	1	Silty clay, light brown, moist, some fine sand, trace fine gravel, very firm, slightl	EXP
HM-55	SWL	16-APR-84	8	20	STCL	CL	1	Silty, sandy clay, light brown, moist, fine to medium sand, very firm, slightly coh	EXP
HM-55	SWL	16-APR-84	20	21	SDGR	GW	1	Sandy gravel, buff to brown, very moist to wet, coarse sand, fine limestone grav	EXP
HM-55	SWL	16-APR-84	21	28	LS		2	Sandy limestone/Clayey shale, interbedded, light grey dense fossiliferous sandy li	EXP
HM-55	SWL	16-APR-84	28	30	LS		3	Sandy limestone, light grey, dense, fossiliferous (shell fragments), some shaley in	EXP
HM-55	SWL	16-APR-84	30	33	LS		3	Shell agglomerate, buff to light grey, dense, fossiliferous (oysters), matrix and int	EXP
HM-56	SWL	16-APR-84	0	2	SDCL	CL	1	FILL. Sandy, silty clay, dark brown and orange tan, moist, fine to medium sand, t	EXP
HM-56	SWL	16-APR-84	2	6	CLAY	CL	1	Clay, dark brown, moist to very moist, some fine sand, firm to stiff, cohesive.	EXP
HM-56	SWL	16-APR-84	6	8	GVCL	GC	1	Sandy, gravelly clay, dark brown to light orange, moist, fine sand, fine limestone	EXP
HM-56	SWL	16-APR-84	8	10	SDCL	CL	1	Sandy, silty clay, light orange-brown, very moist to wet, very fine sand, stiff, co	EXP
HM-56	SWL	16-APR-84	10	14	STCL	CL	1	Silty Clay, light orange-brown, moist, trace fine sand, stiff, cohesive.	EXP
HM-56	SWL	16-APR-84	14	24	SDCL	CL	1	Sandy, silty clay, light orange, very moist, fine to medium sand, trace fine limest	EXP
HM-56	SWL	16-APR-84	24	28	SDCL	CLSC	1	Sandy clay/Clayey sand, greenish buff and brown, very moist to wet, fine to me	EXP
HM-56	SWL	16-APR-84	28	35	SHLE		2	Clayey Shale, greenish buff with orange-brown stains, moist, stiff, slightly cohesi	EXP
HM-56	SWL	16-APR-84	35	36	LS		3	Sandy Limestone, light grey, dense, fossiliferous (oysters).	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-56	SWL	16-APR-84	36	40	LS		3	Shell agglomerate, medium grey, dense, fossiliferous (oysters), matrix and interb	EXP
HM-57	SWL	17-APR-84	0	2	SDCL	SC	1	FILL. Clayey sand, medium to dark brown, moist to very moist, medium- to coars	EXP
HM-57	SWL	17-APR-84	2	4	GVCL	CL	1	FILL. Clay and gravel, dark brown, moist, some coarse sand, clay is cohesive, fir	EXP
HM-57	SWL	17-APR-84	4	10	SHLE		2	Clayey Shale, brown, some yellow limonite stains, moist, some coarse sand, som	EXP
HM-57	SWL	17-APR-84	10	22	CLAY		2	Clay, yellow-brown, slightly moist to moist, slightly silty, brittle. Below 14 ft: slig	EXP
HM-57	SWL	17-APR-84	22	26	SHLE		2	Clayey Shale, yellow brown, slightly moist, some silt, some fine sand, fissile, con	EXP
HM-57	SWL	17-APR-84	26	28	LS		2	Sandy Limestone, grey to yellow, slightly moist, fine sand, some silt, thin bedded	EXP
HM-57	SWL	17-APR-84	28	34	STCL		2	Silty Clay, yellow-brown to dark grey,, moist to very moist, slightly sandy, limoni	EXP
HM-57	SWL	17-APR-84	34	38	LS		3	Limestone, dark grey, slightly shaley, contains interbeds of dark grey clay.	EXP
HM-57	SWL	17-APR-84	38	39	LS		3	Shell agglomerate, light to dark grey, dense, fossiliferous (oysters), matrix and int	EXP
HM-58	SWL	17-APR-84	0	4	GVCL	CLGC	1	FILL. 0-1.5' concrete. Sandy clay, sand and gravel, orange to brown, moist to ve	EXP
HM-58	SWL	17-APR-84	4	8	SDGR	GP	1	Sand and gravel, medium brown, wet, medium to coarse sand, fine limestone gra	EXP
HM-58	SWL	17-APR-84	8	10	GVCL	CL	1	Gravelly clay, light grey and light brown, wet, some coarse sand, fine limestone	EXP
HM-58	SWL	17-APR-84	10	12	SHLE		2	Clayey shale, light grey and greenish grey, orange limonite stains, very moist, we	EXP
HM-58	SWL	17-APR-84	12	21	LS		2	Limestone/Clayey Shale, interbedded, light grey dense limestone, light grey and g	EXP
HM-58	SWL	17-APR-84	21	27	SHLE		3	Clayey Shale, Brown to dark grey, moist, very firm, slightly cohesive.	EXP
HM-58	SWL	17-APR-84	27	31	LS		3	Shell agglomerate, light to medium grey, dense, fossiliferous (oysters), matrix an	EXP
HM-59	SWL	17-APR-84	0	4	SDCL	CL	1	FILL. Sandy clay, dark brown, very moist, medium sand, some fine limestone gra	EXP
HM-59	SWL	17-APR-84	4	8	STCL	CL	1	Silty clay, dark brown, very moist, some sand, fine limestone gravel, firm, slightl	EXP
HM-59	SWL	17-APR-84	8	12	CLAY		2	Clay/Limestone, interbedded, orange-brown, moist, firm, cohesive, with light gre	EXP
HM-59	SWL	17-APR-84	12	16	CLAY		2	Clay, yellow-brown, moist, cohesive, firm. No limestone interbeds. 14-16 ft: som	EXP
HM-59	SWL	17-APR-84	16	18	STCL		2	Silty Clay, yellow-brown, slightly moist to moist, trace of sand, firm, moderately	EXP
HM-59	SWL	17-APR-84	18	22	LS		2	Silty, Sandy Limestone, light-brown, slightly moist, some clay and interbeds of cl	EXP
HM-59	SWL	17-APR-84	22	28	SHLE		2	Clayey Shale/Silty Limestone, interbedded; greenish-grey shale with orange limon	EXP
HM-59	SWL	17-APR-84	28	35	SHLE		2	Clayey Shale, greenish-grey and orange-brown, moist, stiff. Below 32 ft: very sti	EXP
HM-59	SWL	17-APR-84	35	36	LS		3	Sandy Limestone, light grey, slightly dense, brittle.	EXP
HM-59	SWL	17-APR-84	36	38	LS		3	Shell agglomerate, medium-grey, very dense, fossiliferous (oysters), matrix and i	EXP
HM-6	SWL	04-DEC-82	0	11	SDCL	CL	1	Fill, asphalt and subgrade; at 1 ft gravelly clay; at 1.5 ft sandy clay; at 2 ft limes	EXP
HM-6	SWL	04-DEC-82	11	18	SDGR	GP	1	Grvly sand, very moist to wet, very dense, strong oil odor; 13 ft black grading-lig	EXP
HM-6	SWL	04-DEC-82	18	18.5	SDGR	GP	1	Gravelly sand/sandy gravel, grey-black, saturated, abundant limestone fragments	EXP
HM-6	SWL	04-DEC-82	18.5	19	LS		3	Limestone, dark grey, saturated, fossiliferous, odor.	EXP
HM-60	SWL	17-APR-84	0	2	SDCL	SCCL	1	FILL. 0-1 ft concrete. Clayey sand/sandy clay, medium brown, most to very mois	EXP
HM-60	SWL	17-APR-84	2	4	SDCL	CL	1	Sandy clay, orange-brown, very moist, very fine to fine grained sand, firm, slightl	EXP
HM-60	SWL	17-APR-84	4	6	STCL	CL	1	Silty, sandy clay, light orange-brown, moist to very moist, firm, slightly cohesive.	EXP
HM-60	SWL	17-APR-84	6	10	SDGR	GC	1	Sandy, clayey gravel, light brown and grey, very moist to wet, medium to coarse	EXP
HM-60	SWL	17-APR-84	10	20	SDGR	GP	1	Sand and gravel, light grey and light brown, very moist to wet, coarse sand, fine	EXP
HM-60	SWL	17-APR-84	20	28	GVCL	GC	1	Clayey gravel, light brown and light grey, moist, trace of fine to coarse sand, loo	EXP
HM-60	SWL	17-APR-84	28	30	SDGR	GP	1	Sand and Gravel, light brown and light grey, very moist to wet, coarse sand and	EXP
HM-60	SWL	17-APR-84	30	32	CLAY		2	Silty clay, greenish-grey, moist, firm, slightly cohesive.	EXP
HM-60	SWL	17-APR-84	32	34	LS		3	Sandy Limestone, medium to dark grey, slightly dense, fossiliferous (oysters).	EXP
HM-60	SWL	17-APR-84	34	36	LS		3	Shell Agglomerate, medium to dark grey, very dense, fossiliferous (oysters), matr	EXP
HM-61	SWL	17-APR-84	0	4	GVCL	CL	1	FILL. 0-8"concrete. Gravelly clay, dark brown to black, moist to very moist, fine	EXP
HM-61	SWL	17-APR-84	4	11	SDCL	CL	1	FILL. Silty, sandy clay, light orange-brown, very moist, fine to medium sand, ver	EXP
HM-61	SWL	17-APR-84	11	16	STCL	CL	1	Silty Clay, green and black, moist, some fine sand, very firm, slightly cohesive,	EXP
HM-61	SWL	17-APR-84	16	20	SHLE		2	Silty Clay/Clayey Shale, green, moist, stiff, slightly cohesive, some fossil shell fr	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-61	SWL	17-APR-84	20	22	SHLE		2	Silty Shale/Limestone, interbedded, medium grey, stiff shale with slightly dense,	EXP
HM-61	SWL	17-APR-84	22	31	SHLE		2	Silty Shale, dark grey, slightly moist, trace of fine sand, stiff.	EXP
HM-61	SWL	17-APR-84	31	33	SHLE		3	Silty, Sandy Shale, dark grey, stiff.	EXP
HM-61	SWL	17-APR-84	33	35	LS		3	Shell agglomerate, dark grey, very dense, fossiliferous (oysters), matrix and inter	EXP
HM-62	SWL	18-APR-84	0	0.33	ASPT		0	Asphalt surface.	EXP
HM-62	SWL	18-APR-84	0.33	2	SDCL	CL	1	FILL. Sandy clay, dark brown, very moist to wet, fine sand, some fine limestone	EXP
HM-62	SWL	18-APR-84	2	8	STCL	CL	1	Silty, sandy clay, red-brown, very moist, very fine to fine sand, firm, slightly coh	EXP
HM-62	SWL	18-APR-84	8	10	SDSL	SM	1	Silty sand, light orange tan, moist, fine to medium grained, loose.	EXP
HM-62	SWL	18-APR-84	10	14	SD	SW	1	Sand, light orange to tan, moist, fine to medium grained, trace of grey clay and fi	EXP
HM-62	SWL	18-APR-84	14	22	SDSL	SM	1	Sandy silt, light tan, moist, very fine to fine sand, trace of grey clay and fine lime	EXP
HM-62	SWL	18-APR-84	22	26	SDCL	SCML	1	Clayey silt/clayey sand, light tan, moist, very fine to fine sand, trace of fine limes	EXP
HM-62	SWL	18-APR-84	26	30	SDSL	MLSM	1	Sandy silt/silty sand, light orange-tan, wet, very fine to fine grained, trace of clay	EXP
HM-62	SWL	18-APR-84	30	33	GVL	GW	1	Gravel, buff, grey, and brown, wet, fine to medium limestone gravel, loose.	EXP
HM-62	SWL	18-APR-84	33	39	LS		3	Shell Agglomerate, medium to dark grey, very dense, fossiliferous (oysters), matr	EXP
HM-63	SWL	18-APR-84	0	2	GVCL	GC	1	FILL. Asphalt surface. Clayey gravel, medium to dark brown, moist, fine to mediu	EXP
HM-63	SWL	18-APR-84	2	6	GVCL	CL	1	Gravelly, silty clay, medium brown, moist to very moist, fine limestone gravel, fir	EXP
HM-63	SWL	18-APR-84	6	12	GVCL	GC	1	Sandy, gravelly clay, light brown, moist, some silt, firm, slightly cohesive.	EXP
HM-63	SWL	18-APR-84	12	18	SDSL	SM	1	Silty sand, light orange to tan, moist, very fine- to fine-grained, well graded, well	EXP
HM-63	SWL	18-APR-84	18	24	SDGR	GW	1	Sand and gravel, light brown and buff, very moist, medium to coarse sand, fine li	EXP
HM-63	SWL	18-APR-84	24	28	GVCL	CL	1	Sandy, gravelly clay, light brown, very moist, fine sand, fine limestone gravel, fir	EXP
HM-63	SWL	18-APR-84	28	32	SDGR	GW	1	Sand and gravel, light brown and buff, wet, medium to coarse sand, fine limesto	EXP
HM-63	SWL	18-APR-84	32	33	LS		2	Sandy Limestone, medium grey, dense, some silt.	EXP
HM-63	SWL	18-APR-84	33	36	SHLE		2	Clayey Shale, greenish grey, moist, stiff, slightly cohesive.	EXP
HM-63	SWL	18-APR-84	36	38	SHLE		3	Sandy Calcareous Shale, Dark grey, dense, fossiliferous (oysters).	EXP
HM-63	SWL	18-APR-84	38	40	LS		3	Shell Agglomerate, medium to dark grey, very dense, fossiliferous (oysters), matr	EXP
HM-64	SWL	18-APR-84	0	2	SDCL	CL	1	FILL. 0-7"concrete. Sandy clay, blue-grey, wet, medium sand, slightly firm, stron	EXP
HM-64	SWL	18-APR-84	2	4	STCL	CL	1	FILL. Sandy, silty clay, medium to dark brown, very moist to wet, very firm, slig	EXP
HM-64	SWL	18-APR-84	4	6	STCL	CL	1	Silty, sandy clay, light orange-brown, moist, slightly cohesive, stiff, no odor.	EXP
HM-64	SWL	18-APR-84	6	8	STCL	CL	1	Silty Clay, light orange, brown, and buff, very moist to wet, trace limestone grav	EXP
HM-64	SWL	18-APR-84	8	22	SD	SP	1	Sand, light orange, moist to very moist, fine-grained, some clay, trace limestone	EXP
HM-64	SWL	18-APR-84	22	24	SDGR	GP	1	Sand and Gravel, light orange tan, moist, medium to coarse sand, fine limestone	EXP
HM-64	SWL	18-APR-84	24	30	SDGR	SW	1	Gravelly sand, light tan, very moist, medium- to coarse-grained sand, fine limesto	EXP
HM-64	SWL	18-APR-84	30	33	SHLE		2	Clayey Shale, Orange-green and blue-grey, moist, stiff, slightly cohesive.	EXP
HM-64	SWL	18-APR-84	33	36	LS		3	Sandy Limestone, light grey, slightly dense.	EXP
HM-64	SWL	18-APR-84	36	38	LS		3	Shell Agglomerate, medium to dark grey, very dense, fossiliferous (oysters), matr	EXP
HM-65	SWL	04-JAN-85	0	1	ASPT		0	Asphalt.	EXP
HM-65	SWL	04-JAN-85	1	2	CLAY	CL	1	FILL. Clay, grey to black, moist, cohesive, strong solvent odor.	EXP
HM-65	SWL	04-JAN-85	2	6	CLAY	CL	1	Clay, brown to grey, moist, cohesive strong solvent odor, greasy texture.	EXP
HM-65	SWL	04-JAN-85	6	10	SHLE		2	Limey Shale, Clay, tan, green, moist, fissile, cohesive in part, < 10% coarse grai	EXP
HM-65	SWL	04-JAN-85	10	18	LS		2	Shell Agglomerate, medium to dark grey, very dense, fossiliferous (oysters).	EXP
HM-66	SWL	05-JAN-85	0	1	ASPT		0	Asphalt.	EXP
HM-66	SWL	05-JAN-85	1	4	SDCL	CL	1	Sandy clay, light brown, moist at top, some coarse sand, cohesive, plastic.	EXP
HM-66	SWL	05-JAN-85	4	17	SHLE		2	Clay/Shale, tan to grey green, moist, banded, cohesive.	EXP
HM-66	SWL	05-JAN-85	17	18	LS		3	Limestone, tan to white, dry, weathered, very fossiliferous (oysters).	EXP
HM-66	SWL	05-JAN-85	18	21.5	LS		3	Shell Agglomerate, dark grey, fresh, very fossiliferous (oysters), matrix and interb	EXP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-68	SWL	06-JAN-85	0	4	FILL		1	FILL. Clay and silt, brown to black, moist to very moist, trace of coarse sand (<	EXP
HM-68	SWL	06-JAN-85	4	12	SDCL	CL	1	Sandy, silty clay, tan to white, moist, some coarse sand and gravel, firm, cohesi	EXP
HM-68	SWL	06-JAN-85	12	14	GVCL	CL	1	Sandy, gravelly clay, tan brown, moist, some coarse fossiliferous gravel.	EXP
HM-68	SWL	06-JAN-85	14	26	GVCL	GC	1	Clayey gravel, tan brown, moist, clay matrix, gravel composed of decomposed li	EXP
HM-68	SWL	06-JAN-85	26	31	LS		3	Limestone, dark grey, dry, dense, fossiliferous (oysters).	EXP
HM-68	SWL	06-JAN-85	31	37	LS		3	Shell Agglomerate, medium to dark grey, dry, dense, fossiliferous (oysters), matri	EXP
HM-69	SWL	07-JAN-85	0	1	ASPT		0	Asphalt.	EXP
HM-69	SWL	07-JAN-85	1	4	GVCL	CL	1	Clay, brown clay, tan gravel (50%), moist, cohesive, some minor sands (<5%).	EXP
HM-69	SWL	07-JAN-85	4	10	GVL	GP	1	Gravel, buff, weathered, dry.	EXP
HM-69	SWL	07-JAN-85	10	26	SHLE		2	Clayey Shale, tan brown, moist, stiff, cohesive, fissile, minor sand interbeds.	EXP
HM-69	SWL	07-JAN-85	26	32	SHLE		2	Calcareous Shale, dark grey, dry, stiff, slightly cohesive.	EXP
HM-69	SWL	07-JAN-85	32	38	LS		2	Limestone, medium to dark grey, dense, very silty, some fossils.	EXP
HM-7	SWL	04-DEC-82	0	9.5	GVCL	GC	1	Fill, asphalt and subgrade; 1 ft, gravelly clay; 2 ft, increasing gravel content-less	EXP
HM-7	SWL	04-DEC-82	9.5	12.5	SDGR	GW	1	Gravelly sand, grey-brown, wet, water seepage, limestone fragments, slight oil o	EXP
HM-7	SWL	04-DEC-82	12.5	15	LS		3	Limestone, light grey, dense.	EXP
HM-70	SWL	08-JAN-85	0	6	CLAY	CL	1	0-1 SOIL. FILL. Clay, brown, moist, sticky, some gravel and sand, some organic	EXP
HM-70	SWL	08-JAN-85	6	26	SDCL	CL	1	Sandy clay, tan brown, moist, some sand, cohesive.	EXP
HM-70	SWL	08-JAN-85	26	27	GVCL	CL	1	Gravelly clay, tan to buff, moist, some sand.	EXP
HM-70	SWL	08-JAN-85	27	38	CLAY		2	Shaley Clay, tan brown, moist, cohesive, banded.	EXP
HM-70	SWL	08-JAN-85	38	44	SHLE		3	Clayey Shale, dark grey, dense, very silty, some fossils (oysters).	EXP
HM-70	SWL	08-JAN-85	44	47	LS		3	Limestone, dark grey, dense, very silty.	EXP
HM-71	SWL	08-JAN-85	0	6	CLAY	CL	1	FILL. Brown clay and soil, moist, cohesive, some coarse sand.	EXP
HM-71	SWL	08-JAN-85	6	47	SDCL	CL	1	Sandy clay, tan brown, moist, cohesive, some coarse sand and gravel (some lost	EXP
HM-71	SWL	08-JAN-85	47	56	SHLE		3	Clayey Shale, dark grey, dense, brittle, sandy.	EXP
HM-72	SWL	09-JAN-85	0	2	CLAY	CL	1	FILL. Clay, black, moist, very cohesive, some limestone, gravel.	EXP
HM-72	SWL	09-JAN-85	2	26	CLAY	CL	1	Clay, black, moist, very cohesive, some lenses of limestone gravel and sand. At	EXP
HM-72	SWL	09-JAN-85	26	30	CLAY	CL	1	Shaley clay, green and tan, moist, slightly cohesive, banded and fissile.	EXP
HM-72	SWL	09-JAN-85	30	36	SHLE		2	Sandy Shale, light tan to green, calcareous, some limestone.	EXP
HM-72	SWL	09-JAN-85	36	40	LS		3	Limestone, dark grey, very dense, fossiliferous (oysters), some calcareous shale.	EXP
HM-73	SWL	09-JAN-85	0	2	FILL		0	Concrete.	EXP
HM-73	SWL	09-JAN-85	2	13	SDCL	CL	1	Sandy clay, black, red brown, slightly moist to dry, cohesive, some coarse sand	EXP
HM-73	SWL	09-JAN-85	13	20	STCL	CL	1	Silty clay, green tan, slightly moist, cohesive, fissile, some coarse sand.	EXP
HM-73	SWL	09-JAN-85	20	24	SHLE		2	Sandy shale, tan green, dry, weathered some clay, fossiliferous (ammonites and	EXP
HM-73	SWL	09-JAN-85	24	33	STCL		2	Silty clay, green tan, dry, fissile, banded.	EXP
HM-73	SWL	09-JAN-85	33	36	SHLE		3	Calcareous Shale, dark grey, dry, dense, brittle, some fossils.	EXP
HM-73	SWL	09-JAN-85	36	45	LS		3	Shell Agglomerate, dark grey, very dense, fossiliferous (oysters), and interbeds o	EXP
HM-74	SWL	09-JAN-85	0	2	FILL		0	Concrete.	EXP
HM-74	SWL	09-JAN-85	2	6	SDGR	GP	1	FILL. Brown red, slightly moist, cohesive, medium to coarse sand and gravel.	EXP
HM-74	SWL	09-JAN-85	6	32	CLAY	CL	1	Shaley Clay, tan to red brown, slightly moist, cohesive, varying amounts of coars	EXP
HM-74	SWL	09-JAN-85	32	38	LS		3	Limestone, tan weathered, dry, fossiliferous (oysters), dense.	EXP
HM-74	SWL	09-JAN-85	38	40	LS		3	Shell Agglomerate, dark grey, very dense, fossiliferous (oysters), matrix and inter	EXP
HM-75	SWL	09-JAN-85	0	2	FILL		0	Concrete.	EXP
HM-75	SWL	09-JAN-85	2	4	SDCL	CL	1	Sandy clay, tan, dry, cemented brittle.	EXP
HM-75	SWL	09-JAN-85	4	22	STCL		2	Silty Clay, green, tan, moist, cohesive, soft, fissile, some sandy lenses.	EXP
HM-75	SWL	09-JAN-85	22	30	SHLE		3	Sandy Shale, dark grey, slightly moist, calcareous, fissile, stiff.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-76	SWL	10-JAN-85	0	1	FILL		0	Concrete.	EXP
HM-76	SWL	10-JAN-85	1	16	SDGR	GP	1	FILL. Red brown and tan, moist, cohesive, coarse sand and gravel.	EXP
HM-76	SWL	10-JAN-85	16	24	SHLE		2	Clayey Shale, tan and greenish grey, slightly moist, cohesive, fissile, firm.	EXP
HM-76	SWL	10-JAN-85	24	34	SHLE		3	Calcareous Shale, dark grey, dry, brittle, fossiliferous (oysters).	EXP
HM-77	SWL	10-JAN-85	0	1	FILL		0	Concrete.	EXP
HM-77	SWL	10-JAN-85	1	17	STCL	CL	1	Silty Clay, tan brown, moist, cohesive, plastic, some minor coarse sand.	EXP
HM-77	SWL	10-JAN-85	17	30	GVL	GP	1	Gravel, tan white, weathered limestone, subangular to subrounded, some sand.	EXP
HM-77	SWL	10-JAN-85	30	35	LS		3	Limestone, dark grey, dense, fossiliferous (oysters), matrix and interbeds of calca	EXP
HM-78	SWL	11-JAN-85	0	1	FILL		0	Concrete.	EXP
HM-78	SWL	11-JAN-85	1	8	STCL	CL	1	Silty clay, red brown, moist, cohesive, some gravel.	EXP
HM-78	SWL	11-JAN-85	8	22	SDCL	CL	1	Sandy clay, tan brown, moist, cohesive, trace gravel. Strong fuel odor.	EXP
HM-78	SWL	11-JAN-85	22	26	GVCL	GC	1	Clayey Limestone Gravel, white to tan, subangular to subrounded, wet.	EXP
HM-78	SWL	11-JAN-85	26	30	LS		3	Shell Agglomerate, light to dark grey, dense, fossiliferous (oysters), matrix and in	EXP
HM-79	SWL	15-JAN-85	0	1	FILL		0	Asphalt.	EXP
HM-79	SWL	15-JAN-85	1	10	STCL	CL	1	Silty Clay, brown and black, moist, cohesive, plastic, some gravel.	EXP
HM-79	SWL	15-JAN-85	10	34	STCL	CL	1	Shaley Clay, Tan brown, moist, cohesive, plastic, some weathered limestone fos	EXP
HM-79	SWL	15-JAN-85	34	37	GVL	GP	1	Gravel, tan, weathered limestone, wet, rounded to subrounded, some sand, silt a	EXP
HM-79	SWL	15-JAN-85	37	40	SHLE		3	Clayey Shale, brown to dark grey, moist, very firm, brittle, calcareous.	EXP
HM-79	SWL	15-JAN-85	40	42	LS		3	Shell Agglomerate, dark grey, dense, fossiliferous (oysters), matrix and interbeds	EXP
HM-8	SWL	05-DEC-82	0	10	GVCL	CL	1	Gravelly clay, brown-dark brown, moist, firm, grass roots; 1 ft, increasing gravel	EXP
HM-8	SWL	05-DEC-82	10	32	SDCL	CL	1	Sandy clay, lt orange-brown, very moist, firm, uniform, moderately cohesive, fine	EXP
HM-8	SWL	05-DEC-82	32	35	SD	SP	1	Sand, Buff, very moist, loose, fine grained, clean.	EXP
HM-8	SWL	05-DEC-82	35	39.5	SDGR	GP	1	Gravelly sand, light brown-buff, wet, slightly dense, water seepage, limestone an	EXP
HM-8	SWL	05-DEC-82	39.5	40	STCL	ML	1	Clayey silt, light brown, wet soft, moderately cohesive.	EXP
HM-8	SWL	05-DEC-82	40	49	SDGR	GP	1	Gravelly sand, light brown-buff, wet, slightly dense, water seepage, limestone an	EXP
HM-8	SWL	05-DEC-82	49	50	LS		3	Limestone, blue with black and grey, moist, dense.	EXP
HM-80	SWL	15-JAN-85	0	2	FILL		0	Concrete.	EXP
HM-80	SWL	15-JAN-85	2	6	STCL	CL	1	FILL. Brown and black silty clay, moist, cohesive, plastic, some coarse sand and	EXP
HM-80	SWL	15-JAN-85	6	24	CLAY	CL	2	Shaley Clay, green and tan, moist, cohesive, fissile, contains sandy interbeds.	EXP
HM-80	SWL	15-JAN-85	24	25	SHLE		3	Calcareous Shale, dark grey, moist, stiff, some sand.	EXP
HM-80	SWL	15-JAN-85	25	30	LS		3	Shell Agglomerate, dark grey, dense, fossiliferous (oysters) matrix and interbeds	EXP
HM-81	SWL	06-JAN-85	0	6	STCL	CL	1	FILL. Silty clay, red brown, moist, cohesive, some fine fossiliferous gravel.	EXP
HM-81	SWL	06-JAN-85	6	14	STCL	CL	1	Silty clay, tan and brown, moist, cohesive, plastic, fissile, some fine gravel.	EXP
HM-81	SWL	06-JAN-85	14	16	SHLE		2	Clayey Shale, light green, greenish grey, moist, cohesive, firm, plastic, fissile.	EXP
HM-81	SWL	06-JAN-85	16	18	SHLE		2	Sandy Shale, calcareous.	EXP
HM-81	SWL	06-JAN-85	18	26	LS		2	Limestone, medium to dark grey, dense fossiliferous (oysters), matrix and interbe	EXP
HM-82	SWL	16-JAN-85	0	2	CLAY	CL	0	SOIL. Brown clay, moist, cohesive, some organic material.	EXP
HM-82	SWL	16-JAN-85	2	50	STCL	CL	1	Silty Clay, tan, moist, cohesive, plastic, fissile, some fine gravel.	EXP
HM-83	HARG	16-DEC-85	0	4	STCL	CL	1	Silty Clay, dark brown, slightly moist to moist, cohesive, with caliche nodules bel	EXP
HM-83	HARG	16-DEC-85	4	5	STCL	OL	1	Clayey Silt, dark brown, slightly moist to moist.	EXP
HM-83	HARG	16-DEC-85	5	9	STCL	CL	1	Silty clay, reddish brown.	EXP
HM-83	HARG	16-DEC-85	9	12	CLAY	CL	1	Clay, reddish brown, slightly moist to moist, plastic, some white clay nodules.	EXP
HM-83	HARG	16-DEC-85	12	14	STCL	CL	1	Silty clay, light brown, moist.	EXP
HM-83	HARG	16-DEC-85	14	23	LS		3	Limestone, grey brown, dry, weathered, soft with hard nodules of hard limestone	EXP
HM-84	HARG	16-DEC-85	0	1	SDSL	ML	1	Sandy silt, brown, slightly moist.	EXP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-84	HARG	16-DEC-85	1	3	STCL	OL	1	Clayey silt, tan, brown and grey, slightly moist, some small gravel and sandy gra	EXP
HM-84	HARG	16-DEC-85	3	9	STCL	CL	1	Silty clay, orange brown to grey brown, slightly moist,, some coarse sand and gr	EXP
HM-84	HARG	16-DEC-85	9	11	SDGR	GW	1	Sandy gravel, tan, wet, some silt.	EXP
HM-84	HARG	16-DEC-85	11	13	GVST	GPML	1	Gravel and clayey silt, interbedded, tan, wet, gravel lenses at 11.5, 12.5 and 13	EXP
HM-85	HARG	16-DEC-85	0	1	SILT	ML	1	Silt, dark brown, moist, plant material.	EXP
HM-85	HARG	16-DEC-85	1	4	SILT	ML	1	Silt, reddish brown, slightly moist.	EXP
HM-85	HARG	16-DEC-85	4	7	GVST	GPML	1	Gravelly Clayey Silt, reddish brown, slightly moist, becoming moist at 6 ft. Perce	EXP
HM-85	HARG	16-DEC-85	7	8	SDGR	GW	1	Sandy gravel, orange-brown, wet, sand predominantly coarse with a trace of silt.	EXP
HM-85	HARG	16-DEC-85	8	15	SHLE		2	Shale, grey, tan and brown, moist to wet, caliche near tome of unit, alternating s	EXP
HM-86	HARG	01-NOV-86	0	0.5	ASPT		0	Asphalt.	EXP
HM-86	HARG	01-NOV-86	0.5	12	STCL	CL	1	Silty clay, dark yellowish orange, 10 YR 6/6, slightly damp, slightly firm, very co	EXP
HM-86	HARG	01-NOV-86	12	24	STCL	OL	1	Clayey silt, dark yellowish orange, 10 YR 6/6, damp, firm, moderately cohesive.	EXP
HM-86	HARG	01-NOV-86	24	34	STCL	ML	1	Clayey sandy silt, varicolored, pale orange to dark yellowish orange, 10 YR 8/2 t	EXP
HM-86	HARG	01-NOV-86	34	39	SDSL	SM	1	Silty sand, sand is varicolored, saturated, loose, fine to coarse subrounded to sub	EXP
HM-86	HARG	01-NOV-86	39	45	STCL	CL	1	Silty clay, light brown, 5 YR 5/6, wet, stiff, very cohesive.	EXP
HM-86	HARG	01-NOV-86	45	56	SDSL	ML	1	Clayey, sandy silt/silty sand, brown to yellowish orange, 5 YR 4/4 to 10 YR 6/6,	EXP
HM-86	HARG	01-NOV-86	56	60.5	LS		3	Fossiliferous Limestone, light grey to dark grey, N8 to N3, dry, very well cement	EXP
HM-86	HARG	01-NOV-86	60.5	61	SLSS		3	Sandy Siltstone, medium grey, N5, wet, slightly cemented, slightly cohesive.	EXP
HM-86	HARG	01-NOV-86	61	61.5	LS		3	Limestone, dark grey, N3, wet, cemented, with some small fossils (oysters).	EXP
HM-86	HARG	01-NOV-86	61.5	67	SSSL		4	Clay and sandy siltstone-Silty Sandstone, interbedded, clay is dark grey, N4, wet	EXP
HM-86	HARG	01-NOV-86	67	74.5	CLSN		4	Silty claystone, dark grey, N4, wet, stiff, moderately cohesive.	EXP
HM-86	HARG	01-NOV-86	74.5	81	SSST		4	Silty sandstone, pinkish grey, 5 YR 8/1, saturated, dense, friable, very fine to fin	EXP
HM-86	HARG	01-NOV-86	81	86	SHLE		4	Shale, green grey to blue grey, 5G 6/1 to 5B 5/1, wet, firm, fissile, plastic.	EXP
HM-87	HARG	19-SEP-87	0	0.5	ASPT		0	Asphalt and Subgrade.	EXP
HM-87	HARG	19-SEP-87	0.5	35	STCL	ML	1	Clayey silt, yellowish brown (10 YR 5/4) 50% silt, 50% clay, soft, plastic. Interb	EXP
HM-87	HARG	19-SEP-87	35	37	LS		2	Shaley Limestone, white shaley limestone, hard, brittle, calcareous silt interbeds,	EXP
HM-87	HARG	19-SEP-87	37	42	LS		2	Clayey silt/Limestone, gray (5Y 6/1), 80 % silt, 20% clay, soft, plastic, interbed	EXP
HM-88	HARG	22-SEP-87	0	7	STCL	CL	1	Silty clay, greyish orange, 10 YR 7/4, plastic, slightly cohesive.	EXP
HM-88	HARG	22-SEP-87	7	22	SDSL	SM	1	Sandy silt, yellow orange, 10 YR 5/4, 85% silt, 15% sand, sand is very fine- to f	EXP
HM-88	HARG	22-SEP-87	22	27	SDGR	GP	1	Gravelly sand, varicolored, sand is coarse- to medium-grained, rounded to subang	EXP
HM-88	HARG	22-SEP-87	27	32	GVST	ML	1	Gravelly silt, greyish orange, 10 YR 7/4, soft, plastic gravel is angular to subroun	EXP
HM-88	HARG	22-SEP-87	32	37	GVST	ML	1	Gravelly silt, yellowish orange, 10 YR 5/4, gravel approximately 10% fine- to me	EXP
HM-88	HARG	22-SEP-87	37	45	SDGR	GP	1	Sandy gravel, varicolored, fine- to medium-grained, subangular to subrounded.	EXP
HM-88	HARG	22-SEP-87	45	47	LS		3	Fossiliferous Limestone, grey, N4 - N8, abundant shell fragments, minor shale an	EXP
HM-89	HARG	21-SEP-87	0	8	STCL	CL	1	Silty clay, light brown, 5 YR 5/2, soft, plastic, trace gravel, fine- to medium-grain	EXP
HM-89	HARG	21-SEP-87	8	36	CLAY	CH	1	Clay, light brown, 5 YR 5/2, soft, plastic, moderately cohesive.	EXP
HM-89	HARG	21-SEP-87	36	49	GVL	GP	1	Gravel, varicolored, fine- to medium-grained, rounded to subrounded, saturated.	EXP
HM-89	HARG	21-SEP-87	49	52	LS		3	Fossiliferous limestone, dark grey, N8, abundant shell fragments.	EXP
HM-9	SWL	05-DEC-82	0	4	GVCL	CL	1	Fill, gravelly clay, dark brown, moist, cohesive, no odor.	EXP
HM-9	SWL	05-DEC-82	4	5.5	LS		3	Limestone, grey to blue-grey, wet, very dense, no odor.	EXP
HM-90	HARG	26-SEP-87	0	10	CLAY	CH	1	Clay, dark grey, N3, firm, sticky, cohesive.	EXP
HM-90	HARG	26-SEP-87	10	12	STCL	CL	1	Silty clay, dark olive grey, 5 Y 6/1, firm, cohesive, trace medium-grained sand.	EXP
HM-90	HARG	26-SEP-87	12	20	STCL	ML	1	Clayey silt, greyish orange, 10 YR 7/4, firm, cohesive, some medium- to coarse-	EXP
HM-90	HARG	26-SEP-87	20	32	SDGR	GMSP	1	Silty sandy gravel/gravelly sand, greyish orange, 10 YR 7/4, gravel is fine- to me	EXP
HM-90	HARG	26-SEP-87	32	42	GVCL	SP	1	Sandy gravelly silty clay, dark yellowish orange, 10 YR 6/6, soft, sticky, gravel is	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-90	HARG	26-SEP-87	42	52	SDCL	CL	1	Silty clay with sand, yellowish orange, 10 YR 6/6, soft, sticky, trace fine- to me	EXP
HM-90	HARG	26-SEP-87	52	61	SDGR	GP	1	Sandy gravel, varicolored, gravel is rounded with angular shell fragments, sand is	EXP
HM-90	HARG	26-SEP-87	61	61.5	LS		3	Limestone, medium grey to white, N6 - N9, hard.	EXP
HM-91	HARG	02-OCT-87	0	1	CN			Concrete.	EXP
HM-91	HARG	02-OCT-87	1	3.5	STCL	CL	1	Clayey silt, dusky-greyish brown, 5 YR 2.5/2, slightly damp, slightly cohesive.	EXP
HM-91	HARG	02-OCT-87	3.5	9	STCL	ML	1	Sandy, clayey silt, light brown, 5 YR 5/2, sticky, non-cohesive, some varicolored	EXP
HM-91	HARG	02-OCT-87	9	13	SDGR	CL	1	Gravelly and sandy clayey silt, interbedded, light brown, 5 YR 5/6, sticky, sand i	EXP
HM-91	HARG	02-OCT-87	13	18	STCL	CL	1	Clayey, gravelly silt, light brown, 5 YR 5/6, sticky; limestone gravel is subangular	EXP
HM-91	HARG	02-OCT-87	18	20	STCL	CL	1	Sandy, clayey silt, light brown, 5 YR 5/6, sticky, sand is coarse and subangular.	EXP
HM-91	HARG	02-OCT-87	20	30	SDSL	ML	1	Sandy silt, light brown, 5 YR 5/6, sticky, sand is fine to coarse subangular grains	EXP
HM-91	HARG	02-OCT-87	30	50	SDSL	CL	1	Sandy, clayey silt, interbedded light brown, 5 YR 5/6, sticky, slightly cohesive; s	EXP
HM-91	HARG	02-OCT-87	50	60	SDGR	GP	1	Gravelly sand, varicolored, sand and gravel is fine to medium grained, angular to	EXP
HM-91	HARG	02-OCT-87	60	62	LS		3	Fossiliferous Limestone, light grey to dark grey, very well cemented, shell fragme	EXP
HM-92	HARG	04-OCT-87	0	2	FILL		1	Grass, roots and fill.	EXP
HM-92	HARG	04-OCT-87	2	2.5	FILL		1	Gravelly fill.	EXP
HM-92	HARG	04-OCT-87	2.5	5	CLAY	CH	1	Clay, grey black, N2, damp, plastic, sticky, minor gravel, medium grained, suban	EXP
HM-92	HARG	04-OCT-87	5	7	GVCL	CL	1	Gravelly clay, olive black, 5 YR 2/1, wet, plastic, 10% gravel, fine to coarse, sub	EXP
HM-92	HARG	04-OCT-87	7	15	STCL	ML	1	Clayey silt, light brown, 5 YR 5/6, moderately cohesive, sticky, minor gravel, fin	EXP
HM-92	HARG	04-OCT-87	15	17	SDSL	SM	1	Silty sand, light brown, 5 YR 5/6, moderately cohesive, sticky, sand if very fine	EXP
HM-92	HARG	04-OCT-87	17	20	STCL	ML	1	Clayey silt, light brown, 5/yr 5/6, moderately cohesive, sticky, minor sand.	EXP
HM-92	HARG	04-OCT-87	20	37	SDSL	SM	1	Sandy silt, light brown, 5 YR 5/6, cohesive moderately plastic, sticky; sand is ve	EXP
HM-92	HARG	04-OCT-87	37	45	SDGR	GP	1	Gravelly sand, light brown, 5 YR 5/6, sand is fine to coarse grained, gravel is vari	EXP
HM-92	HARG	04-OCT-87	45	58	STCL	CL	1	Silty clay, light brown, 5 YR 5/6, very dense, cohesive, plastic, sticky.	EXP
HM-92	HARG	04-OCT-87	58	61.75	SDSL	SM	1	Silty sand, varicolored, sand is fine to coarse grained, subangular; silt is light bro	EXP
HM-92	HARG	04-OCT-87	61.75	61.76	LS		3	Fossiliferous limestone, light grey to dark grey, very well cemented, shell fragme	EXP
HM-93	HARG	05-OCT-87	0	2	ASPT			Asphalt and fill.	EXP
HM-93	HARG	05-OCT-87	2	5	SDCL	CL	1	Sandy silty clay, light brown, 5 YR 5/6, sticky, slightly cohesive, sand is fine grai	EXP
HM-93	HARG	05-OCT-87	5	8	SDSL	ML	1	Sandy silt, light brown, 5 YR 5/6, slightly cohesive, sand is very fine grained.	EXP
HM-93	HARG	05-OCT-87	8	16	GVL	GP	1	Gravel, varicolored, fine to medium grained, subangular to rounded; clay is interb	EXP
HM-93	HARG	05-OCT-87	16	33	SDSL	SM	1	Silty sand/Sandy silt, greyish orange, 10 YR 7/4, sand is very fine grained, slightl	EXP
HM-93	HARG	05-OCT-87	33	37	STCL	CL	1	Silty clay, greyish orange, 10 YR 7/4, moderately cohesive.	EXP
HM-93	HARG	05-OCT-87	37	37.01	LS		3	Fossiliferous Limestone, light to medium grey, very well cemented, shell fragmen	EXP
HM-94	HARG	10-OCT-87	0	7	SDCL	CL	1	Sandy clay, yellow brown, 10 YR 5/4, clay is cohesive, plastic, sand is medium-	EXP
HM-94	HARG	10-OCT-87	7	19	STCL	CLML	1	Silty clay/Clayey silt, greyish orange, 10 YR 7/4, cohesive, moderately plastic, s	EXP
HM-94	HARG	10-OCT-87	19	26.5	GVST	ML	1	Sandy gravelly silt. silt is grey orange, 10 YR 7/4, cohesive, slightly plastic, fine-	EXP
HM-94	HARG	10-OCT-87	26.5	55	STCL	CL	1	Silty clay, light brown, 5 YR 6/4, cohesive, plastic, soft.	EXP
HM-94	HARG	10-OCT-87	55	59.5	GVL	GP	1	Cobbley gravel, varicolored, subrounded to rounded, gravel is fine- to medium-gra	EXP
HM-94	HARG	10-OCT-87	59.5	61	LS		3	Fossiliferous Limestone, grey, N8 to N4, hard, brittle, very well cemented.	EXP
HM-94	HARG	10-OCT-87	61	66	SDCL		4	Grey, N3, cohesive clay, slightly plastic, very fine-grained sand. Described by ge	EXP
HM-94	HARG	10-OCT-87	66	73	STCL		4	Silty clay/Shale, grey, N6, moderately plastic, hard, trace fine-grained sand. Desc	EXP
HM-94	HARG	10-OCT-87	73	79	SHLE		4	Shale/Sandstone, shale is same as above, sandstone is pinkish grey, 5 YR 8/1, fi	EXP
HM-94	HARG	10-OCT-87	79	87	SS		4	Sandstone, pinkish grey, 5 YR 8/1, fine-grained sand, poorly cemented, non-unif	EXP
HM-94	HARG	10-OCT-87	87	93.5	CLAY		4	Clay/Shale, medium light grey, N6, plastic to highly plastic, some silt. Described	EXP
HM-94	HARG	10-OCT-87	93.5	99	SS		4	Sandstone/Clay, very light grey, N8, fine-grained sand with some clay, poorly ce	EXP
HM-94	HARG	10-OCT-87	99	121	SS		4	Clayey sandstone, very light grey, N8, fine-grained sand, poorly cemented.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-95	HARG	23-OCT-87	0	7	CLAY	CH	1	Clay, reddish, 5 YR 4/20, very cohesive, plastic.	EXP
HM-95	HARG	23-OCT-87	7	20	SDCL	CL	1	Sandy silty clay, grey orange, 10 YR 7/4, moderately cohesive, plastic, approxim	EXP
HM-95	HARG	23-OCT-87	20	26	CLAY	CH	1	Clay, buff, 10 YR 7/4, very plastic, very cohesive.	EXP
HM-95	HARG	23-OCT-87	26	40	SDSL	SM	1	Sandy silt/silty sand, red brown, 10 YR 5/4, sand is fine to very fine grained, slig	EXP
HM-95	HARG	23-OCT-87	40	44.5	SDGR	GP	1	Gravelly sand, varicolored, subrounded, medium to very coarse grained sand, me	EXP
HM-95	HARG	23-OCT-87	44.5	45	LS		3	Fossiliferous Limestone, grey, N4 to N8, angular chips of shell fragments.	EXP
HM-96	HARG	24-OCT-87	0	4	SDCL	CL	1	Clay with sand, red brown, 5 yr 4/2, dry, plastic, cohesive; less than 5 percent s	EXP
HM-96	HARG	24-OCT-87	4	6	SDGR	SP	1	Sandy gravel, varicolored, coarse grained, subrounded.	EXP
HM-96	HARG	24-OCT-87	6	32	SDCL	CL	1	Sandy clay, buff, 10 YR 7/4, moderately plastic, cohesive; sand is varicolored, c	EXP
HM-96	HARG	24-OCT-87	32	40	STCL	CL	1	Silty clay, red brown, 5 YR 4/2, slightly cohesive, moderately plastic; some fine	EXP
HM-96	HARG	24-OCT-87	40	47	SDSL	SM	1	Silty sand, red brown, 5 YR 4/2, sand is well rounded, medium to very coarse gr	EXP
HM-96	HARG	24-OCT-87	47	52.5	GVL	GP	1	Gravel, varicolored, subrounded grains, fine to very coarse grained.	EXP
HM-96	HARG	24-OCT-87	52.5	54	LS		3	Fossiliferous Limestone, grey, N4 to N8, brittle angular shell fragments.	EXP
HM-97	HARG	26-OCT-87	0	7	SDSL	ML	1	Top soil and sandy silt, brown, 10 R 3/4, varicolored, angular grains, 35 percent	EXP
HM-97	HARG	26-OCT-87	7	35	SDCL	CL	1	Silty sandy clay, grey orange, 10 YR 7/4, moderately cohesive, moderately plasti	EXP
HM-97	HARG	26-OCT-87	35	43	CLAY	CH	1	Clay, yellow brown, 10 YR 7/4, very plastic, very cohesive.	EXP
HM-97	HARG	26-OCT-87	43	47	SDGR	GP	1	Gravelly sand, varicolored, well rounded, medium to very coarse grained.	EXP
HM-97	HARG	26-OCT-87	47	51	GVL	GP	1	Gravel, varicolored, well rounded, fine to very coarse grained.	EXP
HM-97	HARG	26-OCT-87	51	51.5	LS		3	Fossiliferous limestone, grey, N7 to N3, brittle angular shell fragments.	EXP
HM-97	HARG	26-OCT-87	51.5	71	SDCL		4	Clayey sand, grey, N7, very fine grained, slightly cohesive, nonplastic. Described	EXP
HM-97	HARG	26-OCT-87	71	76	SDCL		4	Sandy clay, grey, N5 to N4, moderately cohesive, slightly plastic, approximately	EXP
HM-97	HARG	26-OCT-87	76	76.25	SS		4	Sandstone, light grey, N8, very well cemented, very fine grained, hard, brittle. D	EXP
HM-97	HARG	26-OCT-87	76.25	80	SS		4	Clayey sandstone, grey, N7, very fine grained, well rounded, approximately 70 p	EXP
HM-98	WWC	23-MAR-88	0	1	STCL	CL	1	MODERATE BROWN, SLIGHTLY COHESIVE, DRY. LOGGING COMPANY WAS H	IRP
HM-98	WWC	23-MAR-88	1	6.5	STCL	ML	1	DUSKY BROWN, COHESIVE, MODERATELY PLASTIC, DRY.	IRP
HM-98	WWC	23-MAR-88	6.5	14	STCL	ML	1	MODERATE BROWN, SLIGHTLY COHESIVE, NONPLASTIC, DRY.	IRP
HM-98	WWC	23-MAR-88	14	19	SDGR	GM	1	DARK YELLOWISH ORANGE, GRAVEL IS VARICOLORED, FINE TO COARSE GRA	IRP
HM-98	WWC	23-MAR-88	19	25	SDSL	SM	1	DARK YELLOWISH ORANGE, SILT IS MODERATELY COHESIVE, SAND IS FINE G	IRP
HM-98	WWC	23-MAR-88	25	31	SDGR	GM	1	VARICOLORED, SAND AND GRAVEL ARE FINE TO COARSE GRAINED, SUBANG	IRP
HM-98	WWC	23-MAR-88	31	31.5	LS	NACM	2	TAN, NO FOSSILS, DRY.	IRP
HM-99	ACUX	24-MAR-86	0	5	SILT	ML	1	MODERATE BROWN TO DUSKY YELLOWISH BROWN, MODERATELY COHESIVE	IRP
HM-99	ACUX	24-MAR-86	5	9	SILT	MH	1	LT BROWN TO MODERATE YELLOWISH BROWN, SLIGHTLYCOHESIVE, NONPL	IRP
HM-99	ACUX	24-MAR-86	9	11	SILT	GM	1	LT BROWN TO MOD YELL BROWN, NONCOHESIVE, GRAVEL IS MED TO COAR	IRP
HM-99	ACUX	24-MAR-86	11	27	SILT	ML	1	LT BROWN TO MOD YELLOWISH BROWN, SLIGHTLY COHESIVE, NONPLASTIC,	IRP
HM-99	ACUX	24-MAR-86	27	38.5	SILT	SM	1	LT BROWN, SLIGHTLY COHESIVE, SAND IS FINE GRAINED. SATURATED AT 3	IRP
HM-99	ACUX	24-MAR-86	38.5	44	GVL	SP	1	TD @ 44 FT., AUGER REFUSAL. VARICOLORED, FINE TO COARSE, SOME OYS	IRP
LF04-01	RAD	23-MAR-90	0	4	CLAY	CL	1	DARK BROWN, SLIGHTLY SILTY, VERY STIFF, DAMP, MINOR SAMLL GRAVEL.	IRP
LF04-01	RAD	23-MAR-90	4	12.3	CLAY	CL	1	ORANGE/BROWN, SILTY, MINOR FINE SAND, CALCAREOUS MATERIAL.	IRP
LF04-01	RAD	23-MAR-90	12.3	16	SD	SM	1	ORANGE/BROWN, VERY CLAYEY AND SILTY, VERY FINE TO FINE GRAINED, D	IRP
LF04-01	RAD	23-MAR-90	16	19	SD	SM	1	BURNT ORANGE, FINE GRAINED, SLIGHTLY CLAYEY, DAMP.	IRP
LF04-01	RAD	23-MAR-90	19	25	SD	SW	1	TAN, FINE GRAINED, LOOSE, DAMP.	IRP
LF04-01	RAD	23-MAR-90	25	32	CLAY	CL	1	BROWN, SANDY, SATURATED AT 29 FEET.	IRP
LF04-01	RAD	23-MAR-90	32	34	SD	SM	1	BURNT ORANGE, FINE TO MEDIUM GRAINED, SLIGHTLY CLAYEY, SLIGHTLY C	IRP
LF04-01	RAD	23-MAR-90	34	40	SDGR	SW	1	ORANGE, WET, SAND VERY FINE TO VERY COARSE GRAINED, GRAVELS BIMO	IRP
LF04-01	RAD	23-MAR-90	40	40.1	LS	NACM	3	WEATHERED, CHALKY, FISSILE.	IRP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
LF04-02	RAD	28-MAR-90	0	11	CLAY	CL	1	DARK BROWN, SILTY, FIRM, ROOTS, DAMP, CARBONACEOUS STAINING.	IRP
LF04-02	RAD	28-MAR-90	11	37	SD	SP	1	SAND AND GRAVEL, ORANGE, COHESIVE, CLAYEY, SILTY, DAMP, ABUNDAN	IRP
LF04-02	RAD	28-MAR-90	37	37.7	LS	NACM	1	TD IN WALNUT OR GOODLAND FM. (NOT INDICATED ON LOG). MARLY LS, W	IRP
LF04-04	RAD	20-MAR-90	0	1.5	CLAY	CL	1	RED/BROWN, SANDY, SILTY, DAMP, COHESIVE, ROOTS, INCREASING SAND	IRP
LF04-04	RAD	20-MAR-90	1.5	10	SD	SP	1	RED/BROWN TO ORANGE, FINE TO MEDIUM GRAINED, CLAYEY, DAMP.	IRP
LF04-04	RAD	20-MAR-90	10	25	SDGR	GP	1	SAND AND GRAVEL, ORANGE, WET,VERY POORLY SORTED, QUARTZOSE.	IRP
LF04-04	RAD	20-MAR-90	25	25.4	LS	NACM	3	MARL, HIGHLY CALCAREOUS, FISSILE, SHALEY, LIGHT TO MEDIUM GRAY, BR	IRP
LF05-01	RAD	22-MAR-90	0	2	FILL	CL	1	DARK BROWN, FIRM, SILTY, ROOTS, DAMP, MINOR SAND AND GRAVEL.	IRP
LF05-01	RAD	22-MAR-90	2	4	FILL	SP	1	TAN, MEDIUM TO COARSE GRAINED, LOOSE, DAMP.	IRP
LF05-01	RAD	22-MAR-90	4	18.1	CLAY	CL	1	DARK BROWN, FIRM, SILTY, ROOTS, DAMP, MINOR SAND AND GRAVEL.	IRP
LF05-01	RAD	22-MAR-90	18.1	22	SDCL	SP	1	LIGHT BROWN, VERY SILTY AND CLAYEY, SATURATED, MINOR SMALL GRAV	IRP
LF05-01	RAD	22-MAR-90	22	25	GVST	GM	1	EQUAL SAND, CLAY, GRAVEL MIXTURE. TD @ 25 FT. IN LIMESTONE.	IRP
LF05-19	RAD	21-MAR-90	0	2	CLAY	CL	1	DARK BROWN TO ORANGE BROWN, DAMP, COHESIVE.	IRP
LF05-19	RAD	21-MAR-90	2	6	SD	SM	1	ORANGE, FINE TO MEDIUM GRAINED, DAMP, LOOSE.	IRP
LF05-19	RAD	21-MAR-90	6	6.3	LS	NACM	2	1 IN. LS BED UNDERLAIN BY 2 IN. CEMENTED SAND.	IRP
LF05-19	RAD	21-MAR-90	6.3	20	SDGR	GP	4	SAND AND GRAVEL, INCREASING GRAVEL WITH DEPTH, ORANGE.	IRP
LF05-19	RAD	21-MAR-90	20	20.8	LS	NACM	4	TAN/WHITE, WEATHERED, HEAVILY FRACTURED, OXIDATION STAINING.	IRP
LF05-19	RAD	21-MAR-90	20.8	20.8	LS	NACM	2	WEATHERED, TAN TO WHITE, INDURATED BUT HEAVILY FRACTURED, OXIDA	IRP
LF05-5A	ACUX	01-JAN-99	0	0	ASPT	CH	0	LOGGING CO. UNKNOWN, NO LITH. LOG.	IRP
OW-1		10/22/93	0	5	FILL	NACM	0	Fill, rock base, calc, limestone fragments.	PAR
OW-1		10/22/93	5	16	CLAY	CL	1	Clay, tan, calc, silty.	PAR
OW-1		10/22/93	16	25	LS	CL	3	Weathered Limestone, layers, tan, calc.	PAR
OW-2		10/25/93	0	13	CLAY	CL	0	Concrete. Silty clay, lt bwn, moist, calc.	PAR
OW-2		10/25/93	13	14	LS	CL	0	Limestone, tan, hard, highly fractured.	PAR
OW-2		10/25/93	14	18	CLAY	CL	0	Clay, lt bwn, calc. interbedded thin limestone seams.	PAR
OW-2		10/25/93	18	19	LS	CL	0	Limestone, tan, hard, fractured.	PAR
OW-2		10/25/93	19	25	LS	CL	0	Weathered Limestone, tan.	PAR
P-1	SWL	01-MAR-83	0	0.25	ASPT		0	Asphalt and subgrade.	EXP
P-1	SWL	01-MAR-83	0.25	10.25	LS		2	Limestone, light grey, dense, fossiliferous (mollusks), some thin beds of soft silt	EXP
P-1	SWL	01-MAR-83	10.25	14.75	CLAY		2	Clay, light brownish yellow w/ some dark brown, soft to firm, slightly cohesive, l	EXP
P-1	SWL	01-MAR-83	14.75	15.25	LS		2	Limestone, same as depth interval 5 to 10.5 ft.	EXP
P-1		01-MAR-83	15.25	18	CLAY		2	Clay, same as depth interval 10.5 to 14.5.	EXP
P-1		01-MAR-83	18	22	LS		2	Clayey limestone, light to dark grey, dense, fossiliferous (m), with fewer shells th	EXP
P-1		01-MAR-83	22	30	LSSS		2	Limestone w/ clayey shale/shaley clay, lt. to med. grey, dense, fossiliferous (m)	EXP
P-1		01-MAR-83	30	34	LSSS		2	Clayey shale/shaley clay w/ limestone, medium to dark grey, soft to firm, slightly	EXP
P-1		01-MAR-83	34	36	LSSS		3	Shaley limestone, medium to dark grey, dense, fossiliferous (mollusks), shale is c	EXP
P-1		01-MAR-83	36	65	LS		3	Shell Agglomerate, dk grey w/ some lt grey, dense, well cemented, very fossilifer	EXP
P-1		01-MAR-83	65	80	SHLE		3	Clayey shale/shaley clay, med. to dk. grey, soft to slightly firm, cohesive; 77 ft:	EXP
P-1		01-MAR-83	80	94	SD		4	Sand, buff, very fine to fine grained quartz, subrounded to well rounded, well sor	EXP
P-1		01-MAR-83	94	123	CLAY		4	Silty clay/silty shale, dark buff w/ some lt brn, soft to slightly firm, clay is slightl	EXP
P-1		01-MAR-83	123	205	SD		4	Sand, buff, very fine to fine grained quartz, subrounded to well rounded, well sor	EXP
P-1		01-MAR-83	205	210	SHLE		4	Silty shale/silty clay, blue-green with brown, soft to firm, slightly to moderately c	EXP
P-1		01-MAR-83	210	213	SDSL		4	Silty sand/clayey sand, light grey with a blue-green hue, very fine grained uncons	EXP
P-1		01-MAR-83	213	214	LSSD		5	Sandy limestone, light brownish grey to grey, dense, brittle, some blue-green sha	EXP
P-10M	ACUX	10-FEB-85	0	2	SDCL	CL	1	LOGGING COMPANY WAS SOUTHWEST LABS (?). BROWN, MOIST, SOME SIL	IRP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-10M	ACUX	10-FEB-85	2	28	LS	NACM	3	LIGHT BROWN TO GRAY, DENSE, FOSSILIFEROUS. INTERBEDS OF SANDY CL	IRP
P-10M	HARG	10-FEB-85	28	53	SS	NACM	4	DARK GRAY, POORLY TO MODERATELY CEMENTED, SOME LIGNITE AND PYRI	IRP
P-10M	HARG	10-FEB-85	53	87	SHLE	NACM	4	BLUE-GREEN, FIRM.	IRP
P-10M	ACUX	10-FEB-85	87	129	SS	NACM	5	GRAY, FINE-GRAINED, LOOSE TO MODERATELY CEMENTED, SOME SILT AND	IRP
P-10M	ACUX	10-FEB-85	129	134	CLSN	NACM	5	BLUE-GREEN, FIRM.	IRP
P-10U	SWL	22-JAN-85	0	2	SDCL	CL	1	Sandy clay, brown, moist, some silt, trace gravel.	EXP
P-10U	SWL	22-JAN-85	2	28	LS		3	Shell Agg., light brown to grey, dense, fossiliferous (oysters), contains interbeds	EXP
P-10U	SWL	22-JAN-85	28	53	SSST		3	Silty, clayey sandstone, dark grey to brown, poorly cemented, some lignite and p	EXP
P-10U	SWL	22-JAN-85	53	58	CLSN		3	Claystone/clayey shale, blue-green, firm, contains some sandstone interbeds.	EXP
P-11(M)		8/26/85	0	0.3	ASPT	NA	0	ASPHALT	PAR
P-11(M)		8/26/85	0.3	4.8	NAUM	CH	1	CLAY, high plasticity, m stiff, sl moist, dark brown, chemical odor a top of unit.	PAR
P-11(M)		8/26/85	4.8	7	NAUM	GM	1	GRAVEL, coarse to fine, angular, medium dense, sl moist, brown, very sandy an	PAR
P-11(M)		8/26/85	7	12.7	SHLE	NACM	3	SHALE, weathered to a plastic and v stiff clay consistency, sl moist, yellow bro	PAR
P-11(M)		8/26/85	12.7	54	LS	NACM	3	LIMESTONE, weather stained, but mostly white, moderately hard to hard, mod t	PAR
P-11(M)		8/26/85	54	54.8	SHLE	NACM	4	SHALE (reinterpretation of geophysical log)	PAR
P-11(M)		8/26/85	54.8	61.5	SS	NACM	4	SANDSTONE (reinterpretation of geophysical log)	PAR
P-11(M)		8/26/85	61.5	71	SHLE	NACM	4	SHALE no apperent weathering, soft, gray to blue-gray, sand seams throughout,	PAR
P-11(M)		8/26/85	71	153.3	SS	NACM	4	SAND/SANDSTONE, friable, weakly to non cement, soft to mod hard, f grained,	PAR
P-11(M)		8/26/85	153.3	165.4	SSSH	NACM	4	SAND and SHALE, interbedded f grained sand, friable, silty, and dark gray shale,	PAR
P-11(U)		8/13/85	0	0.3	ASPT	SW	0	ASPHALT.	PAR
P-11(U)		8/13/85	0.3	2.4	NAUM	CL	1	CLAY, high plasticity, m stiff, sl moist, dark brown, chemical odor	PAR
P-11(U)		8/13/85	2.4	6.5	NAUM	GM	1	GRAVEL, coarse to fine, angular, m dense, sl moist, brown, v sandy and clayey,	PAR
P-11(U)		8/13/85	6.5	8.3	NAUM	CL	1	CLAY, high plasticity, stiff, sl moist, red, sandy lime	PAR
P-11(U)		8/13/85	8.3	12.3	SHLE	NACM	3	SHALE, weathered to a high plastic and very stiffclay consistency, good blocky s	PAR
P-11(U)		8/13/85	12.3	31	LSSH	NACM	3	ARILLACEOUS LIMESTONE and SHALE interbedded - WALNUT FM. - weathered	PAR
P-11(U)		8/13/85	31	53.5	LS	NACM	3	LIMESTONE, white, mod. hard to hard, dense oyster shell beds scattered, occasi	PAR
P-11(U)		8/13/85	53.5	54	SHLE	NACM	4	SHALE (from reinterpretation of geophysical logs)	PAR
P-11(U)		8/13/85	54	59.8	SS	NACM	4	SANDSTONE (from reinterpretation of geophysical logs)	PAR
P-11(U)		8/13/85	59.8	63.8	SHLE	NACM	4	SHALE, unweathered dark gray, soft, thin lime stringers throughout, silty, sandy,	PAR
P-11(U)		8/13/85	63.8	70.1	SSSH	NACM	4	SHALE and SAND interbedded, shale is as above and sand is fine grained, silty, g	PAR
P-11(U)		8/13/85	70.1	93	SS	NACM	4	SAND/SANDSTONE fine,very silty, numerous silt seams, clayey with scattered cl	PAR
P-11M	USCE	26-AUG-85	0	0.3	ASPT	NACM	0	ASPHALT.	IRP
P-11M	USCE	26-AUG-85	0.3	4.8	CLAY	CH	1	HIGH PLASTICITY, MEDIUM STIFF, SLIGHTLY MOIST, DARK BROWN.	IRP
P-11M	USCE	26-AUG-85	4.8	7	GVL	GP	1	BROWN, COARSE TO FINE, ANGULAR, MEDIUM DENSE, SLIGHTLY MOIST, VE	IRP
P-11M	USCE	26-AUG-85	7	12.7	SHLE	NACM	3	YELLOW BROWN AND GARY, WEATHERED TO PLASTIC AND STIFF CLAY CON	IRP
P-11M	USCE	26-AUG-85	12.7	54	LSSH	NACM	3	WEATHER STAINED BUT MOSTLY WHITE, MODERATELY HARD TO HARD, MO	IRP
P-11M	USCE	26-AUG-85	54	54.8	SHLE	NACM	3	SHALE, NO DESCRIPTION ON LOG.	IRP
P-11M	USCE	26-AUG-85	54.8	61.5	SS	NACM	4	SANDSTONE, NO DESCRIPTION ON LOG.	IRP
P-11M	USCE	26-AUG-85	61.5	71	SHLE	NACM	4	GRAY TO BLUE-GRAY, SOFT, SILTY, SAND SEAMS THROUGHOUT.	IRP
P-11M	USCE	26-AUG-85	71	153.3	SSST	NACM	5	GRAY, FRIABLE, WEAKLY TO NONCEMENTED, VERY SILTY, PYRITE AND LIGNI	IRP
P-11M	USCE	26-AUG-85	153.3	165.4	SSSH	NACM	5	INTERBEDDED SAND AND SHALE. SAND IS FINE, FRIABLE, AND SILTY; SHAL	IRP
P-11U	HARG	13-AUG-85	0	0.3	FILL	CH	0	ASTM CODE INAPPROPRIATE, ASPHALT.	IRP
P-11U	HARG	13-AUG-85	0.3	2.4	CLAY	CH	1	HIGH PLASTICITY, MEDIUM STIFF, SLIGHTLY MOIST, DARK BROWN.	IRP
P-11U	HARG	13-AUG-85	2.4	6.5	GVL	GC	1	COARSE TOFINE, ANGULAR, MEDIUM DENSE, SLIGHTLY MOIST, BROWN, VER	IRP
P-11U	HARG	13-AUG-85	6.5	8.3	CLAY	CH	1	HIGH PLASTICITY, STIFF, SLIGHTLY MOIST, RED, SANDY LIME.	IRP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-11U	HARG	13-AUG-85	8.3	12.3	SHLE	NACM	2	WEATHERED TO A HIGH PLASTIC AND VERY STIFF CLAY CONSISTENCY, MOI	IRP
P-11U	HARG	13-AUG-85	12.3	31	LS	NACM	3	INTERBEDDED WITH SHALE, WHITE AND YELLOW BROWN, VERY SOFT SHALE	IRP
P-11U	HARG	13-AUG-85	31	53.5	LS	NACM	3	WHITE, MODERATELY HARD TO HARD. DENSE OYSTER SHELL BEDS SCATTER	IRP
P-11U	HARG	13-AUG-85	53.5	54	SHLE	NACM	3	NO DESCRIPTION ON LOG.	IRP
P-11U	HARG	13-AUG-85	54	59.8	SS	NACM	4	NO DESCRIPTION ON LOG.	IRP
P-11U	HARG	13-AUG-85	59.8	63.8	SHLE	NACM	4	UNWEATHERED DARK GRAY, SOFT, THIN LIME STRINGERS THROUGHOUT, SI	IRP
P-11U	HARG	13-AUG-85	63.8	70.1	SSSH	NACM	4	SAND IS FINE GRAINED, SILTY, GRAY. SHALE IS DARK GRAY, SOFT.	IRP
P-11U	HARG	13-AUG-85	70.1	93	SS	NACM	4	FINE, VERY SILTY, CLAYEY, GRAY AND BROWN, VERY SOFT TO MODERATEL	IRP
P-11US	SWL	01-AUG-87	0	1	ASPT		0	Asphalt and subgrade. Yellowish brown, 10 YR 5/4, with dark brown mottle, 50	EXP
P-11US	SWL	01-AUG-87	1	10	STCL	CL	1	Silty clay, white to tan, 2.5 Y 7/4, clay, very hard, dense, weathered, indurated	EXP
P-11US	SWL	01-AUG-87	10	17	SHLE		3	Shale/Limestone, tan, 2.5 Y 7/4, shale with black inclusions, reaction with HC1	EXP
P-11US	SWL	01-AUG-87	17	54	SHLE		3	Shale/Limestone, grey, 5 Y 6/1, shale, soft to hard, red staining. Interbedded wit	EXP
P-11US	SWL	01-AUG-87	54	55	STCL		3	Silty clay, grey, 2.5 Y 6/1, 60% clay, 40% silt, plastic, soft to firm. Geologist de	EXP
P-11US	SWL	01-AUG-87	55	60	SDSL		3	Sand with silt, grey, 2.5 Y 5/1, 90% sand, 10% silt, sand is very fine to fine, tra	EXP
P-11US	SWL	01-AUG-87	60	62	SDSL		3	Silt/sand, silt/clayey silt, dark greyish brown, 2.5 Y 4/2, to grey, 5 Y 5/1, silt, dr	EXP
P-12(M)		9/16/85	0	0.5	FILL	NA	0	CONCRETE	PAR
P-12(M)		9/16/85	0.5	1	FILL	NA	0	BASE GRAVEL	PAR
P-12(M)		9/16/85	1	3.5	NAUM	CH	1	CLAY, high plasticity, stiff, sl moist, dark gray to dark brown, sandy and gravelly	PAR
P-12(M)		9/16/85	3.5	8.7	NAUM	SWGM	1	SAND and GRAVEL interbedded, both are coarse to fine grained, med dense, sl	PAR
P-12(M)		9/16/85	8.7	9.5	NAUM	CH	1	CLAY, high plasticity, stiff to v stiff, sl moist, yellow brown, lime nodules and co	PAR
P-12(M)		9/16/85	9.5	54.4	LS	NACM	3	LIMESTONE, white and yellow brown weather stains throughout, mod hard to v	PAR
P-12(M)		9/16/85	54.4	55	SHLE	NACM	4	SHALE (based on reinterpretation of geophysical log)	PAR
P-12(M)		9/16/85	55	58.8	SS	NACM	4	SANDSTONE (based on reinterpretation of geophysical log)	PAR
P-12(M)		9/16/85	58.8	72.6	SSSH	NACM	4	SHALE and SAND interbedded, sand is f grained, friable, shale is unweathered da	PAR
P-12(M)		9/16/85	72.6	155.5	SS	NACM	4	SAND/SANDSTONE, f grained, friable, non to weakly cemented, cement content	PAR
P-12(U)		9/24/85	0	0.5	FILL	NA	0	CONCRETE	PAR
P-12(U)		9/24/85	0.5	1	FILL	NA	0	BASE GRAVEL	PAR
P-12(U)		9/24/85	1	3.3	NAUM	CH	1	CLAY, high plasticity, stiff, sl moist, dark brown, sl sandy.	PAR
P-12(U)		9/24/85	3.3	8.7	NAUM	GCSC	1	GRAVEL and SAND interbedded, both c to f grained, med dense, sl moist, dark b	PAR
P-12(U)		9/24/85	8.7	9.4	NAUM	CH	1	CLAY, high plasticity, stiff to v stiff, sl moist, yellow brown, lime nodules, oyster	PAR
P-12(U)		9/24/85	9.4	54.6	LS	NACM	3	LIMESTONE, weather stains, white to yellow brown, mod hard to hard, mod to	PAR
P-12(U)		9/24/85	54.6	55.2	SHLE	NACM	4	SHALE (based on reinterpretation of geophysical log)	PAR
P-12(U)		9/24/85	55.2	59	SS	NACM	4	SANDSTONE (based on reinterpretation of geophysical log)	PAR
P-12(U)		9/24/85	59	72.8	SSSH	NACM	4	SHALE and SAND interbedded, f grained, friable, soft sand, dark gray, soft shale.	PAR
P-12(U)		9/24/85	72.8	97	SS	NACM	4	SAND/SANDSTONE, f grained, friable, weak to non cemented, sm mod cemente	PAR
P-12M	ACUX	16-SEP-85	0	1	FILL	CL	0	LOGGING COMPANY WAS HARGIS & ASSOCIATES. ASTM CODE INAPPROPRI	IRP
P-12M	ACUX	16-SEP-85	1	3.5	CLAY	CL	1	DARK GRAY TO DARK BROWN, HIGHLY PLASTIC, SLIGHTLY MOIST, SANDY A	IRP
P-12M	ACUX	16-SEP-85	3.5	8.7	SDGR	GP	1	SAND AND GRAVEL, BOTH ARE FINE TO COARSE GRAINED, SLIGHTLY MOIST	IRP
P-12M	ACUX	16-SEP-85	8.7	9.5	CLAY	CL	1	YELLOW BROWN, HIGHLY PLASTIC, STIFF TO VERY STIFF, SANDY AND GRAV	IRP
P-12M	ACUX	16-SEP-85	9.5	54.4	LS	NACM	3	WHITE WITH YELLOW BROWN STAINING, HARD TO VERY HARD, MODERATEL	IRP
P-12M	ACUX	16-SEP-85	54.4	55	SHLE	NACM	3	NO DESCRIPTION ON LOG.	IRP
P-12M	ACUX	16-SEP-85	55	58.8	SS	NACM	4	NO DESCRIPTION ON LOG.	IRP
P-12M	ACUX	16-SEP-85	58.8	72.6	SS	NACM	4	SHALE AND SAND INTERBEDDED. SAND IS FINE GRAINED AND FRIABLE, SHA	IRP
P-12M	ACUX	16-SEP-85	72.6	155.5	SS	NACM	5	FINE GRAINED, FRIABLE, NON TO WEAKLY CEMENTED, SOME LIME STRINGER	IRP
P-12U	USCE	16-SEP-85	0	0.5	CN		0	Concrete.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-12U	USCE	16-SEP-85	0.5	1	GVL	GP	1	Base Gravel.	EXP
P-12U	USCE	16-SEP-85	1	3.3	CLAY	CL	1	Clay, high plasticity, stiff, slighlty moist, dark brown, slightly sandy.	EXP
P-12U	USCE	16-SEP-85	3.3	8.7	SDGR	GP	1	Gravel and sand, interbedded, both are coarse to fine, medium dense, slightly mo	EXP
P-12U	USCE	16-SEP-85	8.7	9.4	CLAY	CL	1	Clay, high plasticity, stiff to very stiff, slightly moist, yellow brown, lime nodules	EXP
P-12U	USCE	16-SEP-85	9.4	54.6	LS		3	Limestone, weather stains, white with yellow brown, moderately hard to hard (ro	EXP
P-12U	USCE	16-SEP-85	54.6	55.2	SHLE		3	Shale.	EXP
P-12U	USCE	16-SEP-85	55.2	59	SS		4	Sandstone.	EXP
P-12U	USCE	16-SEP-85	59	72.8	SHLE		4	Shale and sand interbedded, sand is fine grained and friable, shale is an unweath	EXP
P-12U	USCE	16-SEP-85	72.8	97	SS		4	Sand/Sandstone, fine grained, friable, mostly weak to non-cemented, some mode	EXP
P-12UN	ACUX	03-JAN-88	0	1.5	FILL	CH	0	ASTM CODE IS INVALID, STRAT. ORDER INAPPROPRIATE. CONCRETE AND FI	IRP
P-12UN	ACUX	03-JAN-88	1.5	8	SILT	MH	2	DARK YELLOWISH BROWN, NONCOHESIVE, BUFF COLORED CHERT NODULES,	IRP
P-12UN	ACUX	03-JAN-88	8	15	LSSD	NACM	2	GRAYISH ORANGE, SILT IS NONCOHESIVE, SAND IS FINE-GRAINED.	IRP
P-12UN	ACUX	03-JAN-88	15	58	LS	NACM	3	MEDIUM LIGHT GRAY TO MEDIUM GRAY, DRY, WELL CEMENTED, OYSTER FO	IRP
P-12UN	ACUX	03-JAN-88	58	58.5	SLCL	NACM	4	MEDIUM GRAY, NONCOHESIVE.	IRP
P-12UN	ACUX	03-JAN-88	58.5	61	SSCA	NACM	4	MEDIUM GRAY, VERY FINE-GRAINED, SOME PYRITE.	IRP
P-12UN	ACUX	03-JAN-88	61	70.5	SLSS	NACM	4	MEDIUM GRAY, NONCOHESIVE, SAND IS VERY FINE-GRAINED.	IRP
P-12UN	ACUX	03-JAN-88	70.5	77	SSST	NACM	4	LIGHT GRAY, VERY FINE-GRAINED.	IRP
P-12UN	ACUX	03-JAN-88	77	78	SSST	NACM	4	VARICOLORED, FINE TO MEDIUM-GRAINED, GRAVEL CONSISTS OF CHERT AN	IRP
P-12UN	ACUX	03-JAN-88	78	97	SSST	NACM	4	LIGHT GRAY, VERY FINE-GRAINED.	IRP
P-12US	ACUX	07-FEB-85	0	3	CLAY	CL	1	CLAY. NO OTHER DESCRIPTION ON LOG. LOGGING COMPANY IS HARGIS &	IRP
P-12US	ACUX	07-FEB-85	3	8.5	SDGR	GP	1	GRAVEL/SAND. NO OTHER DESCRIPTION ON LOG.	IRP
P-12US	ACUX	07-FEB-85	8.5	9.5	CLAY	CL	1	CLAY. NO OTHER DESCRIPTION ON LOG.	IRP
P-12US	ACUX	07-FEB-85	9.5	54.5	LS	NACM	3	LIMESTONE. NO OTHER DESCRIPTION ON LOG.	IRP
P-12US	ACUX	07-FEB-85	54.5	55	SHLE	NACM	4	SHALE. NO OTHER DESCRIPTION ON LOG.	IRP
P-12US	ACUX	07-FEB-85	55	59	SS	NACM	4	SANDSTONE. NO OTHER DESCRIPTION ON LOG.	IRP
P-12US	ACUX	07-FEB-85	59	73	SS	NACM	4	SAND/SHALE. NO OHTER DESCRIPTION ON LOG.	IRP
P-12US	ACUX	07-FEB-85	73	92	SS	NACM	5	SANDSTONE. NO OTHER DESCRIPTION ON LOG.	IRP
P-13(M)		1/3/86	0	6.5	FILL	CL	0	CLAY FILL, black-brown, med plasticity,med stiff, sl moist, scattered gravel.	PAR
P-13(M)		1/3/86	6.5	8.5	NAUM	CL	1	CLAY, black-brown, med plasticity,med stiff, sl moist, scattered gravel.	PAR
P-13(M)		1/3/86	8.5	14	NAUM	GC	1	GRAVEL, sm cobbles, clayey, sl moist.	PAR
P-13(M)		1/3/86	14	26	SHLE	NACM	3	SHALE, calcareous.	PAR
P-13(M)		1/3/86	26	28	LS	NACM	3	LIMESTONE, shaley.	PAR
P-13(M)		1/3/86	28	55.5	LS	NACM	3	LIMESTONE, occassional shale seams.	PAR
P-13(M)		1/3/86	55.5	56	SHLE	NACM	4	SHALE.	PAR
P-13(M)		1/3/86	56	64	SS	NACM	4	SANDSTONE.	PAR
P-13(M)		1/3/86	64	72	SHLE	NACM	4	SHALE.	PAR
P-13(M)		1/3/86	72	77	SS	NACM	4	SANDSTONE.	PAR
P-13(M)		1/3/86	77	96	SS	NACM	4	SANDSTONE, gray, f grained, calcareous, loosely cemented, with scattered thin,	PAR
P-13(M)		1/3/86	96	110	SS	NACM	4	SANDSTONE, soft to mod hard, c grained.	PAR
P-13(M)		1/3/86	110	167.7	SS	NACM	4	SANDSTONE, weak to non cemented, sm weak to mod cemented, f grained,ligh	PAR
P-13(M)		1/3/86	167.7	167.8	SHLE	NACM	4	SHALE, greenish gray to white.	PAR
P-13(U)		1/30/86	0	6.9	NAUM	CL	0	CLAY, fill, med plasticity, mod stiff, sl moist, black to brown, scattered gravel.	PAR
P-13(U)		1/30/86	6.9	8.9	NAUM	CL	1	CLAY, med plasticity, mod stiff, sl moist, black to brown, scattered gravel.	PAR
P-13(U)		1/30/86	8.9	14.4	NAUM	GC	1	GRAVEL, sl cobbly, clayey, sl moist.	PAR
P-13(U)		1/30/86	14.4	26	SHLE	NACM	3	SHALE, calcareous.	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-13(U)		1/30/86	26	28.3	LS	NACM	3	LIMESTONE, shaley.	PAR
P-13(U)		1/30/86	28.3	55.3	LS	NACM	3	LIMESTONE, few shale seams except from 42.0 to 47.5' where shaley.	PAR
P-13(U)		1/30/86	55.3	56	SHLE	NACM	4	SHALE	PAR
P-13(U)		1/30/86	56	63.7	SSST	NACM	4	SANDSTONE, silty.	PAR
P-13(U)		1/30/86	63.7	72	SHLE	NACM	4	SHALE.	PAR
P-13(U)		1/30/86	72	76	SSST	NACM	4	SANDSTONE, very silty decreasing with depth to sl silty.	PAR
P-13(U)		1/30/86	76	90.5	SS	NACM	4	SANDSTONE, contains a number of shale streaks and thin seams.	PAR
P-13M	ACUX	25-JUL-86	0	6.5	FILL	CL	1	BLACK-BROWN, MEDIUM PLASTICITY, MEDIUM STIFF, SLIGHTLY MOIST, SCA	IRP
P-13M	ACUX	25-JUL-86	6.5	8.5	CLAY	CL	1	BLACK-BROWN, MEDIUM PLASTICITY, MEDIUM STIFF, SLIGHTLY MOIST, SCA	IRP
P-13M	ACUX	25-JUL-86	8.5	14	GVL	GM	1	SOME COBBLES, CLAYEY, SLIGHTLY MOIST.	IRP
P-13M	ACUX	25-JUL-86	14	26	SHLE	NACM	2	CALCAREOUS. IDENTIFIED BY CUTTINGS, RATE OF BIT PENETRATION, AND E	IRP
P-13M	ACUX	25-JUL-86	26	55.5	LS	NACM	3	OCCASIONAL SHALE SEAMS. IDENTIFIED BY CUTTINGS, RATE OF BIT PENET	IRP
P-13M	ACUX	25-JUL-86	55.5	56	SHLE	NACM	3	IDENTIFIED BY CUTTINGS, RATE OF BIT PENETRATION, AND ELECTRIC LOG O	IRP
P-13M	ACUX	25-JUL-86	56	64	SS	NACM	4	IDENTIFIED BY CUTTINGS, RATE OF BIT PENETRATION, AND ELECTRIC LOG O	IRP
P-13M	ACUX	25-JUL-86	64	72	SHLE	NACM	4	IDENTIFIED BY CUTTINGS, RATE OF BIT PENETRATION, AND ELECTRIC LOG O	IRP
P-13M	HARG	03-JAN-86	72	110	SS	NACM	4	GRAY, FINE TO MEDIUM GRAINED, OCCASIONALLY CALCAREOUS, SOME CLA	IRP
P-13M	HARG	03-JAN-86	110	167.7	SS	NACM	4	MOSTLY WEAK TO NONCEMENTED, FINE GRAINED, LIGHT GRAY, THIN LIGNIT	IRP
P-13M	ACUX	25-JUL-86	167.7	167.8	SHLE	NACM	5	GREENISH GRAY TO WHITE.	IRP
P-13U	HARG	30-JAN-86	0	6.9	FILL	CH	0	ASTM CODE INAPPROPRIATE.	IRP
P-13U	HARG	30-JAN-86	6.9	8.9	CLAY	CL	1	MEDIUM PLASTICITY, MODERATELY STIFF, SLIGHTLY MOIST, BLACK/BROWN,	IRP
P-13U	HARG	30-JAN-86	8.9	14.4	GVL	GC	1	SLIGHTLY COBBLY, SLIGHTLY CLAYEY, SLIGHTLY MOIST.	IRP
P-13U	HARG	30-JAN-86	14.4	26	SHLE	NACM	1	CALCAREOUS.	IRP
P-13U	HARG	30-JAN-86	26	28.3	LS	NACM	2	SHALEY.	IRP
P-13U	HARG	30-JAN-86	28.3	55.3	LS	NACM	2	FEW SHALE SEAMS.	IRP
P-13U	HARG	30-JAN-86	55.3	56	SHLE	NACM	2	NO DESCRIPTION ON LOG.	IRP
P-13U	HARG	30-JAN-86	56	63.7	SS	NACM	4	SILTY.	IRP
P-13U	HARG	30-JAN-86	63.7	72	SHLE	NACM	4	NO DESCRIPTION ON LOG.	IRP
P-13U	HARG	30-JAN-86	72	76	SS	NACM	4	VERY SILTY DECREASING WITH DEPTH TO SLIGHTLY SILTY.	IRP
P-13U	HARG	30-JAN-86	76	90.5	SS	NACM	4	CONTAINS A NUMBER OF SHALE STREAKS AND THIN SEAMS.	IRP
P-13US	HARG	01-AUG-87	0	0.5	STCL		0	TURF.	EXP
P-13US	HARG	01-AUG-87	0.5	8.5	STCL	ML	1	Clayey silt, very dark greyish brown, 2.5 Y 3/2, 85% silt, 15% clay, soft, plastic	EXP
P-13US	HARG	01-AUG-87	8.5	11	GVST	GMGC	1	Gravel/clayey silt, mottled gravel with coarse sand, very angular to subround; int	EXP
P-13US	HARG	01-AUG-87	11	27	SILT	MH	1	Silt, white, 2.5 Y 8/2, silt, very soft, cohesive, trace very fine to fine sand; 13 ft	EXP
P-13US	HARG	01-AUG-87	27	54.5	LSSL		3	Clayey silt/Limestone, grey, 2.5 Y 5/2, 85% silt, 15% clay, soft to firm, plastic,	EXP
P-13US	HARG	01-AUG-87	54.5	61	SD		3	Sand, grey, 2.5 Y 5/2, sand, mottle grey to tan, very fine to medium grained, de	EXP
P-13US	HARG	01-AUG-87	61	64	STCL		3	Clayey silt, grey, 2.5 Y 5/2, 60% silt, 40% clay, very plastic, grading to silt with	EXP
P-14U	HARG	01-AUG-87	0	0.5	ASPT		0	Asphalt.	EXP
P-14U	HARG	01-AUG-87	0.5	12	STCL	CL	1	Silty clay, dark yellowish orange, 10 YR 6/6, slightly damp, slightly firm, very co	EXP
P-14U	HARG	01-AUG-87	12	23	STCL	ML	1	Clayey silt, dark yellowish orange, 10 YR 6/6, damp, firm, moderately cohesive.	EXP
P-14U	HARG	01-AUG-87	23	33	STCL	ML	1	Clayey, sandy silt, pale orange to dark yellowish orange, 10 YR 8/2 to 10 YR 6/6	EXP
P-14U	HARG	01-AUG-87	33	41.7	SDSL	SM	1	Silty sand, sand is varicolored, saturated, loose, noncohesive, fine to coarse suba	EXP
P-14U	HARG	01-AUG-87	41.7	43	CLAY	CL	1	Clay, red brown, 10 R 4/6, wet, stiff, very cohesive.	EXP
P-14U	HARG	01-AUG-87	43	45	SDSL	SMMH	1	Silty sand/sandy silt, brown to yellowish orange, 10 YR 4/4 to 10 YR 6/6, wet, s	EXP
P-14U	HARG	01-AUG-87	45	49	CLAY	CL	1	Clay, light brown, 5 YR 5/6, wet, very stiff, moderately cohesive, sand is very fi	EXP
P-14U	HARG	01-AUG-87	49	60.5	LS		3	Fossiliferous limestone, light grey to dark grey, N8 to N3, dry, very well cemente	EXP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-14U	HARG	01-AUG-87	60.5	69.5	SSSL		3	Clay and sandy siltstone-silty sandstone, interbedded, clay is dark grey, N4, wet,	EXP
P-14U	HARG	01-AUG-87	69.5	74.5	CLSN		3	Silty claystone, dark grey, N4, wet, stiff, moderately cohesive.	EXP
P-14U	HARG	01-AUG-87	74.5	82	SSST		3	Silty sandstone, pinkish grey, 5 YR 8/1, saturated, dense, friable, very fine to fin	EXP
P-14U	HARG	01-AUG-87	82	84	CLSN		3	Sandy, silty claystone, dark grey, N4, wet, stiff, moderately cohesive.	EXP
P-14U	HARG	01-AUG-87	84	86	SHLE		3	Shale, green grey to blue grey, 5 G 6/1 to 5 B 5/1, wet, firm, fissile, moderately	EXP
P-14US	ACUX	01-JAN-99	0	0.5	FILL	CL	0	LOGGING COMPANY IS HARGIS & ASSOCIATES. LOGDATE UNKNOWN. AST	IRP
P-14US	ACUX	01-JAN-99	0.5	32.5	STCL	CL	1	YELLOW ORANGE, SLIGHTLY FIRM, VERY COHESIVE.	IRP
P-14US	ACUX	01-JAN-99	32.5	51.5	SILT	ML	1	PALE ORANGE, STIFF, SLIGHTLY COHESIVE, SANDY, CLAYEY.	IRP
P-14US	ACUX	01-JAN-99	51.5	52	SD	SP	1	VARICOLORED, MEDIUM TO VERY COARSE SAND, GRAVEL IS VARICOLORED,	IRP
P-14US	ACUX	01-JAN-99	52	53.9	SILT	ML	1	PALE ORANGE, STIFF, SLIGHTLY COHESIVE, SANDY, CLAYEY.	IRP
P-14US	ACUX	01-JAN-99	53.9	60.5	LS	NACM	3	LIGHT TO DARK GRAY, VERY WELL CEMENTED, LARGE OYSTER FOSSILS.	IRP
P-14US	ACUX	01-JAN-99	60.5	68.5	SS	NACM	4	INTERBEDDED SANDSTONE/SILTSTONE. CLAYEY, LIGHT GRAY, VERY FINE GR	IRP
P-14US	ACUX	01-JAN-99	68.5	70	CLSN	NACM	4	DARK GRAY, WET, STIFF, MODERATELY COHESIVE, SILTY.	IRP
P-15U	ACUX	24-SEP-87	0	15	CLAY	CL	1	LOGGING COMPANY WAS HARGIS AND ASSOCIATES. DARK GRAY, SOFT, PL	IRP
P-15U	ACUX	24-SEP-87	15	18	SILT	ML	1	GRAYISH ORANGE, SOFT, PLASTIC.	IRP
P-15U	ACUX	24-SEP-87	18	22	SDSL	SM	1	VARICOLORED, FINE TO COARSE, ANGULAR.	IRP
P-15U	ACUX	24-SEP-87	22	42	SDGR	GM	1	GRAYISH ORANGE, SAND IS MEDIUM TO COARSE GRAINED, SILT CONTENT I	IRP
P-15U	ACUX	24-SEP-87	42	48	CLAY	GC	1	GRAYISH ORANGE, CLAY IS SOFT AND STICKY, GRAVEL IS FINE TO MEDIUM	IRP
P-15U	ACUX	24-SEP-87	48	53	SILT	GM	1	GRAYISH ORANGE, GRAVEL IS FINE GRAINED ROUNDED LIMESTONE, SAND IS	IRP
P-15U	ACUX	24-SEP-87	53	55	SDGR	SP	1	VARICOLORED, FINE TO MEDIUM GRAINED, ANGULAR GRAVEL, SAND IS MED	IRP
P-15U	ACUX	24-SEP-87	55	61	GVL	GM	1	GRAYISH ORANGE, STICKY, GRAVEL IS COARSE GRAINED TO COBBLE SIZED.	IRP
P-15U	ACUX	24-SEP-87	61	67	LSSS	NACM	3	TAN, FOSSILIFEROUS, HARD.	IRP
P-15U	ACUX	24-SEP-87	67	69	SSST	NACM	4	LIGHT OLIVE GRAY, SOFT, WELL SORTED.	IRP
P-15U	ACUX	24-SEP-87	69	75	CLAY	NACM	4	MEDIUM GRAY, FIRM, PLASTIC.	IRP
P-15U	ACUX	24-SEP-87	75	82	SSCL	NACM	4	VERY LIGHT GRAY, SOFT, PLASTIC, SAND IS VERY FINE GRAINED.	IRP
P-15U	ACUX	24-SEP-87	82	89	SSST	NACM	4	LIGHT OLIVE GRAY, SOFT, NONPLASTIC, SAND IS VERY FINE GRAINED.	IRP
P-15U	ACUX	24-SEP-87	89	95	SLSS	NACM	4	VERY LIGHT GRAY, SOFT, MODERATELY PLASTIC, SAND IS VERY FINE GRAIN	IRP
P-15U	ACUX	24-SEP-87	95	122	SS	NACM	5	MILKY WHITE, SOFT, FINE GRAINED, WELL SORTED, LIGHTLY CEMENTED. W	IRP
P-15UN	HARG	24-SEP-87	0	15	CLAY	CL	1	DARK GRAY, SOFT, PLASTIC, STICKY, TRACE FINE SAND.	IRP
P-15UN	HARG	24-SEP-87	15	18	SILT	ML	1	SANDY, CLAYEY, GRAYISH ORANGE, SOFT, PLASTIC.	IRP
P-15UN	HARG	24-SEP-87	18	22	SDSL	SM	1	VARICOLORED, SAND IS FINE TO COARSE, ANGULAR, SILT IS ORANGE.	IRP
P-15UN	HARG	24-SEP-87	22	42	SD	SM	1	SILTY, GRAVELLY, GRAYISH ORANGE, SAND IS MEDIUM TO COARSE GRAINE	IRP
P-15UN	HARG	24-SEP-87	42	48	CLAY	CL	1	GRAVELLY, GRAYISH ORANGE, SOFT AND STICKY, GRAVEL IS MEDIUM GRAI	IRP
P-15UN	HARG	24-SEP-87	48	53	SILT	ML	1	SANDY, GRAVELLY, GRAYISH ORANGE, GRAVEL IS FINE GRAINED, ROUNDED	IRP
P-15UN	HARG	24-SEP-87	53	55	GVL	GM	1	VARICOLORED, FINE TO MEDIUM GRAINED, ANGULAR SHELL FRAGMENTS, S	IRP
P-15UN	HARG	24-SEP-87	55	61	LS	NACM	3	FOSSILIFEROUS, WHITE WITH REDDISH OXIDATION STAINING.	IRP
P-15UN	HARG	24-SEP-87	61	67	LS	NACM	3	TAN, FOSSILIFEROUS, HARD, SOME GRAY CLAY.	IRP
P-15UN	HARG	24-SEP-87	67	69	SDSL	SM	4	LIGHT OLIVE GRAY, SOFT, WELL SORTED.	IRP
P-15UN	HARG	24-SEP-87	69	75	CLAY	CL	4	MEDIUM GRAY, FIRM, PLASTIC.	IRP
P-15UN	HARG	24-SEP-87	75	82	SD	SM	4	CLAYEY, SILTY, VERY LIGHT GRAY, SOFT, PLASTIC, VERY FINE GRAINED.	IRP
P-15UN	HARG	24-SEP-87	82	89	SDSL	SM	4	LIGHT OLIVE GRAY, SOFT, NONPLASTIC, SAND IS VERY FINE GRAINED.	IRP
P-15UN	HARG	24-SEP-87	89	95	SILT	ML	4	SANDY, CLAYEY, VERY LIGHT GRAY, SOFT, MODERATELY PLASTIC, SAND IS	IRP
P-15UN	HARG	24-SEP-87	95	122	SD	SP	4	MILKY WHITE, SOFT, FINE GRAINED, WELL SORTED, LIGHTLY CEMENTED.	IRP
P-15US	ACUX	26-SEP-87	0	10	CLAY	CH	1	DARK GRAY, FIRM, STICKY, COHESIVE,	IRP
P-15US	ACUX	26-SEP-87	10	12	STCL	CL	1	DARK OLIVE GRAY, FIRM, COHESIVE, TRACE MEDIUM GRAINED SAND.	IRP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-15US	ACUX	26-SEP-87	12	20	STCL	ML	1	GRAYISH ORANGE, FIRM, COHESIVE, SOME MEDIUM TO COARSE GRAINED S	IRP
P-15US	ACUX	26-SEP-87	20	32	SDGR	GM	1	GRAYISH ORANGE, GRAVEL IS FINE TO MEDIUM GRAINED, ANGULAR CONSIS	IRP
P-15US	ACUX	26-SEP-87	32	42	SD	SP	1	DARK YELLOWISH ORANGE, SOFT, STICKY, GRAVEL IS MEDIUM TO FINE GRA	IRP
P-15US	ACUX	26-SEP-87	42	52	STCL	CL	1	YELLOWISH ORANGE, SOFT, STICKY, TRACE FINE TO MEDIUM GRAINED SAN	IRP
P-15US	ACUX	26-SEP-87	52	61	SDGR	GP	1	VARICOLORED, GRAVEL IS ROUNDED WITH ANGULAR SHELL FRAGMENTS, S	IRP
P-15US	ACUX	26-SEP-87	61	63	LS	NACM	3	MEDIUM GRAY TO WHITE, HARD.	IRP
P-15US	ACUX	26-SEP-87	63	68	SILT	SM	4	VERY LITTLE CUTTING AT SURFACE, BASED ON DRILLING RATE AND LOG FR	IRP
P-15US	ACUX	26-SEP-87	68	69	STCL	CL	4	LIGHT OLIVE GRAY, SOFT, PLASTIC, MODERATELY COHESIVE	IRP
P-16US	ACUX	11-OCT-87	0	4	CLAY	CL	1	YELLOWISH BROWN, COHESIVE, PLASTIC, SANDY.	IRP
P-16US	ACUX	11-OCT-87	4	19.5	CLAY	ML	1	GRAYISH ORANGE, COHESIVE, MODERATELY PLASTIC, SOFT.	IRP
P-16US	ACUX	11-OCT-87	19.5	28	CLAY	CL	1	GRAYISH ORANGE, COHESIVE, MODERATELY PLASTIC, SOFT, GRAVELLY.	IRP
P-16US	ACUX	11-OCT-87	28	56	CLAY	CL	1	LIGHT BROWN, COHESIVE, PLASTIC, SOFT, TRACE GRAVEL.	IRP
P-16US	ACUX	11-OCT-87	56	59.75	GVL	GW	1	VARICOLORED, MEDIUM TO COARSE GRAINED SAND, FINE TO COARSE GRAI	IRP
P-16US	ACUX	11-OCT-87	59.75	62	LS	NACM	3	FOSSILIFEROUS LIMESTONE OF WALNUT FM. GRAY, HARD, WELL CEMENTED	IRP
P-16US	ACUX	11-OCT-87	62	64.75	SSCL	NACM	4	UPPER PALUXY FM. GRAY, FINE GRAINED, POORLY CEMENTED, INTERBEDS	IRP
P-16US	HARG	11-OCT-87	64.75	70.5	CLAY	CL	4	GRAY, MODERATELY PLASTIC, SOME SAND.	IRP
P-17US	ACUX	27-OCT-87	0	2	CLAY	CH	1	LOGGING COMPANY IS HARGIS & ASSOCIATES. BLACK, VERY PLASTIC, VER	IRP
P-17US	ACUX	27-OCT-87	2	7	SILT	ML	1	BROWN, SLIGHTLY COHESIVE, NOPNPLASTIC, SANDY. SAND IS VARICOLORE	IRP
P-17US	ACUX	27-OCT-87	7	44.5	STCL	CL	1	GRAY ORANGE, MODERATELY PLASTIC, MODERATELY COHESIVE.	IRP
P-17US	ACUX	27-OCT-87	44.5	46.75	SDGR	SW	1	VARICOLORED, MEDIUM TO VERY COARSE GRAINED, ROUNDED TO WELL RO	IRP
P-17US	ACUX	27-OCT-87	46.75	52.5	SDGR	GP	1	VARICOLORED, MEDIUM TO VERY COARSE SAND, FINE TO VERY COARSE GR	IRP
P-17US	ACUX	27-OCT-87	52.5	54	LS	NACM	3	GRAY, BRITTLE, ANGULAR SHELL FRAGMENTS.	IRP
P-17US	ACUX	27-OCT-87	54	58.25	LS	NACM	3	GRAY, BRITTLE, ANGULAR FRAGMENTS, SOME ORGANIC STREAKS.	IRP
P-17US	ACUX	27-OCT-87	58.25	60.5	SS	NACM	4	GRAY, VERY FINE GRAINED, WELL ROUNDED.	IRP
P-17US	ACUX	27-OCT-87	60.5	71	SS	NACM	4	CLAYEY SAND. NO OTHER DESCRIPTION ON LOG.	IRP
P-18US	ACUX	07-MAR-88	0	3	SILT	MH	1	MODERATE BROWN, NONCOHESIVE.	IRP
P-18US	ACUX	07-MAR-88	3	4	STCL	CL	1	MODERATE BROWN, MODERATELY COHESIVE, NONPLASTIC, STICKY.	IRP
P-18US	ACUX	07-MAR-88	4	20	SD	SM	1	LIGHT BROWN, SAND IS FINE GRAINED, SILT IS NONCOHESIVE.	IRP
P-18US	ACUX	07-MAR-88	20	36	STCL	CL	1	LIGHT BROWN, SLIGHTLY COHESIVE, STICKY, NONPLASTIC.	IRP
P-18US	ACUX	07-MAR-88	36	43	SD	SM	1	LIGHT BROWN, SAND IS FINE GRAINED, CLAY IS SLIGHTLY COHESIVE, STICK	IRP
P-18US	ACUX	07-MAR-88	43	45.5	SDGR	SW	1	VARICOLORED, GRAVEL IS FINE TO MEDIUM, ANGLUAR TO SUBROUNDED, S	IRP
P-18US	ACUX	07-MAR-88	45.5	60.5	LS	NACM	3	VARICOLORED GRAY, DENSE, VERY WELL CEMENTED, OYSTER FOSSILS.	IRP
P-18US	ACUX	07-MAR-88	60.5	67	SS	NACM	4	GRAY, VERY FINE GRAINED, VERY WELL CEMENTED, WELL ROUNDED. SOME	IRP
P-18US	ACUX	07-MAR-88	67	68	CLSN	NACM	4	GRAY, MODERATELY CEMENTED.	IRP
P-18US	ACUX	07-MAR-88	68	73.5	SS	NACM	4	GRAY, FINE GRAINED, LOOSE.	IRP
P-18US	ACUX	07-MAR-88	73.5	75	STCL	CL	4	GRAY, COHESIVE, NONPLASTIC.	IRP
P-19US	ACUX	05-MAR-88	0	19	SILT	SM	1	LOGGING COMPANY IS HARGIS & ASSOCIATES. MODERATE REDDISH BROW	IRP
P-19US	ACUX	05-MAR-88	19	31	SD	SM	1	GRAYISH ORANGE, NODULES OF QUARTZ, CHERT, AND LIMESTONE.	IRP
P-19US	ACUX	05-MAR-88	31	46	STCL	ML	1	GRAYISH ORANGE, NONCOHESIVE, STICKY, TRACE SAND.	IRP
P-19US	ACUX	05-MAR-88	46	51.5	SD	SW	1	VARICOLORED, SAND IS MEDIUM TO COARSE GRAINED, ANGULAR TO SUBR	IRP
P-19US	ACUX	05-MAR-88	51.5	56	LS	NACM	3	GRAY, DENSE, DRY, OYSTER FOSSILS.	IRP
P-19US	ACUX	05-MAR-88	56	58	SS	NACM	4	MEDIUM GRAY, SAND IS FINE GRAINED, CLAY IS NONCOHESIVE.	IRP
P-19US	ACUX	05-MAR-88	58	69.5	SS	NACM	4	MEDIUM GRAY, VERY FINE TO FINE GRAINED.	IRP
P-19US	ACUX	05-MAR-88	69.5	70.5	CLAY	SC	4	MEDIUM GRAY, CLAY IS STICKY, SLIGHTLY COHESIVE, SAND IS FINE GRAINE	IRP
P-2	SWL	06-JUN-83	0	6	STCL	CL	1	FILL. Silty clay, dark brown, very moist, slightly firm, slightly cohesive, trace gra	EXP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-2	SWL	06-JUN-83	6	10	STCL	CL	1	Silty gravelly clay, light brown, moist, slightly firm, slightly cohesive, weathered l	EXP
P-2	SWL	06-JUN-83	10	21	STCL	CL	1	Silty sandy clay, light brown, moist, slightly soft to slightly firm, slightly to mod	EXP
P-2	SWL	06-JUN-83	21	22	SDCL	CL	1	Clayey gravelly sand, light brown, moist, slightly loose, limestone gravel up to 1 i	EXP
P-2	SWL	06-JUN-83	22	27.5	SDGR	GP	1	Sand and gravel, light brown to grey, moist, loose, coarse grained sand and grav	EXP
P-2	SWL	06-JUN-83	27.5	32	SDGR	GC	1	Clayey sand and gravel, light brown to grey, moist, loose, coarse grained sand a	EXP
P-2	SWL	06-JUN-83	32	40	CLAY		2	Shaley clay, greenish-buff w/ brown/orange in zones, slightly moist to moist, firm	EXP
P-2	SWL	06-JUN-83	40	41	LSSH		2	Shale/limestone, interbedded, light to dark grey, slightly moist, shale is firm, brittl	EXP
P-2	SWL	06-JUN-83	41	73	LS		3	Shell Agg., medium to dark grey, slightly dense to dense, very fossiliferous (oyst	EXP
P-2	SWL	06-JUN-83	73	74	LSSH		3	Shale/clay/limestone, interbedded, medium to dark grey, shale and clay is slightly	EXP
P-2	SWL	06-JUN-83	74	79	SHLE		3	Shale/clay, interbedded, light to dark grey, firm to stiff, fossiliferous, some very	EXP
P-2	SWL	06-JUN-83	79	80	LSSS		4	Sandstone/sandy limestone, interbedded, light buff to dark grey, slightly dense to	EXP
P-2	SWL	06-JUN-83	80	87	CLAY		4	Clay, medium grey, slightly soft, cohesive, some pyrite nodules.	EXP
P-2	SWL	06-JUN-83	87	131	SD		4	Sand, buff to lt grey, loose, very fine to fine grained quartz, well sorted, rounded	EXP
P-2	SWL	06-JUN-83	131	133	CLAY		4	Clay, blue-green, slightly soft, cohesive, stratified.	EXP
P-2	SWL	06-JUN-83	133	174	SDCL		4	Sand/clay, interbedded, sand is buff to lt grey, slightly loose, fine to med. graine	EXP
P-2	SWL	06-JUN-83	174	175	CLAY		4	Clay, blue-green slightly soft, slightly cohesive, silt and sand in zones, no odor.	EXP
P-2	SWL	06-JUN-83	175	180	LSSD		4	Sandy limestone, light buff, dense, massive, no visible fossils, chert.	EXP
P-2	SWL	06-JUN-83	180	183	LSSH		4	Sandy clay/shale/limestone, interbedded, clay and shale are blue-green, slightly s	EXP
P-20M	RAD	05-MAR-86	0	1	SDSL	SM	1	SILT AND FINE SAND, DARK BROWN, DRY.	IRP
P-20M	RAD	05-MAR-86	1	40	SHLE	NACM	2	CALCAREOUS, GRAY TO DARK GRAY, HARD, FISSILE, DRY.	IRP
P-20M	RAD	05-MAR-86	40	69	LS	NACM	3	NO DESCRIPTION ON LOG.	IRP
P-20M	RAD	05-MAR-86	69	73.5	SHLE	NACM	4	CLAYEY, SILTY, CALCAREOUS, DARK GRAY, MINOR LIMESTONE.	IRP
P-20M	RAD	05-MAR-86	73.5	111.5	SSSH	NACM	4	SAND IS QUARTZ, GRAY TO WHITE, CONSOLIDATED TO WEAKLY CEMENTED	IRP
P-20M	RAD	05-MAR-86	111.5	122.5	CLSN	NACM	4	SANDY, MOTTLED RED AND GRAY, FIRM, DRY.	IRP
P-20M	RAD	05-MAR-86	122.5	140	NDUN	NACM	4	PAGE MISSING FROM WELL LOG.	IRP
P-20M	RAD	05-MAR-86	140	155	SS	NACM	4	NO DESCRIPTION ON LOG.	IRP
P-21U	RAD	10-MAR-86	0	12.5	SDSL	SM	1	SILTY AND CLAYEY SAND, BROWN TO ORANGE, VERY FINE TO COARSE, POO	IRP
P-21U	RAD	10-MAR-86	12.5	17.5	SDGR	GM	1	SAND IS ORANGE, FINE TO COARSE, SUBROUNDED, GRAVEL IS WHITE TO TA	IRP
P-21U	RAD	10-MAR-86	17.5	37	SD	SM	1	ORANGE, MEDIUM GRAINED, WELL SORTED, SLIGHTLY DAMP, ROUNDED TO	IRP
P-21U	RAD	10-MAR-86	37	42.5	LS	NACM	3	NO DESCRIPTION ON LOG.	IRP
P-21U	RAD	10-MAR-86	42.5	60	NDUN	NACM	3	PAGE MISSING FROM WELL LOG.	IRP
P-21U	RAD	10-MAR-86	60	70	LS	NACM	4	SOME SHALE AND MINOR BROWN SANDY SILTSTONE AND PYRITE.	IRP
P-21U	RAD	10-MAR-86	70	76	SS	NACM	4	SILTY, TAN,WHITE, CALCAREOUS, VERY FINE TO FINE, WELL SORTED, ROUN	IRP
P-21U	RAD	10-MAR-86	76	82.5	SS	NACM	4	GRAYISH WHITE, FINE GRAINED, WELL SORTED, ROUNDED, WELL CEMENTED	IRP
P-21U	RAD	10-MAR-86	82.5	100	NDUN	NACM	4	PAGE MISSING FROM WELL LOG.	IRP
P-21U	RAD	10-MAR-86	100	102.5	SS	NACM	4	NO DESCRIPTION ON LOG.	IRP
P-21U	RAD	10-MAR-86	102.5	110	CLSN	NACM	4	INTERBEDDED WITH CLAYEY SAND, GREENISH, FIRM, DRY TO SLIGHTLY DAM	IRP
P-22M	ACUX	30-OCT-87	0	4	FILL	CH	0	ASTM CODE INAPPROPRIATE. VARICOLORED, SAND, GRAVEL, CLAY, DRY.	IRP
P-22M	ACUX	30-OCT-87	4	6	SDCL	CL	1	GRAY, MODERATELY COHESIVE, SLIGHTLY PLASTIC, WET.	IRP
P-22M	ACUX	30-OCT-87	6	31	LS	NACM	3	GRAY, BRITTLE, SHELL FRAGMENTS.	IRP
P-22M	ACUX	30-OCT-87	31	55	SSCL	NACM	4	SAND IS WHITISH GRAY, VERY FINE GRAINED, VERY WELL CEMENTED. CLAY	IRP
P-22M	ACUX	30-OCT-87	55	61	SS	NACM	4	WHITISH, VERY FINE GRAINED, WELL ROUNDED.	IRP
P-22M	ACUX	30-OCT-87	61	80	CLSN	NACM	4	BLUISH WHITE, SLIGHTLY COHESIVE, MODERATELY PLASTIC, MINOR FINE SA	IRP
P-22M	ACUX	30-OCT-87	80	133	SS	NACM	5	GRAYISH WHITE, VERY FINE GRAINED, WELL ROUNDED.	IRP
P-22M	ACUX	30-OCT-87	133	136	CLAY	NACM	5	GRAY, COHESIVE, PLASTIC.	IRP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-22U	RAD	18-MAR-86	0	2	FILL		1	TOPSOIL w/ asphalt, moist, yellow-brown with grey silty shale.	EXP
P-22U	RAD	18-MAR-86	2	15	SHLE		2	Shale, silty, grey, w/ hard limestone fragments. Wet at 9-10' making water; 11 f	EXP
P-22U	RAD	18-MAR-86	15	18	LS		3	Fossiliferous limestone, and shale, indurated, shale is calcareous; 18 ft: no sampl	EXP
P-22U	RAD	18-MAR-86	18	20	LS		3	Limestone, light grey, fossiliferous, well indurated.	EXP
P-22U	RAD	18-MAR-86	20	25	SHLE		3	Shale, grey, silty, turning to fossiliferous limestone at 24 fteet, shell fragments,	EXP
P-22U	RAD	18-MAR-86	25	30	LS		3	Limestone, shaley, light grey, cemented, shell fragments and pyrite.	EXP
P-22U	RAD	18-MAR-86	30	35	CLAY		3	Clay, grey, silty, fairly plastic, turning to sandy clay, carbonaceous, pyrite.	EXP
P-22U	RAD	18-MAR-86	35	45	SS		3	Sandstone, light grey, unconsolidated, carbonaceous, dry, fine grained, well sort	EXP
P-22U	RAD	18-MAR-86	45	60	SS		3	Sandstone, silty, lt. grey w/ clay matrix, unconsolidated, at 50 ft: cemented, ver	EXP
P-22U	RAD	18-MAR-86	60	62.5	CLAY		3	Clay, grey-green, fairly plastic, turning to green confining clay, dry.	EXP
P-23U	RAD	18-MAR-86	0	25	LS	NACM	3	YELLOW GRAY, FOSSILIFEROUS, SANDY, SHALEY.	IRP
P-23U	RAD	18-MAR-86	25	34	SHLE	NACM	4	SOFT, DARK GRAY, SILTY, CALCAREOUS.	IRP
P-23U	RAD	18-MAR-86	34	55.3	SS	NACM	4	LIGHT GRAY, CLAY STRINGERS, VERY FINE GRAINED.	IRP
P-24M	ACUX	02-DEC-88	0	26.5	LSCL	NACM	3	LOGGING COMPANY WAS HARGIS AND ASSOCIATES. LIGHT YELLOWISH GR	IRP
P-24M	ACUX	02-DEC-88	26.5	56	SSST	NACM	4	DARK GRAY, VERY FINE GRAINED, WELL SORTED, TRACE DARK GRAY CLAY.	IRP
P-24M	ACUX	02-DEC-88	56	72	SLCL	NACM	4	MEDIUM GRAY, SLIGHTLY COHESIVE, TRACE SAND, TRACE LIGNITE, OCCASI	IRP
P-24M	ACUX	02-DEC-88	72	131.5	SS	NACM	5	PINKISH GRAY, VERY FINE TO FINE GRAINED, WELL SORTED, WELL ROUNDED	IRP
P-24M	HARG	02-DEC-88	131.5	134	CLAY	CL	5	LIGHT BLUISH GRAY, MODERATELY CEMENTED, INTERBEDDED HARDER LAYE	IRP
P-24U	HARG	01-DEC-88	0	25	LS	NACM	3	FOSSILIFEROUS, LIGHT YELLOWISH GRAY TO LIGHT GRAY, CLAY INTERBEDS,	IRP
P-24U	HARG	01-DEC-88	25	56	SDSL	ML	4	MEDIUM LIGHT GRAY, VERY FINE GRAINED, SOFT, WELL SORTED.	IRP
P-24U	HARG	01-DEC-88	56	61	STCL	CL	4	PALE GREEN TO YELLOWISH GRAY, SOFT, NONCOHESIVE.	IRP
P-25M	HARG	14-DEC-88	0	32	SDSL	ML	1	GRAYISH ORANGE, SOFT, NONCOHESIVE, SAND IS VERY FINE TO FINE GRAIN	IRP
P-25M	HARG	14-DEC-88	32	57.5	LS	NACM	3	MEDIUM GRAY, FOSSILS ARE OYSTER SHELL FRAGMENTS.	IRP
P-25M	HARG	14-DEC-88	57.5	58.5	STCL	CL	3	MEDIUM GRAY, SOFT, MODERATELY COHESIVE.	IRP
P-25M	HARG	14-DEC-88	58.5	64	SDGR	GM	3	MEDIUM TO LIGHT GRAY, SAND IS FINE TO MEDIUM GRAINED, GRAVEL IS FI	IRP
P-25M	HARG	14-DEC-88	64	66	SDGR	GM	3	VARICOLORED, FINE GRAINED, POORLY SORTED, ANGULAR, SAND IS VERY FI	IRP
P-25M	HARG	14-DEC-88	66	69	SDCL	SM	3	OLIVE GRAY, SOFT, MODERATELY COHESIVE, SAND IS FINE GRAINED.	IRP
P-25M	HARG	14-DEC-88	69	74	STCL	CL	3	MEDIUM LIGHT GRAY, INTERBEDDED CLAYEY SILT AND SANDY SILT.	IRP
P-25M	HARG	14-DEC-88	74	76	CLSN	NACM	3	LIGHT OLIVE GRAY, MODERATELY CEMENTED, SOFT, MODERATELY COHESIV	IRP
P-25M	HARG	14-DEC-88	76	80	STCL	CL	3	LIGHT OLIVE GRAY, SOFT, MODERATELY COHESIVE, SOME FINE TO VERY FIN	IRP
P-25M	HARG	14-DEC-88	80	82	CLAY	CL	3	LIGHT OLIVE GRAY, SOFT, COHESIVE, MORE DENSE WITH DEPTH, TRACE FIN	IRP
P-25M	HARG	14-DEC-88	82	91.5	STCL	CL	3	LIGHT OLIVE GRAY, SOFT, MODERATELY COHESIVE, SAND IS FINE TO MEDIU	IRP
P-25M	HARG	14-DEC-88	91.5	100	SDSL	SM	3	PINKISH GRAY, VERY FINE TO FINE GRAINED, LIGHTLY CEMENTED, FRIABLE.	IRP
P-25M	HARG	14-DEC-88	100	111	SD	SP	4	LIGHT GRAY TO PINKISH GRAY, VERY FINE TO FINE GRAINED, WELL SORTED,	IRP
P-25M	HARG	14-DEC-88	111	125	STCL	ML	4	LIGHT GREENISH GRAY TO LIGHT OLIVE GRAY, SLIGHTLY FIRM TO SOFT, MO	IRP
P-25M	HARG	14-DEC-88	125	158	SDSL	SM	4	PINKISH GRAY, VERY FINE GRAINED, SOFT, LOOSE, CLEAN.	IRP
P-25M	HARG	14-DEC-88	158	160	STCL	CL	4	LIGHT BLUISH GRAY, SLIGHTLY COHESIVE, TRACE SAND.	IRP
P-25U	HARG	05-DEC-88	0	12	SDSL	SM	1	LIGHT BROWN, FINE TO MEDIUM GRAINED, TRACE CLAY.	IRP
P-25U	HARG	05-DEC-88	12	24	STCL	CL	2	GRAYISH ORANGE, SLIGHTLY STICKY, TRACE SAND.	IRP
P-25U	HARG	05-DEC-88	24	32	SDSL	SM	1	GRAYISH ORANGE, SAND IS FINE TO MEDIUM GRAINED.	IRP
P-25U	HARG	05-DEC-88	32	33	CLAY	GC	1	GRAYISH ORANGE, NONCOHESIVE, GRAVEL IS VARICOLORED, FINE GRAINED,	IRP
P-25U	HARG	05-DEC-88	33	35	SDGR	GP	1	VARICOLORED, FINE TO COARSE GRAINED, ANGULAR TO SUBROUNDED.	IRP
P-25U	HARG	05-DEC-88	35	37	SHLE	NACM	2	LIMEY, DARK GRAY, WEATHERED, CLAY INTERBEDS, SOFT, EASILY FRIABLE.	IRP
P-25U	HARG	05-DEC-88	37	44	LS	NACM	3	LIGHT GRAY, FOSSILS ARE OYSTER SHELL FRAGMENTS, LIGHT GREENISH GR	IRP
P-25U	HARG	05-DEC-88	44	55	SHLE	NACM	4	LIMEY, MEDIUM GRAY, CLAY INTERBEDS.	IRP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-25U	HARG	05-DEC-88	55	57.5	LS	NACM	4	MEDIUM GRAY, DENSE, NO VISIBLE FOSSILS, SOME CLAY INTERBEDS.	IRP
P-25U	HARG	05-DEC-88	57.5	61	STCL	CL	4	MEDIUM GRAY TO GREENISH GRAY, SLIGHTLY COHESIVE, SLIGHTLY STICKY,	IRP
P-25U	HARG	05-DEC-88	61	68	SDSL	ML	4	MEDIUM GRAY, SAND IS VERY FINE GRAINED.	IRP
P-25U	HARG	05-DEC-88	68	80	SDSL	SM	4	LIGHT GRAY, VERY FINE GRAINED.	IRP
P-25U	HARG	05-DEC-88	80	91	STCL	CL	4	MEDIUM GRAY TO GREENISH GRAY, SLIGHTLY COHESIVE, SLIGHTLY STICKY,	IRP
P-25U	HARG	05-DEC-88	91	102	SDSL	ML	4	LIGHT GRAY, VERY FINE GRAINED, SILTY CONTENT VARIES WITH DEPTH, WE	IRP
P-25U	HARG	05-DEC-88	102	114	SD	SP	4	LIGHT GRAY, VERY FINE TO FINE GRAINED, WELL SORTED, SUBROUNDED TO	IRP
P-25U	HARG	05-DEC-88	114	115	STCL	CL	4	GREENISH GRAY. SLIGHTLY COHESIVE, TRACE SAND.	IRP
P-26M	HARG	06-JAN-89	0	2	FILL	CL	0	ASTM CODE INAPPROPRIATE, ASPHALT AND FILL.	IRP
P-26M	HARG	06-JAN-89	2	5	STCL	CL	1	BROWNISH GRAY, SOFT, MODERATELY COHESIVE.	IRP
P-26M	HARG	06-JAN-89	5	12	LS	NACM	2	PINKISH GRAY TO YELLOWISH GRAY, WEATHERED, SOME CLAY IS GRAYISH	IRP
P-26M	HARG	06-JAN-89	12	21	LS	NACM	2	YELLOWISH GRAY WEATHERED TO GRAYISH ORANGE, SOME SUBROUNDED	IRP
P-26M	HARG	06-JAN-89	21	24	LS	NACM	2	SAME AS 5.0 TO 12.0 FEET.	IRP
P-26M	HARG	06-JAN-89	24	36	SHLE	NACM	2	MEDIUM BLUISH GRAY, SLIGHTLY COHESIVE, BRITTLE, FRIABLE, LIMEY.	IRP
P-26M	HARG	06-JAN-89	36	41	LS	NACM	3	MEDIUM GRAY, HARD, TRACE PYRITE, FOSSILIFEROUS SHELL FRAGMENTS.	IRP
P-26M	HARG	06-JAN-89	41	52	SHLE	NACM	3	GRAYISH BLACK TO MEDIUM GRAY, BRITTLE, CLAY INTERBEDS, LIMEY.	IRP
P-26M	HARG	06-JAN-89	52	80	LS	NACM	3	MEDIUM GRAY, HARD, SOME SHELL FRAGMENTS, SHALEY, TRACE CHERT.	IRP
P-26M	HARG	06-JAN-89	80	94	CLSN	NACM	3	LIGHT OLIVE GRAY, SOFT, MODERATELY COHESIVE, SAND IS FINE GRAINED.	IRP
P-26M	HARG	06-JAN-89	94	106	CLAY	CH	3	BROWNISH GRAY, DENSE, FIRM, COHESIVE, TRACE VERY FINE GRAINED SAN	IRP
P-26M	HARG	06-JAN-89	106	112	STCL	CL	3	BROWNISH GRAY, SLIGHTLY COHESIVE, TRACE VERY FINE GRAINED SAND.	IRP
P-26M	HARG	06-JAN-89	112	120	SD	SP	3	LIGHT GRY, VERY FINE GRAINED, WELL SORTED, SOFT, LIGHTLY CEMENTED.	IRP
P-26M	HARG	06-JAN-89	120	134	SDSL	SM	3	LIGHT GRAY, VERY FINE GRAINED, NONCOHESIVE.	IRP
P-26M	HARG	06-JAN-89	134	167	SD	SP	4	YELLOWISH GRAY, VERY FINE TO FINE GRAINED, WELL SORTED, ROUNDED, L	IRP
P-26M	HARG	06-JAN-89	167	171.5	SILT	ML	4	LIGHT GREENISH GRAY, SOFT, SLIGHTLY COHESIVE, INTERBEDDED WITH HA	IRP
P-26U	HARG	01-JAN-89	0	1	ASPT		0	Asphalt and gravel fill.	EXP
P-26U	HARG	01-JAN-89	1	5	STCL		2	Silty clay/clayey silt w/ weathered limestone, dark yellowish brown, soft, modera	EXP
P-26U	HARG	01-JAN-89	5	12	LS		2	Clayey limestone, very pale orange, 10 YR 7/4, limestone is weathered, clay is s	EXP
P-26U	HARG	01-JAN-89	12	23.5	LS		2	Weathered limestone/clayey gravel, greyish orange, 10 YR 7/4, gravel is fine to	EXP
P-26U	HARG	01-JAN-89	23.5	26	LS		2	Limestone, medium bluish grey, 5 B 5/1, hard; 24.5 ft: shale/clay interbeds, colo	EXP
P-26U	HARG	01-JAN-89	26	36	SHLE		2	Limey shale and clay, medium grey to medium light grey, N5 to N6, no visible fo	EXP
P-26U	HARG	01-JAN-89	36	46	LS		3	Fossiliferous limestone, medium light grey, N6 to N7, hard, brittle, shell fragment	EXP
P-26U		01-JAN-89	46	53	SHLE		3	Shale, medium grey, N5, brittle, hard, some shell fragments, some clay interbeds	EXP
P-26U		01-JAN-89	53	65	LS		3	Limestone, medium light grey, N6, hard some shell fragments; 55-57 ft: limeston	EXP
P-26U		01-JAN-89	65	75	STCL		3	Silty clay, light olive grey, 5 Y 6/1, moderately cohesive; 72-75 ft: color change	EXP
P-26U		01-JAN-89	75	90	SDSL		3	Sandy silt, light olive grey to yellowish grey, soft, noncohesive, sand less than 1	EXP
P-26U		01-JAN-89	90	93	STCL		3	Silty clay, brownish grey, 5 YR 4/1, soft, slightly cohesive; 91 ft: thin pyrite laye	EXP
P-27U	CNGT	18-JUN-91	0	0.5	FILL	CH	0	ASTM CODE INAPPROPRIATE, CONCRETE.	IRP
P-27U	CNGT	18-JUN-91	0.5	6	STCL	CL	1	Dark brown to black, red brown silt, slightly clayey, low plasticity.	BCH
P-27U	CNGT	18-JUN-91	6	8	STCL	CL	1	Color changing to tan-brown silt, slightly clayey, <1% white limestone pebbles.	BCH
P-27U	CNGT	18-JUN-91	8	12	SDSL	ML	1	Tan to brown, very fine grained sand and silt, soft drilling and slightly plastic.	BCH
P-27U	CNGT	18-JUN-91	12	16	GVL	GW	1	Change to gray-white limestone pebble gravel <3/4" diameter, t. fossil (clam) fr	BCH
P-27U	CNGT	18-JUN-91	16	28	SDSL	ML	1	Tan, very fine grained sand and silt, moist at 24'.	BCH
P-27U	CNGT	18-JUN-91	28	34	SD	SM	1	TAN, VERY FINE GRAINED.	IRP
P-27U	CNGT	18-JUN-91	34	65	LS	NACM	3	GRAY, FOSSILIFEROUS, SHALEY, DENSE.	IRP
P-27U	CNGT	18-JUN-91	65	66	SLST	NACM	4	GRAY, CALCAREOUS.	IRP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-27U	CNGT	18-JUN-91	66	75	NDPS	NACM	4	CORE LOST (NO RECOVERY).	IRP
P-27U	CNGT	18-JUN-91	75	77	SLST	NACM	4	GRAY TO DARK GRAY, SOME FINE GRAINED SANDSTONE, CARBONACEOUS	IRP
P-27U	CNGT	18-JUN-91	77	79	NDPS	NACM	4	CORE LOST (NO RECOVERY).	IRP
P-27U	CNGT	18-JUN-91	79	80	SLST	NACM	4	LIGHT GRAY TO BLACK, VERY CARBONACEOUS.	IRP
P-27U	CNGT	18-JUN-91	80	96	NDPS	NACM	4	CORE LOST (NO RECOVERY).	IRP
P-27U	CNGT	18-JUN-91	96	97	SS	NACM	4	GRAY TO BROWN, FINE GRAINED, TRACE CARBONACEOUS MATERIAL.	IRP
P-27U	CNGT	18-JUN-91	97	100	SLST	NACM	4	GREEN-GRAY, SOME CLAY.	IRP
P-28U	CNGT	17-MAY-91	0	1	CN	NACM	0	Concrete pavement.	BCH
P-28U	CNGT	17-MAY-91	1	28	STCL	CL	1	Brown silty clay with trace of white limestone fragments and black organic mate	BCH
P-28U	CNGT	17-MAY-91	28	39	LS	NACM	3	Tan brown silt with limestone pebbles; tan-pink regolith on top of bedrock, hard	BCH
P-28U	CNGT	17-MAY-91	39	40	SHLE	NACM	3	Gray to dark gray calcareous silty or shaley limestone.	BCH
P-28U	CNGT	17-MAY-91	40	44	LS	NACM	3	Alternating dark gray calcareous shale and light gray fossiliferous limestone; mot	BCH
P-28U	CNGT	17-MAY-91	44	46.5	SDCL	NACM	3	Alternating beds of dark gray calcareous silstone and light gray, dense fossilifero	BCH
P-28U	CNGT	17-MAY-91	46.5	47	LS	NACM	3	Black shale break, gray fossiliferous limestone and dark gray shale.	BCH
P-28U	CNGT	17-MAY-91	47	50	SHLE	NACM	3	Gray shell agglomerate with minor dark gray think shale layers. Trace pyrite., sil	BCH
P-28U	CNGT	17-MAY-91	50	53.3	LS	NACM	3	White wavy-bedded fossiliferous limestone, dark brown-black shaley silstone, alt	BCH
P-28U	CNGT	17-MAY-91	53.3	57.8	SDCL	NACM	4	Gray green siltstone and light gray calcareous silstone, soft, top of Paluxy Fm.	BCH
P-28U	CNGT	17-MAY-91	57.8	65	SD	SP	4	Light gray green calcareous, very fine grained sandstone.	BCH
P-28U	CNGT	17-MAY-91	65	70	SDCL	NACM	4	Gray-green, very fine grained sandstone and siltstone with occasional thin beds	BCH
P-28U	CNGT	17-MAY-91	70	92	SD	SP	4	Very rapid drilling, possible poorly consolidated sandstone.	BCH
P-28U	CNGT	17-MAY-91	92	94	SDCL	NACM	4	Gray-green silstone and minor shale.	BCH
P-29M	CNGT	28-JUN-91	0	2	CLAY	CL	1	DARK BROWN TO BLACK, MOIST, SOME GRAY-WHITE LIMESTONE PEBBLES.	IRP
P-29M	CNGT	28-JUN-91	2	4	SILT	ML	1	GRAY TO TAN, CALCAREOUS.	IRP
P-29M	CNGT	28-JUN-91	4	24	LS	NACM	3	Competent Walnut Fm., light gray fossiliferous limestone, limestone is laminated	BCH
P-29M	CNGT	28-JUN-91	24	26	SHLE	NACM	3	Highly laminated, gray shale and shaley limestone, with vertical and bedding p	BCH
P-29M	CNGT	28-JUN-91	26	27	SLST	NACM	4	DARKGRAY, LAMINATED, INTERBEDDED WITH LIMESTONE.	IRP
P-29M	CNGT	28-JUN-91	27	28.2	LS	NACM	4	WHITE, DENSE, HARD, SMALL FOSSILS, SMALL AMOUNT OF SILTSTONE/SHA	IRP
P-29M	CNGT	28-JUN-91	28.2	30	SLST	NACM	4	GRAY TO DARK GRAY, SOFT, CRUMBLY, WITH FINE SAND.	IRP
P-29M	CNGT	28-JUN-91	30	30.2	SS	NACM	4	DARK GRAY, VERY FINE GRAINED.	IRP
P-29M	CNGT	28-JUN-91	30.2	34	NDPS	CH	4	ASTM CODE INAPPROPRIATE, NO RECOVERY OF SAMPLES.	IRP
P-29M	CNGT	28-JUN-91	34	36	SS	NACM	4	DARK GRAY, FINE GRAINED, NUMEROUS CARBONACEOUS LAYERS.	IRP
P-29M	CNGT	28-JUN-91	36	37.5	NDPS	NACM	4	NO RECOVERY.	IRP
P-29M	CNGT	28-JUN-91	37.5	38	SS	NACM	4	DARK GRAY, CRUMBLY, HIGHLY LAMINATED.	IRP
P-29M	CNGT	28-JUN-91	38	39.2	SS	NACM	4	LIGHT GRAY, FINE GRAINED, LARGE AMOUNT OF CARBONACEOUS MATERIAL	IRP
P-29M	CNGT	28-JUN-91	39.2	48.6	NDPS	CH	4	ASTM CODE INAPPROPRIATE, NO RECOVERY OF SAMPLES.	IRP
P-29M	CNGT	28-JUN-91	48.6	50	SS	NACM	4	GRAY, FINE GRAINED, A FEW SMALL CARBONACEOUS INCLUSIONS, FRIABLE.	IRP
P-29M	CNGT	28-JUN-91	50	56	NDPS	NACM	4	NO RECOVERY.	IRP
P-29M	CNGT	28-JUN-91	56	70	SLST	NACM	4	DARK GRAY TO GREENISH GRAY, HARD, BRITTLE.	IRP
P-29M	CNGT	28-JUN-91	70	75	NDPS	NACM	4	NO RECOVERY.	IRP
P-29M	CNGT	28-JUN-91	75	80.3	SLST	NACM	4	GREENISH GRAY, DRY, BRITTLE, TRACE FINE GRAINED SAND.	IRP
P-29M	CNGT	28-JUN-91	80.3	82.2	SS	NACM	4	PINKISH, FEW SMALL INCLUSIONS OF BLACK SHALE AND PYRITE.	IRP
P-29M	CNGT	28-JUN-91	82.2	84.4	SLST	NACM	4	GREEN/GRAY, FIRM AND SLIGHTLY HARD.	IRP
P-29M	CNGT	28-JUN-91	84.4	88.5	SS	NACM	4	GREENSIH GRAY, FINE GRAINED, PYRITE AND CARBONACEOUS MATERIAL, S	IRP
P-29M	CNGT	28-JUN-91	88.5	90	SS	NACM	4	WHITE AND LIGHT PINK, WET, FINE GRAINED, SUBANGULAR TO SUBROUNDE	IRP
P-29M	CNGT	28-JUN-91	90	93.2	NDPS	NACM	4	NO RECOVERY.	IRP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-29M	CNGT	28-JUN-91	93.2	100	SS	NACM	4	GRAY, FINE GRAINED, SLIGHTLY FIRM TO SOFT AND CRUMBLY, SLIGHTLY W	IRP
P-29M	CNGT	28-JUN-91	100	110	NDPS	CH	4	ASTM CODE INAPPROPRIATE, NO RECOVERY OF SAMPLES.	IRP
P-29M	CNGT	28-JUN-91	110	120	SS	NACM	4	GRAY, FINE GRAINED, LOOSE TO MODERATELY CEMENTED, ONLY 2 INCHES	IRP
P-29M	CNGT	28-JUN-91	120	132.5	NDPS	CH	4	ASTM CODE INAPPROPRIATE, NO RECOVERY OF SAMPLES.	IRP
P-29M	CNGT	28-JUN-91	132.5	135	SS	NACM	4	LIGHT GRAY, LOOSE, FINE GRAINED, INTER8EDS OF LIGNITE, SHALE, AND SIL	IRP
P-29M	CNGT	28-JUN-91	135	136.5	NDPS	NACM	4	NO RECOVERY.	IRP
P-29M	CNGT	28-JUN-91	136.5	137.2	SS	NACM	4	LIGHT GRAY, LOOSELY CEMENTED.	IRP
P-29M	CNGT	28-JUN-91	137.2	139.2	NDPS	NACM	4	NO RECOVERY.	IRP
P-29M	CNGT	28-JUN-91	139.2	140	SS	NACM	4	GRAY, LOOSE, SILTY LAMINAE, SOME LIGNITE.	IRP
P-3	SWL	06-JUN-83	0	0.33	ASPT		0	Asphalt and subgrade.	EXP
P-3	SWL	06-JUN-83	0.33	2	FILL		1	Asphalt subgrade. Not described.	EXP
P-3	SWL	06-JUN-83	2	6	STCL	CL	1	Silty clay & shaley clay, silty clay is dk reddish brn, moist, slightly firm, slightly c	EXP
P-3	SWL	06-JUN-83	6	8	SDGR	CL	1	Sandy gravelly clay, dark reddish brown, moist, slightly firm, slightly cohesive, sa	EXP
P-3	SWL	06-JUN-83	8	10	GVL	GP	1	Some limestone gravel up to 2-inch diameter.	EXP
P-3	SWL	06-JUN-83	10	13.5	STCL	CL	1	Silty, sandy clay, dark brown, moist, slightly soft, noncohesive, granular with so	EXP
P-3	SWL	06-JUN-83	13.5	45	LS		3	Shell Agg., lt. buff to grey, dense, weathered, very fossiliferous (o), matrix and i	EXP
P-3	SWL	06-JUN-83	45	46	SS		4	Sandstone, white to light buff, slightly loose to slightly dense, quartz, sand, sligh	EXP
P-3	SWL	06-JUN-83	46	71	SD		4	Sand, light buff, loose to slightly loose, very fine to fine grained quartz, well sort	EXP
P-3	SWL	06-JUN-83	71	85	CLAY		4	Clay, blue-green, slightly soft, cohesive; 77 ft: some thin beds of sand & sandy c	EXP
P-3	SWL	06-JUN-83	85	155	SD		4	Sand, lt grey to lt buff, loose, fine to med. grained quartz, well sorted, rounded,	EXP
P-3	SWL	06-JUN-83	155	158	SDCL		4	Clay/Sand, interbedded, clay is blue-green, thin zone of low-grade black lignite.	EXP
P-3	SWL	06-JUN-83	158	217	SSSH		4	Sandstone/shale/clay, interbedded, sandstone is buff to blue-green, slightly dens	EXP
P-3	SWL	06-JUN-83	217	218	SHLE		4	Shale, dark green to dark grey, stiff, fissile.	EXP
P-3	SWL	06-JUN-83	218	221	LS		5	Limestone, white to light buff, dense, fossiliferous, Glen Rose Formation.	EXP
P-30M	CNGT	01-JUL-91	0	5	STCL	CL	1	DARK BROWN SILTY CLAY, SOME LIMESTONE FRAGMENTS AND PEBBLES.	IRP
P-30M	CNGT	01-JUL-91	5	8	STCL	CL	1	BROWN SILTY CLAY, LESS THAN 5% LIMESTONE FRAGMENTS AND PEBBLES.	IRP
P-30M	CNGT	01-JUL-91	8	10	STCL	CL	1	LIGHT BROWN TO TAN SILTY CLAY, TRACE WHITE LIMESTONE FRAGMENTS	IRP
P-30M	CNGT	01-JUL-91	10	12	STCL	CL	1	TAN TO BROWN SILTY CLAY, LESS THAN 5% WHITE TO GRAY LIMESTONE PE	IRP
P-30M	CNGT	01-JUL-91	12	21	LS	NACM	2	GRAY, DENSE, SIGHTLY FOSSILIFEROUS, WITH LIGHT BROWN SILTY CLAY.	IRP
P-30M	CNGT	01-JUL-91	21	29	SHLE	NACM	2	DARK GRAY, CALCAREOUS, HARD, SOME CLAYSTONE.	IRP
P-30M	CNGT	01-JUL-91	29	34	LS	NACM	2	LIGHT GRAY, DENSE, TRACE PYRITE, SLIGHTLY FOSSILIFEROUS.	IRP
P-30M	CNGT	01-JUL-91	34	38.8	LS	NACM	3	MEDIUM GRAY, VERY FOSSILIFEROUS,SOME DARK CARBONACEOUS MATERI	IRP
P-30M	CNGT	01-JUL-91	38.8	53.5	LS	NACM	3	LIGHT GRAY, FINE GRAINED, DENSE, MINOR DARK GRAY CAR8ONACEOUS S	IRP
P-30M	CNGT	01-JUL-91	53.5	59	SSSL	NACM	4	GRAY TO GRAY GREEN, ALTERNATING THIN BEDS OF SANDSTONE AND SILT	IRP
P-30M	CNGT	01-JUL-91	59	63.5	NDPS	CH	4	ASTM CODE INAPPROPRIATE, NO RECOVERY OF SAMPLES.	IRP
P-30M	CNGT	01-JUL-91	63.5	71.5	SLST	NACM	4	GRAY-GREEN, SOME CARBONACEOUS MATERIAL, SOME SILTY CLAYSTONE I	IRP
P-30M	CNGT	01-JUL-91	71.5	79.5	SS	NACM	4	LIGHT GRAY TO LIGHT TAN, FINE GRAINED, SOME BLACK CARBONACEOUS	IRP
P-30M	CNGT	01-JUL-91	79.5	82.8	SLST	NACM	4	LIGHT TO DARK GRAY, CLAYEY, SOME CAR8ONACEOUS MATERIAL.	IRP
P-30M	CNGT	01-JUL-91	82.8	100	SSSL	NACM	4	INTERBEDDED LIGHT GRAY, FINE GRAINED SANDSTONE AND DARK GRAY SIL	IRP
P-30M	CNGT	01-JUL-91	100	101	NDPS	CH	4	ASTM CODE INAPPROPRIATE, NO RECOVERY OF SAMPLES.	IRP
P-30M	CNGT	01-JUL-91	101	102	SS	NACM	4	LIGHT GRAY, FINE GRAINED, FRIABLE, TRACE CARBONACEOUS MATERIAL A	IRP
P-30M	CNGT	01-JUL-91	102	103	NDPS	NACM	4	ASTM CODE INAPPROPRIATE, NO RECOVERY OF SAMPLES.	IRP
P-30M	CNGT	01-JUL-91	103	104	SS	NACM	4	LIGHT GRAY, FRIABLE.	IRP
P-30M	CNGT	01-JUL-91	104	105	NDPS	CH	4	ASTM CODE INAPPROPRIATE, NO RECOVERY OF SAMPLES.	IRP
P-30M	CNGT	01-JUL-91	105	108	SS	NACM	4	LIGHT GRAY, FINE GRAINED, SIGNIFICANT CARBONACEOUS LAYERS, SOME G	IRP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-30M	CNGT	01-JUL-91	108	113.25	NDPS	CH	4	ASTM CODE INAPPROPRIATE, NO RECOVERY OF SAMPLES.	IRP
P-30M	CNGT	01-JUL-91	113.25	115.5	SS	NACM	4	LIGHT GRAY, FINE GRAINED, TRACE CARBONACEOUS MATERIAL.	IRP
P-30M	CNGT	01-JUL-91	115.5	116.8	SHLE	NACM	4	DARK GRAY TO BLACK, CARBONACEOUS, LAMINATED, SOME SILTSTONE.	IRP
P-30M	CNGT	01-JUL-91	116.8	120	NDPS	CH	4	ASTM CODE INAPPROPRIATE, NO RECOVERY OF SAMPLES.	IRP
P-30M	CNGT	01-JUL-91	120	121	SLST	NACM	4	DARK GRAY, CLAYEY.	IRP
P-30M	CNGT	01-JUL-91	121	137.5	NDPS	NACM	4	NO RECOVERY INDICATED ON LITHOLOGIC LOG.	IRP
P-30M	CNGT	01-JUL-91	137.5	137.75	SS	NACM	4	LIGHT GRAY TO PINK-TAN, FINE GRAINED, SOME SILTSTONE.	IRP
P-30M	CNGT	01-JUL-91	137.75	153.5	NDPS	NACM	4	NO RECDVERY INDICATED ON LITHOLOGIC LOG.	IRP
P-30M	CNGT	01-JUL-91	153.5	157	SS	NACM	4	INTERBEDDED LIGHT GRAY FINE GRAINED SANDSTONE AND DARK GRAY SIL	IRP
P-31U	CNGT	20-MAY-91	0	0.6	CN	NACM	0	Concrete pavement.	BCH
P-31U	CNGT	20-MAY-91	0.6	10.5	STCL	CL	1	Dark brown to black clayey silt.	BCH
P-31U	CNGT	20-MAY-91	10.5	11.2	GVL	GC	2	Weathered Goodland Limestone, about 30% gray-white limestone fragments in	BCH
P-31U	CNGT	20-MAY-91	11.2	17	SHLE	NACM	2	Goodland Limestone, mottled shale (weathered and clayey) mostly tan with mino	BCH
P-31U	CNGT	20-MAY-91	17	22	LS	NACM	2	Some gray fossiliferous limestone beds (thin).	BCH
P-31U	CNGT	20-MAY-91	22	28	SHLE	NACM	2	Tan brown shale with minor limestone, faster drilling.	BCH
P-31U	CNGT	20-MAY-91	28	33.8	LS	NACM	3	Top of Walnut Fm., limestone, gray, hard drilling begins at 28', dense gray limes	BCH
P-31U	CNGT	20-MAY-91	33.8	34	SHLE	NACM	3	Medium dark gray limestone and limey shale-grades downward into more limesto	BCH
P-31U	CNGT	20-MAY-91	34	39.6	LS	NACM	3	Light to gray limestone composed of large clams. Low porosity. Light to dark g	BCH
P-31U	CNGT	20-MAY-91	39.6	40.4	SHLE	NACM	3	Alternating light gray limestone and dark gray, calcareous shale.	BCH
P-31U	CNGT	20-MAY-91	40.4	55	LS	NACM	3	Light to dark gray shell agglomerate-high porosity, light gray limestone (low poro	BCH
P-31U	CNGT	20-MAY-91	55	58	SDCL	NACM	3	Base of Walnut Frm., light to medium gray siltstone.	BCH
P-31U	CNGT	20-MAY-91	58	93.2	SS	NACM	4	Upper most Paluxy, dark gray very fine grained sandstone with some carbonaceo	BCH
P-31U	CNGT	20-MAY-91	93.2	100	SHLE	NACM	4	Light gray siltstone and very fine grained sandstone alternating with gray-brown	BCH
P-4	SWL	07-JUN-83	0	0.33	ASPT		0	Asphalt and subgrade.	EXP
P-4	SWL	07-JUN-83	0.33	4	FILL	CL	1	FILL, sandy clay, reddish brown, moist, slightly firm, slightly cohesive, trace grav	EXP
P-4	SWL	07-JUN-83	4	6	SDSL	SM	1	FILL, silty, clayey sand, light reddish brown, slightly moist, slightly loose, very fin	EXP
P-4	SWL	07-JUN-83	6	8	SDSL	SM	1	FILL, same as 4-6 ft, except decreasing clay content.	EXP
P-4	SWL	07-JUN-83	8	10	SDSL	SM	1	FILL, silty sand, light reddish tan, slightly moist, slightly loose, fine to medium gr	EXP
P-4	SWL	07-JUN-83	10	12	SD	SP	1	FILL, sand, tan, slightly moist, loose, well sorted, fine to medium grained quartz,	EXP
P-4	SWL	07-JUN-83	12	22	SD	SP	1	FILL, sand, light tan, dry to slightly moist; 14 ft: slightly moist; 15.5 ft: tan, mois	EXP
P-4	SWL	07-JUN-83	22	24	SDGR	GC	1	FILL, gravelly, clayey sand, light tan to light brown, wet, slightly loose, sand is fi	EXP
P-4	SWL	07-JUN-83	24	25	GVCL	GC	1	FILL, clay, sand and gravel, light to medium brown and grey, wet, loose, greenis	EXP
P-4	SWL	07-JUN-83	25	54	LS		3	Shell Agg., med to dk grey, dry to slightly moist, dense, brittle, very fossiliferous	EXP
P-4		07-JUN-83	54	57	SHLE		3	Silty shale, medium to dark grey, slightly firm, very slightly cohesive, calcareous;	EXP
P-4		07-JUN-83	57	63	SS		4	Sandstone, med. greyish-buff, slightly loose, well sorted, subrounded, very fine t	EXP
P-4		07-JUN-83	63	66	CLAY		4	Clay, medium grey to burf, slightly soft, slightly cohesive, some thin beds of san	EXP
P-4		07-JUN-83	66	87	SD		4	Sand, greyish buff, loose, very fine to fine grained quartz, well sorted, subrounde	EXP
P-4		07-JUN-83	87	95	CLAY		4	Clay, light blue-green, slightly soft, cohesive, shaley in zones, some thin beds of	EXP
P-4		07-JUN-83	95	107	SSCL		4	Clay/Sandstone, interbedded, clay is lt blue-grn, slightly soft - slightly firm, cohes	EXP
P-4		07-JUN-83	107	160	SD		4	Sand, med grey to lt buff, loose to slightly dense, fine to med. grained quartz, w	EXP
P-4		07-JUN-83	160	170	CLAY		4	Clay, blue-green, slightly soft, cohesive, some shaley zones, some thin beds of s	EXP
P-4		07-JUN-83	170	222	SD		4	Sand, med grey to lt buff, loose, very fine to fine grained quartz, mod. cemented	EXP
P-4		07-JUN-83	222	227	SHLE		4	Shale/Clay, interbedded, blue-green, firm, cohesive, no odor.	EXP
P-4		07-JUN-83	227	228	LS		5	Limestone, buff to white, slightly dense, Glenrose Formation.	EXP
P-5M	ACUX	05-JUN-84	0	4	FILL	CH	0	LOGGING COMPANY WAS HARGIS AND ASSOCIATES. NO ASTM CODE. SAN	IRP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-5M	ACUX	05-JUN-84	4	8	SDSL	SM	1	LIGHT BROWN, MOIST, VERY FINE TO FINE GRAINED, TRACE CLAY.	IRP
P-5M	ACUX	05-JUN-84	8	9	SD	SW	1	LIGHT TAN, MOIST, VERY FINE TO FINE GRAINED, LOOSE, TRACE SILT.	IRP
P-5M	ACUX	05-JUN-84	9	13	SILT	ML	1	LIGHT TAN, MOIST, SOME VERY FINE TO FINE GRAINED SAND, TRACE CLAY.	IRP
P-5M	ACUX	05-JUN-84	13	15	SDSL	SM	1	LIGHT TAN TO BROWN, MOIST, VERY FINE GRAINED.	IRP
P-5M	ACUX	05-JUN-84	15	18	SD	SW	1	LIGHT BROWN, MOIST TO VERY MOIST, VERY FINE TO FINE GRAINED, SLIGHT	IRP
P-5M	ACUX	05-JUN-84	18	20	STCL	CL	1	LIGHT TAN, MOIST, SOME VERY FINE GRAINED SAND, FIRM.	IRP
P-5M	ACUX	05-JUN-84	20	28	SILT	ML	1	LIGHT TAN, MOIST TO VERY MOIST, VERY FINE GRAINED SAND, FIRM.	IRP
P-5M	ACUX	05-JUN-84	28	31	SDSL	SM	1	LIGHT BROWN, WET, MEDIUM TO COARSE GRAINED SAND, SOME FINE LIMES	IRP
P-5M	ACUX	05-JUN-84	31	62	LS	NACM	3	LIMESTONE AND SHELL AGGLOMERATE OF WALNUT FM. LIGHT BROWN TO	IRP
P-5M	ACUX	05-JUN-84	62	71	SSSL	NACM	4	INTERBEDDED SAND AND CLAY, GRAY, SAND FINE TO MEDIUM GRAINED, PO	IRP
P-5M	ACUX	05-JUN-84	71	77	SS	NACM	4	LIGHT GRAY TO WHITE, VERY FINE TO FINE GRAINED, HARD TO VERY HARD,	IRP
P-5M	ACUX	05-JUN-84	77	81	SSSL	NACM	4	INTERBEDDED SAND AND CLAY. SAND VERY FINE TO FINE GRAINED, LOOSE	IRP
P-5M	ACUX	05-JUN-84	81	87	CLSN	NACM	4	MEDIUM GRAY TO BROWN, VERY SANDY, CARBONACEOUS.	IRP
P-5M	ACUX	05-JUN-84	87	91	SS	NACM	4	MEDIUM GRAY, VERY FINE TO FINE GRAINED, LOOSE TO POORLY CEMENTED,	IRP
P-5M	ACUX	05-JUN-84	91	95	SS	NACM	4	MEDIUM GRAY, FINE TO MEDIUM GRAINED, POORLY TO WELL CEMENTED, S	IRP
P-5M	ACUX	05-JUN-84	95	107	CLSN	NACM	4	GRAY, SLIGHTLY SANDY, CARBONACEOUS, SLIGHTLY COHESIVE, FIRM	IRP
P-5M	ACUX	05-JUN-84	107	111	SSCL	NACM	4	BLUE, GRAY, TO BROWN, FIRM, COGESIVE, CARBONACEOUS.	IRP
P-5M	ACUX	05-JUN-84	111	115	SSCL	NACM	4	INTERBEDDED SANDY CLAY AND CLAYEY SAND. GRAY, FIRM, SILTY, VERY	IRP
P-5M	ACUX	05-JUN-84	115	126	SS	NACM	5	GRAY, VERY FINE TO FINE GRAINED, LOOSE TO POORLY CEMENTED.	IRP
P-5M	HARG	05-JUN-84	126	127	CLAY	CL	4	GRAY, SANDY, FIRM, SLIGHTLY COHESIVE.	IRP
P-5M	HARG	05-JUN-84	127	133	SS	NACM	4	BUFF TO GRAY, VERY FINE TO MEDIUM GRAINED, LOOSE TO MODERATELY C	IRP
P-5M	HARG	05-JUN-84	133	135	SDCL	SC	4	INTERBEDDED SAND AND CLAY, SAND VERY FINE TO MEDIUM GRAINED, LOO	IRP
P-5M	HARG	05-JUN-84	135	141	SD	SM	4	BUFF TO GRAY, VERY FINE TO MEDIUM GRAINED, VERY LOOSE, TRACES LIG	IRP
P-5M	HARG	05-JUN-84	141	143	SDCL	SC	4	INTERBEDDED SAND AND CLAY AS AT 133 FEET.	IRP
P-5M	HARG	05-JUN-84	143	147	SDCL	SC	4	SANDY CLAY, GRAY, LOOSE, SOFT, SLIGHTLY COHESIVE, CARBONACEOUS,	IRP
P-5M	HARG	05-JUN-84	147	149	SD	SM	4	GRAY, VERY FINE TO FINE GRAINED, LOOSE TO MODERATELY CEMENTED, SO	IRP
P-5M	HARG	05-JUN-84	149	153	SS	NACM	4	BUFF TO GRAY, VERY FINE TO FINE GRAINED, LOOSE TO WELL CEMENTED.	IRP
P-5M	HARG	05-JUN-84	153	157	SDCL	CL	4	GRAY, FINE TO MEDIUM GRAINED, LOOSE, SOFT, TRACE LIGNITE.	IRP
P-5M	HARG	05-JUN-84	157	162	CLAY	CL	4	BLUE-GREEN, FIRM, COHESIVE, NOT SANDY.	IRP
P-5U	SWL	01-MAY-84	0	6	SDCL	CL	1	FILL. Sandy clay, dark red to brown, moist, fine to medium grained, slightly cohe	EXP
P-5U	SWL	01-MAY-84	6	12	SDSL	SM	1	Silty sand, light orange, brown, moist, very fine to fine grained, loose.	EXP
P-5U	SWL	01-MAY-84	12	13	SDSL	ML	1	Sandy, clayey silt, light tan, moist, fine to medium grained sand.	EXP
P-5U	SWL	01-MAY-B4	13	16	STCL	ML	1	Clayey silt, light tan, moist, some very fine sand, dense.	EXP
P-5U	SWL	01-MAY-84	16	18	SDSL	SM	1	Silty sand, light tan, moist, very fine to fine grained, loose, contains some light g	EXP
P-5U	SWL	01-MAY-84	18	23	STCL	CL	1	Silty clay, light tan, moist, trace sand, slightly cohesive, very firm.	EXP
P-5U	SWL	01-MAY-B4	23	30.5	SDSL	SM	1	Silty sand, light brown, very moist to wet, very fine to fine grained, trace of clay	EXP
P-5U	SWL	01-MAY-84	30.5	33	STCL	CL	3	Silty clay, light tan, wet, trace of fine to coarse grained sand, firm.	EXP
P-5U	SWL	01-MAY-84	33	64	LS		3	Shell Agg., med. to dk grey, slightly dense to dense, fossiliferous (o), matrix & in	EXP
P-5U	SWL	01-MAY-B4	64	65	CLAY		4	Clay, dark grey, carbonaceous, soft, poorly cohesive.	EXP
P-5U	SWL	01-MAY-84	65	75	SDCL		4	Sandy/Clay, interbedded, grey to light grey sand is very fine to fine, loose to poo	EXP
P-5U	SWL	01-MAY-84	75	83	SS		4	Sand/Sandstone, buff to grey, very fine to fine grained, loose to very well cemen	EXP
P-5U	SWL	01-MAY-84	83	94	SD		4	Sand, grey, very fine to fine grained, loose to poorly cemented, carbonaceous, tr	EXP
P-5U	SWL	01-MAY-B4	94	101	CLAY		4	Clay, blue-grey, carbonaceous, poorly cohesive, soft; 95-99 ft: sandy.	EXP
P-5UN	HARG	15-OCT-87	0	6	SDSL	SM	1	Silty sand/sandy silt, reddish brown, 10 R 5/4, sand is fine to very coarse graine	EXP
P-5UN	HARG	15-OCT-87	6	24	SDSL	SM	1	Sand/silt, greyish orange, 10 YR 7/4, interbedded w/ pale orange 10 YR 8/2, silt	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-5UN	HARG	15-OCT-87	24	32	SDGR	SP	1	Silty, gravelly sand, varicolored, fine to medium grained, slightly cohesive.	EXP
P-5UN	HARG	15-OCT-87	32	60.5	LS		3	Fossiliferous Limestone, grey, N4 to N7, fossils, consist of oyster shell shards.	EXP
P-5UN	HARG	15-OCT-87	60.5	66	CLAY		3	Clay w/ limestone interbeds, limestone is same as above, clay is sandy, approx.	EXP
P-5UN	HARG	15-OCT-87	66	68	SDCL		3	Sandy clay/clayey sand, grey, N3, very fine grained, loose interbeds of sandy cla	EXP
P-5UN	HARG	15-OCT-87	68	74	SDCL		3	Sandy clay, grey, N8, moderately cohesive, moderately plastic, sand decreases	EXP
P-5UN	HARG	15-OCT-87	74	76.5	SS		3	Sandstone, light grey, very well cemented, medium to fine grained, well rounded.	EXP
P-5UN	HARG	15-OCT-87	76.5	81	SDCL		3	Sandy clay, grey, N8, moderately cohesive, moderately plastic, some pyrite and l	EXP
P-5UN	HARG	15-OCT-87	81	96	SD		3	Sand, grey, N7, fine to medium grained, subrounded, moderately cemented, Geol	EXP
P-5UN	HARG	15-OCT-87	96	98	STCL		3	Silty clay, blue grey, 5 B 7/1, slightly cohesive, slightly plastic. Geologist describ	EXP
P-6M	ACUX	22-MAY-84	0	8	FILL	CH	1	ASTM CODE INAPPROPRIATE.	IRP
P-6M	ACUX	22-MAY-84	8	11	SD	SM	1	MEDIUM BROWN, MOIST, FINE GRAINED, LOOSE.	IRP
P-6M	ACUX	22-MAY-84	11	13	SDGR	SP	1	MEDUIM BROWN, MOIST, FINE TO COARSE GRAINED, LOOSE.	IRP
P-6M	ACUX	22-MAY-84	13	24.5	GVL	GP	1	INTERBEDDED CLAYEY, SILTY, AND SANDY GRAVEL. MEDIUM BROWN TO YE	IRP
P-6M	ACUX	22-MAY-84	24.5	26.5	CLAY	CL	1	GRAY TO MEDIUM BROWN, WET, FINE TO COARSE SAND, SLIGHTLY COHESI	IRP
P-6M	ACUX	22-MAY-84	26.5	30.5	SHLE	NACM	2	GREENISH-ORANGE, WET, COHESIVE, STIFF, WEATHERED.	IRP
P-6M	ACUX	22-MAY-84	30.5	58	LS	NACM	3	SHELL AGGLOMERATE, MEDIUM TO DARK GRAY, VERY DENSE, OYSTER FOS	IRP
P-6M	ACUX	22-MAY-84	58	60.5	LS	NACM	3	LIGHT GRAY TO GRAY, SLIGHTLY SANDY TO SANDY, HARD,SHALEY TO CRY	IRP
P-6M	ACUX	22-MAY-84	60.5	65	SHLE	NACM	3	MEDIUM GRAY, SLIGHTLY SANDY, FISSILE, SLIGHTLY COHESIVE.	IRP
P-6M	ACUX	22-MAY-84	65	70	SS	NACM	4	INTERBEDDED SHALE AND SANDSTONE. SHALE MEDIUM GRAY, SLIGHTLY S	IRP
P-6M	ACUX	22-MAY-84	70	73	SSSL	NACM	4	INTERBEDDED SILT AND SANDSTONE. SILT LIGHT GRAY, SLIGHTLY SANDY,	IRP
P-6M	ACUX	22-MAY-84	73	77	CLSN	NACM	4	LIGHT GRAY, SLIGHTLY COHESIVE, SOME HARD SANDY PYRITE.	IRP
P-6M	ACUX	22-MAY-84	77	86	SS	NACM	4	LIGHT GRAY, VERY FINE TO MEDIUM GRAINED, POORLY CEMENTED, SOME C	IRP
P-6M	ACUX	22-MAY-84	86	93	SSSH	NACM	4	INTERBEDDED CLAY AND SANDSTONE. SANDSTONE BUFF TO WHITE, FINE T	IRP
P-6M	ACUX	22-MAY-84	93	105	CLSN	NACM	4	BLUE-GREEN, FIRM, SLIGHTLY COHESIVE, TRACE PYRITE AND LIGNITE.	IRP
P-6M	ACUX	22-MAY-84	105	110	SSSH	NACM	4	INTERBEDDED. SANDSTONE BUFF, FINE TO MEDIUM GRAINED, SOME SILT, P	IRP
P-6M	ACUX	22-MAY-84	110	164	SS	NACM	5	BUFF TO LIGHT GRAY, VERY FINE TO FINE, LOOSE TO POORLY CEMENTED, T	IRP
P-6M	ACUX	22-MAY-84	164	167	SSSH	NACM	5	INTERBEDDED. SAND BUFF TO LIGHT GRAY, VERY FINE TO FINE GRAINED, L	IRP
P-6M	ACUX	22-MAY-84	167	169	SHLE	NACM	5	BLUE-GREEN, SANDY, BRITTLE, STIFF, SOFT.	IRP
P-6U	HARG	20-MAY-84	0	1	ASPT	NACM	0	ASPHALT, CONCRETE, AND SUB-GRADE.	IRP
P-6U	HARG	20-MAY-84	1	4	SDCL	SC	1	LIGHT BROWN, MOIST, SLIGHTLY COHESIVE, TRACE GRAVEL.	IRP
P-6U	HARG	20-MAY-84	4	8	SD	SM	1	MEDIUM BROWN, MOIST, FINE GRAINED, SOME SILT, LOOSE, SOME LIGHT GR	IRP
P-6U	HARG	20-MAY-84	8	10	SDGR	GM	1	LIGHT BROWN TO LIGHT GRAY, MOIST, LOOSE, PREDOMINANTLY LIMESTONE	IRP
P-6U	HARG	20-MAY-84	10	12	SDSL	SM	1	MEDIUM BROWN, MOIST, VERY FINE GRAINED, TRACE OF FINE GRAVEL.	IRP
P-6U	HARG	20-MAY-84	12	17	STCL	ML	1	LIGHT BROWN, MOIST, SOME FINE SAND AND GRAVEL, FIRM.	IRP
P-6U	HARG	20-MAY-84	17	23	STCL	CL	1	LIGHT BROWN TO GRAY, MOIST, SOME VERY FINE SAND, SOME FINE GRAVE	IRP
P-6U	HARG	20-MAY-84	23	26	SDSL	SM	1	LIGHT BROWN, WET, VERY FINE TO MEDIUM GRAINED, TRACE OF CLAY, SO	IRP
P-6U	HARG	20-MAY-84	26	28	SDGR	GW	1	BUFF TO GRAY, FINE TO MEDIUM GRAVEL, SOME COARSE SAND, NO CLAY O	IRP
P-6U	HARG	20-MAY-84	28	32	CLAY	CL	2	GREEN-BROWN TO ORANGE, MOSIT, SLIGHTLY COHESIVE, VERY STIFF, WEA	IRP
P-6U	SWL	01-MAY-84	32	32.5	CLAY		3	Shaley clay, blue-grey to dark grey, stiff, cohesive, with some limonite stains.	EXP
P-6U	SWL	01-MAY-84	32.5	60	LS		3	Shell Agg., medium to dark grey, dense, fossiliferous (oysters), matrix of limesto	EXP
P-6U	HARG	20-MAY-84	60	61	LS	NACM	3	LIGHT GRAY, DENSE, SLIGHTLY SANDY, CRYSTALLINE, HARD, TIGHT, NO CL	IRP
P-6U	HARG	20-MAY-84	61	64	LS	NACM	3	SHALEY, DARK GRAY, MODERATELY DENSE, FOSSILIFEROUS, SOME SANDY I	IRP
P-6U	HARG	20-MAY-84	64	66	SS	NACM	4	MEDIUM GRAY, VERY FINE TO FINE GRAINED, POORLY TO MODERATELY CEM	IRP
P-6U	HARG	20-MAY-84	66	80	SSSH	NACM	4	INTERBEDDED, CLAY MEDIUM TO DARK GRAY, MODERATELY COHESIVE, SAN	IRP
P-6U	HARG	20-MAY-84	80	95	SS	NACM	4	BUFF TO BROWN, VERY FINE TO FINE GRAINED, LOOSE TO POORLY CEMENTE	IRP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-6U	SWL	01-MAY-84	95	97	SSCL		4	Shaley clay/sandstone, interbedded, clay dark grey, moderately cohesive, trace p	EXP
P-6U	SWL	01-MAY-84	97	100	CLAY		4	Shaley clay, dark grey, fissile, soft to very firm, cohesive, trace pyrite, lignite, so	EXP
P-7M	SWL	07-JAN-85	0	2	ASPT		0	FILL. Asphalt and subgrade.	EXP
P-7M	SWL	07-JAN-85	2	16	STCL	CL	1	Silty clay, brown to red-brown, some sand, some caliche, in nodules and stringer	EXP
P-7M	SWL	07-JAN-85	16	20	SDCL	CL	1	Sandy clay, light brown, moist, very fine grained.	EXP
P-7M	SWL	07-JAN-85	20	34	SDCL	SC	1	Clayey sand, brown, moist, very fine grained, some silt, some weathered sandst	EXP
P-7M	SWL	07-JAN-85	34	36	CLAY		3	Shaley clay, dark grey, stiff, calcareous, fossiliferous (oysters).	EXP
P-7M	SWL	07-JAN-85	36	57	LS		3	Shell Agg., grey, dense, fossiliferous (oysters), with interlayers of calcareous shal	EXP
P-7M	SWL	07-JAN-85	57	105	SS		3	Sandstone, grey, fine grained, well sorted, some silt and clay, some pyrite and lig	EXP
P-7M	SWL	07-JAN-85	105	118	CLSN		3	Claystone/Clayey shale, green, firm, contains sandstone interlayers; 111-118 ft:	EXP
P-7M	SWL	07-JAN-85	118	126	SS		3	Sandstone, grey, very fine grained, some silt, some clay; 122 ft: some lignite.	EXP
P-7M	SWL	07-JAN-85	126	130	STCL		3	Silty Clay, grey, soft, poorly consolidated, some sand.	EXP
P-7M	SWL	07-JAN-85	130	160	SD		3	Sand, grey, very fine to fine, some clay. Loose to poorly cemented; 146-150 ft:	EXP
P-7M	SWL	07-JAN-85	160	165	CLSN		3	Claystone/Shaley clay, blue-green, firm, some sandstone interbeds.	EXP
P-7U	HARG	06-JAN-85	0	1	ASPT	NACM	0	ASPHALT AND SUB-GRADE.	IRP
P-7U	HARG	06-JAN-85	1	5	CLAY	GC	1	SANDY GRAVELLY CLAY, MEDIUM TO DARK BROWN, VERY MOIST, MEDIUM	IRP
P-7U	HARG	06-JAN-85	5	8	CLAY	CL	1	RED-BROWN, MOIST, FINE GRAINED SAND, TRACE FINE LIMESTONE GRAVEL,	IRP
P-7U	HARG	06-JAN-85	8	10	CLAY	CL	1	SANDY, SILTY, RED-ORANGE, MOIST, FINE GRAINED SAND, TRACE FINE LIME	IRP
P-7U	HARG	06-JAN-85	10	11	SDCL	SM	1	SILTY, CLAYEY, RED-ORANGE, MOIST, VERY FINE TO FINE GRAINED, TRACE L	IRP
P-7U	SWL	02-MAY-84	11	12.5	SDSL	SM	1	Silty sand, tan to orange, moist, very fine to fine grained, some clay, loose.	EXP
P-7U	SWL	02-MAY-84	12.5	14	SDCL	SC	1	Clayey sand, brown to orange, moist, fine to medium grained, some silt, some fi	EXP
P-7U	HARG	06-JAN-85	14	16	SDSL	SM	1	SILTY SAND, TAN TO BROWN, MOIST, FINE TO MEDIUM GRAINED, TRACE CL	IRP
P-7U	HARG	06-JAN-85	16	19	SD	SW	1	LIGHT BROWN, MOIST, VERY FINE TO FINE GRAINED, SOME SILT, TRACE CLA	IRP
P-7U	HARG	06-JAN-85	19	24	SDSL	ML	1	SANDY SILT, BUFF TO GRAY, MOIST, VERY FINE TO FINE SAND, SOME CLAY,	IRP
P-7U	HARG	06-JAN-85	24	27	SDCL	SM	1	SILTY CLAYEY SAND, LIGHT TAN, VERY MOIST TO WET, VERY FINE TO FINE	IRP
P-7U	SWL	02-MAY-84	27	31	SDSL	SM	1	Silty sand, yellow-tan, wet, very fine to fine grained, some clay, loose.	EXP
P-7U	SWL	02-MAY-84	31	32	SDCL	CL	1	Sandy clay, yellow to white, wet, medium to coarse sand, some fine limestone g	EXP
P-7U	HARG	06-JAN-85	32	33	SDCL	SM	1	YELLOW TO WHITE, WET, MEDIUM TO COARSE SAND, SOME FINE LIMESTON	IRP
P-7U	HARG	06-JAN-85	33	35	CLAY	CL	3	SHALEY CLAY, DARK GRAY, STIFF, COHESIVE, CALCAREOUS.	IRP
P-7U	HARG	06-JAN-85	35	64	LS	NACM	3	MEDIUM TO DARK GRAY, DENSE, FOSSILIFEROUS, MATRIX LIMESTONE, CAL	IRP
P-7U	HARG	06-JAN-85	64	106	SS	NACM	4	LIGHT GRAY, VERY FINE TO FINE GRAINED, SOME CLAY, SOME LIGNITE, POO	IRP
P-7U	HARG	06-JAN-85	106	107	CLSN	NACM	4	GREEN, FIRM.	IRP
P-7U	SWL	02-MAY-84	107	109.5	SS		4	Sandstone, light grey, fine grained, moderately well cemented.	EXP
P-7U	SWL	02-MAY-84	109.5	111	CLSN		4	Claystone, green, firm.	EXP
P-8M	ACUX	29-JAN-85	0	14	CLAY	CH	1	Logging company was Hargis and Assoc. LIGHT BROWN, SOME SAND, SLIGHT	IRP
P-8M	ACUX	29-JAN-85	14	30	GVCL	GC	1	LIGHT BROWN, MOIST, VERY FOSSILIFEROUS.	IRP
P-8M	ACUX	29-JAN-85	30	39	LSCL	NACM	3	GRAY, DRY, CLAYEY IN PLACES. FOSSILIFEROUS (OYSTERS).	IRP
P-8M	ACUX	29-JAN-85	39	57	LSSD	NACM	3	LIGHT GRAY TO GRAY, SLIGHTLY SANDY TO SANDY, FOSSILIFEROUS, SHALE	IRP
P-8M	ACUX	29-JAN-85	57	84	SS	NACM	4	GRAY, FINE GRAINED, SOFT, FRIABLE.	IRP
P-8M	ACUX	29-JAN-85	84	104	CLSN	NACM	4	NO DESCRIPTION ON LOG.	IRP
P-8M	ACUX	29-JAN-85	104	167	SS	NACM	5	WHITE TO TAN, MEDIUM GRAINED, WELL ROUNDED, SOME THIN CLAY STRIN	IRP
P-8M	ACUX	29-JAN-85	167	169	CLSN	NACM	5	BLUE-GREEN, BRITTLE, STIFF, SOFT TO HARD.	IRP
P-8U	SWL	08-JAN-85	0	20	SDCL	CL	1	Sandy, silty clay, red-brown to light brown, slightly moist to dry, some caliche as	EXP
P-8U	SWL	08-JAN-85	20	32	SDCL	SC	1	Clayey sand, tan, slightly moist to dry, fossiliferous (contains nautiloids and gastr	EXP
P-8U	SWL	08-JAN-85	32	38	LS		3	Shell Agglomerate, grey, dry, clayey at top. Fossiliferous (oysters), matrix of lime	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-8U	SWL	08-JAN-85	38	42	LS		3	Limestone, grey, sandy, fossiliferous, with clayey interbeds.	EXP
P-8U	SWL	08-JAN-85	42	57	LSSD		3	Sandy limestone, grey, fossiliferous, with limey sandstone interbeds; below 55 ft	EXP
P-8U	SWL	08-JAN-85	57	84	SS		3	Sandstone, grey, fine-grained, well sorted; 63 ft: some lignite; 72-74 ft: clayston	EXP
P-8U	SWL	08-JAN-85	84	92	CLSN		3	Claystone/shale, blue-grey, firm, sandy.	EXP
P-8UN	ACUX	06-MAY-87	0	27	CLAY	CL	1	Logging company was Hargis and Assoc. GRAYISH ORANGE, SLIGHTLY PLASTI	IRP
P-8UN	ACUX	06-MAY-87	27	30	GVLP	GP	1	VARICOLORED, SATURATED, LOOSE, MEDIUM TO VERY COARSEGRAINED, W	IRP
P-8UN	ACUX	06-MAY-87	30	58.5	LSSH	NACM	3	GRAY, DRY, HARD, ABUNDANT FOSSILS, SHALE INTERBEDS.	IRP
P-8UN	ACUX	06-MAY-87	58.5	61	SSCL	NACM	4	GRAY, WET, MODERATELY CEMENTED, SAND IS VERY FINE GRAINED, WELL	IRP
P-8UN	ACUX	06-MAY-87	61	73	STCL	NACM	4	GRAY, WET, FIRM, SLIGHTLY PLASTIC, NONCOHESIVE.	IRP
P-8UN	ACUX	06-MAY-87	73	84	SS	NACM	4	WHITISH, MODERATELY CEMENTED, WELL SORTED, VERY FINE TO FINE GRAI	IRP
P-8UN	ACUX	06-MAY-87	84	94	SLCL	NACM	4	GRAY, WET, FIRM, MODERATELY PLASTIC, MODERATELY COHESIVE.	IRP
P-8US	ACUX	19-JAN-85	0	20	STCL	ML	1	SANDY SILTY CLAY. NO OTHER DESCRIPTION ON LOG. LOGGING COMPANY	IRP
P-8US	ACUX	19-JAN-85	20	32	SD	SP	1	CLAYEY SAND. NO OTHER DESCRIPTION ON LOG.	IRP
P-8US	ACUX	19-JAN-85	32	38	LS	NACM	3	SHELL CONCLOMERATE. NO OTHER DESCRIPTION ON LOG.	IRP
P-8US	ACUX	19-JAN-85	38	58	LS	NACM	3	LIMESTONE. NO OTHER DESCRIPTION ON LOG.	IRP
P-8US	ACUX	19-JAN-85	58	65	SS	NACM	4	CLAYEY SANDSTONE. NO OTHER DESCRIPTION ON LOG.	IRP
P-8US	ACUX	19-JAN-85	65	72	CLSN	NACM	4	CLAYSTONE. NO OTHER DESCRIPTION ON LOG.	IRP
P-8US	ACUX	19-JAN-85	72	84	SS	NACM	5	SANDSTONE. NO OTHER DESCRIPTION ON LOG.	IRP
P-8US	ACUX	19-JAN-85	84	92	CLSN	NACM	5	CLAY. NO OTHER DESCRIPTION ON LOG.	IRP
P-9M	HARG	12-FEB-85	0	4	CLAY	CL	1	RED-BROWN, MOIST, COHESIVE, WITH LIMESTONE OR CALICHE PEBBLES.	IRP
P-9M	HARG	12-FEB-85	4	14	STCL	CL	1	SILTY CLAY, LIGHT BROWN, MOIST, COHESIVE, WITH SOME CALICHE NODUL	IRP
P-9M	HARG	12-FEB-85	14	36	GVL	GC	1	CLAYEY, SANDY GRAVEL, ORANGE BROWN, MOIST, COHESIVE, FOSSILIFERO	IRP
P-9M	HARG	12-FEB-85	36	61	LS	NACM	3	MEDIUM GRAY, DENSE, FOSSILIFEROUS, MATRIX AND INTERBEDS OF SANDY	IRP
P-9M	HARG	12-FEB-85	61	64	LS	NACM	3	GRAY, SANDY, HARD, FOSSILIFEROUS.	IRP
P-9M	HARG	12-FEB-85	64	118	SS	NACM	4	GARY, FINE GRAINED, SILTY, SOME CLAY, SOME LIGNITE AND PYRITE.	IRP
P-9M	HARG	12-FEB-85	118	121	LGNT	NACM	4	BLACK, SOFT, WOODY, CLAYEY.	IRP
P-9M	HARG	12-FEB-85	121	128	SDCL	SM	4	CLAYEY SAND/SANDY CLAY, GRAY, SILTY, VERY FINE TO FINE GRAINED SAN	IRP
P-9M	HARG	12-FEB-85	128	166	SS	NACM	5	GRAY, FINE GRAINED, LOOSE TO MODERATELY CEMENTED, SOME THIN LIGNI	IRP
P-9M	HARG	12-FEB-85	166	168	CLSN	NACM	5	GREEN, BRITTLE, STIFF, HARD.	IRP
P-9U	SWL	15-JAN-85	0	6	CLAY	CL	1	FILL. Clay, red-brown, moist, cohesive, with some caliche.	EXP
P-9U	SWL	15-JAN-85	6	18	STCL	CL	1	Silty clay, brown to red-brown, slightly moist to moist, brittle.	EXP
P-9U	SWL	15-JAN-85	18	24	STCL	CL	1	Silty, sandy clay, orange brown, slightly moist, brittle, some limonite stains, cont	EXP
P-9U	SWL	15-JAN-85	24	35	SHLE		2	Clayey shale, grey-brown, dry, brittle, some linunite stains, fissile. Goodland For	EXP
P-9U	SWL	15-JAN-85	35	40	LS		2	Shaley limestone, grey to black, dry, fissile, fossiliferous, (oysters).	EXP
P-9U	SWL	15-JAN-85	40	62	LS		3	Shell Agg., medium to dark grey, dense, fossiliferous (oysters), matrix of limesto	EXP
P-9U	SWL	15-JAN-85	62	118	SS		4	Sandstone, grey, fine-grained, poorly to moderately cemented, some lignite and p	EXP
P-9UN	ACUX	08-OCT-87	0	0.5	FILL	CH	1	ASTM CODE INAPPROPRIATE, LOGGING COMPANY WAS HARGIS AND ASSOC	IRP
P-9UN	ACUX	08-OCT-87	0.5	2	STCL	CL	1	BROWN, MODERATELY COHESIVE, SLIGHTLY PLASTIC.	IRP
P-9UN	ACUX	08-OCT-87	2	7	STCL	SM	1	GRAYISH ORANGE, NONCOHESIVE, NONPLASTIC, FINE TO VERY COARSE GR	IRP
P-9UN	ACUX	08-OCT-87	7	27	STCL	ML	1	YELLOWISH ORANGE, SLIGHTLY COHESIVE, NONPLASTIC, TRACE MEDIUM T	IRP
P-9UN	ACUX	08-OCT-87	27	36	GVST	GP	1	VARICOLORED, GRAVEL IS FINE TO COARSE GRAINED, SUBANGULAR TO SUB	IRP
P-9UN	ACUX	08-OCT-87	36	63	LSCL	NACM	3	GRAY, HARD, BRITTLE, FOSSILIFEROUS. CLAY IS INTERBEDDED, GRAY, SLIGH	IRP
P-9UN	ACUX	08-OCT-87	63	82	STCL	NACM	4	INTERBEDDED SILT, SAND, AND CLAY. GRAY, SAND IS VERY FINE GRAINED,	IRP
P-9UN	ACUX	08-OCT-87	82	109	SS	NACM	4	WHITE TO VERY LIGHT GRAY, VERY FINE TO MEDIUM GRAINED, WELL ROUN	IRP
P-9UN	ACUX	08-OCT-87	109	112	SDCL	NACM	4	MEDIUM GRAY, COHESIVE, SLIGHTLY PLASTIC, SAND IS VERY FINE GRAINED,	IRP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-9US	ACUX	06-OCT-87	0	6	FILL	CL	1	LOGGING COMPANY WAS HARGIS AND ASSOCIATES. RED BROWN, MOIST, C	IRP
P-9US	ACUX	06-OCT-87	6	18	STCL	ML	1	BROWN TO RED-BROWN, SLIGHTLY MOIST TO MOIST, BRITTLE.	IRP
P-9US	ACUX	06-OCT-87	18	24	STCL	ML	1	ORANGE BROWN, SLIGHTLY MOIST, BRITTLE, SOME LIMONITE STAINS, CONT	IRP
P-9US	ACUX	06-OCT-87	24	35	SHLE	NACM	2	GRAY-BROWN, DRY, BRITTLE, SOME LIMONITE STAINS, FISSILE.	IRP
P-9US	HARG	06-OCT-87	35	39.5	LS	NACM	3	SHALEY, NO OTHER DESCRIPTION ON LOG.	IRP
P-9US	HARG	06-OCT-87	39.5	62	LS	NACM	3	FOSSILIFEROUS, NO OTHER DESCRIPTION ON LOG.	IRP
P-9US	ACUX	06-OCT-87	62	118	SS	NACM	4	Hole abandoned from original TD of 118 to 73 feet. GRAY, FINE GRAINED, POO	IRP
PZ-1		10/21/93	0	5	FILL	NACM	0	Fill, rock base, calc. limestone fragments, wet(moist).	PAR
PZ-2		10/20/93	0	5	FILL	NACM	0	Fill, rock base, calc. limestone fragments, dry.	PAR
PZ-5		10/20/93	0	2.5	FILL	NACM	0	Fill, rock base, calc. limestone fragments.	PAR
PZ-5		10/20/93	2.5	5	CLAY	CL	1	Silty Clay, tan, calc, dry.	PAR
PZ-6		10/21/93	0	2	FILL	NACM	0	Fill, rock base calc. limestone fragments.	PAR
PZ-6		10/21/93	2	5	CLAY	CL	1	Silty Clay, tan, calc, dry.	PAR
PZ-7		10/25/93	0	4	FILL	NACM	0	Fill, rock base, calc. limestone.	PAR
PZ-7		10/25/93	4	5	CLAY	CL	1	Silty Clay, tan, calc.	PAR
RR-1	HARG	20-SEP-89	0	2	STCL	CL	1	Silty clay, greyish brown, 5 YR 3/2, moderately cohesive, moderately plastic, slig	EXP
RR-1	HARG	20-SEP-89	2	3.5	GVST	GM	1	Gravelly silt, light brown, 5 YR 5/6, friable, slightly moist, gravel is white, N9, fin	EXP
RR-1	HARG	20-SEP-89	3.5	6	CLAY	CL	1	Clay, dusky brown, 5 YR 2/2, dense, slightly moist, blocky, hard, some caliche n	EXP
RR-1	HARG	20-SEP-89	6	12	STCL	ML	1	Clayey silt, light to moderate brown, 5 YR 5/6 to 5 YR 4/4, moderately cohesive,	EXP
RR-1	HARG	20-SEP-89	12	14.5	SDSL	SM	1	Silty sand, light brown, 5 YR 5/6, slightly moist, sand is very fine grained; silt is	EXP
RR-1	HARG	20-SEP-89	14.5	17	SD	SP	1	Sand, light brown, 5 YR 6/4, moist, very fine to fine grained, subrounded, well s	EXP
RR-1	HARG	20-SEP-89	17	21	SDGR	GP	1	Sandy gravel, varicolored, moist, gravel is fine to medium grained consisting of li	EXP
RR-2	HARG	20-SEP-89	0	6	STCL	CLML	1	Silty clay/clayey silt, moderate brown, 5 yR 3/4 to 5 YR 4/4, slightly moist, mod	EXP
RR-2	HARG	20-SEP-89	6	9.5	STCL	ML	1	Clayey silt, moderate yellowish brown, 10 YR 3/4, moist, moderately cohesive,	EXP
RR-2	HARG	20-SEP-89	9.5	14.5	SDSL	SM	1	Sandy silt, light brown, 5 YR 5/6, moist, sand is very fine grained, silt is noncohe	EXP
RR-2	HARG	20-SEP-89	14.5	17.5	SDSL	SM	1	Silty sand, greyish orange, 10 YR 7/4, moist, sand is very fine grained, silt is non	EXP
RR-2	HARG	20-SEP-89	17.5	22.5	SDGR	SP	1	Gravelly sand, varicolored, moist, sand is fine to coarse grained, gravel is fine to	EXP
RR-2	HARG	20-SEP-89	22.5	25.5	SD	SP	1	Sand, light brown, 5 YR 6/4, very fine to fine grained, well sorted, saturated at 2	EXP
RR-2	HARG	20-SEP-89	25.5	26	SDGR	GP	1	Sandy gravel, varicolored, fine to coarse grained weathered limestone and oyster	EXP
RR-3	HARG	20-SEP-89	0	17.5	STCL	ML	1	Clayey silt, greyish brown to light brown, 5 YR 3/2 to 5 YR 5/6, moist, moderate	EXP
RR-3	HARG	20-SEP-89	17.5	24.5	SDSL	SM	1	Silty sand, greyish orange, 10 YR 7/4, slightly moist, very fine to fine grained, no	EXP
RR-3	HARG	20-SEP-89	24.5	25	GVST	GPML	1	Sandy gravel/clayey silt, varicolored, moist, gravel is fine to medium grained, sub	EXP
RR-3	HARG	20-SEP-89	25	26	STCL	ML	1	Clayey silt, light brown, 5 YR 5/6, moist, moderately cohesive, moderately plasti	EXP
RR-3	HARG	20-SEP-89	26	31	SD	SP	1	Sand, greyish orange, 10 YR 7/4, moist, fine to medium grained, subrounded, w	EXP
RR-4	HARG	20-SEP-89	0	7.5	STCL	ML	1	Clayey silt, dusky brown to moderate brown, 5 YR 2/2 to 5 YR 4/4, slightly mois	EXP
RR-4	HARG	20-SEP-89	7.5	25	SD	SP	1	Sand, greyish orange, 10 YR 7/4, slightly moist, very fine to fine grained, well so	EXP
RR-4	HARG	20-SEP-89	25	31	SDSL	SM	1	Silty sand, greyish orange, 10 YR 7/4, damp, sand is very fine to fine grained; sil	EXP
RR-5	HARG	21-SEP-89	0	1.5	GVCL	GC	1	Sandy, gravelly clay, dusky brown to moderate brown, 5 YR 4/4, slightly moist,	EXP
RR-5	HARG	21-SEP-89	1.5	7.5	GVCL	GM	1	Clayey, silty gravel, moderate brown, 5 YR 4/4, slightly moist, gravel is fine grai	EXP
RR-5	HARG	21-SEP-89	7.5	10.5	SDSL	ML	1	Sandy, clayey silt, dusky brown, 5 YR 2/2, slightly moist, slightly cohesive, sligh	EXP
RR-5	HARG	21-SEP-89	10.5	16	SDSL	SM	1	Silty sand, dark yellowish orange, 10 YR 6/6, slightly moist, sand is very fine- to	EXP
RR-5	HARG	21-SEP-89	16	17.5	STCL	ML	1	Silty, sandy clay, dusky yellowish brown, 10 YR 2/2, slightly moist, moderately	EXP
RR-5	HARG	21-SEP-89	17.5	22	SD	SP	1	Sand, greyish orange, 10 YR 7/4, slightly moist, very fine- to fine-grained.	EXP
RR-5	HARG	21-SEP-89	22	27.5	SDSL	SM	1	Silty sand, greyish orange, 10 YR 7/4, moist, sand is very fine to fine grained; sil	EXP
RR-6	HARG	21-SEP-89	0	4.5	SDCL	CL	1	Silty clay with sand, greyish brown, 5 YR 3/2, dry, moderately cohesive, modera	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
RR-6	HARG	21-SEP-89	4.5	9.5	STCL	CL	1	Silty clay, moderate yellowish brown, 10 YR 5/4, slightly moist, moderately cohe	EXP
RR-6	HARG	21-SEP-89	9.5	15.5	SDSL	SM	1	Silty sand, moderate yellowish brown, 10 YR 5/4, slightly moist, sand is very fin	EXP
RR-6	HARG	21-SEP-89	15.5	21	STCL	ML	1	Clayey silt, light brown, 5 yr 5/6, slightly moist, slightly plastic, noncohesive to s	EXP
RR-6	HARG	21-SEP-89	21	27.5	STCL	ML	1	Silt with clay, light brown, 5 YR 5/6, slightly moist, slightly cohesive, nonplastic;	EXP
RR-6	HARG	21-SEP-89	27.5	37.5	STCL	ML	1	Clayey silt, light brown, 5 YR 5/6, moist, slightly cohesive, slightly plastic. Satur	EXP
RR-7	HARG	21-SEP-89	0	4.5	STCL	CL	1	Silty clay, greyish brown, 5 YR 3/2, slightly moist, moderately cohesive, moderat	EXP
RR-7	HARG	21-SEP-89	4.5	6	STCL	CL	1	Silty clay, moderate yellowish brown, 10 YR 5/4, slightly moist, moderately cohe	EXP
RR-7	HARG	21-SEP-89	6	10	STCL	ML	1	Clayey silt, dark yellowish orange to yellowish grey, 10 YR 6/6 to 5 Y 7/2, slight	EXP
RR-7	HARG	21-SEP-89	10	26	STCL	ML	1	Silt w/ clay, dark yellowish orange, 10 YR 6/6, slightly moist, noncohesive, nonp	EXP
RR-7	HARG	21-SEP-89	26	31	SILT	ML	1	Silt, dark yellowish orange, 10 YR 6/6, moist, slightly cohesive, nonplastic, some	EXP
RSB-02	HARG	01-OCT-87	0	5	CLAY	CH	1	Clay, red, 5 YR 4/2, very cohesive, very plastic.	EXP
RSB-02	HARG	01-OCT-87	5	7	GVST	ML	1	Red brown 5 YR 4/2, 50% silt, 20% sand, 30% gravel, silt is noncohesive/nonpl	EXP
RSB-02	HARG	01-OCT-87	7	9	CLAY	CH	1	Red brown, 5 YR 4/2, very cohesive, very plastic.	EXP
RSB-02	HARG	01-OCT-87	9	16	GVST	ML	1	Red brown, 5 YR 4/2, silt noncohesive, nonplastic; sand is subangular to subroun	EXP
RSB-02	HARG	01-OCT-87	16	19	CLAY	CH	1	Red brown, 5 YR 4/2, very cohesive, very plastic.	EXP
RSB-02	HARG	01-OCT-87	19	21	GVST	GM	1	Red brown 10 YR 5/4, silt is slightly cohesive, slightly plastic; gravel subrounded	EXP
RSB-02	HARG	01-OCT-87	21	25	CLAY	CH	1	Buff 10 YR 7/4 very plastic, very cohesive.	EXP
RSB-02	HARG	01-OCT-87	25	41	SDSL	SM	1	Yellow brown 10 YR 5/4 nonplastic, noncohesive; sand is fine- to very fine-grain	EXP
RSB-02	HARG	01-OCT-87	41	45	SDGR	SW	1	Varicolored, subrounded, medium- to very coarse-grained sand, medium-grained	EXP
RSB-02	HARG	01-OCT-87	45	45.5	LS		3	Gray (N 4 to N 8) angular brittle shards, abundant shell fragments. (Walnut Form	EXP
RSB-03	HARG	01-OCT-87	0	5	CLAY	CH	1	Red 5 YR 4/2, very cohesive, very plastic.	EXP
RSB-03	HARG	01-OCT-87	5	7	CLAY	CH	1	Buff, 10 YR 7/4, very plastic, very cohesive.	EXP
RSB-03	HARG	01-OCT-87	7	18.5	SDCL	CL	1	Gray orange, 10 YR 7/4, moderately cohesive, moderately plastic.	EXP
RSB-03	HARG	01-OCT-87	18.5	24.5	GVST	SM	1	Red brown, 5 YR 4/2, silt is slightly plastic, slightly cohesive.	EXP
RSB-03	HARG	01-OCT-87	24.5	26	SDSL	SM	1	Yellow brown, 10 YR 5/4, nonplastic, noncohesive; sand is well rounded, very fi	EXP
RSB-03	HARG	01-OCT-87	26	28.5	SDGR	GP	1	Varicolored, subrounded, sand is fine- to very coarse-grained, gravel is fine- to m	EXP
RSB-03	HARG	01-OCT-87	28.5	29	CLAY	CL	1	Buff, 10 YR 7/4, very plastic, very cohesive.	EXP
RSB-03	HARG	01-OCT-87	29	40	SDSL	SM	1	Yellow brown, 10 YR 5/4, nonplastic, noncohesive, sand is very fine-grained to	EXP
RSB-03	HARG	01-OCT-87	40	45	SDGR	GP	1	Varicolored, well rounded to subrounded grains, medium to very coarse sand, me	EXP
RSB-03	HARG	01-OCT-87	45	45.5	LS		3	Fossiliferous Limestone, Gray N 4 to N 7, brittle angular shards, Walnut Formatio	EXP
RSB-04	HARG	01-OCT-87	0	7	SDCL	CL	1	Red brown, 5 YR 4/2, moderately plastic, cohesive; sand is white, subangular, m	EXP
RSB-04	HARG	01-OCT-87	7	12	SDSL	SM	1	Buff, 10 YR 5/4, slightly cohesive, slightly plastic; sand is very fine-grained, well	EXP
RSB-04	HARG	01-OCT-87	12	26	STCL	CL	1	Buff, gray orange, 10 YR 7/4, moderately cohesive, plastic; small sand stringer a	EXP
RSB-04	HARG	01-OCT-87	26	33	SDSL	SM	1	Red brown, 5 YR 4/2, nonplastic; sand is very fine-grained, well rounded.	EXP
RSB-04	HARG	01-OCT-87	33	37	SDGR	SP	1	Varicolored; sand is subrounded, medium- to very coarse-grained; gravel is subro	EXP
RSB-04	HARG	01-OCT-87	37	44.5	SDGR	SP	1	Varicolored, subrounded, fine- to very coarse sand and gravel.	EXP
RSB-04	HARG	01-OCT-87	44.5	45	LS		3	Fossiliferous Limestone, gray, N 4 to N 8, brittle angular shell fragments, Walnut	EXP
RSB-05	HARG	01-OCT-87	0	8	SDCL	CL	1	Silty Clay w/ coarse sand, red brown, 5 YR 4/2, moderately cohesive, slightly pla	EXP
RSB-05	HARG	01-OCT-87	8	12	GVL	GP	1	Gravel, varicolored, fine- to very coarse, angular to subangular fragments.	EXP
RSB-05	HARG	01-OCT-87	12	30	SILT	ML	1	Sandy silt, Buff, 10 YR 5/4, noncohesive, slightly plastic, sand, approximately 3	EXP
RSB-05	HARG	01-OCT-87	30	35	SDSL	SM	1	Silty Sand, Varicolored, sand is fine- to very coarse-grained, well rounded; silt is r	EXP
RSB-05	HARG	01-OCT-87	35	43.5	SDGR	SP	1	Gravelly Sand, Varicolored, subangular to subrounded grains, medium to very coa	EXP
RSB-05	HARG	01-OCT-87	43.5	48	LS		3	Fossiliferous Limestone, Gray, N 4 to N 8, brittle angular shell fragments, Walnut	EXP
RSB-05	HARG	01-OCT-87	48	58.5	LS		3	Massive Limestone, Gray, N 8, moderately cohesive, moderatley plastic; sand is	EXP
RSB-06	HARG	01-OCT-87	0	7	SDCL	CL	1	Silty clay w/ sand, Red brown, 5 YR 4/2, moderately cohesive, moderately plasti	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
RSB-06	HARG	01-OCT-87	7	26	SDCL	CL	1	Sandy, silty clay, Buff to red brown, 5 YR 4/2 to 10 YR 5/4, moderately cohesiv	EXP
RSB-06	HARG	01-OCT-87	26	36	SDSL	SM	1	Silty sand, Red brown, 5 YR 4/2, sand is fine-grained with some coarse grains; a	EXP
RSB-06	HARG	01-OCT-87	36	43.5	GVL	GP	1	Gravel, varicolored, subangular to subrounded grains, medium to very coarse.	EXP
RSB-06	HARG	01-OCT-87	43.5	44	LS		3	Fossiliferous Limestone, Gray, N 4 to N 8, brittle angular shell fragments, Walnut	EXP
RSB-08	HARG	01-OCT-87	0	9	SDSL	ML	1	Sandy Silt, Red brown, 5 YR 4/2, with varicolored grains, angular, medium to ver	EXP
RSB-08	HARG	01-OCT-87	9	40	SDCL	CL	1	Sandy, silty clay, Gray orange, 10 YR 7/4, moderately cohesive, slightly plastic;	EXP
RSB-08	HARG	01-OCT-87	40	51	SDGR	GP	1	Sandy gravel/gravelly sand, varicolored subrounded to subangular.	EXP
RSB-08	HARG	01-OCT-87	51	54	GVL	GW	1	Gravel, varicolored, subrounded, very coarse-grained.	EXP
RSB-08	HARG	01-OCT-87	54	57.5	LS		3	Fossiliferous limestone, Gray, N 7, brittle angular shell fragments, some very coa	EXP
RSB-08	HARG	01-OCT-87	57.5	66	SS	SC	4	Clayey sandstone, green gray, 5 G 6/1, approximately 80 percent sandstone, ver	EXP
RSB-08	HARG	01-OCT-87	66	74	CLAY	CH	4	Olive gray, 5 Y 4/1, very plastic, very cohesive, minor very fine sand.	EXP
RSB-08	HARG	01-OCT-87	74	79.5	SDCL	SC	4	Clayey sand, green gray, 5 G 6/1, very fine sand, approximately 90 percent, 10	EXP
RSB-10	HARG	01-OCT-87	0	5	CLAY	CH	1	Dark brown, 10 R 2/2, plastic, cohesive.	EXP
RSB-10	HARG	01-OCT-87	5	7	SDSL	ML	1	Sandy silt, Brown, 10 R 3/4, slightly cohesive, slightly plastic; approximately 20	EXP
RSB-10	HARG	01-OCT-87	7	44	SDCL	CL	1	Silty, sandy clay, Gray orange, 10 YR 7/4, moderately cohesive, moderately plas	EXP
RSB-10	HARG	01-OCT-87	44	45	SD	SW	1	Varicolored, subrounded, medium to very coarse-grained.	EXP
RSB-10	HARG	01-OCT-87	45	60.5	LS		3	Fossiliferous limestone, Gray, N 4 to N 7, brittle angular shell fragments, Walnut	EXP
RSB-10	HARG	01-OCT-87	60.5	63	CLAY	CH	4	Gray, N 5 to N 7, very plastic, very cohesive.	EXP
RSB-10	HARG	01-OCT-87	63	79	SDCL	SC	4	Interbedded sand and clay, Gray, N 5 to N 8, sand is very fine-grained, well roun	EXP
RSB-12	HARG	01-OCT-87	0	5	CLAY	CH	1	Black, N 2, very cohesive, very plastic.	EXP
RSB-12	HARG	01-OCT-87	5	11	SDSL	SM	1	Silty sand, silt is red brown, 5 YR 4/2, sand is approximately 60 percent, varicol	EXP
RSB-12	HARG	01-OCT-87	11	40	STCL	CL	1	Silty clay, gray orange, 10 YR 7/4, moderately plastic, moderately cohesive.	EXP
RSB-12	HARG	01-OCT-87	40	49.5	GVL	GP	1	Varicolored, medium- to very coarse-grained, subrounded to subangular.	EXP
RSB-12	HARG	01-OCT-87	49.5	51	CLAY	CH	3	Dark gray, N 3, plastic, cohesive, Walnut Formation.	EXP
RSB-12	HARG	01-OCT-87	51	58.25	LS		3	Interbedded Fossiliferous Limestone and clay, Gray, N 3 to N 8, limestone very h	EXP
RSB-12	HARG	01-OCT-87	58.25	60	SS	SC	4	Clayey sandstone, light gray, N 7, very fine-grained, well rounded, approximately	EXP
RSB-13	HARG	01-OCT-87	0	3	CLAY	CH	1	Black, N 3, very cohesive, very plastic.	EXP
RSB-13	HARG	01-OCT-87	3	33.5	STCL	CL	1	Silty clay/clay silt, gray orange, 10 YR 7/4, moderately plastic, moderately cohes	EXP
RSB-13	HARG	01-OCT-87	33.5	37	CLAY	CH	1	Gray orange, 10 YR 7/4, very cohesive, very plastic.	EXP
RSB-13	HARG	01-OCT-87	37	39	SD	SP	1	Varicolored, subrounded to rounded, fine to very coarse grains.	EXP
RSB-13	HARG	01-OCT-87	39	51	GVL	GP	1	Varicolored, subrounded to well rounded, medium- to very coarse-grained.	EXP
RSB-13	HARG	01-OCT-87	51	56.25	LS		3	Fossiliferous limestone, gray, N 5 to N 7, brittle angular shell fragments, Walnut	EXP
RSB-13	HARG	01-OCT-87	56.25	60	SS	SC	4	Clayey sandstone, gray, N 5 to N 7, sand is very well cemented, very fine-graine	EXP
RSB-14	HARG	01-OCT-87	0	7	CLAY	CH	1	Black, N 3, very cohesive, very plastic.	EXP
RSB-14	HARG	01-OCT-87	7	11	CLAY	CH	1	Olive brown, 5 Y 4/1, very cohesive, very plastic.	EXP
RSB-14	HARG	01-OCT-87	11	14	STCL	CL	1	Silty clay/clay silt, gray orange, 10 YR 7/4, moderately plastic, moderately cohes	EXP
RSB-14	HARG	01-OCT-87	14	21	GVL	GP	1	Varicolored, subangular to subrounded, medium- to very coarse-grained.	EXP
RSB-14	HARG	01-OCT-87	21	30	SDCL	CL	1	Sandy clay, yellow gray, 5 Y 8/1, slightly cohesive, nonplastic; sand approximate	EXP
RSB-14	HARG	01-OCT-87	30	37	LS		2	Tan, 5 YR 6/4, angular brittle fragments, Goodland limestone.	EXP
RSB-14	HARG	01-OCT-87	37	40	LS		3	Fossiliferous limestone, gray, N 5 to N 7, angular brittle shell fragments, Walnut	EXP
RSB-15	HARG	01-OCT-87	0	6	CLAY	CH	1	Black, N 3, very cohesive, very plastic.	EXP
RSB-15	HARG	01-OCT-87	6	11.5	STCL	CL	1	Silty clay/clay silt, gray orange, 10 YR 7/4, moderately cohesive, moderately pla	EXP
RSB-15	HARG	01-OCT-87	11.5	21	SDSL	ML	1	Sandy Silt, gray orange, 10 YR 7/4, plastic, cohesive; minor gravel, white, N 9, s	EXP
RSB-15	HARG	01-OCT-87	21	26	SDSL	ML	1	Sandy Silt, red brown, 5 YR 4/2, slightly plastic, noncohesive; sand is fine- to m	EXP
RSB-15	HARG	01-OCT-87	26	37.5	CLAY	CH	1	Gray orange, 10 YR 7/4, very plastic, very cohesive.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
RSB-15	HARG	01-OCT-87	37.5	53.5	SDGR	SW	1	Gravelly sand, varicolored, medium- to very coarse-grained sand and gravel, subr	EXP
RSB-15	HARG	01-OCT-87	53.5	56	LS		3	Fossiliferous limestone, gray, N 5 to N 7, angular brittle shell fragments, Walnut	EXP
RSB-15	HARG	01-OCT-87	56	64	SDCL	SC	4	Clayey sand, gray, N 6 to N 8, sand is very fine-grained, well rounded; clay is no	EXP
RSB-15	HARG	01-OCT-87	64	66	CLAY	CH	4	Gray, N 4 to N 6, very plastic, moderately cohesive.	EXP
RSB-17	HARG	01-MAR-88	0	4.5	STCL	CL	1	Silty clay, moderate brown, 5 YR 3/4, cohesive, moderately plastic, dry.	EXP
RSB-17	HARG	01-MAR-88	4.5	12.5	STCL	ML	1	Clayey silt, dusty brown, 5 YR 2/2, cohesive, plastic, very slightly damp, minor	EXP
RSB-17	HARG	01-MAR-88	12.5	17	SDCL	SC	1	Clayey, silty sand, red brown, 5 YR 4/4, slightly plastic, slightly cohesive, sand i	EXP
RSB-17	HARG	01-MAR-88	17	18	SDGR	GP	1	Gravelly sand, varicolored, gravel is very coarse, subangular, sand is fine- to coar	EXP
RSB-17	HARG	01-MAR-88	18	25.5	SDSL	SM	1	Silty sand, red brown, 5 YR 4/4, very fine-grained, subrounded, dry.	EXP
RSB-17	HARG	01-MAR-88	25.5	28	SDGR	GW	1	Sandy gravel, varicolored, moderately cemented, medium- to very coarse-grained	EXP
RSB-17	HARG	01-MAR-88	28	28.25	LS		3	Fossiliferous limestone, light gray, N2, dense, minor fossil fragments, Walnut For	EXP
RSB-20	HARG	01-MAR-88	0	7	STCL	CL	1	Silty clay, moderate brown, 5 YR 3/4, cohesive, nonplastic, moist.	EXP
RSB-20	HARG	01-MAR-88	7	11	GVCL	GC	1	Clayey gravel, varicolored, fine to coarse, angular to subrounded, oxidized; clay i	EXP
RSB-20	HARG	01-MAR-88	11	15	GVST	GM	1	Silty gravel, varicolored, fine to coarse, angular to subrounded; silt is light brown,	EXP
RSB-20	HARG	01-MAR-88	15	18	CLSN		2	Silty claystone, gray, N 5 to N 8, oxidized, dry.	EXP
RSB-20	HARG	01-MAR-88	18	18.01	LS		3	Dense limestone, very light gray to whitish, N 8 to N 9, no visible fossils, dry.	EXP
RSB-22	HARG	01-MAR-88	0	30	STCL	MLCL	1	Moderate brown, 5 YR 3/4, slightly cohesive, nonplastic, trace medium- to coars	EXP
RSB-22	HARG	01-MAR-88	30	30.5	SDGR	SP	1	Gravelly sand, light brown, 5 YR 6/4, sand is fine- to medium-grained; gravel is v	EXP
RSB-22	HARG	01-MAR-88	30.5	35.5	STCL	MLCL	1	Moderate brown, 5 YR 3/4, slightly cohesive, nonplastic, trace medium- to coars	EXP
RSB-22	HARG	01-MAR-88	35.5	40.5	SDSL	SM	1	Silty sand, light brown, 5 YR 6/4, sand is very fine- to fine-grained; moderately c	EXP
RSB-22	HARG	01-MAR-88	40.5	49	SDGR	SP	1	Varicolored, sand is fine- to medium-grained; gravel is fine to coarse, subangular	EXP
RSB-22	HARG	01-MAR-88	49	49.01	LS		3	Limestone, gray, N 6 to N 7, powdered, pulverized on auger teeth.	EXP
RSB-26	HARG	01-MAR-88	0	4	STCL	ML	1	Clayey silt, moderate brown to grayish brown, 5 YR 3/4 to 5 YR 3/2, slightly coh	EXP
RSB-26	HARG	01-MAR-88	4	5	STCL	ML	1	Clayey silt, at 4.0 - 5.0 feet, trace gravel.	EXP
RSB-26	HARG	01-MAR-88	5	9.5	GVST	GM	1	Gravelly silt, light brown, 5 YR 5/3, but calcification of soil horizons give a whitis	EXP
RSB-26	HARG	01-MAR-88	9.5	15	SDGR	GC	1	Gravelly sand, light brown, 5 YR 5/6, sand and gravel are very fine-grained; mino	EXP
RSB-26	HARG	01-MAR-88	15	32	SDGR	GM	1	Silty, gravelly sand, lt. brn, 5 YR 5/6, slightly cohesive, sand-very fine-grained; si	EXP
RSB-26	HARG	01-MAR-88	32	32.01	LS		3	Fossiliferous limestone, medium light gray to light gray, N 6 to N 7, dense, oyste	EXP
RSB-27	HARG	01-MAR-88	0	3	GVCL	CL	1	Silty clay w/ gravel, dark dusty red, 10 YR 2/2, very slightly damp, stiff, slightly	EXP
RSB-27	HARG	01-MAR-88	3	19	STCL	ML	1	Clayey silt, light brown, 5 YR 6/4, slightly damp, slightly cohesive, nonplastic.	EXP
RSB-27	HARG	01-MAR-88	19	21	SDSL	ML	1	Gravelly, sandy silt, light brown, 5 YR 5/6, sand is very fine to very coarse, varic	EXP
RSB-27	HARG	01-MAR-88	21	26.5	STCL	ML	1	Clayey silt, gray orange, 10 YR 7/4, slightly damp, hard, moderately cohesive, sli	EXP
RSB-27	HARG	01-MAR-88	26.5	29.5	SDSL	SM	1	Silty sand, light brown, 5 YR 5/6, sand is very fine- to fine-grained, well rounded	EXP
RSB-27	HARG	01-MAR-88	29.5	29.51	LS		2	Limestone, yellow gray, 5 Y 8/1, dense, minor fossils, dry, Goodland Formation.	EXP
RSB-28	HARG	01-MAR-88	0	2.5	GVCL	CL	1	Dusty red, 10 R 2/2, firm, very slightly damp, moderately plastic, moderately co	EXP
RSB-28	HARG	01-MAR-88	2.5	29.5	STCL	ML	1	Clayey silt, light brown, 5 YR 6/4, slightly damp, moderately cohesive, slightly pl	EXP
RSB-28	HARG	01-MAR-88	29.5	31	SDSL	SM	1	Silty sand, light brown, 5 YR 5/6, sand is very fine- to fine-grained, well rounded	EXP
RSB-28	HARG	01-MAR-88	31	39.5	SDGR	SP	1	Silty gravelly sand, varicolored, sand and gravel very fine- to very coarse-grained,	EXP
RSB-28	HARG	01-MAR-88	39.5	40.5	CLAY	CL	1	Layer of clay.	EXP
RSB-28	HARG	01-MAR-88	40.5	45	SDSL	SM	1	Silty sand, yellow brown, 5 YR 6/6, sand is fine- to medium-grained, well rounde	EXP
RSB-28	HARG	01-MAR-88	45	48.5	SDGR	GP	1	Sandy gravel with cobbles, varicolored, sand is fine- to very coarse-grained, suba	EXP
RSB-28	HARG	01-MAR-88	48.5	51.5	STCL	CL	1	Silty clay, gray orange, 10 YR 7/4, dense, hard, very plastic, very cohesive.	EXP
RSB-28	HARG	01-MAR-88	51.5	52	LS		3	Fossiliferous limestone, gray, N 4 to N 7, brittle angular shell fragments, Walnut	EXP
RSB-30	HARG	01-MAR-88	0	2	STCL	CL	1	Silty clay, dusty red, 10 R 2/2, firm, dry, moderately cohesive, moderately plasti	EXP
RSB-30	HARG	01-MAR-88	2	18.5	STCL	ML	1	Clayey silt, light brown, 5 YR 6/4, dry, moderately cohesive, slightly plastic, stiff	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
RSB-30	HARG	01-MAR-88	18.5	28	SDGR	GP	1	Silty, sandy gravel, varicolored, sand is very fine to very coarse, gravel is fine to	EXP
RSB-30	HARG	01-MAR-88	28	29.5	SDSL	SM	1	Silty sand/sandy silt, light brown, 5 YR 5/6, saturated, sand is very fine- to fine-	EXP
RSB-30	HARG	01-MAR-88	29.5	33	STCL	SC	1	Silty clay, pale red brown, 10 YR 5/4 hard, cohesive, plastic.	EXP
RSB-30	HARG	01-MAR-88	33	46	SDSL	SM	1	Sandy silt, red orange, 10 R 6/6, 80% silt, 20% sand, sand is very fine-grained,	EXP
RSB-30	HARG	01-MAR-88	46	50.5	SDGR	GP	1	Sandy gravel, varicolored, shell fragments, subangular to subrounded, sand is me	EXP
RSB-30	HARG	01-MAR-88	50.5	50.75	LS		3	Fossiliferous limestone, gray, N 4 to N 8, angular shell fragments, very hard, Wal	EXP
RSB-34	HARG	01-DEC-88	0	1	SDSL	SM	1	Silty sand, moderate reddish brown, 10 YR 4/6, dry; sand is fine- to medium-grai	EXP
RSB-34	HARG	01-DEC-88	1	3	SDGR	SP	1	Gravelly sand, pale yellow brown, 10 YR 6/2, white pebbles, cobbles and sandst	EXP
RSB-34	HARG	01-DEC-88	3	8	LS		1	Limestone, very pale orange, 10 YR 8/2, dry, friable in places, possible cobble.	EXP
RSB-34	HARG	01-DEC-88	8	10	GVCL	CL	1	Clay w/ gravel, moderate yellowish brown, 10 YR 5/4, slightly cohesive, moderat	EXP
RSB-34	HARG	01-DEC-88	10	13	SDCL	CL	1	Sandy clay, grayish orange, 10 YR 7/4, medium to coarse sand, slightly cohesive	EXP
RSB-34	HARG	01-DEC-88	13	20	GVCL	CL	1	Dusky yellowish brn, 10 YR 2/2, slightly moist, moderately plastic w/ gravel cob	EXP
RSB-34	HARG	01-DEC-88	20	23	GVCL	GC	1	Gravel w/ silt and clay, pale yellowish brown, 10 YR 6/2, medium to coarse sand	EXP
RSB-34	HARG	01-DEC-88	23	26.5				No data recorded on log sheet. Data omitted.	EXP
RSB-34	HARG	01-DEC-88	26.5	27	CLAY	CL	1	Dark yellowish brown, 10 YR 4/2, some gravel, plastic, moist, some roots.	EXP
RSB-34	HARG	01-DEC-88	27	28	GVL	GW	1	Moderate yellowish brown, 10 YR 54, cemented shells and shell fragments, angu	EXP
RSB-35	HARG	01-DEC-88	0	0.5	CLAY	CL	1	Moderate brown, 5 YR 3/4, roots, some coarse sand, slightly moist, moderately	EXP
RSB-35	HARG	01-DEC-88	0.5	1	SDCL	CL	1	Gravelly clay w/ sand, grayish orange, 10 YR 7/4, loose, dry.	EXP
RSB-35	HARG	01-DEC-88	1	3.5	LS		1	Very pale orange, 10 YR 8/2 dry, coarse fragments, friable in places, dry.	EXP
RSB-35	HARG	01-DEC-88	3.5	4	STCL	ML	1	Grayish orange, 10 YR 7/4 slightly moist, slightly plastic.	EXP
RSB-35	HARG	01-DEC-88	4	15	GVCL	CL	1	Gravelly clay, moderate brown, 5 YR 4/4, increased gravel and sand at 10 feet,	EXP
RSB-35	HARG	01-DEC-88	15	35.5	SDSL	SM	1	Grayish orange 10YR7/4-pale yellowish orange 10YR8/6 very uniform, med. san	EXP
RSB-36	HARG	01-DEC-88	0	1	CLAY	CL	1	Dusky yellowish brown, 10 YR 2/2, moderately plastic, moderately cohesive, 10	EXP
RSB-36	HARG	01-DEC-88	1	1.5	LS		1	Very pale orange, 10 YR 8/2, cobble.	EXP
RSB-36	HARG	01-DEC-88	1.5	2	GVCL	CL	1	Gravelly clay, grayish orange, 10 YR 7/4, moderately plastic, cohesive, 50% coa	EXP
RSB-36	HARG	01-DEC-88	2	10	SDGR	SW	1	Gravelly sand, grayish orange to dark yellowish orange, 10 YR 7/4 to 10 YR 6/6,	EXP
RSB-36	HARG	01-DEC-88	10	12	SD	SP	1	Dark yellowish orange, 10 YR 6/6, uniform, coarse sand, wet.	EXP
RSB-36	HARG	01-DEC-88	12	15	SDGR	SW	1	Gravelly sand, dark yellowish orange, 10 YR 6/6.	EXP
RSB-36	HARG	01-DEC-88	15	16	SDGR	GP	1	Sandy gravel, dark yellowish orange, 10 YR 6/6, 50 to 60% coarse gravel, 40 to	EXP
RSB-36	HARG	01-DEC-88	16	17	CLAY	CL	1	Moderate yellowish brown, 10 YR 5/4, plastic, cohesive, mottled coloring rust an	EXP
RSB-36	HARG	01-DEC-88	17	17.5	CLAY	CL	1	Dusky yellowish brown, 10 YR 2/2, very plastic, cohesive, slightly moist.	EXP
RSB-36	HARG	01-DEC-88	17.5	18	SHLE		3	Medium gray, N6 to N5, slightly friable, fissile.	EXP
RSB-37	HARG	01-DEC-88	0	1	CLAY	CL	1	Dark yellowish brown, 10 YR 4/2, plastic, poorly cohesive, some white gravel, 1	EXP
RSB-37	HARG	01-DEC-88	1	3	GVCL	CL	1	Gravelly clay, moderate yellowish brown, 10 YR 5/4, plastic, poorly cohesive, gr	EXP
RSB-37	HARG	01-DEC-88	3	3.5	SDSL	SM	1	Sand w/ silt, grayish orange, 10 YR 7/4, fine- to medium-grained sand, loose, dry	EXP
RSB-37	HARG	01-DEC-88	3.5	7	GVCL	CL	1	Gravelly, sandy clay, moderate brown, 5 YR 3/4, 30% clay; 20% sand; 50% gra	EXP
RSB-37	HARG	01-DEC-88	7	8.5	CLAY	CL	1	Dark yellowish brown, 10 YR 4/2, moderately plastic, noncohesive, dry.	EXP
RSB-37	HARG	01-DEC-88	8.5	13	GVCL	CL	1	Clay to gravelly clay, olive gray, 5 Y 4/1, with mottled white, dark yellowish ora	EXP
RSB-37	HARG	01-DEC-88	13	20	CLAY	CL	1	Grayish orange, 10 YR 7/4, and pale yellowish brown, 10 YR 6/2, very dry, nonp	EXP
RSB-37	HARG	01-DEC-88	20	20.5	SHLE		3	Medium light gray, N6 to N5, dense, fissile, dry.	EXP
RSB-38	HARG	01-DEC-88	0	1	CLAY	CL	1	Dark yellowish brown, 10 YR 4/2, moderately plastic, poorly cohesive, some whi	EXP
RSB-38	HARG	01-DEC-88	1	4	GVCL	CL	1	Very pale orange, 10 YR 8/2, to grayish orange, 10 YR 7/4, cohesive, dense clay	EXP
RSB-38	HARG	01-DEC-88	4	6	SDGR	SW	1	Silty sand w/ gravel, moderate brown, 5 YR 4/4, 30% gravel, 60 to 70% sand;	EXP
RSB-38	HARG	01-DEC-88	6	18	GVCL	CL	1	Mod.brn, 5YR4/4, grading to mod. yellowish brn, 10YR5/4, to pale yellowish brn	EXP
RSB-38	HARG	01-DEC-88	18	23	CLAY	CL	1	Dusky yellowish brown, 10 YR 2/2, moderately plastic, noncohesive, slightly moi	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
RSB-38	HARG	01-DEC-88	23	28	GVCL	CLSC	1	Gravelly clay w/ sand lenses, dark yellowish brown, 10 YR 4/2, plastic, noncohe	EXP
RSB-38	HARG	01-DEC-88	28	41.5	SD	SP	1	Moderate yellowish brown, 10 YR 5/4, uniform, fine to medium sand with 10 per	EXP
RSB-38	HARG	01-DEC-88	41.5	42	LS		3	Cemented shell fragment.	EXP
RSB-39	HARG	01-DEC-88	0	2	GVCL	CL	1	Gravelly clay, dusky yellowish brown, 10 YR 2/2, moderately plastic, noncohesiv	EXP
RSB-39	HARG	01-DEC-88	2	6.5	STCL	ML	1	Dusky yellowish brown, 10 YR 2/2, moderately plastic, noncohesive, "earthy", d	EXP
RSB-39	HARG	01-DEC-88	6.5	9	GVST	SM	1	Sandy silt w/ gravel, pale yellowish brown, 10 YR 6/2, 10 to 20 percent gravel;	EXP
RSB-39	HARG	01-DEC-88	9	16	SDGR	SMSC	1	Silty sand w/ clay & gravel, moderate yellowish brown, 10 YR 5/4, 50% fine san	EXP
RSB-39	HARG	01-DEC-88	16	33	SDSL	SM	1	Silty sand, light brown, 5 YR 5/6, uniform fine sand, 30 percent silt, increasing g	EXP
RSB-39	HARG	01-DEC-88	33	40	GVL	GP	1	Light brown, 5 YR 5/6, 50% gravel; 30% sand; 20% silt & clay, poorly sorted, s	EXP
RSB-40	HARG	01-DEC-88	0	2	CLAY	CL	1	Moderate brown, 5 YR 3/4, moderately plastic, noncohesive, some gravel, 10 to	EXP
RSB-40	HARG	01-DEC-88	2	15	SDGR	SM	1	Silty sand w/ clay & gravel, grayish orange, 10YR7/4, w/ mod. brn, 5YR4/4, clay	EXP
RSB-40	HARG	01-DEC-88	15	16	GVCL	CL	1	Gravelly clay, medium light gray, N6-N5, plastic, 20 percent poorly sorted gravel,	EXP
RSB-40	HARG	01-DEC-88	16	24	SDGR	GM	1	Gravel w/ sand & clay, dark yellowish brown, 10 YR 4/2, poorly sorted, subroun	EXP
RSB-40	HARG	01-DEC-88	24	27	SD	SP	1	Pale yellowish brown, 10 YR 6/2, uniform medium to coarse sand, with interbed	EXP
RSB-40	HARG	01-DEC-88	27	28	LS		3	Dark yellowish orange, 10 YR 6/6, weathered, dense limestone, fragments with	EXP
RSB-41	HARG	01-DEC-88	0	2	STCL	ML	1	Sandy silt w/ gravel & clay, moderate red brown, 5 YR 4/4, 20% gravel; 40% sa	EXP
RSB-41	HARG	01-DEC-88	2	4				No Recovery.	EXP
RSB-41	HARG	01-DEC-88	4	5	STCL	CL	1	Silty clay, dusky yellowish brown, 10 YR 2/2, plastic, noncohesive, dry.	EXP
RSB-41	HARG	01-DEC-88	5	9	SDSL	SC	1	Gravelly sand w/ silt & clay, very pale orange, 10 YR 8/2, 20-30% gravel, limest	EXP
RSB-41	HARG	01-DEC-88	9	12	GVCL	CL	1	Gravelly clay, varicolored, grayish orange, 10 YR 7/4, plastic, noncohesive, 10%	EXP
RSB-41	HARG	01-DEC-88	12	18.5	GVCL	CL	1	Clay w/ gravel, pale yellowish brown, 10 YR 6/2, from 12-13 ft, dusky brown, 5	EXP
RSB-41	HARG	01-DEC-88	18.5	26	SDCL	SC	1	Gravelly sand w/ clay, moderate yellowish brown, 10 YR 5/4, 30% gravel; 50%	EXP
RSB-41	HARG	01-DEC-88	26	37.5	SDGR	GW	1	Dark yellowish orange, 10 YR 6/6, variable percentage gravel with uniform medi	EXP
RSB-41	HARG	01-DEC-88	37.5	38	LS		3	Moderate yellowish brown, 10 YR 5/4, weathered, shells in limestone.	EXP
RSB-42	HARG	01-DEC-88	0	1	CLAY	CL	1	No description.	EXP
RSB-42	HARG	01-DEC-88	1	4	SDGR	SW	1	Gravelly sand, white, pale orange, limestone gravel.	EXP
RSB-42	HARG	01-DEC-88	4	15	GVCL	GC	1	Sandy gravel w/ clay, no color, poorly sorted, subangular to subrounded, gravelly	EXP
RSB-42	HARG	01-DEC-88	15	35.5	SD	SP	1	Uniform, medium sand, increasing grain size at 32.0 feet. At 23 feet, wet.	EXP
RSB-43	HARG	01-DEC-88	0	4	CLAY	CL	1	Dark yellowish brown, 10 YR 4/2, plastic, uniform, "earthy", noncohesive, dry.	EXP
RSB-43	HARG	01-DEC-88	4	7	CLAY	CL	1	Moderate yellowish brown, 10 YR 6/6, similar to 1 to 4.0 feet clay, dry.	EXP
RSB-43	HARG	01-DEC-88	7	11	SDCL	CL	1	Gravelly clay w/ sand, light brown, 5 YR 5/6, 50% gravel; 10 to 20 % sand; 30	EXP
RSB-43	HARG	01-DEC-88	11	30	SDGR	SW	1	Lt brn, 5 YR 5/6, similar composition as interval from 7 to 11 ft, increasing sand,	EXP
RSB-43	HARG	01-DEC-88	30	33	SD	SP	1	Pale yellowish brown, 10 YR 6/2, uniform, fine sand, some silt, wet.	EXP
RSB-43	HARG	01-DEC-88	33	33.5	LS		3	Dark yellowish orange weathered shells and clay, poorly cemented, weathered.	EXP
RSB-44	HARG	01-DEC-88	0	1	CLAY	CL	1	Dusky yellowish brown, 10 YR 2/2, plastic, noncohesive, dry, roots.	EXP
RSB-44	HARG	01-DEC-88	1	2	GVCL	CL	1	Moderate brown, 5 YR 4/4, 10 percent gravel, medium pebbles, subrounded, pla	EXP
RSB-44	HARG	01-DEC-88	2	11	CLAY	CL	1	Dusky yellowish brown, 10 YR 2/2, plastic, noncohesive, dry, color change from	EXP
RSB-44	HARG	01-DEC-88	11	16	SDCL	SC	1	Pale yellowish brown, 10 YR 6/2, with dark yellowish orange, 10 YR 6/6, mottle	EXP
RSB-44	HARG	01-DEC-88	16	26.5	SD	SP	1	Dark yellowish orange, 10 YR 6/6, uniform, fine to medium sand, some silt, dry f	EXP
RSB-44	HARG	01-DEC-88	26.5	27	LS		3	Grayish orange, 10 YR 7/4, dense, slightly friable.	EXP
RSB-45	HARG	01-DEC-88	0	2.5	GVCL	CL	1	Gravelly clay, light brown, 5 YR 5/6, 20 percent gravel consisting of pebbles, co	EXP
RSB-45	HARG	01-DEC-88	2.5	9	SDCL	GC	1	Gravelly sand w/ clay, grayish orange, 10YR7/4, variable percent gravel, sand, cl	EXP
RSB-45	HARG	01-DEC-88	9	14	SDCL	ML	1	Silty clay w/ sand, light brown, 5 YR 5/6, with very pale orange (powery discolor	EXP
RSB-45	HARG	01-DEC-88	14	21	SD	SP	1	Light brown, 5 YR 5/6, uniform, fine, increased grain size medium to coarse at 2	EXP
RSB-45	HARG	01-DEC-88	21	30	SDGR	SW	1	Pale yellowish brown, 10 YR 6/2, 20% gravel; 70% sand; 10% fine, subangular	EXP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
RS8-45	HARG	01-DEC-88	30	31	LS		3	Light olive gray, 5Y 5/2, plastic, noncohesive shaley limestone, fissile to dense,	EXP
RSB-46	HARG	01-DEC-88	0	1	SDGR	SM	1	Silty sand w/ gravel, dusky yellowish brown, 10 YR 2/2, 20% gravel; 80% sand	EXP
RSB-46	HARG	01-DEC-88	1	5	GVCL	CL	1	Silty clay w/ gravel, moderate yellowish brown, 10 YR 5/4, with white coatings	EXP
RS8-46	HARG	01-DEC-88	5	24	CLAY	CL	1	Light brown, 5 YR 5/6, plastic, noncohesive, mottled pale yellowish brown, 10 Y	EXP
RS8-46	HARG	01-DEC-88	24	38	SD	SP	1	Light brown, 5 YR 5/6, uniform, fine sand, wet, increased grain size from 36 to	EXP
RS8-46	HARG	01-DEC-88	38	40.5	SDGR	GW	1	No description.	EXP
RS8-47	HARG	01-DEC-88	0	2.5	CLAY	CL	1	Grayish brown, 5 YR 3/2, plastic, noncohesive, slightly moist to dry.	EXP
RSB-47	HARG	01-DEC-88	2.5	11	SDCL	CL	1	Lt. brown, 5 YR 5/6, 10 to 20% sand; 60 to 80% clay, subrounded pebbles, fin	EXP
RS8-47	HARG	01-DEC-88	11	15	SDCL	ML	1	Sandy clay, light brown, 20 to 30%, 5 YR 5/6, plastic, noncohesive, fine to med	EXP
RS8-47	HARG	01-DEC-88	15	19	SDSL	SM	1	Sand w/ silt, light brown, 5 YR 5/6, uniform fine- to medium-grained sand, loose,	EXP
RS8-47	HARG	01-DEC-88	19	28	SD	SP	1	Light brown, 5 YR 5/6, uniform, fine to medium, to coarse, loose, wet at 20.0 fe	EXP
RSB-47	HARG	01-DEC-88	28	37.5	SDGR	GM	1	Grayish orange, 10 YR 2/4, 50 to 70% gravel; 10 to 20% sand; less than 10%	EXP
RS8-48	HARG	01-DEC-88	0	1.5	STCL	CL	1	Silty clay, dark brown, 5 YR 2/2, very plastic, cohesive, uniform.	EXP
RS8-48	HARG	01-DEC-88	1.5	4	SDSL	ML	1	Sandy silt, dark brown to moderate brown, 5 YR 3/4, slightly plastic, slightly coh	EXP
RSB-48	HARG	01-DEC-88	4	9	GVCL	CL	1	Gravelly clay, moderate brown, 5 YR 4/4, poor plasticity, noncohesive, poorly so	EXP
RSB-48	HARG	01-DEC-88	9	14.5	SD	SP	1	Dark yellowish orange, 10 YR 6/6, loose, uniform, fine to coarse, dry.	EXP
RSB-48	HARG	01-DEC-88	14.5	15	LS		3	Gray weathered with clay, fissile, dry.	EXP
RSB-49	HARG	01-DEC-88	0	1	CLAY	CL	1	Dusky yellowish brown, 10 YR 2/2.	EXP
RSB-49	HARG	01-DEC-88	1	3	STCL	ML	1	Sandy silt w/ clay, moderate brown, 5 YR 4/4.	EXP
RS8-49	HARG	01-DEC-88	3	4	SDSL	ML	1	Sandy silt, Moderate brown, 5 YR 3/4.	EXP
RSB-49	HARG	01-DEC-88	4	13	SDCL	SW	1	Gravelly sand w/ clay, pale yellowish brown, 10 YR 6/2, and sandy clay.	EXP
RSB-49	HARG	01-DEC-88	13	16.5	LS		3	Dense, shaley, dry.	EXP
RS8-50	HARG	01-DEC-88	0	0.5	STCL	CL	1	Clay w/ some silt, dark brown, 5 YR 2/2, very plastic, moderately cohesive, sligh	EXP
RSB-50	HARG	01-DEC-88	0.5	1	STCL	CL	1	Silty clay, moderate brown, 5 YR 4/4, moderately plastic, moderately to poorly c	EXP
RSB-50	HARG	01-DEC-88	1	6	GVCL	CL	1	Gravelly clay, light brown, 5 YR 5/6 to moderate reddish brown, 10 R 4/6, mode	EXP
RSB-50	HARG	01-DEC-88	6	7	SDCL	SC	1	Clayey sand, light brown, 5 YR 5/6, low plasticity, poorly cohesive, slightly mois	EXP
RS8-50	HARG	01-DEC-88	7	11	SD	SP	1	Light brown, 5 YR 5/6, loose, subrounded to very fine to fine sand, slightly moist	EXP
RSB-50	HARG	01-DEC-88	11	20.5	SDGR	SW	1	Sandy gravel, pale yellowish orange, 10 YR 8/6, loose, poorly sorted, well-round	EXP
RSB-50	HARG	01-DEC-88	20.5	21	CLAY	CL	1	Mostly yellowish gray, 5 Y 7/2, with pale olive, 10 Y 6/2, and dusky yellow, 5 Y	EXP
RSB-51	HARG	01-DEC-88	0	2	GVCL	CL	1	Gravelly, sandy clay, moderate brown, 5 YR 5/6, 10% gravel; 10 to 20% sand;	EXP
RS8-51	HARG	01-DEC-88	2	7	GVCL	CL	1	Gravelly clay, varicolored, moderate yellowish brn, 10 YR 5/4, grayish orange, 1	EXP
RS8-51	HARG	01-DEC-88	7	8	SDSL	SM	1	Moderate yellowish brown, 10 YR 5/4, 80% fine sand; 20% silt, uniform, slightl	EXP
RSB-51	HARG	01-DEC-88	8	13	GVCL	CL	1	Varicolored, same as from 2.0 to 7.0 feet, slightly moist, loose.	EXP
RSB-51	HARG	01-DEC-88	13	28	SD	SP	1	Light brown, 5 YR 6/4, uniform, fine to medium sand, moist from 13 to 19 feet,	EXP
RS8-51	HARG	01-DEC-88	28	28.5	LS		3	Dark yellowish with very pale orange, 10 YR 8/2, shells, cemented, weathered in	EXP
RS8-52	HARG	01-DEC-88	0	1	CLAY	CL	1	Dark yellowish brown, 10 YR 4/2, plastic, some gravel, roots, dense, moist.	EXP
RSB-52	HARG	01-DEC-88	1	4	SDSL	SM	1	Silty sand, varicolored, moderate brown, 5 YR 4/4, moderate yellowish brown, 1	EXP
RSB-52	HARG	01-DEC-88	4	5	STCL	ML	1	Dark yellowish brown, 10 YR 4/2, mottled pale yellowish brown, 10 YR 6/2, plas	EXP
RS8-52	HARG	01-DEC-88	5	9	SDCL	SC	1	Sand w/ silt and clay, grayish orange, 10 YR 7/4, increasing sand with depth, fin	EXP
RSB-52	HARG	01-DEC-88	9	12	SDGR	SW	1	Sand w/ gravel, moderate brown, 5 YR 4/4, 60% sand; 40% gravel, coarse sand	EXP
RS8-52	HARG	01-DEC-88	12	17.5	CLAY	CL	1	Yellowish gray, 5 Y 7/2, with pale olive, 10 Y 6/2 and dusky yellow, 5 Y 6/4, str	EXP
RS8-52	HARG	01-DEC-88	17.5	18	LS		3	Dusky yellow, 5 Y 6/4, dense, platey sandy.	EXP
RSB-53	HARG	01-DEC-88	0	2	GVCL	CL	1	Moderate brown, 5 YR 3/4, plastic, noncohesive, 10 to 20% small pebbles, root	EXP
RS8-53	HARG	01-DEC-88	2	4	SILT	ML	1	Dark yellowish brown, 10 YR 4/2, loose, dry.	EXP
RS8-53	HARG	01-DEC-88	4	13	STCL	CL	1	Clay w/ silt, dark yellowish brown, 10 YR 4/2, plastic, noncohesive, from 9 to 1	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
RSB-53	HARG	01-DEC-88	13	23	SD	SP	1	Pale yellow brown, 10 YR 6/2, uniform, medium sand, color change at 19 feet to	EXP
RSB-53	HARG	01-DEC-88	23	23.5	LS		3	Grayish orange, 10 YR 7/4, with shale, dense, weathered to plates.	EXP
RSB-54	HARG	01-DEC-88	0	4	CLAY	CL	1	Dusky yellowish brown, 10 YR 2/2, plastic, slightly cohesive, dense, slightly moi	EXP
RSB-54	HARG	01-DEC-88	4	8	GVCL	CL	1	Gravelly clay, varicolored, 10 YR 7/4, 6/6, 5/4, 50% gravel; 50% clay, poorly so	EXP
RSB-54	HARG	01-DEC-88	8	9	STCL	CL	1	Silty clay, dark yellowish orange, 10 YR 6/6, plastic, noncohesive, dense, slightl	EXP
RSB-54	HARG	01-DEC-88	9	15	SDCL	CL	1	Silty, sandy clay, dark yellowish orange, 10 YR 6/6, 40% sand and fines; 60% c	EXP
RSB-54	HARG	01-DEC-88	15	19	GVCL	CL	1	Sandy, gravelly clay, dark yellowish orange, 10 YR 6/6, 30% gravel; 20% sand;	EXP
RSB-54	HARG	01-DEC-88	19	20	GVCL	GC	1	Gravel w/ sand & clay, dark yellowish orange, 10 YR 6/6, 70% gravel; 30% san	EXP
RSB-54	HARG	01-DEC-88	20	24.5	LS		3	Very pale orange, 10 YR 8/2, platey, friable, dry.	EXP
RSB-55	HARG	01-DEC-88	0	2	CLAY	CL	1	Dark yellowish brown, 10 YR 4/2, plastic, noncohesive, dense, roots, slightly mo	EXP
RSB-55	HARG	01-DEC-88	2	4	GVCL	CL	1	Gravelly, sandy clay, moderate yellowish brown, 10 YR 5/4.	EXP
RSB-55	HARG	01-DEC-88	4	8	CLAY	CL	1	Dark yellowish orange, 10 YR 6/6, with mottled, white, chalky coatings on the p	EXP
RSB-55	HARG	01-DEC-88	8	15	SDSL	SM	1	Light brown, 5 YR 5/6, 70% sand; 30% silt, fine sand, slightly moist, loose.	EXP
RSB-55	HARG	01-DEC-88	15	27	SDGR	SW	1	Very pale orange, 10 YR 8/2, to grayish orange, 10 YR 7/4, very coarse sand, s	EXP
RSB-55	HARG	01-DEC-88	27	29	CLAY	CL	1	Yellowish gray, 5 Y 7/2, with pale olive, 10 Y 6/2 and dusky yellow, 5 Y 6/4, str	EXP
RSB-55	HARG	01-DEC-88	29	30	CLAY	CL	1	Limey clay, medium dark clay, N 5 to N 4, plastic, dense, platey with grayish oliv	EXP
RSB-56	HARG	01-DEC-88	0	0.5	STCL	CL	1	Silty clay w/ some gravel, grayish brown, 5 YR 3/2, slightly plastic, noncohesive,	EXP
RSB-56	HARG	01-DEC-88	0.5	1	GVCL	GC	1	Clayey gravel w/ some sand, dark yellowish orange, 10 YR 6/6, clay, slightly pla	EXP
RSB-56	HARG	01-DEC-88	1	1.5	SDSL	SM	1	Silty sand, moderate brown, 5 YR 3/4, very fine sand, subangular, slightly moist.	EXP
RSB-56	HARG	01-DEC-88	1.5	2	SD	SP	1	Dark yellowish brown, 10 YR 4/2, very fine, subangular, slightly moist.	EXP
RSB-56	HARG	01-DEC-88	2	9	GVCL	CL	1	Dk yellowish orange, 10YR6/6, w/ white limestone grvl, slightly plastic, noncohe	EXP
RSB-56	HARG	01-DEC-88	9	20	CLAY	CL	1	Dark yellowish orange, 10 YR 6/6, slightly plastic, slightly cohesive, slightly mois	EXP
RSB-56	HARG	01-DEC-88	20	21	SD	SP	1	Light brown, 5 YR 5/6, very fine-grained, subangular to angular, slightly moist.	EXP
RSB-56	HARG	01-DEC-88	21	41	SD	SP	1	Grayish orange, 10 YR 7/4, very moist, well sorted, medium to very coarse, from	EXP
RSB-56	HARG	01-DEC-88	41	42.5	GVCL	GC	1	Clayey gravel, No description.	EXP
RSB-57	HARG	01-DEC-88	0	1	GVCL	CL	1	Silty, sandy clay w/ some gravel, dark yellowish brown, 10 YR 4/2, plastic, sligh	EXP
RSB-57	HARG	01-DEC-88	1	1.5	CLAY	CL	1	Yellowish gray, 5 Y 7/2, nonplastic, noncohesive, moist, mottled with dark brow	EXP
RSB-57	HARG	01-DEC-88	1.5	2	GVCL	CL	1	Gravelly, sandy clay, mottled dark yellowish brown, 10 YR 4/2, w/ dark yellowis	EXP
RSB-57	HARG	01-DEC-88	2	3	CLAY	CL	1	Yellowish gray, 5 Y 7/2, nonplastic, noncohesive, moist, mottled with dark brow	EXP
RSB-57	HARG	01-DEC-88	3	4	STCL	CLML	1	Silty clay/clayey silt w/ some gravel, light brown, 5 YR 5/6, slightly plastic, nonc	EXP
RSB-57	HARG	01-DEC-88	4	6	STCL	CLML	1	Silty clay/clayey silt w/ some gravel, light brown, 5 YR 5/6, gravel increases to 2	EXP
RSB-57	HARG	01-DEC-88	6	10.5	GVST	GCSM	1	Silty sandy gravel, very pale orange, 10 YR 8/2, gravel 1/4 inch to 1 1/4 inch in	EXP
RSB-57	HARG	01-DEC-88	10.5	15.5	SDGR	GC	1	Clayey gravel w/ some sand, light brown, 5 YR 5/6, nonplastic, noncohesive, slig	EXP
RSB-57	HARG	01-DEC-88	15.5	19	CLAY	CL	1	Yellowish gray, 5 Y 7/2, with pale olive, 10 Y 6/2, and dusky yellow, 5 Y 6/4, st	EXP
RSB-57	HARG	01-DEC-88	19	20	LS		3	Yellowish gray, 5 Y 8/1, platey, dry.	EXP
RSB-58	HARG	01-DEC-88	0	1	CLAY	CL	1	Dark yellowish brown, 10 YR 4/2, plastic, noncohesive, slightly moist, 10 to 20	EXP
RSB-58	HARG	01-DEC-88	1	4	GVCL	CL	1	Gravelly clay, grayish orange, 10 YR 7/4, 20% gravel; 10% sand; 70% clay, pla	EXP
RSB-58	HARG	01-DEC-88	4	18	SDCL	CL	1	Grvly clay w/ sand, mod. yellowish brn, 10YR5/4, from 4-14 ft, lt brn, 5YR5/6 fr	EXP
RSB-58	HARG	01-DEC-88	18	35	GVCL	CL	1	Clayey sandy gravel, grayish orange, 10 YR 7/4, increased grain size, pebbles an	EXP
RSB-58	HARG	01-DEC-88	35	35.5	GVCL	CL	1	Gravelly clay, yellowish gray, 5Y 7/2, slightly moist.	EXP
RSB-58	HARG	01-DEC-88	35.5	36	LS		3	Weathered shelly limestone, oysters.	EXP
RSB-59	HARG	01-DEC-88	0	1	CLAY	CL	1	Dark yellowish brown, 10 YR 4/2, plastic, noncohesive, roots, slightly moist.	EXP
RSB-59	HARG	01-DEC-88	1	2	GVCL	CL	1	Gravelly clay, grayish orange, 10 YR 7/4, poorly sorted, weathered cobbles, shal	EXP
RSB-59	HARG	01-DEC-88	2	4	GVCL	CL	1	Gravelly clay, Dark yellowish brown, 10 YR 4/2, 10-40% gravel, subangular to s	EXP
RSB-59	HARG	01-DEC-88	4	8	GVCL	CL	1	Gravelly clay, Dusky yellowish brown, 10 YR 2/2, less gravel than from 2-4 feet,	EXP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
RSB-59	HARG	01-DEC-88	8	14	GVCL	CL	1	Silty clay w/ gravel, Dusky yellowish brown, 10 YR 2/2, 10% gravel, coarse san	EXP
RSB-59	HARG	01-DEC-88	14	18	GVCL	GC	1	Gravel w/ sand & clay, grayish orange, 10 YR 7/4, 50% gravel; 20% sand; 30%	EXP
RSB-59	HARG	01-DEC-88	18	29	SD	SP	1	Dark yellowish orange, 10 YR 6/6, uniform, fine sand from 18-22 feet, medium t	EXP
RSB-59	HARG	01-DEC-88	29	31	SDGR	GW	1	Gravel w/ sand, grayish orange, 10 YR 7/4, increasing grain size with depth, lime	EXP
RSB-60	HARG	01-DEC-88	0	1.5	GVCL	CL	1	Silty, sandy clay w/ gravel, dusky yellowish brown, 10 YR 2/2, nonplastic, nonc	EXP
RSB-60	HARG	01-DEC-88	1.5	6.5	STCL	CL	1	Silty clay w/ some sand, dusky yellowish brown, 10 YR 2/2, plastic, noncohesiv	EXP
RSB-60	HARG	01-DEC-88	6.5	11	STCL	CL	1	Silty clay, mottled colors, medium gray, N 5, and dark yellowish orange, 10 YR 6	EXP
RSB-60	HARG	01-DEC-88	11	19	STCL	CL	1	Gravelly clay w/ silt and sand, very light gray, N 8, slightly plastic, slightly cohesi	EXP
RSB-60	HARG	01-DEC-88	19	21	LS		3	Very light gray, N 8, shaley.	EXP
RSB-61	HARG	01-DEC-88	0	0.5	STCL	ML	1	Clayey silt w/ some sand and gravel, brownish black, 5 YR 2/1, moist.	EXP
RSB-61	HARG	01-DEC-88	0.5	1	STCL	CL	1	Silty clay w/ some sand and gravel, moderate yellowish brown, 10 YR 5/4, plasti	EXP
RSB-61	HARG	01-DEC-88	1	6.5	STCL	CL	1	Silty clay/clay w/ some silt, dusky brown, 5 YR 2/2, plastic, slightly cohesive, m	EXP
RSB-61	HARG	01-DEC-88	6.5	10	STCL	CL	1	Silty sandy clay w/ some gravel, moderate yellowish brown, 10 YR 5/4, nonplast	EXP
RSB-61	HARG	01-DEC-88	10	12	STCL	CL	1	Silty clay, light olive gray, 5 Y 5/2, slightly plastic, noncohesive, slightly moist to	EXP
RSB-61	HARG	01-DEC-88	12	16	GVCL	GC	1	Clayey gravel w/ some silt, No color, 1.4-inch to 1.2-inch limestone gravel, suba	EXP
RSB-61	HARG	01-DEC-88	16	19	SD	SP	1	Dark yellowish orange, 10 YR 6/6, well-sorted, very fine quartz sand.	EXP
RSB-61	HARG	01-DEC-88	19	22.5	SDGR	SW	1	Sandy gravel, dark yellowish orange, 10 YR 6/6, poorly sorted, 1/4 inch to 2 inc	EXP
RSB-62	HARG	01-DEC-88	0	3	CLAY	CL	1	Moderate brown, 5 YR 4/4.	EXP
RSB-62	HARG	01-DEC-88	3	5	GVCL	GC	1	Clayey gravel, moderate yellowish brown, 10 YR 5/4, with white chalky coated	EXP
RSB-62	HARG	01-DEC-88	5	12	SDCL	SC	1	Clayey sand, light brown, 5 YR 5/6, uniform, fine sand.	EXP
RSB-62	HARG	01-DEC-88	12	18	SD	SP	1	Moderate yellowish brown, 10 YR 5/4, uniform.	EXP
RSB-62	HARG	01-DEC-88	18	24	SDGR	GW	1	Gravel w/ sand, moderate yellowish brown, 10 YR 5/4, loose, 50% gravel; 30%	EXP
RSB-62	HARG	01-DEC-88	24	24.8	CLAY	CL	1	Yellowish gray, 5 Y 7/2, with pale olive, 10 Y 6/2, and dusky yellow, 5 Y 6/4, st	EXP
RSB-62	HARG	01-DEC-88	24.8	25	LS		3	Yellowish gray, 5 Y 7/2, dry, shaly.	EXP
RSB-63	HARG	01-DEC-88	0	0.5	SDSL	SM	1	Silty sand, dark yellowish brown, 10 YR 4/2, fine sand, loose, slightly moist, roo	EXP
RSB-63	HARG	01-DEC-88	0.5	10	GVCL	CL	1	Mod. brn,5YR4/4, w/ white chalky coated pebbles, weathered, 20% gravel; 20	EXP
RSB-63	HARG	01-DEC-88	10	11	SDSL	SM	1	Dark yellowish brown, 10 YR 6/6, 60% sand; 40% silt; uniform, fine sand, loose	EXP
RSB-63	HARG	01-DEC-88	11	19	SD	SP	1	Dark yellowish orange, 10 YR 6/6, fine sand, uniform, loose, dry from 14.0 to 1	EXP
RSB-63	HARG	01-DEC-88	19	26	SDGR	GM	1	Dark yellowish orange, 10 YR 6/6, 70% gravel; 20% sand; 10% fines, rounded t	EXP
RSB-65	HARG	01-DEC-88	0	4	CLAY	CL	1	Moderate brown, 5 YR 3/4, plastic, dense, slightly moist, gravel layer from 3 to	EXP
RSB-65	HARG	01-DEC-88	4	6	GVCL	CL	1	Gravelly clay w/ sand, dark yellowish brown, 10 YR 4/2, 20-30% gravel; 20% s	EXP
RSB-65	HARG	01-DEC-88	6	13	GVCL	CL	1	Gravelly clay w/ sand, dark yellowish brown, 10 YR 4/2, decrease in percent gra	EXP
RSB-65	HARG	01-DEC-88	13	17.5	GVCL	GC	1	Clayey gravel, mottled yellowish gray, 5 Y 7/2 to 5 Y 8/4, limestone.	EXP
RSB-66	HARG	01-DEC-88	0	0.5	STCL	ML	1	Silty clay w/ sand and gravel, dusky brown, 5 YR 2/2, slightly plastic, slightly no	EXP
RSB-66	HARG	01-DEC-88	0.5	1	STCL	ML	1	Silty clay, grayish yellow, 5 Y 8/4, slightly plastic, slightly cohesive, slightly mois	EXP
RSB-66	HARG	01-DEC-88	1	5	GVCL	GC	1	Clayey gravel and cobbles, very light gray, N 8, subangular to angular cobbles, le	EXP
RSB-66	HARG	01-DEC-88	5	5.5	GVCL	CL	1	Gravelly clay w/ silt, mottled dark yellowish orange, 10 YR 6/6, with dusky brow	EXP
RSB-66	HARG	01-DEC-88	5.5	9	STCL	ML	1	Silty clay w/ sand, dusky brown, 5 YR 2/2, slightly plastic, slightly cohesive, slig	EXP
RSB-66	HARG	01-DEC-88	9	12	STCL	ML	1	Sandy, silty clay, moderate brown, 5 YR 4/4, plastic, slightly cohesive, slightly	EXP
RSB-66	HARG	01-DEC-88	12	15.5	GVCL	GCCL	1	Clayey gravel/gravelly clay, moderate brown, 5 YR 4/4, nonplastic, noncohesive,	EXP
RSB-66	HARG	01-DEC-88	15.5	18	GVCL	GC	1	Clayey, sandy gravel, light brown, 5 YR 5/6, slightly plastic, slightly cohesive, sli	EXP
RSB-66	HARG	01-DEC-88	18	30	SDSL	SM	1	Silty sand, light brown, 5 YR 5/6, very fine, well-sorted, slightly moist.	EXP
RSB-66	HARG	01-DEC-88	30	33	SD	SP	1	Light brown, 5 YR 5/6, poorly sorted.	EXP
SB-001	CNGT	14-FEB-91	0	4	STCL	OL	1	Dark yellow-brown soil (10YR 4/4), very little sample recovery. Concrete blocke	BCH
SB-001	CNGT	14-FEB-91	4	10	CLAY	CL	1	Very little recovery core barrel plug dark yellow-brown (10YR 3/1) slightly moist	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-001	CNGT	14-FEB-91	10	14	FILL	CL	1	Clay with fine sands (app. 15%) dark to reddish brown (5YR 3/2). Some small t	BCH
SB-001	CNGT	14-FEB-91	14	15	FILL	CL	1	Very dark brown to black (10YR 2/2) clay with very few fine sands, trash and w	BCH
SB-001	CNGT	14-FEB-91	15	16	LS	NACM	2	Soft limestones, becoming denser with depth. Very pale brown (10YR 5/3).	BCH
SB-001	CNGT	14-FEB-91	16	16.3	LS	NACM	2	Dense limestone, very pale brown (no sample collected).	BCH
SB-002	CNGT	14-FEB-91	0	2	SDGR	GW	1	Grass and loose fill, dry small amount of brown loose gravel not enough recover	BCH
SB-002	CNGT	14-FEB-91	2	3	SD	SP	1	Brown to reddish brown (5YR 4/4) poorly graded course sand.	BCH
SB-002	CNGT	14-FEB-91	3	12	FILL	SC	1	Dark brown (7.5YR 4/4) cohesive, moist clay, slightly plastic, with gravel and c	BCH
SB-002	CNGT	14-FEB-91	12	14	STCL	SM	1	Reddish yellow fine (7.5YR 7/8) to medium sand grading to silt, same gravel and	BCH
SB-002	CNGT	14-FEB-91	14	15	SDGR	GW	1	Reddish yellow (7.5YR 7/8) course well graded gravel with sand and silt.	BCH
SB-002	CNGT	14-FEB-91	15	16	STCL	CL	1	Black (7.5YR 3/3), silty clay, moist with small amount of course sand (5%).	BCH
SB-002	CNGT	14-FEB-91	16	18	SDGR	GW	1	Reddish yellow (7.5YR 7/8), brown to dark gray (7.5YR 4/0) 50% coarse (1mm	BCH
SB-002	CNGT	14-FEB-91	18	23	FILL	CL	1	No recovery, some trash and metal in cuttings.	BCH
SB-002	CNGT	14-FEB-91	23	24	LS	NACM	2	Calcareous shale and limestone with small amount of fossils, dense, white to lig	BCH
SB-003	CNGT	14-FEB-91	0	17	CLAY	SC	1	Clay with very little sand, reddish brown (2.5YR 4/4), med. plasticity.	BCH
SB-003	CNGT	14-FEB-91	17	18	STCL	CL	1	Clay with some silts, and very fine sand, slightly moist. Very dark brown/black	BCH
SB-003	CNGT	14-FEB-91	18	24	CLAY	CL	1	Very dark brown to black (10YR 2/2-10YR 2/1). Clay, quite plastic some (<5%)	BCH
SB-004	CNGT	14-FEB-91	0	6	GVL	GC	1	Yellow to brown dry clay and sand with 50% large rocks and gravel with organic	BCH
SB-004	CNGT	14-FEB-91	6	12	FILL	CL	1	No recovery, concrete--moved east 5', moist, hard, poorly sorted clay-sand-grav	BCH
SB-004	CNGT	14-FEB-91	12	13	SDSL	ML	1	Light brown (10YR 6/6) moist, silty sand, fine to medium grained sand (SM to S	BCH
SB-004	CNGT	14-FEB-91	13	16	LS	NACM	2	Solid limestone with no fossils, lightly fossiliferous light grey limestone (10YR 8/	BCH
SB-005	CNGT	15-FEB-91	0	4	CLAY	CL	1	Inorganic clay with high plasticity, strong brown color (7.5YR 5/6) with black str	BCH
SB-005	CNGT	15-FEB-91	4	8	STCL	ML	1	Hard reddish yellow (7.5YR 8/6) clay. Poor recovery.	BCH
SB-005	CNGT	15-FEB-91	8	12	SDCL	SW	1	Yellowish (10YR 7/8) well-graded sands with some clay - <1/2" approx. 5% gr	BCH
SB-005	CNGT	15-FEB-91	12	13	SD	SW	1	Yellowish (10YR 7/8) well-graded sands, approx. 10% limestone gravels.	BCH
SB-005	CNGT	15-FEB-91	13	14	CLAY	OH	1	Very black organic clay, wood found in borehole.	BCH
SB-005	CNGT	15-FEB-91	14	16	FILL	CL	1	No recovery, trash/assorted material.	BCH
SB-005	CNGT	15-FEB-91	16	21	CLAY	CH	1	Light olive brown (2.5YR 5/4) clay, inorganic with very thin (1-2 mm) lenses of (	BCH
SB-005	CNGT	15-FEB-91	21	22	LS	NACM	2	Limestone gravels.	BCH
SB-006	CNGT	18-FEB-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-006	CNGT	18-FEB-91	0.5	4	STCL	CL	1	Silty clay, dry, medium plasticity, very cohesive, reddish brown (7.5YR 6/8).	BCH
SB-006	CNGT	18-FEB-91	4	18	SDCL	CL	1	Clay, moist, high plasticity, very sticky, very dense, reddish brown (7.5YR 6/8)	BCH
SB-007	CNGT	21-FEB-91	0	1	ASPT	NACM	0	Asphalt.	BCH
SB-007	CNGT	21-FEB-91	1	5	STCL	CL	1	Silty clay, slightly moist, pink (7.5YR 8/4). Some sand, med. grain <5%.	BCH
SB-007	CNGT	21-FEB-91	5	6	GVL	GC	1	Clayey gravels, limestone gravels approx. 50%. Limestone is light gray (10YR 7	BCH
SB-007	CNGT	21-FEB-91	6	7	LS	NACM	3	Light gray limestone and shale, yellow (2.5YR 7/6) with pods of light gray shale	BCH
SB-009	CNGT	18-FEB-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-009	CNGT	18-FEB-91	0.5	8	SDSL	OL	1	Sandy silt, low plasticity, dry yellow to tan (10YR 6/8) slightly loose.	BCH
SB-009	CNGT	18-FEB-91	8	18	CLAY	CL	1	Silty clay, medium plasticity, dry yellow to tan (10YR 6/8) loose, slightly moist,	BCH
SB-009	CNGT	18-FEB-91	18	22	STCL	CH	1	Clay/silty clay, moist, high plasticity, reddish brown, with gravel and limestone f	BCH
SB-009	CNGT	18-FEB-91	22	25	GVL	GC	1	50% light grey limestone gravel, water level is 21.86'.	BCH
SB-010	CNGT	19-FEB-91	0	1	CN	NACM	0	Concrete.	BCH
SB-010	CNGT	19-FEB-91	1	10	GVL	GC	1	Cuttings brown silty clay and gravel fill (augered with no samples).	BCH
SB-010	CNGT	19-FEB-91	10	15	CLAY	CL	1	Olive green clay with strong odor.	BCH
SB-010	CNGT	19-FEB-91	15	20	SHLE	NACM	2	Shaley clay, greenish color, interbedded with grey limestone shale, fossiliferous,	BCH
SB-011	CNGT	19-FEB-91	0	1	CN	NACM	0	Concrete.	BCH

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-011	CNGT	19-FEB-91	1	13	GVL	GC	1	Cuttings, gravel fill, clay, sandy clay (brown) 10% gravel.	BCH
SB-011	CNGT	19-FEB-91	13	15	CLAY	CL	1	Shaley clay.	BCH
SB-011	CNGT	19-FEB-91	15	20	SHLE	NACM	2	Shaley clay, very dense, dry, highly plastic, very firm, slight odor, interbedded w	BCH
SB-012	CNGT	16-FEB-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-012	CNGT	16-FEB-91	0.5	9	STCL	MH	1	Very hard inorganic clay, slight to med. plasticity, moist, dark yellowish brown (	BCH
SB-012	CNGT	16-FEB-91	9	11	SD	SP	1	Red to light red (2.5YR 5/8-6/8) medium sand, poorly sorted, slightly moist.	BCH
SB-012	CNGT	16-FEB-91	11	15.5	STCL	ML	1	Red (2.5YR 6/8) inorganic silt with stringers and pods of white to pinkish white	BCH
SB-012	CNGT	16-FEB-91	15.5	18.2	SD	SP	1	Sand, poorly graded, pink (7.5YR 8/6), slightly moist, fine grain, clean, no debris	BCH
SB-012	CNGT	16-FEB-91	18.2	26	CLAY	CL	1	Clay, med. plasticity, hard, some fine silts, silty clay/clayey silt.	BCH
SB-013	CNGT	16-FEB-91	0	0.5	ASPT	NACM	0	Asphalt.	BCH
SB-013	CNGT	16-FEB-91	0.5	1.5	SD	SP	1	Reddish brown (5YR 5/3), poorly graded clean sand.	BCH
SB-013	CNGT	16-FEB-91	1.5	7	SDCL	SM	1	Red (10YR 5/8), poorly sorted very fine clayey sand, slightly moist, graduallty b	BCH
SB-013	CNGT	16-FEB-91	7	15	SD	SP	1	Sand, poorly graded, clean, pale brown (10YR 8/4), moist.	BCH
SB-013	CNGT	16-FEB-91	15	16	SDCL	CL	1	Very pale brown (10YR 8/4), poorly graded sands, moist, with some clay.	BCH
SB-013	CNGT	16-FEB-91	16	20	SD	SP	1	Wet, sand, poorly graded (10YR 8/4), very pale brown (10YR 8/4).	BCH
SB-014	CNGT	17-FEB-91	0	0.5	ASPT	NACM	0	Asphalt.	BCH
SB-014	CNGT	17-FEB-91	0.5	4	SDGR	SW	1	Medium grain sand, well sorted with a small amount of limestone fragments and	BCH
SB-014	CNGT	17-FEB-91	4	6	CLAY	CL	1	Silty clay/sandy clay, high plasticity, moist, very sticky, alternating layers of vari	BCH
SB-014	CNGT	17-FEB-91	6	8	SDGR	SW	1	Medium grain, well sorted with limestone and gravel fragments (<5%). Reddish	BCH
SB-014	CNGT	17-FEB-91	8	10	FILL	NSNR	1	Glass and metal trash (no recovery).	BCH
SB-014	CNGT	17-FEB-91	10	15	SDGR	SW	3	Sand, turning from reddish yellow to tan. At 15' light grey, fossiliferous lime	BCH
SB-015	CNGT	02-MAR-91	0	0.5	ASPT	NACM	0	Asphalt.	BCH
SB-015	CNGT	02-MAR-91	0.5	1.5	SDCL	CL	1	Clay matrix mixed with silt sand and small amount of gravel, dense, dry, black,	BCH
SB-015	CNGT	02-MAR-91	1.5	2	SDSL	SM	1	Silty sand, moist, fine grainead, homogenous, clean.	BCH
SB-015	CNGT	02-MAR-91	2	4.5	STCL	CL	1	Clay/OL - silty clay, medium plasticity, very dense, moist at 3.5 - 4' and mixed	BCH
SB-015	CNGT	02-MAR-91	4.5	6	SDCL	SC	1	Clayey sand, very loose, slightly moist, brown, clean, homogenous, fine to medi	BCH
SB-015	CNGT	02-MAR-91	6	7.5	SDSL	SM	1	Silty sand, slightly moist, homogenous, and fine grained, brown (7.5YR 5/6), me	BCH
SB-015	CNGT	02-MAR-91	7.5	12	SDGR	GW	1	Clay, silt and fine sand mixture grading to GW. Course limestone fragments mix	BCH
SB-016	CNGT	02-MAR-91	0	3	SDGR	GW	1	Gravel, gravelly sand, dry, loose dark gray, poorly sorted.	BCH
SB-016	CNGT	02-MAR-91	3	12	STCL	CL	1	Silty clay, small amount (<5%) gravel, dense, moist, cohesive, dark gray (2.54	BCH
SB-016	CNGT	02-MAR-91	12	14	GVL	GC	1	Various layers of course limestone gravel, loose sandy silt and dense cohesive cl	BCH
SB-016	CNGT	02-MAR-91	14	20.5	SDSL	SM	1	Silty sand, fine grained, clean homogenous, tan to light gray.	BCH
SB-016	CNGT	02-MAR-91	20.5	28	SDCL	CL	1	Sandy clay/silty clay, dry hard, tan to buff, weathered limestone (<10%) and or	BCH
SB-017	CNGT	17-FEB-91	0	1.5	CLAY	CL	1	Very pale brown (10YR 8/3) clay, low to med. plasticity.	BCH
SB-017	CNGT	17-FEB-91	1.5	6	FILL	NSNR	1	Black rusty trash and debris. Some small nodules of green copper material.	BCH
SB-017	CNGT	17-FEB-91	6	7.5	SDSL	ML	1	Silty sand with stringers of clean sand. Very pale brown (10YR 8/3).	BCH
SB-017	CNGT	17-FEB-91	7.5	12	CLAY	CL	1	Pale brown (5YR 7/3-8/3) clay with some gravels of <2" (10%).	BCH
SB-017	CNGT	17-FEB-91	12	13	GVL	GW	2	Limestone gravels, white (2.5YR 8/0), dry, no fossils present, pale brown (5YR	BCH
SB-018	CNGT	16-FEB-91	0	0.5	ASPT	NACM	0	Asphalt.	BCH
SB-018	CNGT	16-FEB-91	0.5	2	GVL	GW	1	Course gravel with concrete (fill) at 2' black with light brown traces of limeston	BCH
SB-018	CNGT	16-FEB-91	2	4	SDCL	CL	1	Strong brown (7.5YR 5/6), sandy clay, very moists, very sticky and plastic, whi	BCH
SB-018	CNGT	16-FEB-91	4	5	STCL	CL	1	Reddish yellow (7.5YR 6/8), silty clay, very moist, very sticky with white and gr	BCH
SB-018	CNGT	16-FEB-91	5	12	FILL	NSNR	1	Trash, wood and glass, very black oily gravel with strong odor, course gravel wi	BCH
SB-018	CNGT	16-FEB-91	12	14	SDGR	GW	1	Very black, oily gravel-sand with strong odor, poorly sorted grades to sandy gra	BCH
SB-019	CNGT	17-FEB-91	0	0.5	ASPT	NACM	0	Asphalt.	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-019	CNGT	17-FEB-91	0.5	1	GVL	GW	1	Roadbase.	BCH
SB-019	CNGT	17-FEB-91	1	5	STCL	CL	1	Silty clay, light yellowish brown (10YR 6/4) moist, approximately 80 ppm volatil	BCH
SB-019	CNGT	17-FEB-91	5	6	SDCL	SC	1	More sand, clayey sand, light yellowish brown, moist.	BCH
SB-019	CNGT	17-FEB-91	6	12	STCL	CL	1	Silty clay, light yellowish brown (10YR 6/4), very moist.	BCH
SB-020	CNGT	16-MAR-91	0	0.5	ASPT	NACM	0	Asphalt.	BCH
SB-020	CNGT	16-MAR-91	0.5	2	GVL	GC	1	Gravel clay mixture, poorly sorted, dry, loose, brown grading to black, 0 ppm.	BCH
SB-020	CNGT	16-MAR-91	2	4	CLAY	CH	1	Clay, slightly moist, very plastic, cohesive, limestone fragments and gravel are	BCH
SB-020	CNGT	16-MAR-91	4	8.5	STCL	CL	1	Silty clay/sandy clay, very moist medium plasticity, sticky, cohesive, firm, homo	BCH
SB-020	CNGT	16-MAR-91	8.5	14	SDCL	SC	1	Clayey sand, fine grained, firm, very moist, subrounded to subangular brown, 5	BCH
SB-020	CNGT	16-MAR-91	14	19	SDSL	SM	1	Silty sand, subrounded to subangular, loose, wet, light brown, 0 ppm, few small	BCH
SB-020	CNGT	16-MAR-91	19	20	GVL	GC	1	Weathered limestone gravel (<20%), silty clay, crumbly, dry, tan (very little rec	BCH
SB-021	CNGT	16-MAR-91	0	0.5	ASPT	NACM	0	Asphalt.	BCH
SB-021	CNGT	16-MAR-91	0.5	12	FILL	NSNR	1	Gravel fill mixed with trash (grass, wood, metal, ash) black loose, 1 ppm.	BCH
SB-021	CNGT	16-MAR-91	12	13.5	GVL	GC	1	Course gravel mixed with clay, no trash, moist, loose, poorly sorted, light brown	BCH
SB-021	CNGT	16-MAR-91	13.5	14	FILL	NSNR	1	Black clay with small amount of trash and limestone, 10 ppm at interface with a	BCH
SB-021	CNGT	16-MAR-91	14	14.5	SDSL	SM	1	Silty sand, very moist, loose, clean (no trash) medium grain with some limeston	BCH
SB-021	CNGT	16-MAR-91	14.5	15	GVL	GW	1	Course gravel, poorly sorted, mixed with medium grain sand, wet, loose, limesto	BCH
SB-021	CNGT	16-MAR-91	15	16	SD	SP	1	Very clean sand, medium grain, loose, wet, homogeneous, well sorted rounded t	BCH
SB-022	CNGT	02-MAR-91	0	2	GVL	GW	1	Very dark grayish brown to black (10YR 3/2) organic material, glass, rust, etc.,	BCH
SB-022	CNGT	02-MAR-91	2	8	FILL	NSNR	1	Sandy clay, trash including plaster, wires, rags, etc. Hit water ~7.5', metals, r	BCH
SB-023	CNGT	16-FEB-91	0	0.5	ASPT	NACM	0	Asphalt.	BCH
SB-023	CNGT	16-FEB-91	0.5	3	STCL	OL	1	Gravelly clay, light brown, moist, firm, dark gray (7.5YR 3/0), dry.	BCH
SB-023	CNGT	16-FEB-91	3	6	SDCL	SC	1	Clayey sand, gray (7.5YR 6/0) dry with small amount of gravel.	BCH
SB-023	CNGT	16-FEB-91	6	10	FILL	NSNR	3	Very black, very oily, stsrong odor, wet sand with large amount of trash (wood,	BCH
SB-024	CNGT	16-FEB-91	0	0.5	ASPT	NACM	0	Asphalt.	BCH
SB-024	CNGT	16-FEB-91	0.5	1	SDGR	GW	1	Fill, gravel with sand.	BCH
SB-024	CNGT	16-FEB-91	1	3	SDCL	CL	1	Dark brown to black (7.5YR 2/0) clayey sand, poorly sorted, oily with strong od	BCH
SB-024	CNGT	16-FEB-91	3	4	SDSL	ML	1	Clayey sand, grayish brown (10YR 3/2) grading to moist, olive (5YR 4/4) sandy	BCH
SB-024	CNGT	16-FEB-91	4	7.5	SDCL	SM	1	Clayey sand/sandy clay, olive (5YR 4/4) with white and red discoloration, moist	BCH
SB-024	CNGT	16-FEB-91	7.5	8	SHLE	NACM	2	Sandy shale fragments, limestone fragments.	BCH
SB-024	CNGT	16-FEB-91	8	9	LS	NACM	2	Gray shale fragments grading into white dense limestone, a few fossils, no	BCH
SB-025	CNGT	20-FEB-91	0	1	SDCL	SC	1	Sod, organic debris with clayey sand, moist.	BCH
SB-025	CNGT	20-FEB-91	1	2	FILL	NSNR	1	Clayey sand with trash, glass, wood mix, moist grading to sand/gravel mix black	BCH
SB-025	CNGT	20-FEB-91	2	7	SDGR	GC	3	Course gravel and sand, limestone, very poorly sorted and wet, white to y	BCH
SB-026	CNGT	20-FEB-91	0	2	SDGR	SW	1	Gravelly, sand, poorly, sorted, dry, 20% limestone fragments, small amount of c	BCH
SB-026	CNGT	20-FEB-91	2	5	STCL	CL	1	Sandy silt/silty clay moist, medium plasticity, very clean, pale yellow, water at 4	BCH
SB-026	CNGT	20-FEB-91	5	6	GVL	GW	3	Fossiliferous limestone, gravel, wet at 5'. At 6' Walnut, fossiliferous limestone	BCH
SB-027	CNGT	20-FEB-91	0	4	SDGR	SW	3	Gravelly sand dry, loose, brown to tan, at 2' sandy limestone gravel, black, m	BCH
SB-028	CNGT	20-FEB-91	0	1	SDSL	ML	1	Sandy silt and organic debris, dry medium plasticity, brown, course limestone gr	BCH
SB-028	CNGT	20-FEB-91	1	2	GVL	GW	3	White fossiliferous limestone (Walnut) dense, no water.	BCH
SB-029	CNGT	21-FEB-91	0	2	STCL	CL	1	Clay/silty clay, medium plasticity, moist, with organic debris and limestone grav	BCH
SB-029	CNGT	21-FEB-91	2	3.5	GVL	GC	3	Gray limestone gravel, fossiliferous with ~20% brown to black clay, and course	BCH
SB-030	CNGT	21-FEB-91	0	4	SDCL	CL	3	Sandy clay, moist, sticky, and clayey sand with stringers of fine grained sand in	BCH
SB-031	CNGT	21-FEB-91	0	1	CLAY	CL	1	Sandy clay, dry, mixed with organic debris, reddish brown (2.5YR 4/6).	BCH
SB-031	CNGT	21-FEB-91	1	3	SDGR	SP	1	Gravelly sand, very black, mixed with trash and organic debris, medium grained.	BCH

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-031	CNGT	21-FEB-91	3	4	LS	NACM	3	Gravelly limestone sand, well sorted, dry fossils, greenish white fossiliferous lim	BCH
SB-032	CNGT	21-FEB-91	0	5	GVL	GC	1	Clay, dry, sticky, dense with course limestone gravel, (<50%) dark brown (10Y	BCH
SB-032	CNGT	21-FEB-91	5	9	SD	SP	1	Medium grained sand and gravel, limestone fragments, dry, yellow (2.5YR 7/4),	BCH
SB-032	CNGT	21-FEB-91	9	11.5	SDSL	SM	1	Silty sand/sand, less fossil fragments very clean, homogeneous, wet, yellow (2.	BCH
SB-032	CNGT	21-FEB-91	11.5	15.5	GVL	GW	3	Gray limestone gravel with small amount of course sand, wet, fossils, we	BCH
SB-033	CNGT	28-FEB-91	0	2	SDSL	CL	1	Silty clay/sandy clay, dry, medium plasticity, brown to dark brown, with ap	BCH
SB-033	CNGT	28-FEB-91	2	4	SDSL	SM	1	Sand/silty sand, fine grain sand mixed with small amount of silt, wet, tan, well s	BCH
SB-033	CNGT	28-FEB-91	4	5.5	SDGR	GW	1	Sandy gravel, very black, very strong smell, wet, course imestone fragments.	BCH
SB-033	CNGT	28-FEB-91	5.5	8	SHLE	NACM	2	Very weathered fossiliferous shale, tan with layers of red and black clayey disco	BCH
SB-034	CNGT	26-FEB-91	0	1	SD	SW	1	Medium grain, wet sand mixed with organic debris, tan to brown.	BCH
SB-034	CNGT	26-FEB-91	1	4	STCL	CL	1	Silty clay, dark brown, ~1' of darker maerial sampled for VOC (7.5YR 3/4), dry	BCH
SB-034	CNGT	26-FEB-91	4	6	CLAY	CH	1	Inorganic clay, high plasticity, reddish brown. At 5' clay, olive gray, moist, very	BCH
SB-034	CNGT	26-FEB-91	6	6.5	LS	NACM	2	Bedrock Goodland limestone, white to gray, dense, fossiliferous.	BCH
SB-035	CNGT	26-FEB-91	0	0.4	CN	NACM	0	Concrete.	BCH
SB-035	CNGT	26-FEB-91	0.4	1	SDGR	SW	1	Poorly graded sands, gravels at 4".	BCH
SB-035	CNGT	26-FEB-91	1	4	SDCL	SC	1	Clayey sand, soil darkened by possible hydrocarbons, material is dense, 8 ppm.	BCH
SB-035	CNGT	26-FEB-91	4	6	SDSL	SM	1	Silty sands, some small rounded pebbles included <20%. Light brown to dark,	BCH
SB-035	CNGT	26-FEB-91	6	13.5	SDCL	SC	1	Yellow brown clayey sand, weathered limestone is 75% of material, 11' greenis	BCH
SB-035	CNGT	26-FEB-91	13.5	14	LS	NACM	2	Limestone encountered at 13'10".	BCH
SB-036	CNGT	27-FEB-91	0	1	CN	NACM	0	Concrete.	BCH
SB-036	CNGT	27-FEB-91	1	2	CLAY	CL	1	Clay, slightly silty in middle at 1.5'. Possible hydrocarbon content (10YR 2/1).	BCH
SB-036	CNGT	27-FEB-91	2	4	STCL	CL	1	Silty clay, strong brown (7.5YR 4/6), medium plasticity.	BCH
SB-036	CNGT	27-FEB-91	4	10	SDCL	CL	1	Strong brown (7.5YR 4/6), inorganic clay with <10% pebbles, red iron stained i	BCH
SB-037	CNGT	03-MAR-91	0	1	CN	NACM	0	Concrete.	BCH
SB-037	CNGT	03-MAR-91	1	6.5	CLAY	CH	1	Clay, firm, cohesive, homogeneous, plastic, moist reddish brown, (5YR 3/4).	BCH
SB-037	CNGT	03-MAR-91	6.5	9	SDSL	ML	1	Very fine silty sand, slightly plastic, moist homogeneous, clean, reddish brown.	BCH
SB-037	CNGT	03-MAR-91	9	13	SD	ML	1	Very fine sand, very clean and homogeneous almost dry, very loose, well sorted.	BCH
SB-037	CNGT	03-MAR-91	13	13.7	CLAY	CL	1	Sand with a clay layer, a lighter tan color.	BCH
SB-037	CNGT	03-MAR-91	13.7	15	SDGR	GW	2	Poorly sorted gravel mixed with course sand subrounded limestone fragments, fe	BCH
SB-038	CNGT	17-MAR-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-038	CNGT	17-MAR-91	0.5	1	SD	SP	1	Medium sand, fill, 2 in. black organic stained directly below concrete, 2" clean b	BCH
SB-038	CNGT	17-MAR-91	1	5	SDCL	ML	1	Light red (25YR 6/8), sandy medium grain to fine grain with clay, interbedded,	BCH
SB-038	CNGT	17-MAR-91	5	13	SD	SP	1	Pink (5YR 7/3) medium grain sand with 10% limestone gravels <1.5" soft, mois	BCH
SB-038	CNGT	17-MAR-91	13	13.5	SDGR	GW	1	Same sand with 30% limestone gravels.	BCH
SB-038	CNGT	17-MAR-91	13.5	19	SD	SP	1	No more gravels, same medium gr. poorly graded sand, moist.	BCH
SB-038	CNGT	17-MAR-91	19	19.5	GVL	GW	1	3" gravel lense, poorly sorted with about 25% medium sand.	BCH
SB-038	CNGT	17-MAR-91	19.5	22	SD	SP	1	Same sand with iron stains with stringers of black organic stained sands.	BCH
SB-038	CNGT	17-MAR-91	22	26	SDGR	GW	1	Coarse sand well graded with 30% gravels <1". Water at 22'.	BCH
SB-039	CNGT	01-APR-91	0	0.8	CN	NACM	0	Concrete.	BCH
SB-039	CNGT	01-APR-91	0.8	3	SDCL	SC	1	Clayey sand, poorly graded sand clay mixture no gravel, dry, yellowish red (5YR	BCH
SB-039	CNGT	01-APR-91	3	10	SD	SP	1	Fine grained sand-clean, loose, dry light brown (7.5YR 6/4).	BCH
SB-039	CNGT	01-APR-91	10	10.9	STCL	CL	1	Silty clay with <10% gravel, med. plasticity gravel to 1/2", light brown (7.5YR	BCH
SB-039	CNGT	01-APR-91	10.9	12	SD	SM	1	Fine grained sand, clean, dry, loose, light brown (7.5YR 6/4).	BCH
SB-039	CNGT	01-APR-91	12	13.1	SDCL	SC	1	Clayey sand, no gravels, light brown, dry.	BCH
SB-039	CNGT	01-APR-91	13.1	15	SD	SM	1	Fine grained sand, clean, dry, loose, light brown.	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-039	CNGT	01-APR-91	15	18	SDSL	SC	1	Silty clay, light gray, staining throughout brownish yellow (10YR 6/6), med. plas	BCH
SB-039	CNGT	01-APR-91	18	20	SDCL	SC	1	Clayey sand yellow dry (10YR 7/6) <10% gravel, to 1/4" subrounded, light gray	BCH
SB-041	CNGT	20-MAR-91	0	0.4	CN	NACM	0	Concrete.	BCH
SB-041	CNGT	20-MAR-91	0.4	3	SD	SP	1	Pale yellow (2.5YR 8/4) med. grain, poorly graded sand, subangular to su	BCH
SB-041	CNGT	20-MAR-91	3	8	STCL	CL	1	Light brownish gray (10YR 6/2) to dark yellowish brown (10YR 4/4) silty clay, si	BCH
SB-042	CNGT	06-MAR-91	0	0.6	CN	NACM	0	Concrete.	BCH
SB-042	CNGT	06-MAR-91	0.6	1	SDCL	CL	1	Clayey sand, brown, (weathered limestone) and pebbles.	BCH
SB-042	CNGT	06-MAR-91	1	3	STCL	CL	1	No further sampling because of potential water main at 3'.	BCH
SB-043	CNGT	04-JUN-91	0	1	CN	NACM	0	Concrete.	BCH
SB-043	CNGT	04-JUN-91	1	1.5	SD	SP	1	Sand, medium grain, well sorted, light brown, subrounded/subangular, ~5% lim	BCH
SB-043	CNGT	04-JUN-91	1.5	13	GVL	GC	1	Gravel mixed with clay, clay <30%, very poorly sorted, wide range of weathere	BCH
SB-043	CNGT	04-JUN-91	13	14.5	SDGR	GW	1	Gravel/gravel and sand, predominantly limestone very poorly sorted, dry, loose, r	BCH
SB-043	CNGT	04-JUN-91	14.5	16	SD	SP	1	Sand, poor to medium sorting of fine to course sand but predominantly medium,	BCH
SB-043	CNGT	04-JUN-91	16	21	SDGR	GW	1	Several stratified layers of mostly gravel, very moist to wet, limestone gravael	BCH
SB-044	CNGT	28-APR-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-044	CNGT	28-APR-91	0.5	1.5	SD	SP	1	Sand, fine to very fine, well sorted (10YR 6/6) moist, subrounded.	BCH
SB-044	CNGT	28-APR-91	1.5	2	GVL	GC	1	Gravelly clay (10YR 4/4) 10% gravel up to 1.5 cm, limestone subrounded; mod.	BCH
SB-044	CNGT	28-APR-91	2	5.5	SDGR	GW	1	Gravelly silty sand (14YR5/4), possibly slough, broken up limestone; sand silica	BCH
SB-044	CNGT	28-APR-91	5.5	6	SDSL	ML	1	Sand to silty sand (10YR 7/6). Very fine subrounded, silt 10%, well sorted, not	BCH
SB-044	CNGT	28-APR-91	6	8	SD	SP	1	Sand (10YR 7/6) very fine grained, well sorted subangular to subrounded, not in	BCH
SB-044	CNGT	28-APR-91	8	26	SDSL	ML	1	Silty sand (10YR 6/6) silt 20-30%, sand is very fine, subangular to subrounded,	BCH
SB-045	CNGT	15-JUN-91	0	0.6	GVL	GW	1	Dry gravel fill.	BCH
SB-045	CNGT	15-JUN-91	0.6	4.8	SDCL	CL	1	Silty, sandy clay, slightly moist, firm, slightly sticky, medium plasticity, medium	BCH
SB-045	CNGT	15-JUN-91	4.8	6	GVL	GW	1	Gravel, medium to course highly weathered limestone gravel, dry, poorly sorted,	BCH
SB-045	CNGT	15-JUN-91	6	8	STCL	OL	1	Silt/clay-very poorly sorted silt mixed with fine sand and weathered limestone, sl	BCH
SB-045	CNGT	15-JUN-91	8	27	SHLE	NACM	2	Cuttings shale, tan, dry with chert and limestone fragments, Goodland, alternati	BCH
SB-045	CNGT	15-JUN-91	27	30.5	LS	NACM	3	Limestone with a few fossils, Walnut, very fossiliferous, very hard, very den	BCH
SB-046	CNGT	01-MAR-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-046	CNGT	01-MAR-91	0.5	1	GVL	GC	1	Clay with gravel, dark gray material (10YR 4/1) possibly petroleum stained.	BCH
SB-046	CNGT	01-MAR-91	1	2	CLAY	CL	1	Light yellowish brown (10YR 6/4) silty clay; no gravels.	BCH
SB-046	CNGT	01-MAR-91	2	7.5	STCL	CL	1	Silty clay, medium plasticity, light yellowish brown (10YR 6/4).	BCH
SB-046	CNGT	01-MAR-91	7.5	9	GVL	GC	1	Gravels light brownish gray (10YR 6/2) limestone with fossils.	BCH
SB-046	CNGT	01-MAR-91	9	11.5	SD	SC	1	Yellowish brown (10YR 5/1) silty sands.	BCH
SB-047	CNGT	01-MAR-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-047	CNGT	01-MAR-91	0.5	4	GVL	GM	1	Well-graded silty gravels, reddish brown (5YR 6/4).	BCH
SB-047	CNGT	01-MAR-91	4	15	STCL	CL	1	Very pale brown (10YR 7/4.0), silty clay, slightly moist at 13'.	BCH
SB-047	CNGT	01-MAR-91	15	16	LS	NACM	2	Bedrock, gray limestone.	BCH
SB-048	CNGT	01-MAR-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-048	CNGT	01-MAR-91	0.5	1	GVL	GW	1	Gravel fill.	BCH
SB-048	CNGT	01-MAR-91	1	2	STCL	CL	1	Silty clay with <10% limestone gray gravels.	BCH
SB-048	CNGT	01-MAR-91	2	3	SDGR	GP	1	Gravel, sand, probably from R.R. building; light yellowish brown (10YR 6/4).	BCH
SB-048	CNGT	01-MAR-91	3	12	STCL	CL	1	Silty clay with gravel <1%, medium plasticity, gravels <1%. Light gray limest	BCH
SB-048	CNGT	01-MAR-91	12	13.5	SDCL	SC	1	Clayey sands with light gray gravel; brownish yellow (10YR 6/6).	BCH
SB-048	CNGT	01-MAR-91	13.5	16	GVL	GW	1	Well-graded, light gray limestone gravels; fossils apparent.	BCH
SB-049	CNGT	28-FEB-91	0	0.5	CN	NACM	0	Concrete.	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-049	CNGT	28-FEB-91	0.5	1	STCL	CL	1	Reddish yellow (7.5YR 6/6) silty clay.	BCH
SB-049	CNGT	28-FEB-91	1	2	GVL	GC	1	Clayey gravels, brown (7.5YR 5/4).	BCH
SB-049	CNGT	28-FEB-91	2	15	STCL	CL	1	Reddish-yellow (7.5YR 6/8), silty clay, medium plasticity, medium toughness <1	BCH
SB-049	CNGT	28-FEB-91	15	16	LS	NACM	2	Bedrock, gray limestone.	BCH
SB-052	CNGT	17-MAR-91	0	0.5	SDGR	GW	1	Roadbase.	BCH
S8-052	CNGT	17-MAR-91	0.5	4	CLAY	CL	1	Strong brown (70.5YR 4/6) clay, firm, medium-highly plastic, some road base gr	BCH
SB-052	CNGT	17-MAR-91	4	6	GVL	GC	1	Gravelly 40% with silty clay, reddish yellow (7.5YR 8/6), limestone gravels unc	BCH
SB-052	CNGT	17-MAR-91	6	11.7	CLAY	CL	1	Brownish yellow mottled (10YR 6/6) with 10% very weathered limes tone modul	BCH
SB-052	CNGT	17-MAR-91	11.7	14.3	SHLE	NACM	2	Shaley limestone gray, weathered, possibly Goodland at 12", very hard.	BCH
SB-053	CNGT	06-MAR-91	0	0.8	CN	NACM	0	Concrete.	BCH
SB-053	CNGT	06-MAR-91	0.8	4	SDCL	CL	1	Clayey sand pebbles, max. size 1/2", strong brown (7.5YR 5/6), weathered lime	BCH
SB-053	CNGT	06-MAR-91	4	22.5	STCL	CL	1	Silty clay with gravels ~15%, well graded, max size 1". Light brown (2.5YR 6/	BCH
SB-053	CNGT	06-MAR-91	22.5	24	SDCL	CL	1	Silty clay, water at 22.5', clayey sand yellowish brown, dark staining.	BCH
SB-054	CNGT	18-MAR-91	0	1	STCL	CL	1	Dark grayish brown (10YR 4/2) silty clay, roots, organic material, slightly moist.	BCH
SB-054	CNGT	18-MAR-91	1	1.5	SDGR	GW	1	Roadbase, slight moist.	BCH
SB-054	CNGT	18-MAR-91	1.5	2	STCL	CL	1	Red (2.5YR 5/6) silty clay, silt 30% with 20% limestone gravels.	BCH
SB-054	CNGT	18-MAR-91	2	3	GVL	GW	1	Unconsolidated, well graded gravels 80%, highly weathered with 20% red clay	BCH
SB-054	CNGT	18-MAR-91	3	4.5	CLAY	CL	1	Mottled, yellow (2.5YR 8/6) and light gray (2.5YR 7/0) clay. Weatheraed limest	BCH
SB-054	CNGT	18-MAR-91	4.5	5	LS	NACM	2	Limestone, dense, white to pale yellow, could not penetrate (Goodland), no wat	BCH
SB-055	CNGT	17-MAR-91	0	2.5	SDSL	ML	1	Silty sand 2% with clay, slightly moist.	BCH
SB-055	CNGT	17-MAR-91	2.5	5.5	SDGR	GW	1	Very unconsolidated well graded limestone gravels, 75% with 25% clay, slightly	BCH
SB-056	CNGT	06-MAR-91	0	4	STCL	CL	1	Dark brown (7.5YR 3/2) silty clay with <1% gravel, organic material present, tr	BCH
SB-056	CNGT	06-MAR-91	4	6.5	GVL	GC	1	Clayey gravel, gravels are well graded, approx. 50% limestone, max. size 1 1/2"	BCH
SB-057	CNGT	27-FEB-91	0	0.8	CN	NACM	0	Concrete.	BCH
SB-057	CNGT	27-FEB-91	0.8	15	STCL	CL	1	Cuttings strong brown (7.5YR 5/6) inorganic clays, silty clays; medium plasticity	BCH
SB-057	CNGT	27-FEB-91	15	20	CLAY	CL	1	Dark yellowish-brown (10YR 4/6) dry inorganic clay; <10% poorly-graded gravel	BCH
SB-057	CNGT	27-FEB-91	20	23	GVL	GC	1	Yellowish brown (10YR 5/4) limestone gravels, ~50% subrounded to angular gr	BCH
SB-058	CNGT	27-FEB-91	0	1	CN	NACM	0	Concrete.	BCH
SB-058	CNGT	27-FEB-91	1	15	STCL	CL	1	Dark yellowish brown (10YR 4/4) silty clay; some gravel <10%.	BCH
SB-058	CNGT	27-FEB-91	15	18	SHLE	NACM	2	Only 50% recovery, olive green clay, very dense, dry, possible Goodland.	BCH
SB-059	CNGT	28-FEB-91	0	1	CN	NACM	0	Concrete.	BCH
SB-059	CNGT	28-FEB-91	1	5	STCL	CL	1	Dark brown (10YR 4/3), silty clay.	BCH
SB-059	CNGT	28-FEB-91	5	10	CLAY	CL	1	Yellowish brown (10YR 6/6), fine-grained clay with <15% gravel; poorly graded,	BCH
SB-059	CNGT	28-FEB-91	10	14	SHLE	NACM	2	Yellow (10YR 7/6) clayey shale, very dense, very high strength, non-plastic, Go	BCH
SB-060	CNGT	01-MAR-91	0	1.5	STCL	CL	1	Silty clay, moist, dense, tan, mixed with limestone fragments and gravel (<20%	BCH
SB-060	CNGT	01-MAR-91	1.5	4	SD	SP	1	Medium to course grained sand, wet, very clean, with shell fragments, loose, ta	BCH
S8-060	CNGT	01-MAR-91	4	6	LS	NACM	2	Sand, slough, flowing into auger on top of bedrock which was at 4'. Sand and	BCH
SB-061	CNGT	19-MAR-91	0	1.5	GVL	GC	1	Surface organic debris, silty gravels, coarse sand 20% <1/4", moist.	BCH
SB-061	CNGT	19-MAR-91	1.5	2	CLAY	CL	1	Dark yellowish brown (10YR 4/4) clay with stringers of black organic material.	BCH
SB-061	CNGT	19-MAR-91	2	2.3	LS	NACM	2	Limestone, weathered, light gray, abundant iron/rust stains. No observed fossils	BCH
SB-062	CNGT	19-MAR-91	0	2.8	SDCL	CL	1	Organic, black to dark brown, sandy clay, sand 40%, sand is med. grain, poorly	BCH
SB-062	CNGT	19-MAR-91	2.8	4.5	GVL	GW	1	Well graded gravels <1%, 80% with 20% med. grained poorly graded sand, pin	BCH
SB-062	CNGT	19-MAR-91	4.5	6	LS	NACM	2	Auger to bedrock.	BCH
SB-063	CNGT	01-MAR-91	0	5	GVL	OL	1	Gravelly clay to silty clay ~50% gravel, limestone fragments and organic debris	BCH
SB-063	CNGT	01-MAR-91	5	6	LS	NACM	3	Dense fossiliferous limestone, rust to brown Walnut.	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-064	CNGT	01-MAR-91	0	0.8	CN	NACM	0	Concrete.	BCH
SB-064	CNGT	01-MAR-91	0.8	5.5	STCL	OL	1	Silty clay, low plasticity, dry, slightly loose, light brown with rounded limestone	BCH
SB-064	CNGT	01-MAR-91	5.5	6	GVL	GC	1	No recovery, gravel and medium to course limestone fragments.	BCH
SB-064	CNGT	01-MAR-91	6	12.5	STCL	CL	1	Silty clay-medium to low plasticity, dry, dense, crumbly with small amount of sa	BCH
SB-064	CNGT	01-MAR-91	12.5	14	SDCL	CL	1	Small lense of course grain sand intermixed (<20%), slight petroleum smell in s	BCH
SB-066	CNGT	04-MAR-91	0	0.8	CN	NACM	0	Concrete.	BCH
SB-066	CNGT	04-MAR-91	0.8	3	CLAY	CL	1	Clayey sand, brown, fine-grained.	BCH
SB-066	CNGT	04-MAR-91	3	5	STCL	CL	1	Yellow-brown silty clay, <10% gravel max. gravel 1/8", subrounded.	BCH
SB-066	CNGT	04-MAR-91	5	6	SDCL	CL	1	Sand-brown, max. size 1/8", fine-grained, clean sand.	BCH
SB-066	CNGT	04-MAR-91	6	15.5	STCL	CL	1	Reddish yellow (7.5YR 6/6) medium plasticity, silty, clay, moist.	BCH
SB-066	CNGT	04-MAR-91	15.5	27	SHLE	NACM	2	Brownish yellow (10YR 6/2), calcareous shale or weathered limestone. Goodlan	BCH
SB-068	CNGT	02-MAR-91	0	9.9	STCL	CL	1	Black (7.5YR 2/0) clayey silt and pebbles to 3/4", sandy at 1.5".	BCH
SB-068	CNGT	02-MAR-91	9.9	10	LS	NACM	2	Bedrock, light gray limestone.	BCH
SB-069	CNGT	02-MAR-91	0	0.3	ASPT	NACM	0	Asphalt.	BCH
SB-069	CNGT	02-MAR-91	0.3	4.5	STCL	CH	1	Black (7.5YR 2/0), darker at 2'. Clayey silt, pebbles to 3/4" at 2'. Some organi	BCH
SB-069	CNGT	02-MAR-91	4.5	5	GVL	GW	1	Limestone gravels.	BCH
SB-069	CNGT	02-MAR-91	5	10	STCL	CL	1	Silty clay, no pebbles, some yellow, limited staining.	BCH
SB-069	CNGT	02-MAR-91	10	12	SHLE	NACM	2	Light yellowish brown (2.5YR 6/4), very dense lenses of light gray shale, moist.	BCH
SB-070	CNGT	02-MAR-91	0	0.3	ASPT	NACM	0	Asphalt.	BCH
SB-070	CNGT	02-MAR-91	0.3	12	CLAY	CL	1	Yellowish brown (10YR 6/4), oxidized material reddish at ~11'. (Bedrock).	BCH
SB-071	CNGT	02-MAR-91	0	0.3	ASPT	NACM	0	Asphalt.	BCH
SB-071	CNGT	02-MAR-91	0.3	2	STCL	CL	1	Black (7.5YR 2/0), clayey silt, pebbles to 3/4", 40% pebbles to 2', some roots t	BCH
SB-071	CNGT	02-MAR-91	2	4	SDSL	ML	1	Sandy silt, few pebbles, very dark gray (10YR 3/1), copper wire at 4.0', moist,	BCH
SB-071	CNGT	02-MAR-91	4	10	STCL	CL	1	Olive (5YR 4/4), silty clay, some limestone weathered, moist, medium plastsicit	BCH
SB-071	CNGT	02-MAR-91	10	11	LS	NACM	2	No recovery.	BCH
SB-072	CNGT	02-MAR-91	0	0.4	ASPT	NACM	0	Asphalt.	BCH
SB-072	CNGT	02-MAR-91	0.4	2.5	STCL	CL	1	Clay matrix, mixed with silt, fine grained sand, rounded limestone fragments, ch	BCH
SB-072	CNGT	02-MAR-91	2.5	7	SDCL	CL	1	Sandy clay, small amount of silt, large amount of organic debris (wood, roots),	BCH
SB-072	CNGT	02-MAR-91	7	8	SDGR	GW	3	Course, dense, dry sand and limestone gravel, fossils, mixed in matrix of silty cl	BCH
SB-073	CNGT	02-MAR-91	0	0.6	ASPT	NACM	0	Asphalt.	BCH
SB-073	CNGT	02-MAR-91	0.6	6	GVL	CH	1	Clay matarix mixed with silt sand and rounded limestone fragments (<50%). S	BCH
SB-074	CNGT	03-MAR-91	0	2	CLAY	CL	1	Organic clays, dark brown (7.5YR 3/4).	BCH
SB-074	CNGT	03-MAR-91	2	4	GVL	GC	1	Clayey gravels, poorly gradaed, gravels about 60%, mostly weathered limestone	BCH
SB-074	CNGT	03-MAR-91	4	9	STCL	CL	1	Reddish yellow (7.5YR 6/6), firm, moderately cohesive, < 5% gravel, silty clay.	BCH
SB-074	CNGT	03-MAR-91	9	10	SDSL	SM	1	Silty sands, reddish stained, limestone up to 3/4".	BCH
SB-074	CNGT	03-MAR-91	10	12	STCL	CL	1	Silty clay <10% gravel, reddish yellow (7.5YR 6/6), increasing gravels at 11.5'.	BCH
SB-074	CNGT	03-MAR-91	12	14	GVL	GW	1	Weathered, light gray limestone and up to 1" limestone fragments.	BCH
SB-074	CNGT	03-MAR-91	14	24	STCL	CL	1	Brown (7.5YR 5/4) silty clay.	BCH
SB-074	CNGT	03-MAR-91	24	28	GVL	GC	1	Dark brown (7.5YR 4/2) clay, limestone gravels.	BCH
SB-074	CNGT	03-MAR-91	28	31	SDSL	SM	1	Silty sands, light gray, moist.	BCH
SB-074	CNGT	03-MAR-91	31	34	SDCL	SC	1	Clayey sand, weathered limestone with imestone gravels; well-graded, light gray	BCH
SB-074	CNGT	03-MAR-91	34	38	SDGR	GW	1	Sandy gravel, 6 recovery, water at 36'. Fine grained, clean sand, no oily sheen	BCH
SB-075	CNGT	30-MAR-91	0	3	CLAY	CL	1	Organic clay medium plasticity, no gravel, dark brown (7.5YR 4/2), dry.	BCH
SB-075	CNGT	30-MAR-91	3	6.3	GVL	GC	1	Strong brown (7.5YR 5/8), silty clay with weathered limestone, dry, gravel ~45	BCH
SB-075	CNGT	30-MAR-91	6.3	30.8	STCL	CL	1	Pink (7.5YR 7/4), silty clay, no gravels, very dense, very dry., strong brown silty	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-075	CNGT	30-MAR-91	30.8	33.5	GVL	GC	1	Gravels, silty clay, subrounded max. size 2", well graded gravels ~ 60% moist.	BCH
SB-075	CNGT	30-MAR-91	33.5	36	SDCL	CL	1	Fine grained sand, moist light gray poorly graded, water at 35.2', no oily sheen	BCH
SB-076	CNGT	16-MAR-91	0	3	CLAY	CL	1	Roots, red (10YR 4/6), trace of silt <10% with clay, some black stringers of or	BCH
SB-076	CNGT	16-MAR-91	3	4	STCL	CL	1	40% silt, 10% fine sand, very firm, 10% with limestone gravels, no organic/bla	BCH
SB-076	CNGT	16-MAR-91	4	20	SD	ML	1	Silty fine sand very firm, light reddish brown (5YR 6/3), no organic stringers, 10	BCH
SB-077	CNGT	03-MAR-91	0	2	CLAY	CL	1	Dark brown (7.5YR 3/2), top 1' organic clay with roots; bottom 1' limestone, br	BCH
SB-077	CNGT	03-MAR-91	2	5	STCL	CL	1	Silty clay with 10% weathered limestone gravels, dark yellowish brown (10YR	BCH
SB-077	CNGT	03-MAR-91	5	6	GVL	GC	1	Silty gravel, weathered limestone, max. gravel to 1".	BCH
SB-077	CNGT	03-MAR-91	6	9	STCL	CL	1	Silty clay, <5% gravel.	BCH
SB-077	CNGT	03-MAR-91	9	14	GVL	GW	1	Silty clay, medium plasticity, weathered limestone gravel.	BCH
SB-077	CNGT	03-MAR-91	14	15	CLAY	CL	1	Clay, medium plasticity, brown.	BCH
SB-077	CNGT	03-MAR-91	15	16	GVL	GW	1	Limestone gravels, 70% gravel and 30% clay.	BCH
SB-080	CNGT	12-MAR-91	0	0.8	CN	NACM	0	Concrete.	BCH
SB-080	CNGT	12-MAR-91	0.8	4	CLAY	SP	1	Yellow, green, brown, black, clay with no sand. Pods of fine grain sand, med. g	BCH
SB-080	CNGT	12-MAR-91	4	6	SDSL	ML	1	Yellow (2.5YR 8/8) silty sand, wet.	BCH
SB-080	CNGT	12-MAR-91	6	7.8	SDGR	GC	1	Limestone fine sand, gravels, clayey gravels, fines 20%.	BCH
SB-080	CNGT	12-MAR-91	7.8	12	SDSL	ML	1	Yellow (2.5YR 8/6) silty sand, fine to medium grain, slightly moist.	BCH
SB-081	CNGT	13-MAR-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-081	CNGT	13-MAR-91	0.5	3.5	CLAY	CL	1	Mottled clay with <15% gravels limestone < 1 1/2" (odor of petroleum) most	BCH
SB-081	CNGT	13-MAR-91	3.5	4	GVL	GW	1	Limestone gravels, no recovery.	BCH
SB-081	CNGT	13-MAR-91	4	6	CLAY	CL	1	Trace of gravels, most, dark brown to very dark brown, no odor.	BCH
SB-081	CNGT	13-MAR-91	6	10	SD	SP	1	Very pale brown (10YR 7/3) poorly sorted fine grain sand.	BCH
SB-082	CNGT	12-MAR-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-082	CNGT	12-MAR-91	0.5	5.5	CLAY	CL	1	Yellow (10YR 8/6) clay, slightly moist, no gravels, becoming red (2.5YR 5/6).	BCH
SB-082	CNGT	12-MAR-91	5.5	8	GVL	GC	1	Well graded gravels 80% with clay matrix max gravel of 3/4" range mostly lime	BCH
SB-082	CNGT	12-MAR-91	8	13	SD	SM	1	Well graded sand (and silt 30%) with 25% gravels.	BCH
SB-083	CNGT	13-MAR-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-083	CNGT	13-MAR-91	0.5	2	SD	SP	1	Yellow (10YR 8/6) med grain sand moist to 1.8'.	BCH
SB-083	CNGT	13-MAR-91	2	5	STCL	CL	1	Yellowish brown (10YR 5/6) mottled clayey silt with trace (<5%) of coarse san	BCH
SB-083	CNGT	13-MAR-91	5	7	GVL	GW	1	Yellow (10YR 7/6) well graded gravels, gravels max. of <1" w/<5% silty clay,	BCH
SB-083	CNGT	13-MAR-91	7	9	CLAY	CL	1	Yellow (10YR 7/6), sheen under hand lens when cut, medium plastic, firm.	BCH
SB-083	CNGT	13-MAR-91	9	10	STCL	CL	1	Gradually becoming silt with trace of clay.	BCH
SB-084	CNGT	12-MAR-91	0	1.8	CN	NACM	0	Concrete.	BCH
SB-084	CNGT	12-MAR-91	1.8	6	CLAY	CL	1	Clay, dry to slightly moist with very small amount (<10%) of fine grain sand, d	BCH
SB-084	CNGT	12-MAR-91	6	11	STCL	OL	1	Silty clay, very hard, very dense low plasticity, low crushing strength, moist, rus	BCH
SB-084	CNGT	12-MAR-91	11	12	GVL	GC	1	Higher percentage (40%) weathered limestone fragments subrounded to subangu	BCH
SB-084	CNGT	12-MAR-91	12	14	STCL	CL	1	Less limestone fragments (<20%), moist to wet.	BCH
SB-086	CNGT	14-MAR-91	0	1.5	CN	NACM	0	Concrete.	BCH
SB-086	CNGT	14-MAR-91	1.5	2.5	SDGR	SP	1	Very dark grayish brown (2.5YR 3/2) gravelly medium sand, gravel fraction ~30	BCH
SB-086	CNGT	14-MAR-91	2.5	4.5	CLAY	CL	1	Dark reddish brown (5YR 3/3) clay, very firm, dense, black stringers of organic	BCH
SB-086	CNGT	14-MAR-91	4.5	7.5	GVL	GW	1	Well graded gravels <1/2" ~90%, very unconsolidated, limestone, trace of sand	BCH
SB-086	CNGT	14-MAR-91	7.5	10	SDGR	GW	1	Silty sand, slightly moist, gravel content decreasing.	BCH
SB-086	CNGT	14-MAR-91	10	15	SDSL	ML	1	Silty fine to very fine grained sand, poorly graded, pale yellow (2.5YR 8/4) moist	BCH
SB-086	CNGT	14-MAR-91	15	15.5	SDGR	GW	1	Sandy gravel, poorly graded, very wet.	BCH
SB-086	CNGT	14-MAR-91	15.5	16	SDSL	ML	1	Silty, fine to very fine grain sand, poorly graded.	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-087	CNGT	14-MAR-91	0	0.6	CN	NACM	0	Concrete.	BCH
SB-087	CNGT	14-MAR-91	0.6	3.5	GVL	CH	1	Clay, mixed with medium sand, gravel and organic debris, moist, medium plastic	BCH
SB-087	CNGT	14-MAR-91	3.5	4	CN	NACM	1	No recovery, auger bit appears to have hit concrete.	BCH
SB-088	CNGT	14-MAR-91	0	1	CN	NACM	0	Concrete.	BCH
SB-088	CNGT	14-MAR-91	1	7	CLAY	CL	1	Clay with 10% coarse sand, slightly moist, red (10YR 5/6).	BCH
SB-088	CNGT	14-MAR-91	7	10	STCL	ML	1	Silty clay, soft to firm, unconsolidated, pale yellow (5YR 8/4) approximately 40	BCH
SB-088	CNGT	14-MAR-91	10	14	CLAY	CL	1	Silt with clay, silt 15%, pods of white to gray, very weathered limestone, <1"	BCH
SB-088	CNGT	14-MAR-91	14	16	SDGR	GP	1	Unconsolidated poorly graded gravels 50% with silt and sand, gravel <.5 limest	BCH
SB-088	CNGT	14-MAR-91	16	19	STCL	ML	1	Silty clay, pale yellow (5YR 8/4) silt ~30%, roots, petroleum odor, water level	BCH
SB-089	CNGT	15-MAR-91	0	0.6	CN	NACM	0	Concrete.	BCH
SB-089	CNGT	15-MAR-91	0.6	2	STCL	CL	1	Silty clay, moist, firm, dark brown. At 2' hit pipe (concrete), abandoned hole, n	BCH
SB-090	CNGT	14-MAR-91	0	0.6	CN	NACM	0	Concrete.	BCH
SB-090	CNGT	14-MAR-91	0.6	9	CLAY	CL	1	Clay, moist, very plastic, slightly sticky, brown, black, gray and rust discoloratii	BCH
SB-090	CNGT	14-MAR-91	9	14	STCL	CL	1	Silty clay, medium plastic, firm, slightlly moist, limestone fragments (<5%).	BCH
SB-090	CNGT	14-MAR-91	14	20	SHLE	NACM	2	Clayey sand mixed with coarse sand in layers, and non-homogeneous, poorly sor	BCH
SB-091	CNGT	15-MAR-91	0	2	CN	NACM	0	Concrete.	BCH
SB-091	CNGT	15-MAR-91	2	3	SDGR	GW	1	Well sorted gravelly sand, medium grain gravels <1" about 5%.	BCH
SB-091	CNGT	15-MAR-91	3	4	STCL	ML	1	Dark reddish brown (5YR 3/2) silty clay with 20% gravel <.5" slight moist, silt	BCH
SB-091	CNGT	15-MAR-91	4	5	GVL	GW	1	Increasing gravel to 50%.	BCH
SB-091	CNGT	15-MAR-91	5	7	STCL	ML	1	<20% gravels <1/2" some black organic stringers.	BCH
SB-091	CNGT	15-MAR-91	7	10	GVL	GW	1	Unconsolidated limestone gravels, highly fractured, well graded with 20% fine	BCH
SB-091	CNGT	15-MAR-91	10	13	SDGR	SW	1	Fine to coarse grain, very pale brown (10YR 7/3) sand, 50% well graded limesto	BCH
SB-091	CNGT	15-MAR-91	13	16	STCL	CL	1	Light yellowish brown (10YR 6/4) silty clay, silt 30%, gray colored pods of dens	BCH
SB-092	CNGT	18-MAR-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-092	CNGT	18-MAR-91	0.5	3	CLAY	ML	1	Strong brown (7.5YR 5/6) clay with about 15% silt, clay is moderately plastic,	BCH
SB-092	CNGT	18-MAR-91	3	6	STCL	CL	1	Silty clay, about 40% silt, pink (7.5YR 8/4) moist.	BCH
SB-092	CNGT	18-MAR-91	6	11.5	SDCL	CL	1	Brown to dark brown (7.5YR 4/2-3/2) clay with about 25% fine sand, black stri	BCH
SB-092	CNGT	18-MAR-91	11.5	12	SDSL	ML	1	Silty fine sand, silt about 20%, gravels about 10%.	BCH
SB-092	CNGT	18-MAR-91	12	16	CLAY	CL	1	Mottled clay, pale yellow (5YR 8/4) with gray clay stringers, water at 13'.	BCH
SB-093	CNGT	18-MAR-91	0	1.5	NSNR	NSNR	0	Hit black rubber coated pipe at about 20", abandoned hole.	BCH
SB-094	CNGT	19-MAR-91	0	1	SDGR	GW	1	Roadbase sand and <3/4" gravel.	BCH
SB-094	CNGT	19-MAR-91	1	2.7	CLAY	CL	1	Pale yellow (2.5YR 8/4) and light gray (2.5YR 7/0) mottled clay, slightly moist.	BCH
SB-094	CNGT	19-MAR-91	2.7	4.2	SHLE	NACM	2	Light gray shale at 2.5' with about 10% fossils, no sample, dry.	BCH
SB-095	CNGT	19-MAR-91	0	1	SDGR	GW	1	Sandy gravel/gravelly sand about 50-50%, 8 ppm in borehole.	BCH
SB-095	CNGT	19-MAR-91	1	2.7	CLAY	CL	1	Yellow and gray mottled clay, slightly moist.	BCH
SB-095	CNGT	19-MAR-91	2.7	4	LS	NACM	2	Could not obtain sample, hard, limestone stuck in split barrel.	BCH
SB-096	CNGT	19-MAR-91	0	2	SHLE	NACM	3	About 3" of soil then limestone (Walnut Fm) stuck in split barrel, no sample, no	BCH
SB-096	CNGT	19-MAR-91	2	2.5	SHLE	NACM	3	Soft and weathered shale and limestone with <20%, pale yellow clay.	BCH
SB-096	CNGT	19-MAR-91	2.5	4.2	LS	NACM	3	Limestone, weathered, slightly fossiliferous iron staining 3.8'.	BCH
SB-097	CNGT	19-MAR-91	0	1.5	SDGR	GW	1	Roadbase and medium sand (fill).	BCH
SB-097	CNGT	19-MAR-91	1.5	2	CLAY	CL	1	Pale yellow (2.5YR 8/4), (5YR 8/4) and gray clay, highly plastic, mottled, slightl	BCH
SB-097	CNGT	19-MAR-91	2	2.4	LS	NACM	2	Weathered limestone, slightly fossiliferous slightly moist, slight petroleum odor a	BCH
SB-098	CNGT	19-MAR-91	0	1	SDGR	GW	1	Roadbase gravels.	BCH
SB-098	CNGT	19-MAR-91	1	2	CLAY	CL	1	Yellow/gray mottled clay, highly plastic slightly moist.	BCH
SB-098	CNGT	19-MAR-91	2	4	LS	NACM	3	Weathered limestone, slightly rusty stained at 2.6', slightly moist, no visible fos	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-099	CNGT	20-MAR-91	0	0.4	CN	NACM	0	Concrete.	BCH
SB-099	CNGT	20-MAR-91	0.4	3	SD	SP	1	Very wet, med. grained sand, poorly graded, pale yellow (2.5YR 8/4) with string	BCH
SB-099	CNGT	20-MAR-91	3	8	SDCL	ML	1	Light olive brown (2.5YR 5/4) to pale yellow clay with silt and fine grain sand, a	BCH
SB-1(86)	RAD	24-JAN-86	0	0.25	ASPT		0	Asphalt.	EXP
SB-1(86)	RAD	24-JAN-86	0.25	1	FILL		1	Fill.	EXP
SB-1(86)	RAD	24-JAN-86	1	4	CLAY	CH	1	Clay, minor silt and sand, orange and tan, plastic, moist to dry, moisture decreas	EXP
SB-1(86)	RAD	24-JAN-86	4	9	CLAY	CH	2	Clay, mottled orange and tan, tan especially noted along bedding planes. Dry. Go	EXP
SB-1(86)	RAD	24-JAN-86	9	14	SHLE		2	Clayey shale, minor coarse sand and gravel, calcareous, mottled tan, orange and	EXP
SB-1(86)	RAD	24-JAN-86	14	19	SHLE		2	Shale, calcareous, dark grey, orange red iron stains along fractures, dry.	EXP
SB-1(86)	RAD	24-JAN-86	19	19.2	SHLE		2	Shale, grey, fissile and dry.	EXP
SB-1(86)	RAD	24-JAN-86	19.2	22	LS		3	Limestone, fossiliferous, grey, sandy.	EXP
SB-10(86)	RAD	22-JUL-86	0	0.5	CN		0	Concrete.	EXP
SB-10(86)	RAD	22-JUL-86	0.5	0.67	FILL		1	FILL. Sand and minor gravel.	EXP
SB-10(86)	RAD	22-JUL-86	0.67	3	FILL		1	Concrete and cobble fill.	EXP
SB-10(86)	RAD	22-JUL-86	3	4	SDCL	CL	1	Sandy clay, minor gravel, sand is medium grained, tan, clay is brown, plastic, da	EXP
S8-10(86)	RAD	22-JUL-86	4	6	GVCL	CL	1	Sandy, gravelly clay, mottled dark brown and tan, gravel and sand is limestone,	EXP
SB-10(86)	RAD	22-JUL-86	6	9	CLAY	CH	1	Clay, brownish grey, plastic, tough.	EXP
SB-10(86)	RAD	22-JUL-86	9	11	SHLE		1	Clay/Shale/Caliche, clay is tan-brown, slightly plastic, dry. Shale is bluish grey. C	EXP
SB-10(86)	RAD	22-JUL-86	11	13.5	SDCL	CL	1	Sandy clay, tan, slightly plastic, dry to slightly damp.	EXP
SB-10(86)	RAD	22-JUL-86	13.5	17	GVCL	CL	2	Gravelly clay, sandy, gravel is fossiliferous (exogyra) limestone; sandy clay as ab	EXP
SB-10(86)	RAD	22-JUL-86	17	19	CLAY	CH	2	Clay, with some limestone. Clay is tan, dry, calcareous.	EXP
S8-10(86)	RAD	22-JUL-86	19	19.5	SHLE		2	Shale, with minor clay, mottled tan and grey, dry, some fossils. Walnut limeston	EXP
SB-100	CNGT	20-MAR-91	0	0.4	CN	NACM	0	Concrete.	BCH
SB-100	CNGT	20-MAR-91	0.4	1.5	SD	SP	1	Pale yellow, med. grain, poorly graded sand.	BCH
SB-100	CNGT	20-MAR-91	1.5	1.7	STCL	CL	1	Brown to gray mottled silty clay, some black organic stringers.	BCH
SB-100	CNGT	20-MAR-91	1.7	2	SD	SP	1	Light gray, medium grain sand, obvious organic staining.	BCH
SB-100	CNGT	20-MAR-91	2	4	CLAY	CL	1	Dark brown clay with trace of silt, moderately plastic, firm, moist, black organic	BCH
SB-100	CNGT	20-MAR-91	4	8	STCL	CL	1	Decrease in black organic stringers, light brown silt with clay, silt about 10% co	BCH
SB-100	CNGT	20-MAR-91	8	13	SDCL	CL	1	10% < 1/4" coarse sand, continued black organic stringers.	BCH
SB-100	CNGT	20-MAR-91	13	16	GVL	GC	1	Limestone gravels, angular, with clay 60% and coarse grain sand light brown to	BCH
SB-100	CNGT	20-MAR-91	16	19	SD	SP	1	Gradually grades from above clay, to silt, to fine sand, coarse and, to gravels 80	BCH
SB-100	CNGT	20-MAR-91	19	20	GVL	GW	3	Well graded gravels with 25% med. sand, very fossiliferous, wet, possible	BCH
SB-101	CNGT	17-MAR-91	0	0.4	CN	NACM	0	Concrete.	BCH
SB-101	CNGT	17-MAR-91	0.4	5	SDCL	CL	1	Sandy clay/gravelly clay, clay mixed with medium grain sand and gravel, moist,	BCH
S8-101	CNGT	17-MAR-91	5	8	STCL	CL	1	Silty clay, firm, moist, with 20% limestone gravel, dark brown with black and re	BCH
SB-101	CNGT	17-MAR-91	8	10	SDCL	CL	1	Sandy clay, dry to slightly moist, medium firmness, with limestone gravels, poor	BCH
SB-101	CNGT	17-MAR-91	10	14	SDSL	ML	1	Sandy silt, dry, medium plasticity slightly firm, poor sorting, brown.	BCH
SB-101	CNGT	17-MAR-91	14	16	SDCL	SC	1	Clayey silty sand, very moist, loose to slightly firm, crumbly, poorly sorted, tan	BCH
SB-102	CNGT	18-MAR-91	0	2	CN	NACM	0	Concrete.	BCH
SB-102	CNGT	18-MAR-91	2	4	CLAY	CH	1	Clay, moist, very plastic, medium, firmness, small amount of silt, dark brown co	BCH
SB-102	CNGT	18-MAR-91	4	8	SDGR	OL	1	Clay/silty clay mixed with large amount (50%) of weathered limestone (rounded	BCH
SB-102	CNGT	18-MAR-91	8	14	CLAY	OH	2	Clay, very hard, very dense, slightly moist, very plastic, nonhomogeneous, la	BCH
SB-102	CNGT	18-MAR-91	14	18	STCL	OL	2	Silty clay, with small amount fine grain sand and some weathered limestone (<	BCH
SB-102	CNGT	18-MAR-91	18	24.5	CLAY	CH	2	Clay, high plasticity, firm, small amount of silt, cohesive mottled coloring of bro	BCH
SB-102	CNGT	18-MAR-91	24.5	25.5	SDCL	CL	2	Sandy clay, fine to medium grain sand, <5% limestone fragments (very weather	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-102	CNGT	18-MAR-91	25.5	26	SDGR	GW	2	Course gravel, limestone mixed with coarse sand, loose, poorly sorted. Water a	BCH
SB-104	CNGT	20-MAR-91	0	1	CN	NACM	0	Concrete.	BCH
SB-104	CNGT	20-MAR-91	1	4	STCL	CL	1	Silty clay, moist medium plasticity, dark brown to black (10YR 2/2), mixed with	BCH
SB-104	CNGT	20-MAR-91	4	6	CLAY	CH	1	Clay, firm, very plastic, moist, small amount of roots, calcareous, mottled colori	BCH
SB-104	CNGT	20-MAR-91	6	14	SHLE	NACM	2	Shaley clay, very plastic, cohesive mosit, non-homogeneous, highly laminated la	BCH
SB-105	CNGT	20-MAR-91	0	0.8	CN	NACM	0	Concrete.	BCH
SB-105	CNGT	20-MAR-91	0.8	2	SDCL	CL	1	Sandy clay, moist, medium plasticity, cohesive, gravel about 10% and roots/wo	BCH
SB-105	CNGT	20-MAR-91	2	4	STCL	CL	1	Silty clay, very loose, wet, mottled coloring gray, green, white, sticky, some me	BCH
SB-105	CNGT	20-MAR-91	4	7	CLAY	CH	1	Clay, highly plastic, very sticky and cohesive, calcareous, firm, mottled coloring,	BCH
SB-105	CNGT	20-MAR-91	7	10	SHLE	NACM	2	Shaley clay, plastic, cohesive, sticky, slightly moist, non-homogenous, very lami	BCH
SB-106	CNGT	21-MAR-91	0	1.2	CN	NACM	0	Concrete.	BCH
SB-106	CNGT	21-MAR-91	1.2	3.5	SDSL	ML	1	Silty 30% fine sand, light brown to brown (7.5YR 6/4-5/4) no identifiable organi	BCH
SB-106	CNGT	21-MAR-91	3.5	17.5	CLAY	CL	1	Light brown to brown clay, trace of <1/8" limestone pebbles, 15% silt, black or	BCH
SB-106	CNGT	21-MAR-91	17.5	18.7	SDGR	GW	3	Gravelly (40%) medium sand, very wet, gravels <.5", light gray limestone	BCH
SB-107	CNGT	21-MAR-91	0	4.8	STCL	ML	1	Silty clay, silt 40% light brown, 10% coarse gravel <1/8", silty clay is mot	BCH
SB-108	CNGT	26-MAR-91	0	2	STCL	CL	1	Brown (7.5YR 5/4), silty clay with gravel, well sorted, gravels angular, low plast	BCH
SB-108	CNGT	26-MAR-91	2	3.5	GVL	GC	1	Strong brown (7.5YR 5/6), gravelly clay, gravel > 60 %, wel	BCH
SB-108	CNGT	26-MAR-91	3.5	5	SDCL	ML	1	Dark brown (7.5YR 3/5), clayey sands.	BCH
SB-108	CNGT	26-MAR-91	5	10	STCL	CL	1	Silty clay with gravel, dark brown (7.5YR 3/4), gravels less than 30%, max size	BCH
SB-108	CNGT	26-MAR-91	10	11.5	CLAY	OH	1	Organic clays with < 10% gravels max. size 1/8", medium plasticity, very moist	BCH
SB-108	CNGT	26-MAR-91	11.5	12	SD	SP	1	Sand lens with limestone gravels up to 3/4", saturated at this lens, well sorted s	BCH
SB-11(86)	RAD	24-JUL-86	0	4	GVCL	CL	1	Sandy, gravelly clay, mottled tan, brown, red, slightly plastic, limestone gravel, s	EXP
SB-11(86)	RAD	24-JUL-86	4	4.75	LS		3	Limestone and clay. Limestone is weathered and tan. Clay is brown, slightly plas	EXP
SB-115	CNGT	17-MAY-91	0	1.5	CN	NACM	0	Concrete.	BCH
SB-115	CNGT	17-MAY-91	1.5	12	STCL	CL	1	Reddish brown (5YR 4/4) silty clay with 10% limestone, coarse sand, silt 20%.	BCH
SB-115	CNGT	17-MAY-91	12	14	SDCL	CL	1	Grades gradually to 50% sand, fine to medium grain with 50% clay.	BCH
SB-115	CNGT	17-MAY-91	14	24	STCL	CL	1	Silty clay, silt 20%, slightly moist. At 19' large pod of gray stained silty clay, st	BCH
SB-115	CNGT	17-MAY-91	24	25	SDGR	GW	1	Gravel and coarse sand increasing to 80% at 25', gravels very wet. Water at 2	BCH
SB-116	CNGT	31-MAR-91	0	1	CN	NACM	0	Concrete.	BCH
SB-116	CNGT	31-MAR-91	1	12	STCL	CL	1	Reddish yellow (7.5YR 6/6) silty clay with <15% gravel, .5" subrounded.	BCH
SB-116	CNGT	31-MAR-91	12	13.4	SDCL	SC	1	Clayey sand, no gravels, light brown (2.5YR 6/4), poorly graded.	BCH
SB-116	CNGT	31-MAR-91	13.4	14	SDGR	GW	1	Sandy gravel-gravel ha some dark staining, gravel is limestone up to 1", poorly g	BCH
SB-116	CNGT	31-MAR-91	14	20	SDCL	SC	1	Clayey sand, light brown (7.5YR 6/4), poorly graded, < 1% gravel, dry.	BCH
SB-116	CNGT	31-MAR-91	20	22	SHLE	NACM	2	25% recovery, hard shaley material, possible Goodland gravels up to 2", dry.	BCH
SB-116	CNGT	31-MAR-91	22	23.5	LS	NACM	3	Very hard material, possible Walnut.	BCH
SB-117	CNGT	18-MAY-91	0	1	CN	NACM	0	Concrete.	BCH
SB-117	CNGT	18-MAY-91	1	3	SDSL	ML	1	Black silty fine grain sand to dark brown clay.	BCH
SB-117	CNGT	18-MAY-91	3	26	STCL	CL	1	30% gray very weathered limestone pods, mottling decreasing to mostly yellowi	BCH
SB-118	CNGT	01-APR-91	0	1	CN	NACM	0	Concrete.	BCH
SB-118	CNGT	01-APR-91	1	15	STCL	CL	1	Brown (7.5YR 5/4) silty clay with 10% weathered limestone gravel, med. plasti	BCH
SB-118	CNGT	01-APR-91	15	22	SDCL	SC	1	Clayey sand, brown (10YR 5/3) with possible petroleum, max. gravel .5", gravel	BCH
SB-120	CNGT	04-APR-91	0	1	CN	NACM	0	Concrete.	BCH
SB-120	CNGT	04-APR-91	1	2	STCL	CL	1	Strong brown (7.5YR 5/6) silty clay, <1% gravel, medium plasticity, dry, white,	BCH
SB-120	CNGT	04-APR-91	2	6	SDCL	CL	1	Clayey sand with 25% white calcareous gravel, dry, gravel .5", subrounded, <1	BCH
SB-120	CNGT	04-APR-91	6	9	SDSL	ML	1	Inorganic silts and fine grained sand, no gravel, dry, poorly graded, brownish yell	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-120	CNGT	04-APR-91	9	10	SDCL	SC	1	Clayey sand, dry, no gravel, brownish yellow (10YR 6/6).	BCH
SB-120	CNGT	04-APR-91	10	12	SDSL	ML	1	Light yellowish brown (10YR 6/4), inorganic silts and sand, no gravel, poorly gra	BCH
SB-120	CNGT	04-APR-91	12	14.6	SDCL	SC	1	Clayey sand, gravel <1%, light yellowish brown (10YR 6/4), moist, light gray	BCH
SB-120	CNGT	04-APR-91	14.6	15	SDGR	GW	1	Well graded sands and gravels, max. size 3/4" moist.	BCH
SB-120	CNGT	04-APR-91	15	24	SDCL	SC	1	Clayey sand with 15% gravel, max. size 3/4" moist, poorly graded, brownish ye	BCH
SB-121	CNGT	04-APR-91	0	1	CN	NACM	0	Concrete.	BCH
SB-121	CNGT	04-APR-91	1	3.8	SDSL	ML	1	Yellow (10YR 7/6), fine grained sands and silt, poorly graded, loose, no gravel,	BCH
SB-121	CNGT	04-APR-91	3.8	10	STCL	CL	1	Silty clay, medium plasticity, (7.5YR 5/6) <10% gravel, subrounded, organic m	BCH
SB-121	CNGT	04-APR-91	10	13.5	SDCL	SC	1	Clayey sand with <1% gravel, gravel subangular to subrounded, brown (10YR 5	BCH
SB-121	CNGT	04-APR-91	13.5	14	CN	NACM	1	Hit asphalt at 13.7' and concrete at 14'.	BCH
SB-122	CNGT	10-APR-91	0	0.6	ASPT	NACM	0	Asphalt.	BCH
SB-122	CNGT	10-APR-91	0.6	10	SDCL	CL	1	Sandy clay, slightly moist, crumbly clay with fine grain sand, brown (7.5YR 5/4)	BCH
SB-122	CNGT	10-APR-91	10	14.5	SDSL	SM	1	Silty sand, fine grain sand with small amount of silt and small amount medium g	BCH
SB-122	CNGT	10-APR-91	14.5	16	SDGR	GW	1	Medium to coarse, weathered limestone gravel mixed with small amount sand (	BCH
SB-122	CNGT	10-APR-91	16	22	SDSL	SM	1	Silty sand, fine grain with some silt and medium grain, subrounded, loose, crum	BCH
SB-122	CNGT	10-APR-91	22	24	SDGR	GW	3	Small amount of wet sand and gravel, water at 22.5'. Small amount of dark gra	BCH
SB-123	CNGT	10-APR-91	0	0.6	ASPT	NACM	0	Asphalt.	BCH
SB-123	CNGT	10-APR-91	0.6	3.5	SD	SP	1	Sand, fine to medium grain, rounded to subrounded, very few fines, slightly moi	BCH
SB-123	CNGT	10-APR-91	3.5	14	SDCL	CL	1	Sandy clay, fine grained sand mixed with clay, moist, slightly plastic, <3% wea	BCH
SB-123	CNGT	10-APR-91	14	16	SDGR	GW	1	Medium to coarse weathered limestone gravel with some medium to coarse sand	BCH
SB-123	CNGT	10-APR-91	16	22	SDSL	SM	1	Silty sand, sand is fine grained and slightly firm to loose, very moist, subrounde	BCH
SB-123	CNGT	10-APR-91	22	24	LS	NACM	3	Cuttings, dark gray limestone, dry, with some rusty oxidation (probable Walnut	BCH
SB-124	CNGT	11-APR-91	0	0.4	ASPT	NACM	0	Asphalt.	BCH
SB-124	CNGT	11-APR-91	0.4	4	SD	SP	1	Sand, subrounded, fine to medium grain, very few fines, slightly moist, loose, w	BCH
SB-124	CNGT	11-APR-91	4	15	SDCL	CL	1	Sandy clay, fine and medium grain subrounded/subangular, slightly moist, weath	BCH
SB-124	CNGT	11-APR-91	15	18	SDSL	SM	1	Silty sand, fine grained, loose, very moist to wet, tan to brown (no black), subro	BCH
SB-126	CNGT	11-APR-91	0	1	CN	NACM	0	Concrete.	BCH
SB-126	CNGT	11-APR-91	1	1.5	SD	SP	1	Sand with approximately 15% gravel, grayish brown (10YR 5/2).	BCH
SB-126	CNGT	11-APR-91	1.5	2	STCL	ML	1	Silty clay, grayish brown with stringers ~10% of black stained silty clay, silt =	BCH
SB-126	CNGT	11-APR-91	2	6.2	CLAY	CL	1	Clay, mottled with grayish brown and yellow (10YR 8/6). With ~10% limestone	BCH
SB-126	CNGT	11-APR-91	6.2	10.5	STCL	ML	1	Silty clay, very organic, rish, dark reddish brown (5YR 2.5/2), non plastic, roots,	BCH
SB-126	CNGT	11-APR-91	10.5	12	SD	SW	3	Silty clay with 10% limestone sands at 10' grading to well gradaed med-coarse	BCH
SB-126	CNGT	11-APR-91	12	12.4	LS	NACM	3	Limestone gravels <2", light gray (5YR 7/1), some evidence of massive limesto	BCH
SB-127	CNGT	14-APR-91	0	1.5	CN	NACM	0	Concrete.	BCH
SB-127	CNGT	14-APR-91	1.5	3.8	SDSL	SC	1	Silty fine sand, silt ~20%, wet, very pale brown (10YR 8/4).	BCH
SB-127	CNGT	14-APR-91	3.8	4	SD	SP	1	Medium to fine sand, light gray to gray (10YR 6/1), wet, strong petroleum odor.	BCH
SB-127	CNGT	14-APR-91	4	5.5	STCL	CL	1	Mottled silty (10%) clay. Palea brown to yellow, wet. Hit pipe	BCH
SB-128	CNGT	14-APR-91	0	1	CN	NACM	0	Concrete.	BCH
SB-128	CNGT	14-APR-91	1	2	SD	SP	1	Fine grained sand, moist yellow (10YR 8/6).	BCH
SB-128	CNGT	14-APR-91	2	6	CLAY	CL	1	Clay with interbedded fine grain sand ~10% <1" thick lenses, clear plastic in s	BCH
SB-128	CNGT	14-APR-91	6	8	GVL	GC	1	Clay with ~50% limestone gravels.	BCH
SB-129	CNGT	14-APR-91	0	1	CN	NACM	0	Concrete.	BCH
SB-129	CNGT	14-APR-91	1	2.5	SD	SP	1	Poor recovery, fine sand, yellow, poorly graded, moist.	BCH
SB-129	CNGT	14-APR-91	2.5	6	CLAY	CL	1	Silt with clay, <5% of silt with ~20% <1/4" coarse sand.	BCH
SB-129	CNGT	14-APR-91	6	11	GVL	GC	1	Gravelly silt/sandy clay, brown, moist to wet, gravel ~40% limestone, silt and s	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-129	CNGT	14-APR-91	11	12	SDCL	CL	1	Increasing in percent of sand to 50%, no visible silts.	BCH
SB-129	CNGT	14-APR-91	12	16	SDGR	GW	1	Grades to well graded gravels, wet, with fine silty sand matrix ~40%, brown, p	BCH
SB-130	CNGT	14-APR-91	0	1.5	CN	NACM	0	Concrete.	BCH
SB-130	CNGT	14-APR-91	1.5	2	SD	SP	1	Fine, poorly graded, sand moist, very pale brown (10YR 8/3).	BCH
SB-130	CNGT	14-APR-91	2	4	SDCL	CL	1	Pale brown (10YR 6/3) clay with 20% fine sand.	BCH
SB-130	CNGT	14-APR-91	4	10	GVL	GC	1	Gravelly clay, gravel ~40% <1" moist, plastic in sample barrel at 5.5'.	BCH
SB-136	CNGT	16-APR-91	0	8	NSNR	NSNR	0	Augered.	BCH
SB-136	CNGT	16-APR-91	8	9	SD	SW	1	Well graded sand, coarse, poorly sorted with gravels < 1", moist, unconsolidate	BCH
SB-136	CNGT	16-APR-91	9	17	STCL	CL	1	Yellow silty clay, silt ~40%, moist, soft, low plasticity.	BCH
SB-136	CNGT	16-APR-91	17	17.4	GVL	GW	1	Very gravelly at bottom >1/4" <.5", wet.	BCH
SB-136	CNGT	16-APR-91	17.4	22	NSNR	NSNR	1	Augered.	BCH
SB-138	CNGT	25-APR-91	0	0.4	ASPT	NACM	0	Asphalt.	BCH
SB-138	CNGT	25-APR-91	0.4	1.5	SDGR	GW	1	Coarse gravel and coarse sand, poorly sorted, dry, loose, rounded to angular.	BCH
SB-138	CNGT	25-APR-91	1.5	3	SDCL	CL	1	Sandy clay/silty clay, high plasticity, dry, crumbly and loose - sand is fine grain	BCH
SB-138	CNGT	25-APR-91	3	3.5	GVL	GW	1	Coarse, dense limestone and limestone gravel, poorly sorted, very moist, angular	BCH
SB-138	CNGT	25-APR-91	3.5	4	CLAY	CL	1	Clay, medium to high plasticity, dry, firm, olive green.	BCH
SB-138	CNGT	25-APR-91	4	5.5	SHLE	NACM	3	Shaley clay, carbonaceous, dry, dense, hard, laminated, olive green.	BCH
SB-138	CNGT	25-APR-91	5.5	6	LS	NACM	3	Water at 5.5', Walnut, dense limestone, gray, fractured with rust colored areas,	BCH
SB-139	CNGT	23-APR-91	0	0.3	ASPT	NACM	0	Asphalt.	BCH
SB-139	CNGT	23-APR-91	0.3	2	STCL	CL	1	Silty clay, 1% fine to coarse sand, dark brown to black (10YR 12/1), well sorte	BCH
SB-139	CNGT	23-APR-91	2	6.7	GVL	GC	1	Gravelly silty clay, olive brown, ~5% gravel, well sorted, subrounded, mod. to	BCH
SB-139	CNGT	23-APR-91	6.7	10	CLAY	CL	1	Clay, olive yellow, <1% gravel, well sorted, good plasticity, moist, calcareous.	BCH
SB-139	CNGT	23-APR-91	10	12	STCL	CL	2	Gravelly clay, 30% gravel, poorly sorted, subrounded, not plastic, slightly moi	BCH
SB-139	CNGT	23-APR-91	12	30	SHLE	NACM	2	Shale, light olive brown, olive yellow, <1% gravel well sorted, mod. indurated,	BCH
SB-140	CNGT	26-APR-91	0	2	CLAY	CL	1	Clay, moist, plastic, firm, mixed with ~50% coarse gravel (up to 2") and mediu	BCH
SB-140	CNGT	26-APR-91	2	3	SD	SP	1	Sand, coarse mixed with ~10% gravel up to 1", very moist, loose, poorly sorted	BCH
SB-140	CNGT	26-APR-91	3	10	STCL	CL	1	Silty clay, moist, medium to high plasticity, slightly firm, brown to black (5YR 3/	BCH
SB-140	CNGT	26-APR-91	10	12	SDCL	CL	1	Sandy clay, saturated, very wet, loose, <50% fine to medium grained, rounded	BCH
SB-144	CNGT	29-APR-91	0	0.4	ASPT	NACM	0	Asphalt.	BCH
SB-144	CNGT	29-APR-91	0.4	1	SDGR	GW	1	Coarse gravel and coarse sand with silt/clay fines (~20%), poorly sorted, dry, lo	BCH
SB-144	CNGT	29-APR-91	1	4.5	GVL	GC	1	Clay, medium plasticity, non-homogeneous mixed with <50% very weathered, s	BCH
SB-145	CNGT	29-APR-91	0	2	SDCL	CL	1	Sandy clay, dry, loose, crumbly, fine to medium grained sand, low plasticity, dar	BCH
SB-145	CNGT	29-APR-91	2	6.5	STCL	CL	1	Silty clay, high plasticity, moist, firm slightly sticky, dark brown.	BCH
SB-145	CNGT	29-APR-91	6.5	8	GVL	GW	1	Coarse gravel and limestone fragments up to 2", poorly, sorted, very moist, cru	BCH
SB-145	CNGT	29-APR-91	8	9	CLAY	CL	1	Clay, very tight, very dense, hard, medium plasticity, wet, cohesive, tan to olive	BCH
SB-145	CNGT	29-APR-91	9	13.7	SHLE	NACM	2	Clayaey shale, dry, stiff, highly laminated, gray, green, and tan, calcareous (Goo	BCH
SB-145	CNGT	29-APR-91	13.7	14.4	LS	NACM	3	Walnut, no recovery, but cuttings of dense, hard, dark gray, dry fossiliferous lim	BCH
SB-148	CNGT	21-MAY-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-148	CNGT	21-MAY-91	0.5	1.5	SDGR	GW	1	Roadbase with some silty clay.	BCH
SB-148	CNGT	21-MAY-91	1.5	17.5	STCL	CL	1	Very dark brown silty clay, trace of coarse grain limestone sands, firm, some sm	BCH
SB-149	CNGT	22-MAY-91	0	0.5	CN	NACM	0	Concrete.	BCH
SB-149	CNGT	22-MAY-91	0.5	2	SDGR	GW	1	Roadbase gravels <.5 ~50% with medium grain sand.	BCH
SB-149	CNGT	22-MAY-91	2	3	SD	SP	1	Medium grain sand, gray, poorly graded strong petroleum odor, <20% gravels	BCH
SB-149	CNGT	22-MAY-91	3	6	STCL	CL	1	Silty clay.	BCH
SB-149	CNGT	22-MAY-91	6	13	NSNR	NSNR	1	Augered.	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-2(86)	RAD	24-JAN-86	0	0.3	ASPT		0	Asphalt.	EXP
SB-2(86)	RAD	24-JAN-86	0.3	1	FILL		1	Fill.	EXP
SB-2(86)	RAD	24-JAN-86	1	4	CLAY	CH	1	Clay, minor silt and sand, orange and tan, plastic, moist to damp, moisture decre	EXP
SB-2(86)	RAD	24-JAN-86	4	4.3	SHLE		2	Clayey shale, calcareous, mottled orange and tan, dry.	EXP
SB-2(86)	RAD	24-JAN-86	4.3	9	SHLE		2	Clayey shale, calcareous, mottled orange and tan, dry.	EXP
SB-2(86)	RAD	24-JAN-86	9	10	SHLE		2	Clayey shale, calcareous, mottled orange and tan, plastic and slightly damp.	EXP
SB-2(86)	RAD	24-JAN-86	10	14	SHLE		2	Clayey shale, calcareous, mottled orange and tan, plastic and slightly damp.	EXP
SB-2(86)	RAD	24-JAN-86	14	19	SHLE		2	Clayey shale, minor gravel, calcareous, mottled orange, tan and grey, slight plasti	EXP
SB-2(86)	RAD	24-JAN-86	19	19.2	SHLE		2	Clayey shale, minor gravel, calcareous, mottled orange, tan and grey, slight plasti	EXP
SB-2(86)	RAD	24-JAN-86	19.2	21	LS		3	Limestone, fossiliferous, grey, sandy.	EXP
SB-3(86)	RAD	26-JAN-86	0	0.3	ASPT		0	Asphalt.	EXP
SB-3(86)	RAD	26-JAN-86	0.3	3.5	SILT	ML	1	Silt, clayey with fine sand and minor gravel, yellow brown, plastic, damp.	EXP
SB-3(86)	RAD	26-JAN-86	3.5	4	SILT	ML	1	Silt, same as above except yellow.	EXP
SB-3(86)	RAD	26-JAN-86	4	9	SHLE		2	Clayey shale, minor gravel, mottled tan and grey, slight fissile and dry.	EXP
SB-3(86)	RAD	26-JAN-86	9	14	SHLE		2	Clayey shale, same as above but damp to dry.	EXP
SB-3(86)	RAD	26-JAN-86	14	19	SHLE		2	Clayey shale, minor sand, calcareous, mottled, tan, orange and grey, damp to dr	EXP
SB-3(86)	RAD	26-JAN-86	19	19.1			2	No returns.	EXP
SB-3(86)	RAD	26-JAN-86	19.1	22	LS		3	Limestone, fossiliferous, grey, sandy.	EXP
SB-4(86)	RAD	26-JAN-86	0	0.3	ASPT		0	Asphalt.	EXP
SB-4(86)	RAD	26-JAN-86	0.3	3.5	FILL		1	FILL. Sand with minor gravel, tan, medium grained, subrounded, slightly damp to	EXP
SB-4(86)	RAD	26-JAN-86	3.5	4.5	SDGR	GP	1	Sand and gravel, some silt, calcareous, mottled orange and brown, sand is poorly	EXP
SB-4(86)	RAD	26-JAN-86	4.5	14	SD	SP	1	Sand, minor gravel, calcareous, tan, primarily fine grained, moderately sorted, fai	EXP
SB-4(86)	RAD	26-JAN-86	14	19	SD	SP	1	Sand, same as above except for several thin shaley limestone and limestone laye	EXP
SB-4(86)	RAD	26-JAN-86	19	24	SD	SP	1	Sand, some silt, calcareous, mottled orange, tan and grey, primarily fine grained,	EXP
SB-4(86)	RAD	26-JAN-86	24	27	SDGR	GP	1	Sand and gravel, calcareous, mottled tan and grey to black, sand is rounded, gra	EXP
SB-4(86)	RAD	26-JAN-86	27	28	SDGR	GP	1	Sand and gravel, same as above but wet.	EXP
SB-4(86)	RAD	26-JAN-86	28	28.3	GVCL	GC	1	Clay and gravel, tan, primarily pea size limestone gravel, subangular to subround	EXP
SB-5(86)	RAD	23-JAN-86	0	0.5	FILL		0	Cement.	EXP
SB-5(86)	RAD	23-JAN-86	0.5	9	SD	SP	1	Sand, minor silt, calcareous, orange and tan, fine to very fine grained sand, roun	EXP
SB-5(86)	RAD	23-JAN-86	9	15.5	CLAY	CH	1	Clay, some silt, calcareous, mottled tan and orange, silt tends to be orange, sligh	EXP
SB-5(86)	RAD	23-JAN-86	15.5	19	SHLE		2	Shale, calcareous, tan, hard, somewhat fissile and dry.	EXP
SB-5(86)	RAD	23-JAN-86	19	24	SHLE		2	Shale, same as above.	EXP
SB-5(86)	RAD	23-JAN-86	24	29	CLAY		2	Shaley clay, calcareous, mottled orange, tan, and grey, plastic.	EXP
SB-5(86)	RAD	23-JAN-86	29	33	SHLE		2	Shale and clayey shale, calcareous, mottled, orange, tan and grey, slightly fissile	EXP
SB-5(86)	RAD	23-JAN-86	33	33.5	LS		3	Limestone, fossiliferous at 33'.	EXP
SB-6(86)	RAD	21-JUL-86	0	6	GVCL	CL	1	Sandy clay and gravel, mottled, red, yellow, brown and black, calcareous, dry to	EXP
SB-6(86)	RAD	21-JUL-86	6	8	GVCL	CL	1	Sandy clay and gravel, tan and yellow, fossiliferous (exogyra), calcareous, damp.	EXP
SB-6(86)	RAD	21-JUL-86	8	9	SDCL	CL	1	Sandy clay, minor gravel, tan and yellow, some fossils (exogyra), hard, calcareou	EXP
SB-7(86)	RAD	21-JUL-86	0	3	GVCL	CL	1	Gravel and sandy clay, mottled brown, tan and white, fossiliferous (exogyra), har	EXP
SB-7(86)	RAD	21-JUL-86	3	4			3	Walnut Formation.	EXP
SB-8(86)	RAD	21-JUL-86	0	5.5	SD	SP	1	Sand, minor gravel and caliche, sand is red, fine-grained, fairly well sorted, slightl	EXP
SB-8(86)	RAD	21-JUL-86	5.5	5.75			3	Walnut Formation.	EXP
SB-9(86)	RAD	22-JUL-86	0	0.75	CN		0	Concrete.	EXP
SB-9(86)	RAD	22-JUL-86	0.75	2	CLAY	CH	1	Clay, dark grey, some sand, damp to moist, plastic, hydrocarbon odor.	EXP
SB-9(86)	RAD	22-JUL-86	2	3	CLAY	CH	1	Clay, dark brown, plastic, damp.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SB-9(86)	RAD	22-JUL-86	3	4	CLAY	CH	1	Clay, same as above but damp to moist.	EXP
SB-9(86)	RAD	22-JUL-86	4	5	CLAY	CH	1	Clay, mottled brown and black, some yellow, minor sand, plastic, tough.	EXP
SB-9(86)	RAD	22-JUL-86	5	9	CLAY	CH	1	Clay, minor limestone sand and gravel, plastic, tough, brownish grey.	EXP
SB-9(86)	RAD	22-JUL-86	9	12	CLAY	CH	1	Clay, minor limestone gravel, fossils, mottled dark red and brownish-black.	EXP
SB-9(86)	RAD	22-JUL-86	12	14	CLAY	CH	1	Clay, with some limestone gravel and sand, exogyra, tan, plastic.	EXP
SB-9(86)	RAD	22-JUL-86	14	17	SDGR	GC	1	Sand, gravel and clay, mottled tan, white, brown, crumbly, dry, exogyra.	EXP
SB-9(86)	RAD	22-JUL-86	17	19	SDCL	SC	1	Clay and sand, tan, plastic, damp water seepage into hole.	EXP
SB-9(86)	RAD	22-JUL-86	19	20.5	SDGR	GC	1	Gravel, sand, clay, tan plus brown, fossils, wet. Walnut Formation at 20.5 feet.	EXP
SG-1		10/26/93	0	3	FILL	NACM	0	FILL,rock base calcereous.	PAR
SG-1		10/26/93	3	5	CLAY	CL	1	Silty Clay, tan calc. with limestone gravel.	PAR
SG-10		10/26/93	0	4	FILL	NACM	0	Fill, rock base, calc. limestone.	PAR
SG-10		10/26/93	4	5	CLAY	CL	1	Silty Clay, tan w/ limestone gravel.	PAR
SG-11		10/26/93	0	3	FILL	NACM	0	Fill, rock base calc. limestone.	PAR
SG-11		10/26/93	3	5	CLAY	CL	1	Silty Clay, tan, limestone gravel.	PAR
SG-12		10/21/93	0	5	FILL	NACM	0	Fill, rock base, calc. limestone fragments, dry.	PAR
SG-13		10/21/93	0	5	FILL	NACM	0	Fill, rock base, calc. limestone fragments, wet(moist).	PAR
SG-14		10/25/93	0	5	FILL	NACM	0	Fill, rock base, calc. limestone.	PAR
SG-15		10/26/93	0	5	FILL	NACM	0	Fill, rock base, calc. limestone gravel.	PAR
SG-16		10/26/93	0	3	FILL	NACM	0	Fill, rock base, calc. limestone gravel.	PAR
SG-16		10/26/93	3	5	CLAY	CL	1	Silty Clay, tan, calc. limestone gravel.	PAR
SG-17		10/22/93	0	5	FILL	NACM	0	Fill, rock base calc. limestone fragments, dry.	PAR
SG-18		10/20/93	0	3	FILL	NACM	0	Fill, rock base, calc. limestone fragments.	PAR
SG-18		10/20/93	3	5	CLAY	CL	1	Silty Clay, tan, dry.	PAR
SG-19		10/26/93	0	3	FILL	NACM	0	Fill, rock base calc. limestone.	PAR
SG-19		10/26/93	3	5	CLAY	CL	1	Silty Clay, tan, calc. limestone gravel.	PAR
SG-2		10/26/93	0	5	FILL	NACM	0	Fill, Rockbase, calc. limestone.	PAR
SG-3		10/25/93	0	4	FILL	NACM	0	Fill, Rockbase, calc. limestone.	PAR
SG-3		10/25/93	4	5	CLAY	CL	1	Silty Clay, tan, clac. limestone nodules.	PAR
SG-4		10/20/93	0	4	FILL	NACM	0	Fill, rock base calc. limestone fragments.	PAR
SG-4		10/20/93	4	5	CLAY	CL	1	Silty Clay, tan, dry.	PAR
SG-5		10/21/93	0	4	FILL	NACM	0	Fill, rock base calc. limestone fragments.	PAR
SG-5		10/21/93	4	4	FILL	NACM	0	Fill, rock base calc. limestone fragments.	PAR
SG-6		10/21/93	0	4	FILL	NACM	0	Fill, rock base, calc. limestone fragments, dry.	PAR
SG-7		10/21/93	0	3	FILL	NACM	0	Fill, rock base, calc. limestone fragments.	PAR
SG-7		10/21/93	3	5	CLAY	CL	1	Silty Clay, tan, dry.	PAR
SG-8		10/25/93	0	4	FILL	NACM	0	Fill, Rock base, calc. limestone.	PAR
SG-8		10/25/93	4	5	CLAY	CL	1	Silty Clay, tan, calc. limestone gravel.	PAR
SG-9		10/26/93	0	5	FILL	NACM	0	Fill, rock base, calc. limestone.	PAR
SL-1	SWL	10-AUG-64	0	1	CLAY	CH	1	Clay, dark brown, stiff.	EXP
SL-1	SWL	10-AUG-64	1	4	CLAY	CH	1	Clay, red-brown, stiff, jointed.	EXP
SL-1	SWL	10-AUG-64	4	7	CLAY	CH	1	Clay, red-yellow, stiff, with embedded caliche pebbles.	EXP
SL-1	SWL	10-AUG-64	7	12.5	CLAY	CH	1	Limey clay, yellow, stiff.	EXP
SL-1	SWL	10-AUG-64	12.5	22	CLAY	CH	1	Clay, yellow, with embedded lime gravel.	EXP
SL-1	SWL	10-AUG-64	22	36	CLAY	CH	1	Joint Clay, yellow-grey, stiff, with thin white limestone layers.	EXP
SL-1	SWL	10-AUG-64	36	41	LS		3	Limestone, blue, with blue shale seams.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SL-11	SWL	27-JAN-67	0	46	STCL	ML	1	Clayey Silt/silty clay. Was described on report as "Wash Bored".	EXP
SL-11	SWL	27-JAN-67	46	56	CLAY	CH	1	Clay, yellow and grey, with embedded gravel.	EXP
SL-11	SWL	27-JAN-67	56	59	LS		3	Limestone, white, with clay layers.	EXP
SL-11	SWL	27-JAN-67	59	60	LS		3	Limestone, blue, with embedded shells and shaley layers.	EXP
SL-12	SWL	27-JAN-67	0	35	STCL	ML	1	Clayey silt/silty clay. Was described as "Wash Bored" on report.	EXP
SL-12	SWL	27-JAN-67	35	40	LS		3	Limestone, white, in layers, with clay layers up to 1-inch thick.	EXP
SL-12	SWL	27-JAN-67	40	42	LS		3	Limestone, blue, with embedded shells and shaley layers.	EXP
SL-13	SWL	28-JAN-67	0	1	FILL	CH	1	FILL. Clay, dark brown.	EXP
SL-13	SWL	28-JAN-67	1	2.5	CLAY	CH	1	Clay, dark brown, hard.	EXP
SL-13	SWL	28-JAN-67	2.5	11	CLAY	CH	1	Clay, brownish-yellow, hard, with caliche pockets.	EXP
SL-13	SWL	28-JAN-67	11	22	CLAY	CH	1	Clay, yellow and grey, hard.	EXP
SL-13	SWL	28-JAN-67	22	35	SDCL	CL	1	Sandy clay, yellow and grey, with embedded gravel.	EXP
SL-13	SWL	28-JAN-67	35	38.5	LS		3	Limestone, white, with yellow clay layers.	EXP
SL-13	SWL	28-JAN-67	38.5	43.5	LS		3	Limestone, blue, with embedded shells, with shaley layers.	EXP
SL-14	SWL	28-JAN-67	0	1.5	CLAY	CH	1	Clay, dark brown, hard.	EXP
SL-14	SWL	28-JAN-67	1.5	7	CLAY	CH	1	Clay, brownish yellow, hard, with caliche pockets.	EXP
SL-14	SWL	28-JAN-67	7	35	CLAY	CH	1	Clay, yellow and grey.	EXP
SL-14	SWL	28-JAN-67	35	64	SDCL	CL	1	Sandy clay, yellow and grey, with embedded gravel.	EXP
SL-14	SWL	28-JAN-67	64	64.1	LSSL		3	Silty Limestone, white, thin layer.	EXP
SL-14	SWL	28-JAN-67	64.1	68	LSSL		3	Silty Limestone, Blue.	EXP
SL-14	SWL	28-JAN-67	68	74	SHLE		3	Silty Shale, blue.	EXP
SL-15	SWL	28-JAN-67	0	2	FILL	CH	1	Clay, dark brown, hard.	EXP
SL-15	SWL	28-JAN-67	2	6.5	CLAY	CH	1	Clay, dark brown, hard.	EXP
SL-15	SWL	28-JAN-67	6.5	13	CLAY	CH	1	Clay, brownish-yellow, hard, with caliche pockets.	EXP
SL-15	SWL	28-JAN-67	13	34	CLAY	CH	1	Clay, yellow and grey, very stiff.	EXP
SL-15	SWL	28-JAN-67	34	37	SDCL	CL	1	Sandy clay, yellow and grey, very stiff, with embedded gravel.	EXP
SL-15	SWL	28-JAN-67	37	38.5	SDGR	GP	1	Sand/Gravel.	EXP
SL-15	SWL	28-JAN-67	38.5	41	LS		3	Limestone, white, with clay layers.	EXP
SL-15	SWL	28-JAN-67	41	46	LS		3	Limestone, blue, with embedded shells and shaley layers.	EXP
SL-16	SWL	28-JAN-67	0	4	CLAY	CH	1	Clay, dark brown.	EXP
SL-16	SWL	28-JAN-67	4	7.5	CLAY	CH	1	Clay, brownish-yellow.	EXP
SL-16	SWL	28-JAN-67	7.5	36	SDCL	CL	1	Sandy clay, yellow and grey.	EXP
SL-16	SWL	28-JAN-67	36	48	CLAY	CH	1	Clay, yellow and grey, with embedded gravel.	EXP
SL-16	SWL	28-JAN-67	48	56	LS		3	Limestone, white, with clay layers.	EXP
SL-16	SWL	28-JAN-67	56	61	LS		3	Limestone, blue, with embedded shells and shaley layers.	EXP
SL-19	SWL	28-JAN-67	0	61	STCL	ML	1	Clayey silt/silty clay. Described as "Wash Bored" on report.	EXP
SL-19	SWL	28-JAN-67	61	63	LS		3	Limestone, white, with clay layers.	EXP
SL-19	SWL	28-JAN-67	63	65	LS		3	Limestone, blue, with embedded shells and shale layers.	EXP
SL-19	SWL	28-JAN-67	65	68	SDCL		3	Sandy clay.	EXP
SL-19	SWL	28-JAN-67	68	79	SHLE		3	Silty shale. Blue.	EXP
SL-2	SWL	10-AUG-64	0	1	CLAY	CH	1	Clay, dark brown, stiff.	EXP
SL-2	SWL	10-AUG-64	1	4	CLAY	CH	1	Joint Clay, red-brown, stiff.	EXP
SL-2	SWL	10-AUG-64	4	7.5	CLAY	CH	1	Joint Clay, red-yellow, stiff, with embedded caliche pebbles.	EXP
SL-2	SWL	10-AUG-64	7.5	11.5	CLAY	CH	1	Limey Clay, yellow, stiff.	EXP
SL-2	SWL	10-AUG-64	11.5	21	CLAY	CH	1	Clay, yellow, stiff, with embedded lime gravel.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SL-2	SWL	10-AUG-64	21	36	CLAY	CH	1	Joint Clay, yellow-grey, stiff, with thin white limestone layers.	EXP
SL-2	SWL	10-AUG-64	36	41	LS		3	Limestone, blue, with thin layers of blue shale.	EXP
SL-20	SWL	03-FEB-67	0	62	STCL	ML	1	Clayey silt/silty clay. Described as "Wash Bored" on report.	EXP
SL-20	SWL	03-FEB-67	62	63	LS		3	Limestone. White.	EXP
SL-20	SWL	03-FEB-67	63	64.5	LSSL		3	Silty Limestone, blue.	EXP
SL-20	SWL	03-FEB-67	64.5	68	STCL		3	Silty clay, blue.	EXP
SL-20	SWL	03-FEB-67	68	75	SHLE		3	Silty Shale, blue.	EXP
SL-20	SWL	03-FEB-67	75	80	STCL		3	Silty Clay, blue.	EXP
SL-20	SWL	03-FEB-67	80	99	SD		3	Sand.	EXP
SL-20	SWL	03-FEB-67	99	113	SS		4	Sandstone.	EXP
SL-21	SWL	04-FEB-67	0	0.5	ASPT		0	FILL. Asphalt.	EXP
SL-21	SWL	04-FEB-67	0.5	2	FILL		1	FILL. Base.	EXP
SL-21	SWL	04-FEB-67	2	6	CLAY	CH	1	Clay, dark brown.	EXP
SL-21	SWL	04-FEB-67	6	9	CLAY	CH	1	Clay, brownish yellow, with caliche pockets.	EXP
SL-21	SWL	04-FEB-67	9	19	CLAY	CH	1	Clay, yellow and grey.	EXP
SL-21	SWL	04-FEB-67	19	62	SDCL	CL	1	Sandy clay, yellow and grey, with embedded gravel.	EXP
SL-21	SWL	04-FEB-67	62	63	LS		3	Limestone, white, thin layer.	EXP
SL-21	SWL	04-FEB-67	63	64	LSSL		3	Silty limestone, blue.	EXP
SL-21	SWL	04-FEB-67	64	75	SHLE		3	Silty shale, blue.	EXP
SL-22	SWL	04-FEB-67	0	48	STCL	ML	1	Clayey silt/silty clay. Described as "Wash Bored" on report.	EXP
SL-22	SWL	04-FEB-67	48	56	LS		3	Limestone, white, in layers, with clay layers up to 6-inches thick.	EXP
SL-22	SWL	04-FEB-67	56	62	LS		3	Limestone, blue, with embedded shells and shale layers.	EXP
SL-23	SWL	04-FEB-67	0	36	STCL	ML	1	Clayey silt/silty clay. Described as "Wash Bored" on report.	EXP
SL-23	SWL	04-FEB-67	36	37.5	LS		3	Limestone, white, with clay layers.	EXP
SL-23	SWL	04-FEB-67	37.5	38.5	LS		3	Limestone, blue, with embedded shells and shale layers.	EXP
SL-28	SWL	18-FEB-67	0	0.5	ASPT		0	FILL. Asphalt.	EXP
SL-28	SWL	18-FEB-67	0.5	12	GVCL	CLGP	1	FILL. Clay/Gravel.	EXP
SL-29	SWL	18-FEB-67	0	0.5	ASPT		0	FILL. Asphalt and subgrade.	EXP
SL-29	SWL	18-FEB-67	0.5	7.5	CLAY	CH	1	Clay, dark brown, with caliche pebbles.	EXP
SL-29	SWL	18-FEB-67	7.5	12	CLAY	CH	1	Joint clay, yellow and grey, stiff.	EXP
SL-29	SWL	18-FEB-67	12	18.5	LS		3	Limestone, white, with clay layers.	EXP
SL-29	SWL	18-FEB-67	18.5	25	LS		3	Limestone, blue, with shells and shale layers up to 3-inches thick.	EXP
SL-3	SWL	10-AUG-64	0	2.5	FILL		1	Concrete and clay.	EXP
SL-3	SWL	10-AUG-64	2.5	5	CLAY	CH	1	Clay, dark brown.	EXP
SL-3	SWL	10-AUG-64	5	21	CLAY	CH	1	Clay, yellow, stiff.	EXP
SL-3	SWL	10-AUG-64	21	39	SD	SP	1	Sand, fine, with some yellow clay.	EXP
SL-3	SWL	10-AUG-64	39	44	SDGR	GP	1	Sand/Gravel.	EXP
SL-3	SWL	10-AUG-64	44	46	LS		3	Limestone, white.	EXP
SL-3	SWL	10-AUG-64	46	50	LS		3	Limestone, blue, with thin shale seams.	EXP
SL-30	SWL	19-FEB-67	0	1	ASPT		0	FILL. Asphalt, with gravel and clay subgrade.	EXP
SL-30	SWL	19-FEB-67	1	7.5	GVCL	CLGP	1	FILL. Clay/Gravel.	EXP
SL-30	SWL	19-FEB-67	7.5	24	CLAY	CH	1	Clay, yellow, stiff.	EXP
SL-30	SWL	19-FEB-67	24	39	LS		3	Limestone, white, with clay layers.	EXP
SL-30	SWL	19-FEB-67	39	45	LS		3	Limestone, blue, with shells and shale layers.	EXP
SL-31	SWL	19-FEB-67	0	0.5	ASPT	CH	0	FILL. Asphalt, clay	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SL-31	SWL	19-FEB-67	0.5	3	CLAY	CH	1	Clay, reddish yellow.	EXP
SL-31	SWL	19-FEB-67	3	7.5	CLAY	CH	1	Clay, reddish yellow, with caliche pebbles.	EXP
SL-31	SWL	19-FEB-67	7.5	11.5	CLAY	CH	1	Clay, yellow, very stiff.	EXP
SL-31	SWL	19-FEB-67	11.5	28.5	LS		3	Limestone, white, with clay layers.	EXP
SL-31	SWL	19-FEB-67	28.5	34	LS		3	Limestone, blue, with shells and shale layers.	EXP
SL-4	SWL	25-JAN-67	0	3	FILL		1	FILL. Clay, dark brown, very stiff.	EXP
SL-4	SWL	25-JAN-67	3	7.5	CLAY	CH	1	Clay, dark brown, very stiff.	EXP
SL-4	SWL	25-JAN-67	7.5	12	CLAY	CH	1	Clay, brownish-yellow, very stiff, with caliche pebbles.	EXP
SL-4	SWL	25-JAN-67	12	27	CLAY	CH	1	Clay, yellow and grey. Water reported at 19 feet.	EXP
SL-4	SWL	25-JAN-67	27	38	SDCL	CL	1	Sandy clay, yellow and grey, with embedded gravel.	EXP
SL-4	SWL	25-JAN-67	38	38.5	LS		3	Limestone, white.	EXP
SL-4	SWL	25-JAN-67	38.5	43.5	LS		3	Limestone, blue, with embedded shells and shale layers.	EXP
SL-5	SWL	25-JAN-67	0	4.5	CLAY	CH	1	Clay. Dark brown, hard.	EXP
SL-5	SWL	25-JAN-67	4.5	9	CLAY	CH	1	Clay. Brownish yellow, hard, with caliche pebbles.	EXP
SL-5	SWL	25-JAN-67	9	28	CLAY	CH	1	Clay. Yellow and grey, hard.	EXP
SL-5	SWL	25-JAN-67	28	35	SDCL	CL	1	Sandy Clay. Yellow and grey, with embedded gravel.	EXP
SL-5	SWL	25-JAN-67	35	37	LS		3	Limestone. White, with clay layers.	EXP
SL-5	SWL	25-JAN-67	37	43	LS		3	Limestone. Blue, with embedded shells and shale layers.	EXP
SL-6	SWL	25-JAN-67	0	1.5	FILL		1	FILL. Clay, dark brown.	EXP
SL-6	SWL	25-JAN-67	1.5	6	CLAY	CH	1	Clay, dark brown, hard.	EXP
SL-6	SWL	25-JAN-67	6	13.5	CLAY	CH	1	Clay, brownish-yellow, hard, with caliche pockets.	EXP
SL-6	SWL	25-JAN-67	13.5	31	CLAY	CH	1	Clay, yellow and grey, hard.	EXP
SL-6	SWL	25-JAN-67	31	38	SDCL	CL	1	Sandy clay, yellow and grey, with embedded gravel.	EXP
SL-6	SWL	25-JAN-67	38	39	LS		3	Limestone, white.	EXP
SL-6	SWL	25-JAN-67	39	44	LS		3	Limestone, blue, with embedded shells, with shale layers.	EXP
SL-7	SWL	26-JAN-67	0	2	FILL		1	FILL. Clay, dark brown.	EXP
SL-7	SWL	26-JAN-67	2	12	CLAY	CH	1	Clay, dark brown, very stiff.	EXP
SL-7	SWL	26-JAN-67	12	30.5	CLAY	CH	1	Clay, brownish-yellow and grey, hard.	EXP
SL-7	SWL	26-JAN-67	30.5	38	SDCL	CL	1	Sandy clay, yellow and grey, hard, with embedded gravel.	EXP
SL-7	SWL	26-JAN-67	38	39	LS		3	Limestone, white.	EXP
SL-7	SWL	26-JAN-67	39	44	LS		3	Limestone, blue, with embedded shells and shale layers.	EXP
SL-8	SWL	26-JAN-67	0	8.5	CLAY	CH	1	Clay, dark brown.	EXP
SL-8	SWL	26-JAN-67	8.5	14	CLAY	CH	1	Clay, brownish-yellow, with caliche pockets.	EXP
SL-8	SWL	26-JAN-67	14	20	CLAY	CH	1	Clay, yellow and grey.	EXP
SL-8	SWL	26-JAN-67	20	37.5	SDCL	CL	1	Sandy clay, yellow and grey, with embedded gravel.	EXP
SL-8	SWL	26-JAN-67	37.5	39	LS		3	Limestone, white.	EXP
SL-8	SWL	26-JAN-67	39	44	LS		3	Limestone, blue, with embedded shells and shaley layers.	EXP
SL-9	SWL	26-JAN-67	0	5	CLAY	CH	1	Clay, dark brown, hard.	EXP
SL-9	SWL	26-JAN-67	5	18	CLAY	CH	1	Clay, brownish-yellow, hard, with caliche pockets.	EXP
SL-9	SWL	26-JAN-67	18	35	CLAY	CH	1	Clay, yellow and grey, very stiff.	EXP
SL-9	SWL	26-JAN-67	35	60	SDCL	CL	1	Sandy clay, yellow and grey, very stiff, with embedded gravel.	EXP
SL-9	SWL	26-JAN-67	60	62	LS		3	Limestone, white.	EXP
SL-9	SWL	26-JAN-67	62	64	LS		3	Limestone, blue, with embedded shells and shale layers.	EXP
TH-1	SWL	02-DEC-82	0	4	GVCL	CLGC	1	Clayey gravel/gravelly clay. No odor.	EXP
TH-11	SWL	06-DEC-82	0	1	GVCL	CL	1	FILL. Gravelly clay soil horizon.	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
TH-11	SWL	06-DEC-82	1	3	GVCL	CL	1	FILL. Gravelly clay, slightly moist, fragments of glass and red brick, no odor.	EXP
TH-11	SWL	06-DEC-82	3	3.1	LS		3	Limestone, light brown to buff, dry.	EXP
TH-12	SWL	06-DEC-82	0	0.5	GVCL	CL	1	FILL. Gravelly clay soil horizon, dark brown, no odor.	EXP
TH-12	SWL	06-DEC-82	0.5	2	GVCL	CL	1	FILL. Gravelly clay, dark brown, slightly moist, red brick fragments, no odor.	EXP
TH-12	SWL	06-DEC-82	2	2.1	LS		3	Limestone, dry.	EXP
TH-13	SWL	06-DEC-82	0	0.5	GVCL	CL	1	FILL. Gravelly clay soil horizon, dark brown, slightly moist, no odor.	EXP
TH-13	SWL	06-DEC-82	0.5	2	GVCL	CL	1	FILL. Gravelly clay, dark brown, moist, fragments of glass, no evidence of burnt r	EXP
TH-13	SWL	06-DEC-82	2	2.1	LS		3	Limestone.	EXP
TH-14	SWL	06-DEC-82	0	1	GVCL	CL	1	Gravelly clay, dark brown, soil horizon, slightly moist to moist, no odor.	EXP
TH-14	SWL	06-DEC-82	1	1.1	LS		3	Limestone.	EXP
TH-15	SWL	06-DEC-82	0	1	GVCL	CL	1	Gravelly clay, dark brown, slightly moist, no odor.	EXP
TH-15	SWL	06-DEC-82	1	1.1	LS		3	Limestone.	EXP
TH-16	SWL	06-DEC-82	0	1	GVCL	CL	1	Gravelly clay, dark brown-brown, moist, no odor.	EXP
TH-16	SWL	06-DEC-82	1	2	SDGR	SP	1	Gravelly sand, orange-brown, moist, no odor.	EXP
TH-16	SWL	06-DEC-82	2	2.1	LS		3	Limestone.	EXP
TH-17	SWL	06-DEC-82	0	3	GVCL	CL	1	Gravelly clay, brown-orange brown, moist, firm, cohesive, no odor.	EXP
TH-17	SWL	06-DEC-82	3	3.1	LS		3	Limestone.	EXP
TH-18	SWL	06-DEC-82	0	4	GVCL	CL	1	Gravelly clay, dark brown-orange brown, slightly moist, no odor.	EXP
TH-18	SWL	06-DEC-82	4	4.1	LS		3	Limestone.	EXP
TH-19	SWL	06-DEC-82	0	1	SDCL	SC	1	Clayey sand, orange-brown, slightly moist to moist, no odor.	EXP
TH-19	SWL	06-DEC-82	1	2	GVCL	CL	1	Gravelly clay, dark brown, moist, no odor.	EXP
TH-19	SWL	06-DEC-82	2	3	LS		3	Limestone.	EXP
TH-2	SWL	02-DEC-82	0	0.5	CN		0	FILL. Concrete.	EXP
TH-2	SWL	02-DEC-82	0.5	11	FILL		1	FILL. No odor.	EXP
TH-20	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt and subgrade.	EXP
TH-20	SWL	07-DEC-82	1	3	GVCL	CL	1	FILL. Gravelly clay, greyish brown to black, moist, firm, bright green and black re	EXP
TH-20	SWL	07-DEC-82	3	5	GVCL	CL	1	FILL. Gravelly clay, grey brown to black, moist, firm, refuse including metal, red	EXP
TH-20	SWL	07-DEC-82	5	7	GVCL	CL	1	FILL. Gravelly clay, light to dark brown and black, moist, firm, refuse including m	EXP
TH-20	SWL	07-DEC-82	7	8	SDGR	SP	1	Gravelly sand, grey to light brown, wet, quartz sand, no oil, no odor.	EXP
TH-21	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt & subgrade.	EXP
TH-21	SWL	07-DEC-82	1	2	GVCL	CL	1	FILL. Gravelly clay, light to dark brown, moist, firm, strong oil odor but none visi	EXP
TH-21	SWL	07-DEC-82	2	4	GVCL	CL	1	FILL. Gravelly clay, brown-black, moist, firm, black zones with strong solvent-like	EXP
TH-21	SWL	07-DEC-82	4	5	GVCL	CL	1	FILL. Gravelly clay, dark brown to black, moist, firm, bright green and yellow dis	EXP
TH-21	SWL	07-DEC-82	5	11	SDGR	SP	1	FILL. Gravelly sand, light brown, very moist, slightly dense, strong diesel fuel odo	EXP
TH-21	SWL	07-DEC-82	11	12	SDGR	SP	1	Gravelly sand, light brown, wet, slightly dense, strong diesel fuel odor.	EXP
TH-22	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt and subgrade.	EXP
TH-22	SWL	07-DEC-82	1	2.5	GVCL	CL	1	FILL. Gravelly clay, light brown, moist, firm, no odor.	EXP
TH-22	SWL	07-DEC-82	2.5	4	FILL		1	FILL. Concrete and rebar.	EXP
TH-23	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt and subgrade.	EXP
TH-23	SWL	07-DEC-82	1	3	SDCL	CL	1	FILL. Sandy clay, light brown, moist, slightly dense, some gravel, no odor.	EXP
TH-23	SWL	07-DEC-82	3	8	SDCL	CL	1	FILL. Sandy clay, light brown, moist, firm, zones of black discoloration, some pla	EXP
TH-23	SWL	07-DEC-82	8	11	SDGR	SP	1	Gravelly sand, grey to light brown, wet, slightly dense, blue-grey fossiliferous lim	EXP
TH-24	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt and subgrade.	EXP
TH-24	SWL	07-DEC-82	1	2	GVCL	CL	1	FILL. Gravelly clay, light brown, moist, firm, cloth and wire refuse.	EXP
TH-24	SWL	07-DEC-82	2	3	GVCL	CL	1	FILL. Gravelly clay, darkd brown to black, moist, firm, lense of quartz sand, cloth	EXP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
TH-24	SWL	07-DEC-82	3	11	SDCL	CL	1	FILL. Sandy clay, dark brown to black, very moist to wet, firm, light grey chemic	EXP
TH-24	SWL	07-DEC-82	11	15	SDCL	CL	1	FILL. Same as 10 to 11 feet, but wet and saturated with more black oil, strong o	EXP
TH-24	SWL	07-DEC-82	15	17	SDSL	SM	1	Silty sand, light blue-grey, saturated, slightly loose, uniform, visible oil, strong oil	EXP
TH-25	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt and subgrade.	EXP
TH-25	SWL	07-DEC-82	2	3	SDCL	CL	1	FILL. Sandy clay, dark brown to black, moist, firm, orange, green and yellow resi	EXP
TH-25	SWL	07-DEC-82	3	12	SDCL	CL	1	FILL. Sandy clay, brown to black, moist, slightly firm, gravel up to 1/2 inch diam	EXP
TH-25	SWL	07-DEC-82	12	13	SDCL	CLSC	1	FILL. Sandy clay/clayey sand, black to orange-brown, water seepage, black burn	EXP
TH-26	SWL	07-DEC-82	0	0.1	FILL		0	FILL. Oil sludge.	EXP
TH-26	SWL	07-DEC-82	0.1	1	GVCL	CL	1	FILL. Gravelly clay, wet, firm.	EXP
TH-26	SWL	07-DEC-82	1	2	GVCL	CL	1	FILL. Gravelly clay, brown to orange-brown with light blue-grey, very moist to w	EXP
TH-26	SWL	07-DEC-82	2	4	SHLE		3	Clayey shale, light blue-grey to light brown with white, moist, very firm, strong o	EXP
TH-26	SWL	07-DEC-82	4	6.1	LS		3	Limestone at 6 ft, buff, slightly moist, very dense, strong oil odor.	EXP
TH-3	SWL	02-DEC-82	0	0.5	CN		0	FILL. Concrete.	EXP
TH-3	SWL	02-DEC-82	0.5	6.5	FILL	GC	1	FILL. Clayey gravel.	EXP
TH-3	SWL	02-DEC-82	6.5	9	FILL	CL	1	FILL. Gravelly clay.	EXP
TH-3	SWL	02-DEC-82	9	11	FILL	CL	1	FILL. Clayey material, yellow, odor.	EXP
TH-4	SWL	02-DEC-82	0	0.5	CN		0	FILL. Concrete.	EXP
TH-4	SWL	02-DEC-82	0.5	4	CLAY	CH	1	Clay, dark brown, stiff, no odor.	EXP
TH-4	SWL	02-DEC-82	4	10	SDCL	CL	1	Sandy clay, orange-brown, no odor.	EXP
TH-5	SWL	02-DEC-82	0	0.5	CN		0	FILL. Concrete.	EXP
TH-5	SWL	02-DEC-82	0.5	5.5	CLAY	CH	1	Clay, dark brown, organic.	EXP
TH-5	SWL	02-DEC-82	5.5	13	GVCL	CL	1	Gravelly clay, light brown to tan, hard drilling.	EXP
TH-5	SWL	02-DEC-82	13	15	LSCL		2	Clayey limestone/clay, clay contains limestone lasts.	EXP
TH-6	SWL	02-DEC-82	0	5	GVCL	CL	1	FILL. Gravelly clay.	EXP
TH-6	SWL	02-DEC-82	5	6.5	GVCL	GC	1	FILL. Clayey gravel, very wet, no odor.	EXP
TH-6	SWL	02-DEC-82	6.5	7	GVL	GP	1	FILL. Gravel, strong odor.	EXP
TH-6	SWL	02-DEC-82	7	7.1	FILL		1	Very bad odor.	EXP
TH-7	SWL	02-DEC-82	0	2	CLAY	CH	1	FILL. Clay, dark brown, slightly moist, cohesive, odor.	EXP
TH-7	SWL	02-DEC-82	2	3	GVCL	CL	1	FILL. Gravelly clay, very soft.	EXP
TH-7	SWL	02-DEC-82	3	4.5	CLAY	CH	1	FILL. Clay, dark brown, slightly moist, cohesive, no odor.	EXP
TH-7	SWL	02-DEC-82	4.5	6	GVCL	CL	1	Gravelly clay, light brown, dry, stiff.	EXP
TH-7	SWL	02-DEC-82	6	10	SDCL	CL	1	Sandy clay, orange-brown, moist, firm, no odor.	EXP
TH-8	SWL	02-DEC-82	0	1.5	GVCL	CL	1	FILL. Clay/Gravelly clay.	EXP
TH-8	SWL	02-DEC-82	1.5	3.5	CLAY	CH	1	FILL. Clay, yellow/green. At 2.5 drilling bit encountered 8-inch orange plastic ind	EXP
TH-8	SWL	02-DEC-82	3.5	5	FILL		1	FILL. Chemical sludge, bright yellow-green, strong odor.	EXP
TH-8	SWL	02-DEC-82	5	5.1	FILL		1	FILL. Very strong odor.	EXP
TH-9	SWL	05-DEC-82	0	1	CLAY	CH	1	Clay, dark brown, moist, firm, cohesive, trace of sand and gravel, grass roots, no	EXP
TH-9	SWL	05-DEC-82	1	2	SDCL	CL	1	Sandy clay, brown, moist, very firm, trace of gravel, slightly oxidized, no odor.	EXP
TH-9	SWL	05-DEC-82	2	4	SDCL	CL	1	Sandy clay, brown, moist, stiff, trace of weathered white limestone gravel, no o	EXP
TH-9	SWL	05-DEC-82	4	6	SDCL	CL	1	Sandy clay, light brown, slightly moist, very stiff, increasing gravel content, no o	EXP
USGS01P		12/12/93	0	0.5	NAUM	CL	1	TOPSOIL, dark brown (10YR3/3).	PAR
USGS01P		12/12/93	0.5	9	NAUM	CL	1	CLAY, dark brown (10 YR 4/4), sandy.	PAR
USGS01P		12/12/93	9	17	NAUM	SC	1	SANDSTONE, reddish brown (7 YR 3/4), poorly sorted, ang to subang grains, sm	PAR
USGS01P		12/12/93	17	20	LS	NACM	2	LIMESTONE, white (2.54), hard, interbedded w/gray-white (2.54 N 7/0).	PAR
USGS01P		12/12/93	20	24	CLAY	NACM	2	CLAY, @22 sandy clay.	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
USGS01P		12/12/93	24	28	LS	NACM	3	LIMESTONE, gray to lgt gray (7.5 YR /N5-5 YR/7/1) hard, mottled, w/fossil frag	PAR
USGS01P		12/12/93	28	47	LS	NACM	3	LIMESTONE, gray to lgt gray (7.5 YR /N5-5 YR/7/1) hard, mottled, w/fossil frag	PAR
USGS01P		12/12/93	47	66	CLAY	NACM	4	CLAY, lt gray (5 YR 7/1), calcareous, w/v fine qtz sand grains. TOP of PALUXY	PAR
USGS01P		12/12/93	66	83	CLAY	NACM	4	CLAY, greenish gray (5 G 6/1), w/v fine qtz sand grains.	PAR
USGS01P		12/12/93	83	101	CLAY	NACM	4	CLAY, sand, dark gray (5Y 4/1), w/pyrite nodules and coal.	PAR
USGS01P		12/12/93	101	114	SD	NACM	4	SAND, gray (5Y 6/1), well sorted, well rnd, f grained, indurated to friable.	PAR
USGS01T		11/10/93	0	2.5	NAUM	CL	1	CLAY, silty, top soil, poorly sorted, plastic, dark yellow brown (10YR 3/4).	PAR
USGS01T		11/10/93	2.5	4	NAUM	CL	1	CLAY, silty, w/increasing amt of clay w/<1% white, med sand size grains of cal	PAR
USGS01T		11/10/93	4	11	NAUM	SC	1	SAA, sand size increasing to coarse sand, yellowish red (5YR 4/6).	PAR
USGS01T		11/10/93	11	14	NAUM	SC	1	SAND, silty to clayey, poorly sorted. sl plastic, saturated, <1% whie med snad s	PAR
USGS01T		11/10/93	14	18.5	NAUM	SC	1	SAND, silty to clayey, med sand, better sorted than above, more coarse sand - 1	PAR
USGS01T		11/10/93	18.5	20.5	NAUM	GM	1	GRAVEL, weathered ls, dry white (2.5 Y 8/2), ang to subrnd clasts of ls and sm	PAR
USGS01T		11/10/93	20.5	20.5	LS	NACM	3	LIMESTONE, mottled, dry, light yellowish brown (2.5 Y 6/4). WALNUT ?	PAR
USGS02T		11/18/93	0	1	NAUM	SC	1	SAND, silty, clayey, top soil, f grained, well sorted, damp, dk yellosih brn (10 YR	PAR
USGS02T		11/18/93	1	3	NAUM	SC	1	SAND, silty, clayey, f grained, well sorted, damp, strong brn (10 YR 4/4) to dark	PAR
USGS02T		11/18/93	3	8	NAUM	CL	1	CLAY,silty, sandy, sl plastic, getting drier w/depth, reddish brn (5 YR 4/4).	PAR
USGS02T		11/18/93	8	12	NAUM	CL	1	CLAY,silty, sandy, sl plastic, wellowish red (5 YR 5/6).	PAR
USGS02T		11/18/93	12	14.5	NAUM	SM	1	SAND, silty, clayey, f grained, well sorted, damp, strong brn (10 YR 4/4) to dark	PAR
USGS02T		11/18/93	14.5	20	NAUM	SW	1	SAND, f to med grained, subrnd, little coarse sand, yellowish red (5 YR 5/8).	PAR
USGS02T		11/18/93	20	23	NAUM	SP	1	SAND, f to crs grained, subang to subrnd, yellowish red (5 YR 5/8).	PAR
USGS02T		11/18/93	23	24	NAUM	SP	1	SAA, plus gravel 3-5%, ang, fossil fragments to 0.5" diam, saturated.	PAR
USGS02T		11/18/93	24	25	NAUM	SP	1	No returns. More drilling pressure, sm drilling "chatter".	PAR
USGS02T		11/18/93	25	42	NAUM	SP	1	SAND, f to med grained, reddish yellow (7.5 YR 6/6) w/3 - 5% white fossil frag	PAR
USGS02T		11/18/93	42	45	NAUM	SP	1	SAND, f to med grained, strong brown (7.5 YR 5/8), 5% fossil fragments to 0.5	PAR
USGS02T		11/18/93	45	48	LS	NACM	3	LIMESTONE, hard drilling, cutting on bottom auger include sand as above & grav	PAR
USGS03T		11/9/93	0	2	FILL	NA	0	Poorly sorted clayey silt w/gravel & other fill material, nails, etc.	PAR
USGS03T		11/9/93	2	4	FILL	GC	1	GRAVEL, upto 1.5", light yellowish brown (10 YR 6/4), plastic.	PAR
USGS03T		11/9/93	4	8	FILL	SC	1	SILT, clayey, no gravel, dark yellowish brown (10 YR 4/4), plastic.	PAR
USGS03T		11/9/93	8	8.5	LS	NACM	3	LIMESTONE, light gray (10 YR 7/2), plastic, auger refusal at 8.5.	PAR
USGS04T		11/10/93	0	3.5	NAUM	SC	1	SILT, clayey to sandy, poorly sorted, <1% sand size grains, reddish brown (5 Y	PAR
USGS04T		11/10/93	3.5	15	NAUM	SC	1	SILT, clayey to sandy, poorly sorted, white med sand size grains (caliche, ls) and	PAR
USGS04T		11/10/93	15	21	NAUM	SC	1	SILT, clayey, w/2% sand and gravel as above, yellowish brown (10 YR 5/6), plas	PAR
USGS04T		11/10/93	21	26.5	NAUM	GC	1	GRAVEL, poorly sorted, subrnd, upto 1.25", calcareous.	PAR
USGS04T		11/10/93	26.5	26.5	LS	NACM	3	LIMESTONE, marly, light gray (10 YR 6/1), dry, auger refusal.	PAR
USGS05P		1/6/94	0	3	NAUM	CL	1	CLAY, dark brown (7 YR 3/3), top soil.	PAR
USGS05P		1/6/94	3	5	NAUM	CL	1	CLAY, dark brown (7 YR 3/3), sandy.	PAR
USGS05P		1/6/94	5	10	LS	NACM	2	LIMESTONE, light brown (7 YR 6/3), mottled, indurated, 1% vuggy porosity, con	PAR
USGS05P		1/6/94	10	13	CLAY	NACM	2	CLAY, pinkish gray (7 YR 7/2), calcareous w/v f quartz grains.	PAR
USGS05P		1/6/94	13	21	SD	NACM	2	SAND, clear quartz, med to f grained, subang to ang w/ 15% rose qtz and chert	PAR
USGS05P		1/6/94	21	24	LS	NACM	3	LIMESTONE, gray (2.5 YR N6/0) to dark gray (2.5 YR N4/0), hard, with fossil fra	PAR
USGS05P		1/6/94	24	36	LS	NACM	3	LIMESTONE, lt gray to gray (2.5 YR N7/0 to (2.5 YR N5/0), lithographic, w/1%	PAR
USGS05P		1/6/94	36	40	LS	NACM	3	LIMESTONE, lt gray to brownish gray (10 YR 7/1 to 10 YR 6/2), w/2% black (10	PAR
USGS05P		1/6/94	40	46	CLAY	NACM	4	CLAY, pinkish gray (5 YR 6/2) w/very f qtz sand grains. TOP of PALUXY.	PAR
USGS05P		1/6/94	46	51	CLAY	NACM	4	CLAY, Sandy, gray (10 YR 6/1) w/very f sand grains.	PAR
USGS05P		1/6/94	51	57	SSSH	NACM	4	CLAY, SAA, interbedded sandstone, white (10 YR 8/1), vf to f grained, subang t	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
USGS05P		1/6/94	57	60	SS	NACM	4	SANDSTONE, pinkish gray (7 YR 6/2), f grained, soft, w/large euhedral pyrite cry	PAR
USGS05P		1/6/94	60	65	SS	NACM	4	SANDSTONE, pinkish gray (7 YR 6/2), f grained, soft, w/large euhedral pyrite cry	PAR
USGS05P		1/6/94	65	70	SS	NACM	4	Very poor returns.	PAR
USGS05P		1/6/94	70	80	SS	NACM	4	SANDSTONE, light gray (7 YR 6/0), f grained, well sorted, subrnd, v well cement	PAR
USGS05P		1/6/94	80	83	SDCL	NACM	4	SAND, lt gray (7 YR N6/0) f grained, clayey.	PAR
USGS05P		1/6/94	83	90	SD	NACM	4	SAND, white (7 YR N8/0) v f grained, sugar sand.	PAR
USGS06P		1/6/94	0	2	NAUM	OL	1	Top Soil, v dark brown (10 YR 2/2), clayey and sandy.	PAR
USGS06P		1/6/94	2	12	NAUM	CL	1	CLAY, strong brown (7.5 YR 5/8), w/v f qtz grains, calcareous.	PAR
USGS06P		1/6/94	12	17	NAUM	CL	1	CLAY, strong brown (7.5 YR 5/8), w/50% atz sand grains (fine) and red (10 YR	PAR
USGS06P		1/6/94	17	24.3	NAUM	SP	1	SAND, c grained, poorly sorted, subang to subrnd, contains grains of agate, cher	PAR
USGS06P		1/6/94	24.3	36	LS	NACM	3	LIMESTONE, mottled light gray (7.5 YR 7/0) to dark gray (7.5 YR N4/0), dense, f	PAR
USGS06P		1/6/94	36	42	MARL	NACM	3	MARL, v dark gray (7.5 YR N3/0), calcareous, sm SHALE, black (7.5 YR N2/0), f	PAR
USGS06P		1/6/94	42	46	LS	NACM	3	LIMESTONE, gray (7.5 YR N7/0 - N6/0), mottled, dense, w/microfossils, sm foss	PAR
USGS06P		1/6/94	46	52	SS	NACM	4	SANDSTONE, gray (7.5 YR N6/0), v f grained, well indurated to v soft, well sort	PAR
USGS06P		1/6/94	52	56	MARL	NACM	4	MARL, dark gray (7.5 YR N4/0), sl calcareous, w/15% v f qtz sand grains.	PAR
USGS06P		1/6/94	56	73.3	SS	NACM	4	SAND, clayey, gray (7.5 YR N5/0), very well sorted, v f qtz sand grains, sm coal	PAR
USGS06T		11/13/93	0	2.5	NAUM	SC	1	SAND, clayey, silty, w/coarse sand, < 1% subrnd white ls/caliche, very plastic,	PAR
USGS06T		11/13/93	2.5	8	NAUM	SC	1	SAND, clayey, silty, w/gravel sized ls/caliche up to 0.75", gravel and sand 1-2%	PAR
USGS06T		11/13/93	8	16	NAUM	SC	1	SAND, coarser, less clay, 1-2% sand size ls/caliche grains, gravel about 5%, gry	PAR
USGS06T		11/13/93	16	21	NAUM	SP	0	SAND, well sorted fine sand/silt, wet, semiplastic, yellowish brown, (10 YR 8/2).	PAR
USGS06T		11/13/93	21	22.5	LS	NACM	0	LIMESTONE, weathered, dry, white (10YR 8/2)	PAR
USGS07P		12/18/93	0	7	NAUM	CL	1	CLAY, brownish yellow (10 YR 6/6), calcareous, w/v f to c grained, subang to w	PAR
USGS07P		12/18/93	7	17.5	NAUM	SP	1	SAND, brownish yellow to pale brown (10 YR 6/6 to 10 YR 8/3), calcareous ce	PAR
USGS07P		12/18/93	17.5	19	LS	NACM	2	LIMESTONE, pale yellow brown (10 YR 7/3), dense. TOP of WALNUT?	PAR
USGS07P		12/18/93	19	40	CLAY	NACM	2	CLAY, v dark gray (2.5 YN3), sandy sl calcareous, interbedded w/shale, dark gra	PAR
USGS07P		12/18/93	40	46	MARL	NACM	2	MARL, gray to dark gray (2.5 YN6 to 2.5 YN4 3/2), calcareous, w/pyrite.	PAR
USGS07P		12/18/93	46	51	LS	NACM	3	LIMESTONE, mottled, lt brownish gray to v dark grayish brown (2.5 Y 6/2 to 2.5	PAR
USGS07P		12/18/93	51	65	LS	NACM	3	LIMESTONE, dark gray (2.5 Y N4), w/microfossil fragments interbedded w/ marl,	PAR
USGS07P		12/18/93	65	75	CLAY	NACM	3	CLAY, calcareous, gray (7.5 R N/5), sandy, interbedded w/sandy clay, lt gray (1	PAR
USGS07P		12/18/93	75	80	SS	NACM	4	SAND, clayey, pinkish gray (5 YR 6/2), v f grained, well rnd, well sorted.	PAR
USGS07P		12/18/93	80	140	CLAY	NACM	4	CLAY, sandy, gray (7.5 R N/5) calcareous interbedded w/sand, clayey, dark gray	PAR
USGS07T		11/12/93	0	15	NAUM	SC	1	CLAY, sandy to silty, poorly sorted, <1% white subang, coarse sand size calich	PAR
USGS07T		11/12/93	15	16	NAUM	GC	1	GRAVEL, weathered ls, subang to ang, upto 1.25", white (2.5 YR 2/2), dry.	PAR
USGS07T		11/12/93	16	16.5	LS	NACM	2	LIMESTONE, white (2.5 YR 2/2), dry	PAR
USGS08PL		1/10/94	0	4	LS	NACM	3	LIMESTONE, gray (5 YR 6/1), fossiliferous, dense, sm clay, reddish brown (2.5 Y	PAR
USGS08PL		1/10/94	4	7	LS	NACM	3	LIMESTONE, pinkish white to reddish yellow (5 YR 8/2 to 5 YR 6/8),dense.	PAR
USGS08PL		1/10/94	7	10	LS	NACM	3	LIMESTONE, gray to v dark gray (2.5 YR 6/0 to 2.5 N 3/0),dens, fossiliferous.	PAR
USGS08PL		1/10/94	10	16	LS	NACM	3	LIMESTONE, gray (2.5 YR 6/0), v dense with microscopic black (2.5 YR N2.5/0)	PAR
USGS08PL		1/10/94	16	29	LS	NACM	3	LIMESTONE, white (10 YR 8/1) with 50% black (2.5 YR N2.5/0) inclusions and	PAR
USGS08PL		1/10/94	29	30	SS	NACM	4	SANDSTONE, light reddish brown (2.5 YR 6/4) with red inclusions (2.5 YR 5/8),	PAR
USGS08PL		1/10/94	30	35	SD	NACM	4	SANDSTONE, light reddish brown (2.5 YR 6/4), vf grained, well sorted, subrnd cl	PAR
USGS08PL		1/10/94	35	45	SDVF	NACM	4	SAND, light brown (7.5 YR 6/3), vf grained, well sorted, subrnd to rnd clear qtz	PAR
USGS08PL		1/10/94	45	50	SDVF	NACM	4	SAND, white (7.5 YR N8/0), silty, vf grained, well sorted, well rnd.	PAR
USGS08PL		1/10/94	50	55	SDVF	NACM	4	SAND, white (7.5 YR N8/0) ,silty, vf grained, well sorted, well rnd w/coal?? frag	PAR
USGS08PL		1/10/94	55	64	SDVF	NACM	4	SAND, light gray (7.5 YR N7/0),clayey, v f grained, well sorted.	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
USGS08PL		1/10/94	64	68	SDVF	NACM	4	SAND, greenish gray (5 BG 6/1), clayey, v f grained, noncalcareous.	PAR
USGS08PL		1/10/94	68	72	SDCL	NACM	4	SAND, reddish brown (2.5 YR 5/4), clayey, f grained, well sorted.	PAR
USGS08PL		1/10/94	72	76	SDCL	NACM	4	SAND, greenish gray (5 BG 6/1), clayey, hard, v f grained, well sorted.	PAR
USGS08PL		1/10/94	76	80	CLAY	NACM	4	CLAY, sandy, pinkish gray (5 YR 7/2), with v f sand grains.	PAR
USGS08PL		1/10/94	80	87	SDCL	NACM	4	SAND, clayey, light gray (7.5 YR N7/0), v f grained, well sorted.	PAR
USGS08PL		1/10/94	87	91	SDCL	NACM	4	SAND, clayey, gray (7.5 YR N6/0), v f grained, with v f black (7.5 YR N6/0) incl	PAR
USGS08PL		1/10/94	91	109	SDCL	NACM	4	SAND, clayey, gray (7.5 YR N6/0), subang, with coal and rnd greenish gray (5 G	PAR
USGS08PL		1/10/94	109	120	SD	NACM	4	SAND, light gray (7.5 YR 7/0), f to med grained, subrnd to rnd.	PAR
USGS08PL		1/10/94	120	125	SD	NACM	4	SAND, light gray (7.5 YR 7/0), med grained, subang, with black (2.5 YR N2.5/0)	PAR
USGS08PL		1/10/94	125	133	SD	NACM	4	SAND, light gray (7.5 YR 7/0), med grained, subang, with black (2.5 YR N2.5/0)	PAR
USGS08PL		1/10/94	133	140	CLAY	NACM	4	CLAY, light blue gray (5 B 7/1), noncalcareous, with vf sand grains.	PAR
USGS08PL		1/10/94	140	143	SDVF	NACM	4	SANDSTONE, pinkish gray (7.5 YR 7/2), v f grained, indurated.	PAR
USGS08PL		1/10/94	143	147	SDCL	NACM	4	SAND, clayey, light greensih gray (5 YR 7/1), vf grained, noncalcareous.	PAR
USGS08PL		1/10/94	147	166	SDCL	NACM	4	SAND, clayey, light gray (2 YR N7/0), v soft, vf grained.	PAR
USGS08PL		1/10/94	166	176	SS	NACM	4	SANDSTONE, light gray (2.5 YR N7/0), vf grained, indurated, with pyrite, interbe	PAR
USGS08PL		1/10/94	176	200	SDCL	NACM	4	SAND, clayey, gray (2.5 YR N5), vf grained, 2 to 3% pyrite.	PAR
USGS08PL		1/10/94	200	201	SHLE	NACM	5	SHALE, dark gray (2.5 YR N4/0), fissile, Top of Glenrose	PAR
USGS08PL		1/10/94	201	203	LS	NACM	5	LIMESTONE, light gray (2.5 YR N7/0), dense, with oolites, pyritized microfossils,	PAR
USGS08PM		1/12/94	0	4	LS	NACM	3	LIMESTONE, gray (5 YR 6/1), fossiliferous, dense, clay, reddish brown (2.5 YR 6	PAR
USGS08PM		1/12/94	4	7	LS	NACM	3	LIMESTONE, pinkish white to reddish yellow (5 YR 8/2 to 5 YR 6/8), dense.	PAR
USGS08PM		1/12/94	7	10	LS	NACM	3	LIMESTONE, gray to v dark gray (2.5 YR N6/0 to 2.5 YR N3/0), dense, fossilifer	PAR
USGS08PM		1/12/94	10	16	LS	NACM	3	LIMESTONE, gray (2.5 YR N6/0), v dense with microscopic black (2.5 YR N2.5/	PAR
USGS08PM		1/12/94	16	25	LS	NACM	3	LIMESTONE, white (10 YR 8/1), with 50% black (2.5 YR N2.5/0) inclusions and	PAR
USGS08PM		1/12/94	25	30	SS	NACM	4	SANDSTONE, light reddish brown (2.5 YR 6/4), with red inclusions (2.5 YR 5/8),	PAR
USGS08PM		1/12/94	30	35	SDVF	NACM	4	SAND, light reddish brown (2.5 YR 6/4), v f grained, well sorted, subrnd, clear qt	PAR
USGS08PM		1/12/94	35	45	SDVF	NACM	4	SAND, light brown (7.5 YR 6/3), v f grained, rnd to subrnd, well sorted clear qtz	PAR
USGS08PM		1/12/94	45	50	SDVF	NACM	4	SAND, white (7.5 YR N8/0), silty, v f grained, well sorted, well rounded.	PAR
USGS08PM		1/12/94	50	55	SDVF	NACM	4	SAND, white (7.5 YR N8/0), silty, v f grained, well sorted, well rounded, with co	PAR
USGS08PM		1/12/94	55	64	SDVF	NACM	4	SAND, light gray (7.5 YR N7/0), clayey, v f grained, well sorted.	PAR
USGS08PM		1/12/94	64	68	SDVF	NACM	4	SAND, greenish gray (5 BG 6/1), clayey, v f grained, noncalcareous.	PAR
USGS08PM		1/12/94	68	72	SDFN	NACM	4	SAND, reddish brown (2.5 YR 5/4), clayey, f grained, well sorted, iron stained.	PAR
USGS08PM		1/12/94	72	76	SDFN	NACM	4	SAND, greenish gray (5 BG 6/1), clayey, v f grained, well sorted, hard.	PAR
USGS08PM		1/12/94	76	80	CLAY	NACM	4	CLAY, sandy, pinkish gray (5YR 7/2) with v f sand grains.	PAR
USGS08PM		1/12/94	80	87	SDVF	NACM	4	SAND, clayey, light gray (7.5 YR N7/0), v f grained, well sorted.	PAR
USGS08PM		1/12/94	87	91	SDVF	NACM	4	SAND, clayey, gray (7.5 YR N6/0), v f grained, with v f black (7.5 YR N6/0) incl	PAR
USGS08PM		1/12/94	91	110	SDCL	NACM	4	SAND, clayey, gray (7.5 YR N6/0), subang, with coal and rnd greenish gray (5 G	PAR
USGS08PM		1/12/94	110	120	SD	NACM	4	SAND, light gray (7.5 YR 7/0), f to med grained, subrnd to rnd.	PAR
USGS08PM		1/12/94	120	125	SD	NACM	4	SAND, light gray (7.5 YR 7/0), med grained, subang, with black (2.5 YR N2.5/0)	PAR
USGS08PM		1/12/94	125	127	SD	NACM	4	SAND, light gray (7.5 YR 7/0), med grained, subang, with black (2.5 YR N2.5/0)	PAR
USGS08PU		1/11/94	0	4	LS	NACM	3	LIMESTONE, gray (5YR 6/1), fossiliferous, dense, CLAY, reddish brn (2.5 YR 6/4	PAR
USGS08PU		1/11/94	4	7	LS	NACM	3	LIMESTONE, pinkish white to reddish yellow (5 YR 8/2 to 5 YR 6/8), dense.	PAR
USGS08PU		1/11/94	7	10	LS	NACM	3	LIMESTONE, gray to v dark gray (2.5 YR N6/0 to 2.5 YR N3/0), dense, fossilifer	PAR
USGS08PU		1/11/94	10	16	LS	NACM	3	LIMESTONE, gray (2.5 YR N 6/0), v dense with microscopic black (2.5 YR N2.5/	PAR
USGS08PU		1/11/94	16	25	LS	NACM	3	LIMESTONE, white (10 YR 8/1) with 50% black (2.5 YR N 2.5/0) inclusions and	PAR
USGS08PU		1/11/94	25	35	SDVF	NACM	4	SAND, light reddish brown (2.5 YR 6/4), v f grained, well sorted, subrnd clear qt	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
USGS08PU		1/11/94	35	45	SDVF	NACM	4	SAND, light reddish brown (7.5 YR 6/3), v f grained, well sorted, subrnd to rnd	PAR
USGS08PU		1/11/94	45	50	SDVF	NACM	4	SAND, white (7.5 YR N 8/0), silty, v f grained, well sorted, well rnd.	PAR
USGS08PU		1/11/94	50	55	SDVF	NACM	4	SAND, white (7.5 YR N 8/0), silty, v f grained, well sorted, well rnd, with coal?	PAR
USGS08PU		1/11/94	55	60	SDVF	NACM	4	SAND, light gray (7.5 YR N7/0), clayey, v f grained, well sorted.	PAR
USGS08PU		1/11/94	60	63	SS	NACM	4	SANDSTONE, white (7.5 YR N8/0), v hard, f grained, well cemented, 3 to 4" thi	PAR
USGS08PU		1/11/94	63	70	SDVF	NACM	4	SAND, clayey, greenish gray (5 YR 6/1), v f grained, noncalcareous, interbedded	PAR
USGS09PL		1/26/94	0	0.5	NAUM	OH	1	CLAY, top soil, dark brown (7.5 YR 4/2), with 10% v f atz sand grains and 50%	PAR
USGS09PL		1/26/94	0.5	5	LS	NACM	3	LIMESTONE, reddish yellow (7.5 YR 7/6), chalky to dense, sm pinkish white (7.5	PAR
USGS09PL		1/26/94	5	10	LS	NACM	3	LIMESTONE, gray to light gray (7.5 YR N6/0 to N7/0), hard, fossiliferous, sm dar	PAR
USGS09PL		1/26/94	10	15	LS	NACM	3	SAA interbedded with LIMESTONE, gray (10YR 6/1), dense, sandy, with euhedra	PAR
USGS09PL		1/26/94	15	19	SHLE	NACM	3	SHALE, v dark gray (10 YR 3/1), fissile, sandy, calcareous.	PAR
USGS09PL		1/26/94	19	27	LS	NACM	3	LIMESTONE, white to light gray (10 YR 8/1 to 7/1). v dense, with black (10 YR	PAR
USGS09PL		1/26/94	27	31	SD	NACM	4	SAND, gray (7.5 YR N5/0), f to med grained, rnd, calcareous matrix, clayey with	PAR
USGS09PL		1/26/94	31	35	SD	NACM	4	SAND, light gray (7.5 YR N7/0), f to med grained, subrnd, calcareous cement, p	PAR
USGS09PL		1/26/94	35	40	SDCL	NACM	4	SAND, clayey, light gray (7.5 YR N7/0), v f grained, noncalcareous matrix, sm e	PAR
USGS09PL		1/26/94	40	50	SD	NACM	4	SAND, gray (5 YR 6/1), f grained, well sorted, rnd, interbedded with reddish yell	PAR
USGS09PL		1/26/94	50	55	SDCL	NACM	4	SAND, clayey, light gray (7.5 YR N7/0), v f grained, subrnd, noncalcareous.	PAR
USGS09PL		1/26/94	55	61	SDCL	NACM	4	SAND, clayey, light greenish gray (5 G 7/1), v f grained, well sorted, subrnd, non	PAR
USGS09PL		1/26/94	61	66	SDCL	NACM	4	SAND, clayey, weak red (10 YR 5/2), interbedded with dark red (10 YR 3/6) clay	PAR
USGS09PL		1/26/94	66	71	CLAY	NACM	4	CLAY, sandy, greenish gray (5 BG 6/1), noncalcareous, sm pyrite nodules.	PAR
USGS09PL		1/26/94	71	80	CLAY	NACM	4	CLAY, sandy, greenish gray (5 BG 6/1), noncalcareous, sm pyrite nodules, interb	PAR
USGS09PL		1/26/94	80	91	SD	NACM	4	SAND, qtz, f to med grained, poorly sorted, subang to subrnd, friable, 1 to 2 %	PAR
USGS09PL		1/26/94	91	100	SDMD	NACM	4	SAND, white (10 YR 8/1), med grained, subang, well sorted, sm nodular pyrite.	PAR
USGS09PL		1/26/94	100	131	NDPS	NACM	4	Very poor returns 100 to 130'.	PAR
USGS09PL		1/26/94	131	136	SDVF	NACM	4	SAND, clayey, light blue gray (5 B 7/1) to pale green (5 G 7/2), noncalcareous, s	PAR
USGS09PL		1/26/94	136	143	SDVF	NACM	4	SAND, light gray (7.5 YR N7/0), v f grained, noncalcareous, hard, interbedded wi	PAR
USGS09PL		1/26/94	143	160	SDVF	NACM	4	SAND, greenish gray (5 BG 6/1), v f grained, well sorted, rnd, noncalcareous mat	PAR
USGS09PL		1/26/94	160	165	SDVF	NACM	4	SAND, light gray (7 YR N7/0), v f grained, well sorted, subang, v hard, calcareo	PAR
USGS09PL		1/26/94	165	181	NDPS	NACM	4	No returns 165-180'.	PAR
USGS09PL		1/26/94	181	186	SDFN	NACM	4	SAND, light gray (7 YR N7/0), clayey, v f to med grained, subang to rnd, poorly	PAR
USGS09PL		1/26/94	186	200	SDVF	NACM	4	SAND, white to gray (7.5 YR N8/0 to N6/0), v f grained, rnd, noncalcareous, int	PAR
USGS09PL		1/26/94	200	205	CLAY	NACM	4	CLAY, dark greenish gray (5 G 4/1), dry, with v v f grained, noncalcareous.	PAR
USGS09PL		1/26/94	205	207	LS	NACM	5	LIMESTONE, gray (7.5 YR N5/0), v hard.	PAR
USGS09PM		1/27/94	0	1	NAUM	OH	0	CLAY, top soil, dark brown (7.5 YR 4/2), with 10% v f qtz grains and 50% orga	PAR
USGS09PM		1/27/94	1	7	LS	NACM	2	LIMESTONE, reddish yellow (7.5 YR 7/6), chalky to dense, and pinlish white (7.5	PAR
USGS09PM		1/27/94	7	10	LS	NACM	3	LIMESTONE, gray to light gray (7.5 YR N6/0 to N7/0), hard, fossiliferous, and s	PAR
USGS09PM		1/27/94	10	15	LS	NACM	3	LIMESTONE, gray to light gray (7.5 YR N6/0 to N7/0), hard, fossiliferous, and s	PAR
USGS09PM		1/27/94	15	19	SHLE	NACM	3	SHALE, v dark gray (10 YR 3/1), fissile, sandy, calcareous.	PAR
USGS09PM		1/27/94	19	27	LS	NACM	3	LIMESTONE, white to light gray (10 YR 8/1 to 7/1), v dense, with black (10 YR	PAR
USGS09PM		1/27/94	27	31	SD	NACM	4	SAND, gray (7.5 YR N5/0), f to med grained, calcareous matrix, clayey with pyri	PAR
USGS09PM		1/27/94	31	35	SS	NACM	4	SANDSTONE, light gray (7.5 YR N7/0), f to med grained, subrnd, calcareous ce	PAR
USGS09PM		1/27/94	35	40	SDVF	NACM	4	SAND, clayey, light gray (7.5 YR N7/0), v f grained, noncalcareous matrix, conta	PAR
USGS09PM		1/27/94	40	50	SDFN	NACM	4	SAND, gray (7.5 YR 6/1), f grained, well sorted, rnd, interbedded SAND, reddish	PAR
USGS09PM		1/27/94	50	55	SDVF	NACM	4	SAND, clayey, light gray (7.5 YR N7/0), v f grained, subrnd, calcareous.	PAR
USGS09PM		1/27/94	55	60	SDVF	NACM	4	SAND, clayey, light greenish gray (5 G 7/1), v f grained, well sorted, subrnd, non	PAR

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
USGS09PM		1/27/94	60	71	SDVF	NACM	4	SAND, clayey, weak red (10YR 5/2), interbedded with SAND, dark red (10 YR 3/	PAR
USGS09PM		1/27/94	71	80	SDVF	NACM	4	SAA, interbedded with sand, clayey, light gray (7.5 YR N7/0), noncalcareous, f g	PAR
USGS09PM		1/27/94	80	91	SDFN	NACM	4	SAND, f to med grained, poorly sorted, subang to subrnd, friable, 1 to 2% clay	PAR
USGS09PM		1/27/94	91	100	SDMD	NACM	4	SAND, white (10YR 8/1), med grained, subang, well sorted, interbedded with no	PAR
USGS09PM		1/27/94	100	117	NDPS	NACM	4	Very poor returns 100 to 117'.	PAR
USGS09PU		1/28/94	0	1	NAUM	OH	0	CLAY, top soil, dark brown (7.5 YR 4/2), 10% v f sand grains, 50% organics.	PAR
USGS09PU		1/28/94	1	7	LS	NACM	2	LIMESTONE, reddish brown (7.5 YR 7/6), chalky to dense, and pinkish white (7.	PAR
USGS09PU		1/28/94	7	10	LS	NACM	3	LIMESTONE, white to dark gray (7.5 YR N8/0 to 7.5 YR N4/0), mottled, dense t	PAR
USGS09PU		1/28/94	10	15	LS	NACM	3	SAA, interbedded LIMESTONE, gray (10 YR 6/1), dense, sandy, with euhedral ca	PAR
USGS09PU		1/28/94	15	19	SHLE	NACM	3	SHALE, very dark gray (10 YR 3/1), fissile, sandy, calcareous.	PAR
USGS09PU		1/28/94	19	28	LS	NACM	3	LIMESTONE, white to light gray (10 YR 8/1 to 7/1), very dense, with black (10	PAR
USGS09PU		1/28/94	28	31	SD	NACM	4	SAND, gray (7.5 YR N5/0), f to med grained, rnd, calcareous matrix, clayey with	PAR
USGS09PU		1/28/94	31	35	SS	NACM	4	SANDSTONE, light gray (7.5 YR N7/0), f to med grained, subrnd, calcareous ce	PAR
USGS09PU		1/28/94	35	40	SDVF	NACM	4	SAND, clayey, light gray (7.5 YR N7/0), v f grained, noncalcareous matrix, sm e	PAR
USGS09PU		1/28/94	40	50	SDFN	NACM	4	SAND, gray (5 YR 6/1), f grained, well sorted, rnd, interbedded with reddish yell	PAR
USGS09PU		1/28/94	50	55	SDVF	NACM	4	SAND, clayey, light gray (7.5 YR N7/0), v f grained, subrnd, noncalcareous.	PAR
USGS09PU		1/28/94	55	60	SDVF	NACM	4	SAND, clayey, light greenish gray (5 G 7/1), v f grained, well sorted, subrnd, non	PAR
USGS09PU		1/28/94	60	71	SDCL	NACM	4	SAND, clayey, weak red (10 YR 5/2), interbedded with dark red (10 YR 3/6) clay	PAR
USGS09PU		1/28/94	71	78	SDCL	NACM	4	SAA, interbedded with sand, clayey, light gray (7.5 YR N7/0), noncalcareous, f g	PAR
UZB-1		11/29/94	0	0.8	FILL	NACM	0	concrete	PAR
UZB-1		11/29/94	0.8	9	CLAY	CL	1	Silty Clay strong bwn, (7.5yr 5/8) hard, fractured, med plasticity,w/small limesto	PAR
UZB-1		11/29/94	9	13	CLAY	SC	1	Sandy Clay reddish yellow (7.5yr 7/6) soft, low plasticity, dry.	PAR
UZB-1		11/29/94	13	16	LS	NACM	3	Limestone, hard white, fossiliferous.	PAR
UZB-2		11/29/94	0	1	FILL	NACM	0	Concrete.	PAR
UZB-2		11/29/94	1	2.4	FILL	NACM	0	Coarse grained gravel with silty clay, dry.	PAR
UZB-2		11/29/94	2.4	3	FILL	NACM	0	Concrete.	PAR
UZB-2		11/29/94	3	18	GVCL	GC	1	Clayey gravel, v pale brown (10yr, 7/4) gravel pieces are rounded limestone @ 1	PAR
UZB-2		11/29/94	18	19	CLAY	GC	1	Silty clay w/gravel, dry, sdtiff zone encountered	PAR
UZB-2		11/29/94	19	24	GVL	GP	1	Coarse gravel.	PAR
UZB-2		11/29/94	24	25.5	CLAY	SC	1	Sandy clay, brownish yellow (10yr, 6/8), firm, med plasticity, moist.	PAR
UZB-2		11/29/94	25.5	26	GVL	GP	1	Coarse gravelly sand.	PAR
UZB-2		11/29/94	26	31	SD	SC	1	Clayey Sand, brownish yellow (10yr, 6/6), firm, med plasticity, moist.	PAR
UZB-2		11/29/94	31	34.25	SD	SC	1	Clayey Sand, brownish yellow (10yr, 6/6), firm, med plasticity, moist.	PAR
W-128L	CNGT	23-MAY-91	0	0.5	CN	NSNR	0	Concrete pavement.	BCH
W-128L	CNGT	23-MAY-91	0.5	10	NSNR	NSNR	1	Augered to 10'.	BCH
W-128L	CNGT	23-MAY-91	10	16	GVCL	GM	1	Rounded limestone gravels with some tanish brown silty clay.	BCH
W-128L	CNGT	23-MAY-91	16	34	LS	NACM	2	Light grey highly fractured, Goodland limestone.	BCH
W-128L	CNGT	23-MAY-91	34	34.5	LS	NACM	3	Walnut, fossils and hard, gray, dense, limestone.	BCH
W-128U	CNGT	19-FEB-91	0	1	CN	NSNR	0	Concrete pavement.	BCH
W-128U	CNGT	19-FEB-91	1	10	SILT	CL	1	Yellow clayey silt, inorganic, slightly moist.	BCH
W-128U	CNGT	19-FEB-91	10	12	GVST	GM	1	Limestone gravels with slightly moist clayey silt.	BCH
W-128U	CNGT	19-FEB-91	12	15.5	SHLE	NACM	2	Silty shale, very pale brown (10YR 8/4) with grayish brown (10YR 6/1) stringers	BCH
W-128U	CNGT	19-FEB-91	15.5	24.5	LS	NACM	3	Light gray limestone cuttings, some white powder, very dry and hard.	BCH
W-129	CNGT	28-FEB-91	0	4	CLAY	CL	1	Sandy clay, dry, dense, medium plasticity, mixed with limestone gravel, dark br	BCH
W-129	CNGT	28-FEB-91	4	9	SDGR	GP	1	Gravelly sand, medium grained sand mixed with gravel limestone fragments, very	BCH

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
W-129	CNGT	28-FEB-91	9	10.5	CLAY	CL	1	Clay, dense, cohesive, wet, plastic, <20% limestone fragments.	BCH
W-129	CNGT	28-FEB-91	10.5	11	SDGR	GW	1	Fossiliferous, dry limestone gravel mixed with coarse sand.	BCH
W-129	CNGT	28-FEB-91	11	12.9	LS	NACM	3	(Walnut) dense limestone, tan, fossils.	BCH
W-130	CNGT	27-FEB-91	0	2	CLAY	CL	1	Clay, dense, moist, medium plasticity mixed with organic debris (roots and grass	BCH
W-130	CNGT	27-FEB-91	2	16	FILL	GW	1	Coarse gravel mixed with sand, limestone dry, reddish and black discolorations,	BCH
W-130	CNGT	27-FEB-91	16	22	LS	NACM	3	Gray dense crystalline limestone. Gray to black shale interbedded with green cl	BCH
W-131L	CNGT	26-MAR-91	0	0.8	CN	NACM	0	Concrete pavement.	BCH
W-131L	CNGT	26-MAR-91	0.8	12	CLAY	CL	1	Yellowish brown (10YR 5/6) silty clay, scattered pebbles (< 1/4") low plasticity,	BCH
W-131L	CNGT	26-MAR-91	12	18.6	CLAY	CL	1	Brownish yellow (10YR 6/6) silty to sandy clay, 15% fine sands, medium	BCH
W-131L	CNGT	26-MAR-91	18.6	19.5	SDGR	GP	1	Sharp contact with weathered gravel and sands (Goodland), poorly sorted, moist	BCH
W-131L	CNGT	26-MAR-91	19.5	30	LS	NACM	2	Varied color shale, light yellowish brown (2.5 YR 5/4) and light gray (2.5YR 7/2)	BCH
W-131L	CNGT	26-MAR-91	30	33	LS	NACM	3	Walnut Fm. encountered at 30'.	BCH
W-131U	CNGT	05-MAR-91	0	0.75	CN	NACM	0	Concrete pavement.	BCH
W-131U	CNGT	05-MAR-91	0.75	17.75	CLAY	CL	1	Silty clay, weathered gravel, dark yellowish brown (10YR 4/4).	BCH
W-131U	CNGT	05-MAR-91	17.75	18	GVL	GW	1	Gravels, limestone well graded max. size 1 3/4", gravels stained with black mat	BCH
W-131U	CNGT	05-MAR-91	18	21.8	NSNR	NSNR	2	No description provided.	BCH
W-132	CNGT	26-FEB-91	0	4	GVCL	GW	1	Coarse, poorly sorted limestone gravel and sand, dry, white to gray. At 2' CL -	BCH
W-132	CNGT	26-FEB-91	4	12	FILL	GW	1	Poorly sorted gravel mixed with large amount of asphalt debris, metal, limestone	BCH
W-132	CNGT	26-FEB-91	12	19	GVCL	GC	1	Gray to white, fossiliferous limestone fragments mixed with dry brown clay and	BCH
W-132	CNGT	26-FEB-91	19	20.8	LS	NACM	3	Fossiliferous limestone - Walnut.	BCH
W-133L	CNGT	06-MAR-91	0	0.75	CN	NACM	0	Concrete pavement.	BCH
W-133L	CNGT	06-MAR-91	0.75	2	CLAY	CL	1	Black (2.5YR 5/1) sandy clay with gravel, max. gravel 1/4".	BCH
W-133L	CNGT	06-MAR-91	2	9	CLAY	CL	1	Silty clay, slightly moist, crumbly to slightly plastic, very dense, small amount of	BCH
W-133L	CNGT	06-MAR-91	9	9.5	SDGR	SW	1	Small layer of subrounded limestone gravel and coarse sand.	BCH
W-133L	CNGT	06-MAR-91	9.5	17	CLAY	CL	1	Silty clay-slightly moist, crumbly to slightly plastic, very dense, small amount of	BCH
W-133L	CNGT	06-MAR-91	17	20	SDSL	SMSC	1	Grades to SM - silty sand/SC - clayey sand, subrounded to subangular medium to	BCH
W-133L	CNGT	06-MAR-91	20	23	CLAY	CL	1	Sandy clay, moist in place, firm, low plasticity, brown to yellowish brown.	BCH
W-133L	CNGT	06-MAR-91	23	24	GVL	GW	1	Coarse, poorly graded gravel and sand, wet, limestone fragments, weathered, fe	BCH
W-133L	CNGT	06-MAR-91	24	33	LS	NACM	2	Clayey shale, very weathered, very strong odor, olive green clay interbedded wit	BCH
W-133U	CNGT	05-MAR-91	0	0.75	CN	NACM	0	Concrete pavement.	BCH
W-133U	CNGT	05-MAR-91	0.75	4	CLAY	CL	1	Black (5YR 2.5/1) sandy clay with gravel, max. gravel 1/4". 2-4' silty clay with	BCH
W-133U	CNGT	05-MAR-91	4	5	CLAY	CL	1	Slightly dark stained clay with 15% gravel, max. 3/4"; 5' to 5.5' clayey sand.	BCH
W-133U	CNGT	05-MAR-91	5	6	GVL	GW	1	Gravel, light grey, well graded, max. size 1.5".	BCH
W-133U	CNGT	05-MAR-91	6	7	CLAY	CL	1	Silty clay-yellowish brown <1% gravel, medium plasticity.	BCH
W-133U	CNGT	05-MAR-91	7	18	NDPS	NDPS	1	Explosive limit exceeded, filled hole with water and drilled to 18' - no samples c	BCH
W-133U	CNGT	05-MAR-91	18	20.75	SD	SC	1	Clayey sand, brown, strong odor, measured up to 500 ppm, small amount of gra	BCH
W-134	CNGT	13-MAR-91	0	2	CN	NACM	0	Concrete pavement.	BCH
W-134	CNGT	13-MAR-91	2	6	CLAY	CL	1	Silty clay, slightly moist, firm dense, with small amount fine grained sand and 3	BCH
W-134	CNGT	13-MAR-91	6	13.5	CLAY	CL	1	Silty clay, low plasticity, dry, firm dense with large amount of limestone fragme	BCH
W-134	CNGT	13-MAR-91	13.5	16.5	SD	SM	1	Silty sand/clayey sand-tan, fine to medium sand, crumbly, moist, loose.	BCH
W-134	CNGT	13-MAR-91	16.5	17.75	CLAY	OL	1	Sandy clay/silty clay, slightly moist, fine sand, low plasticity, dense, crumbly, br	BCH
W-135	CNGT	20-MAR-92	0	2	CN	NACM	0	Concrete pavement.	BCH
W-135	CNGT	20-MAR-92	2	4	CLAY	CL	1	Clay, mixed with gravel, sand and silt. Plastic, moist, poorly sorted. Mottled gr	BCH
W-135	CNGT	20-MAR-92	4	11.5	CLAY	CH	2	Clay/Shaley clay, very plastic, cohesive dry to slightly moist, non homo	BCH
W-135	CNGT	20-MAR-92	11.5	12.3	LS	NACM	3	No recovery, hard, competent layer 12-12.3' Walnut.	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCD	ASTMC	STR	VISDESC	sourc
W-136	CNGT	27-MAR-91	0	2	CN	NACM	0	Concrete pavement.	BCH
W-136	CNGT	27-MAR-91	2	5	STCL	CL	1	Yellowish brown (10YR 5/8), silty clay, scattered limestone pebbles, dense, dry,	BCH
W-136	CNGT	27-MAR-91	5	12	CLAY	CL	1	Light yellowish brown, silty clay with some fine sands (<10%) dense, hard, dry,	BCH
W-136	CNGT	27-MAR-91	12	14	STCL	CL	1	10% fine sand, with scattered gray limestone pebbles, <1/4" in size, calcareou	BCH
W-136	CNGT	27-MAR-91	14	22	SDCL	CL	1	Weathered zone of limestone, with sands and gravels moist, well graded, gravels	BCH
W-136	CNGT	27-MAR-91	22	25	SDGR	GW	1	Weathered zone of limestone, with sands and gravels, moist, well graded,	BCH
W-136	CNGT	27-MAR-91	25	26	SHLE	NACM	2	Varied color shale, thinly laminated, calcareous, slight fuel odor.	BCH
W-136	CNGT	27-MAR-91	26	30.8	NDPS	NDPS	2	No samples collected.	BCH
W-136	CNGT	27-MAR-91	30.8	32.5	LS	NACM	3	Light gray to white limestone and shale, dense, very fine grained, massive, oil s	BCH
W-137	CNGT	26-MAR-91	0	1.2	CN	NACM	0	Concrete pavement.	BCH
W-137	CNGT	26-MAR-91	1.2	3	GVL	GC	1	Gravelly clay about 60% gravel, well sorted subrounded, dry (7.5YR 6/6) reddish	BCH
W-137	CNGT	26-MAR-91	3	13	STCL	CL	1	Silty clay (7.5YR 6/8) reddish yellow dry, no gravel, medium plasticity.	BCH
W-137	CNGT	26-MAR-91	13	16.5	GVL	GC	1	Moist gravel <1% max. size .5" gravelly clay, limestone with fossils.	BCH
W-137	CNGT	26-MAR-91	16.5	24	SDCL	GC	1	Clayey gravels, loose, (10YR 6/6) brownish yellow, poorly graded, medium-coar	BCH
W-137	CNGT	26-MAR-91	24	25	STCL	CL	1	Very moist, silty, clay pale brown (10YR 7/4).	BCH
W-137	CNGT	26-MAR-91	25	28.7	SDGR	GW	1	Clean sand, well graded gravels max. size 2", hard.	BCH
W-139L	CNGT	02-APR-91	0	0.75	CN	NACM	0	Concrete pavement.	BCH
W-139L	CNGT	02-APR-91	0.75	2	STCL	CL	1	Silty clay with 10% gravel, max. size 1/2" yellowish red (5YR 5/6), med. plastic	BCH
W-139L	CNGT	02-APR-91	2	14	SDCL	SC	1	Clayey sand strong brown (7.5YR 5/6), poorly gradaed, fine grained, dry, < 1%	BCH
W-139L	CNGT	02-APR-91	14	15	SDGR	GW	1	Well graded sands and gravels, moist, dark yellowish brown (10YR 4/3).	BCH
W-139L	CNGT	02-APR-91	15	18	SDCL	SC	1	Clayey sand moist, poorly graded, no gravels.	BCH
W-139L	CNGT	02-APR-91	18	33.2	LS	NACM	3	Augered from water level to Walnut.	BCH
W-139U	CNGT	09-APR-91	0	0.75	CN	NACM	0	Concrete pavement.	BCH
W-139U	CNGT	09-APR-91	0.75	2	STCL	CL	1	Silty clay with 10% gravel, max. size .5" yellowish red (5YR 5/6), med. plasticit	BCH
W-139U	CNGT	09-APR-91	2	14	SDCL	SC	1	Silty clay with 50% gravel, stsrong brown (7.5YR 5/6), poorly graded, fine grain	BCH
W-139U	CNGT	09-APR-91	14	15	SDGR	GW	1	Well graded sands and gravels, moist, dark yellowish brown (10YR 4/3).	BCH
W-139U	CNGT	09-APR-91	15	20	SDCL	SC	1	Clayey sand moist, poorly graded, no gravels (10YR 6/2) light brownish gray.	BCH
W-139U	CNGT	09-APR-91	20	29.5	LS	NACM	3	Augered from water level to Walnut.	BCH
W-140	CNGT	28-MAR-91	0	2.9	SD	SP	1	Fill material, limestone gravel, light gray, loose sand (10YR 8/6) yellow.	BCH
W-140	CNGT	28-MAR-91	2.9	6	STCL	CL	1	CL - (10YR 5/3) brown, silty clay with gravel well graded, max. size 1 3/4".	BCH
W-140	CNGT	28-MAR-91	6	12	SDGR	GM	1	Silty clay with gravels, gravels well graded, max. size 1 1/4" (10YR 5/3) brown,	BCH
W-140	CNGT	28-MAR-91	12	14	SDSL	SM	1	Silty clay - < 10% gravel, wet (10YR 5/3) brown.	BCH
W-140	CNGT	28-MAR-91	14	22	SDCL	SM	1	(10YR 6/2) light brownish gray, clayey sand <1% weathered gravel, low plastic	BCH
W-140	CNGT	28-MAR-91	22	29.3	NSNR	NSNR	1	Water, no recovery made.	BCH
W-141L	CNGT	30-MAR-91	0	2	CN	NACM	0	Concrete pavement.	BCH
W-141L	CNGT	30-MAR-91	2	4.6	STCL	CL	1	Yellowish brown (10YR 5/6), silty clay low plasticity, dry, scattered white calcar	BCH
W-141L	CNGT	30-MAR-91	4.6	10	SDCL	SC	1	Brownish yellow (10YR 6/6), a clayey-fine to medium sand, no plasticity, dry, s	BCH
W-141L	CNGT	30-MAR-91	10	12.4	STCL	ML	1	Light yellow brown (10YR 6/4) clayey silt and sand, no plasticity, slightly moist.	BCH
W-141L	CNGT	30-MAR-91	12.4	14	SDCL	CL	1	Gravel and sand with a clay matrix, gravel are subangular to subrounded, mainly	BCH
W-141L	CNGT	30-MAR-91	14	16	SDGR	GM	1	Coarse sand and gravel with a fine sand and silt matrix, gravels are subangular a	BCH
W-141L	CNGT	30-MAR-91	16	22	STCL	ML	1	Silty clay light yellowish brown (10YR 6/4) low to medium plasticity, slightly mo	BCH
W-141L	CNGT	30-MAR-91	22	26	GVL	GC	1	Auger refusal, gray, gravelly clay, well graded, gravels are subangular to subr	BCH
W-141L	CNGT	30-MAR-91	26	30	NSNR	NSNR	1	No sample - augered.	BCH
W-141L	CNGT	30-MAR-91	30	32	LS	NACM	3	Walnut Fm.	BCH
W-141U	CNGT	01-APR-91	0	2	CN	NACM	0	Concrete pavement.	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
W-141U	CNGT	01-APR-91	2	5	STCL	CL	1	Dark gray, fine to medium sand and clay, yellowish brown (10YR 5/6), silty clay	BCH
W-141U	CNGT	01-APR-91	5	10	SDCL	SC	1	Brownish yellow (10YR 6/6), a clayey-fine to medium sand, no plasticity, dry, s	BCH
W-141U	CNGT	01-APR-91	10	10.8	SDGR	GW	1	Mainly coarse sand with a few scattered pebbles < 1/2" in size.	BCH
W-141U	CNGT	01-APR-91	10.8	12.4	SDCL	SC	1	Light yellow brown (10YR 6/4) clayey silt and sand, no plasticity, slightly moist.	BCH
W-141U	CNGT	01-APR-91	12.4	14	SDCL	CL	1	Gravel and sand with a clay matrix, gravel are subangular to subrounded, mainly	BCH
W-141U	CNGT	01-APR-91	14	16	SDGR	GM	1	Coarse sand and gravel with a fine sand and silt matrix, gravels are subangular a	BCH
W-141U	CNGT	01-APR-91	16	22	STCL	CL	1	Silty clay light yellowish brown (10YR 6/4) low to medium plasticity, slightly mo	BCH
W-141U	CNGT	01-APR-91	22	26	GVL	GC	1	Auger refusal, gray, gravelly clay, well graded, gravels are subangular to subrou	BCH
W-141U	CNGT	01-APR-91	26	29	LS	NACM	3	Walnut Fm.	BCH
W-143	CNGT	03-APR-91	0	1.5	CN	NACM	0	Concrete pavement.	BCH
W-143	CNGT	03-APR-91	1.5	3	CLAY	CL	1	Fine to med. sand, poorly graded, moist, no plasticity, dark gray.	BCH
W-143	CNGT	03-APR-91	3	17.5	STCL	CL	1	Silty clay, <1% gravel, max. size 1/4" med. plasticity, slightly moist, dark grayi	BCH
W-143	CNGT	03-APR-91	17.5	19	CLAY	SC	1	Clayey sand, fine to med., no plasticity, slightly moist, gravels.	BCH
W-143	CNGT	03-APR-91	19	24.5	SDGR	GW	1	Well gradead sands and gravels, some shells, slightly moist, weathered limeston	BCH
W-143	CNGT	03-APR-91	24.5	27	STCL	CL	2	Silty clay (possible Goodland Fm.) medium plasticity, firm, slightly moist, yell	BCH
W-143	CNGT	03-APR-91	27	29	LS	NACM	3	Walnut Fm.	BCH
W-144	CNGT	10-APR-91	0	0.5	CN	NACM	0	Concrete pavement.	BCH
W-144	CNGT	10-APR-91	0.5	4	STCL	ML	1	Silty clay, 10% silt, red (2.5YR 5/8) slightly moist, a 2" thick black stained area	BCH
W-144	CNGT	10-APR-91	4	6	SD	GW	1	Fine to medium grain sand, well sorted, clay stringers <5%, red, slightly moist.	BCH
W-144	CNGT	10-APR-91	6	8	SDSL	GW	1	Grades to silty sand, reddish yellow (7.5YR 8/6) slightly moist.	BCH
W-144	CNGT	10-APR-91	8	20	SD	SP	1	Grades to fine sand, well graded, poorly sorted, slightly moist, mottled red with	BCH
W-144	CNGT	10-APR-91	20	24.8	STCL	ML	1	Grades into silty clay, silt 30%, pink (7.5YR 8/4) slightly moist, limestone layer,	BCH
W-144	CNGT	10-APR-91	24.8	26	SD	GW	1	Sand, fine grained, soft wet.	BCH
W-144	CNGT	10-APR-91	26	32.8	STCL	ML	1	Auger, silty sand cuttings, silt = 20%, fine grained sand.	BCH
W-145	CNGT	11-APR-91	0	1	CN	NACM	0	Concrete pavement.	BCH
W-145	CNGT	11-APR-91	1	4	CLAY	CL	1	Brown (7.5YR 5/2) clay medium plastic slightly moist <1 ppm.	BCH
W-145	CNGT	11-APR-91	4	12	STCL	CL	1	Gradually grades to pink (7.5YR 7/4) silty clay, silt about 20% low plasticity, sli	BCH
W-145	CNGT	11-APR-91	12	16.5	GVL	GC	1	40% limestone gravels, 40% coarse sand and gravels, about 80% with silty clay	BCH
W-145	CNGT	11-APR-91	16.5	18	LS	NACM	2	Pulverized limestone, light gray, massive limestone in bit. Possible Goodland, no	BCH
W-146	CNGT	11-APR-91	0	0.5	CN	NACM	0	Concrete pavement.	BCH
W-146	CNGT	11-APR-91	0.5	2	CLAY	CL	1	Sandy/clay, medium plasticity, dry, some gravel (<10%), mottle color: brown, b	BCH
W-146	CNGT	11-APR-91	2	8.5	SDSL	SM	1	Silty sand/clayey sand, dry, low plasticity, subrounded to angular, fine grain, me	BCH
W-146	CNGT	11-APR-91	8.5	15	SD	SP	1	Sand, fine grained, very few fines, rounded to subrounded grains, loose, well sor	BCH
W-146	CNGT	11-APR-91	15	16	GVL	GW	1	Gravel, poorly sorted mixed with coarse sand, subrounded, loose, non-homogen	BCH
W-146	CNGT	11-APR-91	16	20	SDSL	ML	1	Silty clay/sandy clay, medium plasticity, moist, some limestone, reddish brown.	BCH
W-146	CNGT	11-APR-91	20	26	SDGR	GW	1	Sand/gravelly sand, very poorly sorted, wide range of sand and gravel sizes, ~4	BCH
W-146	CNGT	11-APR-91	26	28	SHLE	NACM	2	Goodland, dense weathered limestone shale, mottled gray and green, very hard	BCH
W-147	CNGT	15-APR-91	0	0.3	ASPT	NACM	0	Asphalt.	BCH
W-147	CNGT	15-APR-91	0.3	1	SDGR	GW	1	Coarse gravel and sand, dry, tan gravel.	BCH
W-147	CNGT	15-APR-91	1	13.5	STCL	CL	1	Silty clay/sandy clay. Sand very fine grained, slightly moist, medium plasti	BCH
W-147	CNGT	15-APR-91	13.5	14	SDGR	GW	1	Gravel, poorly sorted, mixed with sand and silt, dry, loose, calcareous. Rounded	BCH
W-147	CNGT	15-APR-91	14	19.5	STCL	CL	1	Silty/sandy, loose to slightly firm, low plasticity, sand very fine grained, tan to li	BCH
W-147	CNGT	15-APR-91	19.5	20	SDGR	GM	1	Silty clay, small amount of fine sand, very moist, high plasticity, cohesive, light	BCH
W-147	CNGT	15-APR-91	20	28	STCL	CL	1	Silty clay, wet, medium plasticity, cohesive brown with area of white carbonace	BCH
W-147	CNGT	15-APR-91	28	30	SDSL	SM	1	Silty sand, very wet, loose. Sand is poorly sorted, medium to coarse subangular	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
W-148	CNGT	15-APR-91	0	0.75	CN	NACM	0	Concrete pavement.	BCH
W-148	CNGT	15-APR-91	0.75	2	GVL	GC	1	Clay mixed with sand and gravel. Very poorly graded, gravel subrounded up to	BCH
W-148	CNGT	15-APR-91	2	7.5	CLAY	CL	1	Clay, very plastic, very cohesive, slightly moist, with gravel and limestone fra	BCH
W-148	CNGT	15-APR-91	7.5	8	GVL	GC	1	Clay mixed with gravael and sand. Sand ~50% and rounded, moist, plastic, po	BCH
W-148	CNGT	15-APR-91	8	12	CLAY	CH	1	Very plastic, clay, cohesive, slightly moist, gravel limestone fragments (up to 1/	BCH
W-148	CNGT	15-APR-91	12	14	GVL	GC	1	Clay mixed with ~50% limestone gravel (up to 1/4") carbonaceous, slightly moi	BCH
W-148	CNGT	15-APR-91	14	16	SDGR	GW	1	Gravel, limestone mixed with medium to coarse sand, rounded to angular, dry, p	BCH
W-148	CNGT	15-APR-91	16	25	SDSL	OL	1	Sandy silt/silt mixed with small amount of angular sand, loose, dry, fine grained	BCH
W-148	CNGT	15-APR-91	25	26	NSNR	NSNR	1	No revoery.	BCH
W-148	CNGT	15-APR-91	26	31	GVL	GW	1	Only 1' of recovery, very wet. Medium to coarse gravel, poorly sorted, rounded	BCH
W-149	CNGT	17-APR-91	0	16	STCL	CL	1	Silty clay, mixed with medium to coarse gravels (rounded to subrounded) moist,	BCH
W-149	CNGT	17-APR-91	16	22	SDSL	SM	1	Silty sand. Sand is angular to subangular, fine to medium grained, medium firm,	BCH
W-149	CNGT	17-APR-91	22	46	STCL	CL	1	Silty clay, moist, firm, medium plasticity, mottled coloring (orange, yellow, bro	BCH
W-149	CNGT	17-APR-91	46	48	SDSL	ML	1	Silty sand, medium firmness, wet, sticky, cohesive, brown (7.5YR 5/6), fine grai	BCH
W-149	CNGT	17-APR-91	48	52	STCL	CL	1	Silty clay, sand, fine to medium rounded grains, loose, wet, brown, dense, firm,	BCH
W-149	CNGT	17-APR-91	52	54	CLAY	CH	1	Clay, very highly plastic, cohesive, sticky, firm stratified layers of brown, tan, b	BCH
W-149	CNGT	17-APR-91	54	57	SD	SM	1	Sand/silty sand, fine to medium grain subrounded to subangular. Mottled colorin	BCH
W-149	CNGT	17-APR-91	57	58.7	GVL	GW	3	Coarse sand, 1/16" to 1/8", subrounded to angular, limestone and chert, a few	BCH
W-150L	CNGT	25-APR-91	0	14	STCL	CL	1	Silty clay, slightly moist, poorly sorted and n on-homogeneous, mixed with limes	BCH
W-150L	CNGT	25-APR-91	14	20	SDCL	SC	1	Clayey sand, clay sand mixture, sand is mostly coarse with small amount of	BCH
W-150L	CNGT	25-APR-91	20	21	STCL	CL	1	Silty clay, moist, sticky, with <20% medium sand, dark brown.	BCH
W-150L	CNGT	25-APR-91	21	22	GVL	GW	1	Course gravel, predominantly limestone up to 3" mixed with sand, dry, poorly so	BCH
W-150L	CNGT	25-APR-91	22	26	STCL	CL	1	Silty clay/sandy clay, small amount of fine grain sand, predominantly silt, mediu	BCH
W-150L	CNGT	25-APR-91	26	28	SDSL	ML	1	Silty sand cuttings (7.5YR 5/6) 30% silt, 50% very fine sand, 20% fine to med.	BCH
W-150L	CNGT	25-APR-91	28	42.5	SHLE	NACM	2	Shale brownish yellow (10YR 6/8) and light gray (10YR 8/1) mod. indurated,	BCH
W-150L	CNGT	25-APR-91	42.5	45.5	SHLE	NACM	2	Drilling harder and slower, possible limestone or compacted slough (5YR 5/2) ma	BCH
W-150U	CNGT	16-APR-91	0	14	STCL	CL	1	Silty clay, slightly moist, poorly sorted and non-homogeneous, mixed with limest	BCH
W-150U	CNGT	16-APR-91	14	20	SDCL	ML	1	Clayey sand - clay sand mixture, sand is mostly coarse (up to 1/4") with small a	BCH
W-150U	CNGT	16-APR-91	20	21	STCL	CL	1	Silty clay, moist, sticky, with <20% medium sand, dark brown.	BCH
W-150U	CNGT	16-APR-91	21	22	GVL	GW	1	Coarse gravel, predominantly limestone up to 3" mixed and sand (medium to co	BCH
W-150U	CNGT	16-APR-91	22	27	STCL	CL	1	Silty clay/sandy clay - small amount of fine grained sand, predominantly silt, med	BCH
W-150U	CNGT	16-APR-91	27	29.5	GVL	GC	1	Gravel mixed with sand and clay. Limestone up to 2" moist to wet, very poorly	BCH
W-150U	CNGT	16-APR-91	29.5	31.5	LS	NACM	2	Highly laminated shaley limestone, dense, moist, slightly fossiliferous. Very har	BCH
W-151	CNGT	17-APR-91	0	16.8	STCL	CL	1	SILTY CLAY WITH OCCASIONAL LIMESTONE GRAVEL, YELLOW, LOW TO MED	IRP
W-151	CNGT	17-APR-91	16.8	20	SD	SW	1	MEDIUM TO COARSE GRAINED, SOME VERY SMALL FOSSILS, SLIGHTLY MOIS	IRP
W-151	CNGT	17-APR-91	20	30	CLAY	CL	1	INTERBEDDED CLAY AND CLAY WITH LIMESTONE, SOME GRAVEL.	IRP
W-151	CNGT	17-APR-91	30	32	STCL	ML	1	VERY PALE BROWN TO PALE BROWN, VERY WET, MEDIUM TO HIGH PLASTICI	IRP
W-151	CNGT	17-APR-91	32	35	STCL	CL	1	VERY PALE BROWN TO PALE BROWN, MEDIUM PLASTICITY, WET, SOFT, TRA	IRP
W-151	CNGT	17-APR-91	35	35.5	SDCL	CL	1	FINE GRAINED.	IRP
W-151	CNGT	17-APR-91	35.5	36.5	STCL	CL	1	BROWNISH YELLOW, SOFT, MEDIUM PLASTICITY.	IRP
W-151	CNGT	17-APR-91	36.5	37	CLAY	CL	1	FIRM, WET, HIGHLY PLASTIC.	IRP
W-151	CNGT	17-APR-91	37	39.5	STCL	CL	1	SOFT, MEDIUM TO LOW PLASTICITY, WET.	IRP
W-151	CNGT	17-APR-91	39.5	40	CLAY	CL	1	SLIGHTLY FIRM, MEDIUM TO HIGH PLASTICITY, WET.	IRP
W-151	CNGT	17-APR-91	40	41.5	STCL	CL	1	SOFT, LOW TO MEDIUM PLASTICITY, WET, REDDISH YELLOW.	IRP
W-151	CNGT	17-APR-91	41.5	42	SDSL	SM	1	FINE GRAINED, WET, SOFT.	IRP

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
W-151	CNGT	17-APR-91	42	43.9	STCL	ML	1	MOTTLED VERY PALE BROWN AND REDDISH YELLOW, FIRM, HIGHLY PLASTIC	IRP
W-151	CNGT	17-APR-91	43.9	44	SD	SW	1	MEDIUM GRAINED, WET, RUST STAINED.	IRP
W-151	CNGT	17-APR-91	44	46	STCL	ML	1	MOTTLED PALE BROWN AND REDDISH YELLOW, MORE CLAY WITH DEPTH.	IRP
W-151	CNGT	17-APR-91	46	47.5	SDSL	SM	1	PINK WITH REDDISH YELLOW CLAY, VERY FINE GRAINED SAND, RUST STAIN	IRP
W-151	CNGT	17-APR-91	47.5	48.3	SD	SM	1	FINE GRAINED, POORLY GRADED, VERY RUSTY.	IRP
W-151	CNGT	17-APR-91	48.3	54	CLAY	CL	1	REDDISH YELLOW, FIRM TO VERY FIRM, STRINGERS OF SILT AND VERY FINE	IRP
W-151	CNGT	17-APR-91	54	57.5	CLAY	CL	1	STRONG BROWN, TRACE SILT, FIRM TO VERY FIRM.	IRP
W-151	CNGT	17-APR-91	57.5	58.8	SD	SM	1	FINE TO MEDIUM GRAINED, VERY WET, NUMEROUS RUST AND DARK STAINS	IRP
W-152	CNGT	27-APR-91	0	1.3	CN	NACM	0	Concrete pavement.	BCH
W-152	CNGT	27-APR-91	1.3	2.3	STCL	CL	1	SANDY, SILTY, SAND IS MODERATELY SORTED, SUBROUNDED, CLAY HAS L	IRP
W-152	CNGT	27-APR-91	2.3	4.5	STCL	CL	1	OCCASIONAL GRAVEL LAYERS, LOW PLASTICITY,SLIGHTLY MOIST.	IRP
W-152	CNGT	27-APR-91	4.5	10	STCL	ML	1	BROWNISH YELLOW, LOW PLASTICITY, TRACE GRAVEL, MODERATELY TO SLI	IRP
W-152	CNGT	27-APR-91	10	11.6	GVL	GC	1	Gravelly silty clay, brownish yellow (10YR 6/6) gravel ~10 to 40%, poor sorting	BCH
W-152	CNGT	27-APR-91	11.6	12	SDCL	ML	1	Sandy silty clay with 40% fine-coarse sand.	BCH
W-152	CNGT	27-APR-91	12	14	GVL	GC	1	Gravelly silty clay to gravelly clay, brownish yellow (10YR 6/6) gravel and coars	BCH
W-152	CNGT	27-APR-91	14	17.4	STCL	ML	1	SANDY, CLAYEY, BROWNISH YELLOW, MODERATELY TO NONPLASTIC, MOIS	IRP
W-152	CNGT	27-APR-91	17.4	17.8	GVL	GM	1	BROWNISH YELLOW, POORLY SORTED.	IRP
W-152	CNGT	27-APR-91	17.8	18	SDSL	SM	1	LIGHT BROWN YELLOW, SAND IS FINE GRAINED, SUBANGULAR, NONPLASTIC	IRP
W-152	CNGT	27-APR-91	18	18.6	SDCL	CL	1	SANDY, SILTY, STRONG BROWN, SAND IS MODERATELY SORTED, SUBANGU	IRP
W-152	CNGT	27-APR-91	18.6	24	SDSL	ML	1	SAND IS VERY FINE TO FINE GRAINED, MODERATELY SORTED, TRACE GRAVE	IRP
W-152	CNGT	27-APR-91	24	26	SDGR	GM	1	Gravelly, silty sand, yellow brown, to various gray gravel 10%, silt 30 to 40%,	BCH
W-152	CNGT	27-APR-91	26	27	SHLE	NACM	2	Shale, well sorted, no plasticity, soft to mod to well lindurated calcareous, silty	BCH
W-152	CNGT	27-APR-91	27	36	SHLE	NACM	2	Shale, well sorted, no plasticity, soft to mod to well indurated, calcareous, silty	BCH
W-152	CNGT	27-APR-91	36	36.1	LS	NACM	3	Walnut Formation.	BCH
W-153	CNGT	29-APR-91	0	0.5	NSNR	NSNR	0	Not recovered.	BCH
W-153	CNGT	29-APR-91	0.5	1.6	SDGR	GW	1	Gravelly sand, gravel 20%, poor sort, subangular to subrounded, not indurated--l	BCH
W-153	CNGT	29-APR-91	1.6	2	SDGR	GM	1	Gravelly silty clay, dark material with trace natural vegetation organics, gravel 1	BCH
W-153	CNGT	29-APR-91	2	10	STCL	CL	1	Silty, clay, gravel <1% silt, ~30% to 40% grains, mod. well sort, subangular-s	BCH
W-153	CNGT	29-APR-91	10	11.7	SDCL	CL	1	Sandy silty clay (5TR 5/2), sand increasing with depth 1% to 10% very fine grai	BCH
W-153	CNGT	29-APR-91	11.7	12	SD	SP	1	Sand (2.5YR 7/2) very fine to fine grained, mod. sorted, subrounded, moist.	BCH
W-153	CNGT	29-APR-91	12	14	SDCL	CL	1	Clayey silty sand, mostly oxidized rusty color (7.5YR 5/8). Clay and silt decreas	BCH
W-153	CNGT	29-APR-91	14	17.2	SD	SP	1	Sand (10YR 7/2-7/3) mostly fine grained but 10-20% very fine, mod.--well sort,	BCH
W-153	CNGT	29-APR-91	17.2	39	SDGR	GW	1	Gravelly sand, gravel 20-30%, fine to coarse sand, poor sort, loose, moist, wate	BCH
W-153	CNGT	29-APR-91	39	39.4	LS	NACM	3	Hard drilling at ~39' and split barrel refusal, assume this is Walnut Fm.	BCH
W-154	CNGT	29-APR-91	0	2	CLAY	CL	1	Clay, dry, hard with grass and roots. <50% gravel intermixed, poorly sorted, br	BCH
W-154	CNGT	29-APR-91	2	5	SDSL	ML	1	Silty clay/sandy clay, slightly moist, medium to high plasticity, firm, poorly sorte	BCH
W-154	CNGT	29-APR-91	5	8	GVL	GW	1	Gravel fine to medium (up to 1 1/2") mixed with sand, very poorly sorted, mostl	BCH
W-154	CNGT	29-APR-91	8	10.4	SDGR	GW	1	Gravel (limestone) ~50%, coarse sand ~30%, silty clay ~20%, very poorly sor	BCH
W-154	CNGT	29-APR-91	10.4	12	NSNR	NSNR	1	No recovery.	BCH
W-154	CNGT	29-APR-91	12	14	GVL	GC	1	No recovery, cuttings - subrounded limestone gravels and moist, silty clay.	BCH
W-154	CNGT	29-APR-91	14	15	SDCL	CL	1	Sandy clay, slightlyl moist, crumbly, low plasticity, sand is fine grained, subangu	BCH
W-154	CNGT	29-APR-91	15	16	NSNR	NSNR	1	No recovery.	BCH
W-154	CNGT	29-APR-91	16	18	STCL	SM	1	Silty sand/clayey sand. Slightly moist, medium firmness, crumbly, medium sorti	BCH
W-154	CNGT	29-APR-91	18	20	SD	SW	1	Sand, medium to coarse grains, angular to subangular, dry, loose, poorly sorted,	BCH
W-154	CNGT	29-APR-91	20	24	GVL	GW	1	Refusal, cuttings of dense limestone/limestone gravels and dry clay mixed with	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
W-154	CNGT	29-APR-91	24	26	GVL	GW	1	Augered cuttings 90% limestone and limestone gravels up to 2" with 10% clay.	BCH
W-154	CNGT	29-APR-91	26	30	SD	SP	1	Augered, cuttings 20% gravel and 80% sand/sandy clay, moist to very moist.	BCH
W-154	CNGT	29-APR-91	30	36	SD	CL	1	Sandy clay very little gravel, wet, sand is fine grained, grades to silty sand cutti	BCH
W-154	CNGT	29-APR-91	36	41.5	SHLE	NACM	2	Clayey shale, dry, fissile, stiff, dark gray, green and tan, slightly calcareous, Go	BCH
W-154	CNGT	29-APR-91	41.5	42.3	LS	NACM	3	Dense, dark gray limestone, dry, with a few fossils (Walnut).	BCH
W-155	CNGT	30-APR-91	0	2	STCL	CL	1	Silty clay (7.5YR 3/2) silt 20-30%, mod-well sort, subangular to subrounded,	BCH
W-155	CNGT	30-APR-91	2	6	GVL	GC	1	Gravelly clayey silt, gravel 5% limestone quartz, fldsp, up to 1cm, clay ~30%,	BCH
W-155	CNGT	30-APR-91	6	10	STCL	CL	1	Clayey silt (10YR 3/3) gravel <1%, limestone <1cm L.D. mod-poor plasticity,	BCH
W-155	CNGT	30-APR-91	10	12	SDCL	CL	1	Sandy, silty clay (2.4YR 3/2) silt 20-30%, sand 10-20%, grains subrounded, m	BCH
W-155	CNGT	30-APR-91	12	14	SD	SP	1	Gravelly sandy silty clay, 10YR 3/6, gravel 5%-10% subrounded, limestone, fdsr	BCH
W-155	CNGT	30-APR-91	14	18	SDGR	GM	1	Gravelly silty sand; 74YR 4/4, gravel 10%, subrounded, limestone, volcanic, sili	BCH
W-155	CNGT	30-APR-91	18	20	SDGR	GW	1	Gravelly sandy clay; 2.5YR 5/4, gravel 15%, subrounded, limestone, fossils (oys	BCH
W-155	CNGT	30-APR-91	20	20.7	SHLE	NACM	2	Weathered limestone or limey shale, 2.5YR 7/2, with some oxidation iron oxide	BCH
W-155	CNGT	30-APR-91	20.7	21.5	LS	NACM	3	Hard drilling split barrel refusal, auger flights sample fossil rich limestone Walnut	BCH
W-156	CNGT	01-MAY-91	0	1	CN	NACM	0	Concrete pavement.	BCH
W-156	CNGT	01-MAY-91	1	2	NSNR	NSNR	1	Auger, no cuttings.	BCH
W-156	CNGT	01-MAY-91	2	31	STCL	CL	1	Reddish yellow (7.5YR 7/6) clayey silt with trace of limestone, well rounded coa	BCH
W-156	CNGT	01-MAY-91	31	32	SD	SP	1	Fine grained sand, wet, subangular to subrounded, interbedded with silty clay.	BCH
W-156	CNGT	01-MAY-91	32	35	STCL	CL	1	Silty clay, silt ~30% with ~20% stringers of fine sand <2", wet.	BCH
W-156	CNGT	01-MAY-91	35	48	CLAY	CL	1	Silt decreases, becomes firmer, med plasticity, light reddish brown (5YR 6/4), m	BCH
W-156	CNGT	01-MAY-91	48	56	SD	SP	1	Fine to med grained sand, poorly graded, wet, not flowing, very soft.	BCH
W-156	CNGT	01-MAY-91	56	57	LS	NACM	3	Hard augering, very little recovery, Walnut contact, trace of fossilferous limesto	BCH
W-157	CNGT	30-MAY-91	0	3	CLAY	CL	1	Clay, cohesive, slightly moist, mixed with sand and gravel up to 2" (40%) poorl	BCH
W-157	CNGT	30-MAY-91	3	3.5	SD	SP	1	Lense of medium grain, dry, angular sand.	BCH
W-157	CNGT	30-MAY-91	3.5	4	CLAY	CL	1	Clay, dry, medium strength and plastsicity, with ~20% coarse sand and small li	BCH
W-157	CNGT	30-MAY-91	4	6	GVL	GC	1	Clay with gravel and coarse sand, dry nonhomogenous, poorly sorted, some frag	BCH
W-157	CNGT	30-MAY-91	6	9.5	STCL	OL	1	Silty clay, dry, low plasticity, hard, crumbly, homogenous with very little gravel.	BCH
W-157	CNGT	30-MAY-91	9.5	11	GVL	GW	1	Limestone gravel, dry, poorly sorted, some silty clay (<10%) white to yellow, r	BCH
W-157	CNGT	30-MAY-91	11	30	SHLE	NACM	2	Goodland, weathered shale and cohesive clays interbedded, dry to moist, tan, br	BCH
W-157	CNGT	30-MAY-91	30	31.5	LS	NACM	3	Walnut - dark gray, dense, limestone, fossils (oysters).	BCH
W-158	CNGT	01-JUN-91	0	0.5	CN	NACM	0	Concrete pavement.	BCH
W-158	CNGT	01-JUN-91	0.5	14	STCL	CL	1	Light brown/buff, limestone gravels to 3", 15-20%.	BCH
W-158	CNGT	01-JUN-91	14	28	SDSL	ML	1	Very fine sands with silt, very slight clay, yellow brown, limestone gravels p0res	BCH
W-158	CNGT	01-JUN-91	28	33.5	STCL	CL	1	Yellow/brown silty clay with graces of weathered limestone gravel, water at 29'	BCH
W-158	CNGT	01-JUN-91	33.5	35	SDGR	GW	1	Coarse sand mixed with limestone pebbles, gravels.	BCH
W-158	CNGT	01-JUN-91	35	37.8	LS	NACM	3	Walnut Fm., weathered, fossiliferous, gray limestone.	BCH
W-159	CNGT	01-JUN-91	0	0.5	CN	NACM	0	Concrete pavement.	BCH
W-159	CNGT	01-JUN-91	0.5	5	GVL	GW	1	Gravel mixed with sand, very poorly sorted, gravels up to 2.5" small amount of	BCH
W-159	CNGT	01-JUN-91	5	7	SD	SP	1	Sand medium grained, subangular, mixed with some silt, mottled coloring (red, b	BCH
W-159	CNGT	01-JUN-91	7	8	SDGR	SM	1	Silty sand, fine to medium grained, angular, ~20% silt, low plasticity, medium s	BCH
W-159	CNGT	01-JUN-91	8	16	SDSL	CL	1	Coarse gravel mixed with medium to coarse, dry, very poorly sorted sand, nonh	BCH
W-159	CNGT	01-JUN-91	16	17	GVL	GW	1	Gravel, coarse dry limestone gravel and fragments up to 3" poorly sorted gray to	BCH
W-159	CNGT	01-JUN-91	17	24	SDSL	SM	1	Silty sand, medium, to fine, subangular to subrounded, dry loose, medium to we	BCH
W-159	CNGT	01-JUN-91	24	27	SDCL	CL	1	Silty clay/sandy clay, moist to very moist, high plasticity, cohesive, predominant	BCH
W-159	CNGT	01-JUN-91	27	33	SDSL	SM	1	Silty sand/sandy silt, very moist to wet, sticky, cohesive, medium plasticity, me	BCH

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
W-159	CNGT	01-JUN-91	33	36	SD	SP	1	Sand, homogeneous, medium grained, angular to subangular, wet, loose, mediu	BCH
W-159	CNGT	01-JUN-91	36	37	LS	NACM	3	Walnut, dense, hard, white, fossiliferous limestone.	BCH
W-160	CNGT	02-JUN-91	0	0.5	CN	NACM	0	Concrete pavement.	BCH
W-160	CNGT	02-JUN-91	0.5	3	SD	SP	1	Fine to coarse sand, brown/organe to light brown, mixed with pebbles, gravels (l	BCH
W-160	CNGT	02-JUN-91	3	3	CN	NACM	0	Concrete.	BCH
W-160	CNGT	02-JUN-91	3	18	SD	SP	1	Fine sand to silt, light brown/yellow, iron staining, with caliche intermixed, mino	BCH
W-160	CNGT	02-JUN-91	18	27	SDCL	ML	1	Fine grained sand/silt, brown, yellow, reddish-brown, clays are minor to moderat	BCH
W-160	CNGT	02-JUN-91	27	31.5	SDGR	GW	1	Fine-coarse sand, minor clay, red-yellowish-light brown, mixed with limestone p	BCH
W-160	CNGT	02-JUN-91	31.5	33	SDCL	ML	1	Fine sands/silts, yellowish brown, clays, no limestone present.	BCH
W-160	CNGT	02-JUN-91	33	35.6	SDGR	CL	1	Medium-coarse sands, fossils, limestone pebbles and cobbles to 3 1/2", light bro	BCH
W-160	CNGT	02-JUN-91	35.6	38	LS	NACM	3	Possible contact with Walnut, no recovery to 3B'.	BCH
WP07-10A	ACUX	01-JAN-99	0	0	ASPT	CH	0	NO LITH. LOG, DONT KNOW LOGGING CO., OR ANY OTHER PARTICULARS RE	IRP
WS-1	JEG	01-JAN-10	0	0	ASPT	CH	0	LITHOLOGIC LOG NOT AVAILABLE.	IRP
WS-12	ACUX	01-JAN-99	0	0	ASPT	CH	0	NO LITHOLOGIC LOG AVAILABLE FOR THIS WELL.	IRP
WS-2	ACUX	01-JAN-99	0	0	FILL	NACM	0	NO LITHOLOGIC LOG AVAILABLE FOR THIS WELL.	IRP
WS-3	JEG	01-JAN-10	0	0	ASPT	CH	0	LITHOLOGIC LOG UNAVAILABLE.	IRP
X1	CNGT	19-DEC-89	0	2	NAUM	CL	1	Very silty clay, brown, dry and crumbly, hard.	BCH
X1	CNGT	19-DEC-B9	2	5	NAUM	CL	1	Very silty clay, brown, dry and crumbly, hard, with calcareous nodules.	BCH
X1	CNGT	19-DEC-89	5	9.1	NAUM	CL	1	Light brown with caliche, severely weathered limestone.	BCH
X10	CNGT	20-DEC-B9	0	1.5	NAUM	CL	1	Silty clay with limestone gravel, brown with some sand.	BCH
X10	CNGT	20-DEC-89	1.5	5	NAUM	CL	1	Silty clay, light orange/brown with some calc nods.	BCH
X10	CNGT	20-DEC-89	5	9.4	NAUM	CL	1	Severely weathered limestone, tan, light brown with calc nods.	BCH
X11	CNGT	20-DEC-89	0	2	NAUM	CL	1	Silty clay, brown with trace of calc nods, dry and crumbly.	BCH
X11	CNGT	20-DEC-B9	2	5	NAUM	CL	1	Silty clay, dark brown with trace of calc nods, hard.	BCH
X11	CNGT	20-DEC-89	5	9.3	NAUM	CL	1	Severely weathered limestone, tan, light brown with calc.	BCH
X2	CNGT	19-DEC-B9	0	2	NAUM	CL	1	Very silty clay, dark brown, very crumbly.	BCH
X2	CNGT	19-DEC-B9	2	5	NAUM	CL	1	Silty clay, brown, hard with calc nodules, hard.	BCH
X2	CNGT	19-DEC-89	5	9.1	NAUM	CL	1	Silty clay, light orange with calc nods, hard with trace of sand.	BCH
X3	CNGT	19-DEC-89	0	1.5	NAUM	CL	1	Silty clay, dark brown, hard, dry and crumbly.	BCH
X3	CNGT	19-DEC-89	1.5	2	NAUM	CL	1	Very silty clay, dark brown, very crumbly.	BCH
X3	CNGT	19-DEC-89	2	4.5	NAUM	CL	1	Silty clay, light orange with trace calcareous nodules, hard.	BCH
X3	CNGT	19-DEC-B9	4.5	5	NAUM	CL	1	Silty clay with limestone.	BCH
X3	CNGT	19-DEC-89	5	9	NAUM	CL	1	Severely weathered limestone, tan, light brown.	BCH
X4	CNGT	19-DEC-B9	0	5	NAUM	CL	1	Silty clay, dark brown, black.	BCH
X4	CNGT	19-DEC-B9	5	6	NAUM	CL	1	Silty clay, light orange/brown with some calc.	BCH
X4	CNGT	19-DEC-89	6	9.1	NAUM	CL	1	Severely weathered limestone, tan, light brown with calcareous nodules and	BCH
X5	CNGT	19-DEC-89	0	6	NAUM	CL	1	Silty clay, sandy, brown, hard with calcareous nodules.	BCH
X5	CNGT	19-DEC-89	6	9.4	NAUM	CL	1	Severely weathered limestone, tan, light brown with calc with trace of iron st	BCH
X6	CNGT	19-DEC-89	0	5.5	NAUM	CL	1	Silty clay, dark brown-black with trace of iron stain.	BCH
X6	CNGT	19-DEC-B9	5.5	8	NAUM	CL	1	Silty clay, orange/brown with calcareous nodules, crumbly.	BCH
X6	CNGT	19-DEC-89	8	9.3	NAUM	CL	1	Severely weathered limestone, tan, light brown with caliche.	BCH
X7	CNGT	19-DEC-89	0	1.5	NAUM	CL	1	Silty-sandy clay, brown, hard with trace of limestone gravel and calc nods with	BCH
X7	CNGT	19-DEC-89	1.5	5	NAUM	CL	1	Silty-sandy clay, brown-black, hard with some limestone with trace of iron stain.	BCH
X7	CNGT	19-DEC-89	5	9.3	NAUM	CL	1	Silt, tan, light brown with some calc, very crumbly.	BCH
XB	CNGT	19-DEC-B9	0	2.5	NAUM	CL	1	Silty clay, light brown with some limestone.	BCH

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TABLE A11 LTD Table Illustrating Missing Data

5/24/95

LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
X8	CNGT	19-DEC-89	2.5	6.5	NAUM	CL	1	Silty-sandy clay, brown with trace of gravel and calc nods with trace of iron stai	BCH
X8	CNGT	19-DEC-89	6.5	9.3	NAUM	CL	1	More gravel and calcareous nodules.	BCH
X9	CNGT	19-DEC-89	0	10	NAUM	CL	1	Silt with limestone gravel (some large) with trace of iron stain.	BCH

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TA8LE A12 LDI Locations wit. . associated LTD Lithologic Data

LOCID	LTC	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
C-1			401305.73	2012655.5										EXP
C-3			402933.22	2014396.5										EXP
C-4			401658.37	2013648.0										EXP
C-5			404110.91	2014705.1										EXP
DOCK-17	WL	I	406058.18	2016582.2	629.8	USAF	JEG	NA	Z	01-JAN-99	1	1	NO CONSTRUCTION INFORMATION AVAI	IRP
F-200	WL	I	405406.49	2015406.1	646	USAF	SWL	NA	HS	24-FEB-86	28.5	4	FUEL SATURATION AREA 3	IRP
F-200			405406.49	2015406.1	646									EXP
F-201			405553.32	2015404.2										EXP
F-202	WL	I	405503.53	2015120.4	641.9	USAF	JEG	NA	HS	25-FE8-86	21	4	FUEL SATURATION AREA 3	IRP
F-203	WL	I	402373.93	2015243.0	645.6	USAF	SWL	NA	HS	25-FEB-86	33	4	FSA NO. 1	IRP
F-204	WL	I	401951.36	2015169.6	654.1	USAF	SWL	NA	HS	25-FEB-86	31.2	40	SOUTH OF BUILDING 14	IRP
FSA-3-01	WL	I	405748.03	2015356.1	0	HARG	SWL	NA	Z	06-JUN-88	19.5	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-02	WL	I	405748.64	2015325.7	638.1	HARG	SWL	NA	Z	06-JUN-88	20	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-03	WL	I	405749.77	2015250.0	632.4	HARG	SWL	NA	Z	06-JUN-88	20	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-04	WL	I	405750.27	2015203.6	630.9	HARG	SWL	NA	Z	07-JUN-88	15	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-06	WL	I	405805.59	2015251.4	630.9	HARG	SWL	NA	Z	07-JUN-88	12	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-07	WL	I	405796.66	2015303	634.9	HARG	SWL	NA	Z	07-JUN-88	15	6.25	FUEL SATURATION AREA 3	JC8
FSA-3-08	WL	I	405844.79	2015284.9	631.7	HARG	SWL	NA	Z	07-JUN-88	15.2	3.33	FUEL SATURATION AREA 3	IRP
FSA-3-10	WL	I	405803.39	2015351.2	638.7	HARG	SWL	NA	Z	07-JUN-88	20	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-12	WL	I	405726.14	2015407.8	642	HARG	SWL	NA	Z	08-JUN-88	19.5	6.25	FUEL SATURATION AREA 3	IRP
FSA-3-14	WL	I	405731.8	2015146.4	632.12	ITC	CAD	NA	HS	09-JUL-92	9.5	8	FUEL SATURATION AREA 3	IRP
FSA-3-15	WL	I	405733.52	2015171.3	632.14	ITC	CAD	NA	HS	09-JUL-92	9.5	8	FUEL SATURATION AREA 3	IRP
FSA-3-16	WL	I	405731.8	2015184.2	632.23	ITC	CAD	NA	HS	09-JUL-92	9.5	8	FUEL SATURATION AREA 3	IRP
FSA-3-17	WL	I	405724.93	2015163.6	633.55	ITC	CAD	NA	HS	09-JUL-92	9.5	8	FUEL SATURATION AREA 3	IRP
FSA3-13			405715.13	2015211.6										EXP
FSA3-14			405723.24	2015157.8										EXP
FSA3-15			405724.66	2015172.1										EXP
FSA3-16			405725.43	2015188.1										EXP
FSA3-17			405712.07	2015172.4										EXP
FT09-12B	WL	I	397282.08	2020270.7	625.6	RAD	EDC	NA	8	01-MAR-9	40	8	WEST FLIGHT LINE NEAR FIRE TRAINING	IRP
HA-1														IRP
HA-2														IRP
HA-3														IRP
HA-4														IRP
HA-5														IRP
HA-6														IRP
HM-36	WL	I	402220.5	2014323.0	634.3	HARG	SWL	NA	AR	11-APR-84	16	4.75	SOUTH END OF LANDFILL NO. 3	IRP
HM-4B	WL		399977.11	2014938.3	653.8									EXP
LABQC		I				RAD				31-MAR-8				IRP
LF04-10	WL	I	396962.68	2021738.8	626.9	RAD	EDC	NA	8	02-APR-90	49.1	8	CARSWELL GOLF COURSE	IRP
LF04-4A	WL	I	396849.12	2020424.5	624.6	RAD	EDC	NA	B	01-MAR-9	24	8	CARSWELL GOLF COURSE	IRP
LF04-4B	WL	I	396886.95	2020872.2	618.4	RAD	EDC	NA	B	01-MAR-9	24	8	CARSWELL GOLF COURSE SOUTH OF RO	IRP
LF04-4C	WL	I	397195.28	2021216.0	610.9	RAD	EDC	NA	8	01-MAR-9	29.5	8	CARSWELL GOLF COURSE	IRP

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LOCID	LTC	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
LF04-4G	WL	I	397811.35	2021252.0	619.1	RAD	EDC	NA	B	01-MAR-9	36	8	CARSWELL GOLF COURSE	IRP
LF05-02	WL	I	399268.85	2019860.5	620	RAD	EDC	NA	B	22-MAR-9	27.2	8	CARSWELL	IRP
LF05-14	WL	I	398498.71	2021323.5	603.2	RAD	EDC	NA	B	19-MAR-9	13.3	8	CARSWELL GOLF COURSE	IRP
LF05-18	WL	I	398184.11	2021694.2	612.1	RAD	EDC	NA	B	21-MAR-9	23.9	8	CARSWELL GOLF COURSE	IRP
LF05-5B	WL	I	398524.16	2020719.3	597.4	RAD	EDC	NA	B	01-MAR-9	9	8	CARSWELL GOLF COURSE	IRP
LF05-5D	WL	I	398362.32	2019960.2	608.5	RAD	EDC	NA	B	01-MAR-9	20.5	8	CARSWELL	IRP
LF05-5E	WL	O	397768.46	2020133.1	0	JEG	JEG	NA	UN	22-MAY-9	333.	3.33	CARSWELL AIR FORCE BASE	IRP
LW-04			404330.7	2014409.3	592.7									EXP
LW-06			404767.5	2014502.1	592.7									EXP
LW-07			404879.5	2014444.8	592.7									EXP
LW-09			406251.2	2014960.7	592.7									EXP
LW-10			406531.1	2015012.3	592.7									EXP
LW-13			407664.7	2016138.2	592.7									EXP
LW-14			407790.6	2016161.1	592.7									EXP
LW-19			407682.1	2017015.4	592.7									EXP
LW-20			407741.6	2017095.6	592.7									EXP
LW-22			406724.27	2017657.9	592.7									EXP
LW-23			406956.8	2017706.6	592.7									EXP
LW-25			402780	2014329.2	592.7									EXP
LW-26			404032.2	2014723	592.7									EXP
MW-1	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-2	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-3	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-4	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-5	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-6	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
MW-7	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
OF-1														IRP
OLD HOLE			406003.19	2015537.4										EXP
OUT#1			399725.82	2017236.8										EXP
OUT#3			405933.1	2015175.5										EXP
OUT#4			403755.78	2014705.2										EXP
P-20		I				RAD				28-FEB-86				IRP
P-21		I				RAD				28-FEB-86				IRP
P-21M														IRP
P-5US	WL	I	402808.78	2015274.3	653	HARG	SWL	NA	AM	14-OCT-87	101	12.2	WEST ASSEMBLY BUILDING/PLANT	IRP
P1L	WL	O	6967334.9	2289687.9	631.84	USGS	USGS	NA	MR	10-JAN-94	203	5.88	USGS Lower Paluxy well at Killdeer and Sh	JCB
P1M	WL	O	6967336.2	2289668.0	631.82	USGS	USGS	NA	MR	12-JAN-94	172	5.88	USGS Middle Paluxy well at Killdeer and Sh	JCB
P1U	WL	O	6967337.7	2289668.0	632.08	USGS	USGS	NA	AR	11-JAN-94	70	5.88	USGS Upper Paluxy well at Kildeer and Sho	JCB
P2L	WL	I	6968817.3	2288965	636.71	USGS	USGS	NA	MR	26-JAN-94	207	5.88	USGS Lower Paluxy well near National Gua	JCB
P2M	WL	I	6968817.3	2288944.8	636.74	USGS	USGS	NA	MR	27-JAN-94	117	5.88	USGS Middle Paluxy well near National Gu	JCB
P2U	WL	I	6968826.0	2288943.6	632.82	USGS	USGS	NA	AR	28-JAN-94	78	5.88	USGS Upper Paluxy well near National Gua	JCB
P3-C	WL		0	0	0	ESCI				12/12/93	0	0		PAR

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LOCID	LTC	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
RSB-33			401091.51	2017530.1										EXP
RSB-67			397700.06	2019320.6										EXP
SB-00B	BH	I	400162.2	2014989.7	654.7	CNGT	LES	NA	HS	19-FEB-91	24.5	10.2	DYCP	BCH
SB-065	BH	I	400007.8	2015057.3	653.7	CNGT	LES	NA	HS	05-MAR-9	21.8	7.25	FDTA-5	BCH
SB-067	BH	I	400078.0B	2015126.7	653.5	CNGT	LES	NA	HS	05-MAR-9	20.7	7.25	FDTA-5	BCH
SB-078	BH	I	400081.82	2015130.1	653.5	CNGT	LES	NA	HS	06-MAR-9	33.0	7.25	FDTA-5	BCH
SB-079	BH	I	401942.06	2015251.1	0	CNGT	LES	NA	HS	27-MAR-9	32.5	7.25	FSA-1	BCH
SB-085	BH	I	405B81	2015639.2	643.B	CNGT	LES	NA	HS	13-MAR-9	17.9	7.25	JETS	BCH
SB-1														IRP
SB-10														IRP
SB-103	BH	I	404566.86	2015166	648.8	CNGT	LES	NA	HS	20-MAR-9	12.3	7.25	FSA-2	BCH
SB-109	BH	I	402253.77	2015278.2	0	CNGT	LES	NA	HS	02-APR-91	33.2	7.25	FSA-1	BCH
SB-11														IRP
SB-110	BH	I	400224.74	2015486.3	0	CNGT	LES	NA	HS	26-MAR-9	28.9	7.25	WCB	BCH
SB-111	BH	I	402115.04	201520B.9	0	CNGT	LES	NA	HS	30-MAR-9	32.0	10.2	FSA-1	BCH
SB-112	BH	I	402073.54	2015281.9	0	CNGT	LES	NA	HS	28-MAR-9	29.3	10.2	FSA-1	BCH
SB-113	BH	I	405272.24	2015758.9	0	CNGT	LES	NA	HS	03-APR-91	30.0	7.25	FSA-3	BCH
SB-114			402063.13	2015281.4										EXP
SB-119	BH	I	399842.72	2015163.3	652.1	CNGT	LES	NA	HS	20-MAY-9	100.	10.6	South of Building 12	BCH
SB-12														IRP
SB-125	BH	I	402307.53	20149B8.6	0	CNGT	LES	NA	HS	10-APR-91	32.8	10.2	FSA-1	BCH
SB-131	BH	I	401847.31	2015154.3	0	CNGT	LES	NA	HS	11-APR-91	28.0	7.25	N/A	BCH
SB-132	BH	I	402872.31	2014439.1	0	CNGT	LES	NA	HS	14-APR-91	30.0	10.2	N/A	BCH
SB-133	BH	I	401944.09	2015078.9	0	CNGT	LES	NA	HS	15-APR-91	31.0	7.25	N/A	BCH
SB-134	BH	I	400801.82	2014799.9	0	CNGT	LES	NA	HS	16-APR-91	31.5	8.25	N/A	BCH
SB-135	BH	I	401917.23	2016993.4	0	CNGT	LES	NA	HS	17-APR-91	58.7	8.25	N/A	BCH
SB-137	BH	I	401692.05	2017008.2	0	CNGT	LES	NA	HS	17-APR-91	58.8	10.2	EPL	BCH
SB-141			400660.04	2014625.1										EXP
SB-142	BH	I	402213.92	2016441.2	0	CNGT	LES	NA	HS	27-APR-91	36.1	10.2	EPL	BCH
SB-143	BH	O	401801.98	2018630.4	0	CNGT	LES	NA	HS	29-APR-91	39.4	10.2	FLA	BCH
SB-146	BH	O	404980.42	2017710.1	0	CNGT	LES	NA	HS	30-APR-91	23.0	10.2	FLA	BCH
SB-147	BH	O	401531.99	2017346.4	644.4	CNGT	LES	NA	HS	01-MAY-9	58.5	8.25	FLA	BCH
SB-150		•	400162.22	2014995.5									DYCP	EXP
SB-151	BH	O	399663.7	2015211.5	0	CNGT	LES	NA	HS	30-MAY-9	31.5	B.25	CLFD	BCH
SB-152	BH	I	400679.14	2015603.8	0	CNGT	LES	NA	HS	01-JUN-91	37.8	7.25	PPI	BCH
SB-153	BH	I	400644.4	2015893.5	0	CNGT	LES	NA	HS	01-JUN-91	37.0	8.25	PPI	BCH
SB-154	BH	I	400170.2	2015886.7	0	CNGT	LES	NA	HS	02-JUN-91	38.5	8.25	PPI	BCH
SB-155	BH	O	399648.19	2016879.1	636	CNGT	LES	NA	HS	03-JUN-91	15.0	8.25	CLFD	BCH
SB-2														IRP
SB-3														IRP
SB-4														IRP
SB-5														IRP
SB-6														IRP

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LOCID	LTC	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SB-7														IRP
SB-8														IRP
SB-9														IRP
SG-20														IRP
SG-21														IRP
SG-22														IRP
SG-23														IRP
SG-24														IRP
SG-25														IRP
SG-26														IRP
SG-27														IRP
SG-28														IRP
SG-29														IRP
SG-30														IRP
SG-31														IRP
SG-32														IRP
SG-33														IRP
SG-34														IRP
SG-35														IRP
SG-36														IRP
SG-37														IRP
SG-38														IRP
SG-39														IRP
SG-40														IRP
SG-41														IRP
SG-42														IRP
SG-43														IRP
SG-44														IRP
SG-45														IRP
SG-46														IRP
SG-47														IRP
SG-48														IRP
SG-49														IRP
SG-50														IRP
SG-51														IRP
SG-52														IRP
SG-53														IRP
SG-54														IRP
SG-55														IRP
SG-56														IRP
SG-57														IRP
SG-58														IRP
SG-59														IRP

258251

LOCID	LTC	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SG-60														IRP
SG-61														IRP
SG-62														IRP
SG-63														IRP
SG-64														IRP
SG-65														IRP
SG-66														IRP
SG-67														IRP
SG-68														IRP
SG-69														IRP
SG-70														IRP
SG-71														IRP
SG-72														IRP
SG-73														IRP
SG-74														IRP
SG-75														IRP
SG-76														IRP
SG-77														IRP
SG-78														IRP
SG-79														IRP
SG-80														IRP
SG-81														IRP
SG-82														IRP
SG-83														IRP
SG-84														IRP
SG-85														IRP
SG-86														IRP
SG-87														IRP
SG-88														IRP
SG-89														IRP
SG-90														IRP
SL-24	BH	I	402400.69	2016667.0	652	UNK	SWL		UN	04-FEB-67	67		Drilled to investigate subsurface conditions	EXP
SL-25	BH	I	402506.42	2016664.2	652	UNK	SWL		UN	05-FEB-67	66		Drilled to investigate subsurface conditions	EXP
SL-27	BH	I	399875.16	2015706.0	650	UNK	SWL		UN	18-FEB-67	29		Drilled to investigate subsurface conditions	EXP
SL-32	BH	I	399869.55	2016243.8	650	UNK	SWL		UN	19-FEB-67	21		Drilled to investigate subsurface conditions	EXP
SL-33	BH	I	400192.87	2016243.5	650	UNK	SWL		UN	19-FEB-67	43.5		Drilled to investigate subsurface conditions	EXP
SL-34	BH	I	404326.16	2013047.2	650	UNK	SWL		UN	19-FEB-67	43.5		Drilled to investigate subsurface conditions	EXP
SL-35	BH	I	399863.85	2016428.7	650	UNK	SWL		UN	19-FEB-67	24.5		Drilled to investigate subsurface conditions	EXP
SL-36	BH	I	400478.85	2016435.5	650	UNK	SWL		UN	19-FEB-67	44		Drilled to investigate subsurface conditions	EXP
SL-37	BH	I	400195.56	2016432.1	650	UNK	SWL		UN	20-FEB-67	33		Drilled to investigate subsurface conditions	EXP
SL-38	BH	I	401620.9	2017098.3	646	UNK	SWL		UN	20-FEB-67	66		Drilled to investigate subsurface conditions	EXP
SL-39	BH	I	401822.53	2017093.4	646	UNK	SWL		UN	21-FEB-67	25		Drilled to investigate subsurface conditions	EXP
SL-40	BH	I	402019.54	2017094.4	646	UNK	SWL		UN	21-FEB-67	66		Drilled to investigate subsurface conditions	EXP

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LOCID	LTC	LPR	NCOORD	ECOORD	ELEV	ESCC	DRLCO	EXC	CMC	ESTDATE	DEPT	BHDI	LOCDESC	source
SL-41	BH	I	402612.48	2016701.7	652	UNK	SWL		UN	16-APR-67	67		Drilled to investigate subsurface conditions	EXP
SL-42	BH	I	402675.1	2016706.9	652	UNK	SWL		UN	16-APR-67	64		Drilled to investigate subsurface conditions	EXP
SL-43	BH	I	402736.86	2016711.2	652	UNK	SWL		UN	16-APR-67	67		Drilled to investigate subsurface conditions	EXP
SL-44	BH	I	402523.1	2016636.3	652	UNK	SWL		UN	16-APR-67	65		Drilled to investigate subsurface conditions	EXP
SL-45	BH	I	402584.87	2016640.7	652	UNK	SWL		UN	16-APR-67	56		Drilled to investigate subsurface conditions	EXP
SL-46	BH	I	402641.52	2016641.2	652	UNK	SWL		UN	16-APR-67	41		Drilled to investigate subsurface conditions	EXP
ST5			402848.92	2014401.4										EXP
SW-04			402165	2014170	612									EXP
UZB-3	BH	I	0	0	0	ESCI			HS	11/29/93	35.5	8		PAR
UZB-6	BH	I	0	0	0	ESCI			HS	11/29/93	22.5	8		PAR
UZB-7	BH	I	0	0	0	ESCI			HS	12/1/94	34	8		PAR
VW-1	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
VW-2	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
VW-3	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
VW-4	WL	I	0	0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	CHROME PIT NO. 1	IRP
W-162	WL	I	401531.42	2014757.8	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	AT MILLION GALLON TANK	IRP
W-163	WL	I	401690.05	2014908.0	0	JEG	JEG	NA	UN	22-MAR-9	333.	3.33	AT MILLION GALLON TANK	IRP
W-164	WL	I	401681.61	2014820.3	0	JEG	JEG		NA	22-MAR-9	333.	3.33	AT MILLION GALLON TANK	JCB
WS-5	WL	O	0	0	0	JEG	JEG	NA	UN	09-SEP-99	333.	3.33	MUNICIPAL WATER SUPPLY WELL	IRP
WS-5A	WL	O	0	0	0	JEG	JEG	NA	UN	20-MAY-9	333.	3.33	WHITESETTLEMENT MUNICIPAL SUPPLY	IRP
WS-6	WL	I	400744.3	2008775.7		JEG	JEG	NA	HS	01-JAN-10			WHITESETTLEMENT MUNICIPAL SUPPLY	IRP
WS-8	WL	O	0	0	0	JEG	JEG	NA	UN	20-MAY-9	333.	3.33	WHITESETTLEMENT MUNICIPAL SUPPLY	IRP
WS-H3	WL	O	0	0	0	AERO	UNK	NA	UN	01-JAN-10	333.	3.33	LOCATION	IRP

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LOCID	LOGCO	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
AC-10		01-JUN-42	0	36.3				OVERBURDEN.	EXP
AC-11		01-JUN-42	0	14.7				OVERBURDEN.	EXP
AC-12		01-JUN-42	0	37.2				OVERBURDEN.	EXP
AC-13		01-JUN-42	0	32				OVERBURDEN.	EXP
AC-14		01-JUN-42	0	37.4				OVERBURDEN.	EXP
AC-15		01-JUN-42	0	40.5				OVERBURDEN.	EXP
AC-16		01-JUN-42	0	18				OVERBURDEN.	EXP
AC-17		01-JUN-42	0	19.2				OVERBURDEN.	EXP
AC-2		01-JUN-42	0	30				No sample.	EXP
AC-7		01-JUN-42	0	34				OVERBURDEN.	EXP
AC-9		01-JUN-42	0	8				OVERBURDEN.	EXP
HM-91	HARG	02-OCT-87	0	1	CN			Concrete.	EXP
HM-93	HARG	05-OCT-87	0	2	ASPT			Asphalt and fill.	EXP
RSB-34	HARG	01-DEC-88	23	26.5				No data recorded on log sheet. Data omitted.	EXP
RSB-41	HARG	01-DEC-88	2	4				No Recovery.	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
AC-1		01-JUN-42	28	31.8			1	No sample. Core loss, probably same as belo	EXP
AC-10		01-JUN-42	0	36.3				OVERBURDEN.	EXP
AC-11		01-JUN-42	0	14.7				OVERBURDEN.	EXP
AC-12		01-JUN-42	0	37.2				OVERBURDEN.	EXP
AC-13		01-JUN-42	0	32				OVERBURDEN.	EXP
AC-14		01-JUN-42	0	37.4				OVERBURDEN.	EXP
AC-15		01-JUN-42	0	40.5				OVERBURDEN.	EXP
AC-16		01-JUN-42	0	18				OVERBURDEN.	EXP
AC-17		01-JUN-42	0	19.2				OVERBURDEN.	EXP
AC-2		01-JUN-42	0	30				No sample.	EXP
AC-3		01-JUN-42	0	25				No sample.	EXP
AC-7		01-JUN-42	0	34				OVERBURDEN.	EXP
AC-9		01-JUN-42	0	8				OVERBURDEN.	EXP
HM-38	SWL	11-APR-84	2	4			1	FILL. Limestone cobbles and boulders.	EXP
RSB-34	HARG	01-DEC-88	23	26.5				No data recorded on log sheet. Data omitted.	EXP
RSB-41	HARG	01-DEC-88	2	4				No Recovery.	EXP
SB-3(86)	RAD	26-JAN-86	19	19.1			2	No returns.	EXP
SB-7(86)	RAD	21-JUL-86	3	4			3	Walnut Formation.	EXP
SB-8(86)	RAD	21-JUL-86	5.5	5.75			3	Walnut Formation.	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
8A-105	USCE	21-FEB-86	0	0.6	ASPT		0	Asphalt, good condition.	EXP
8A-105	USCE	21-FEB-86	56.9	57	LS		3	Limestone, auger refusal on top of limestone.	EXP
8A-106	USCE	04-MAR-86	0	0.7	ASPT		0	Asphalt, good condition.	EXP
8A-106	USCE	04-MAR-86	60.9	61	LS		3	Limestone, auger refusal at top of limestone.	EXP
8A-107	USCE	05-MAR-86	0	0.6	ASPT		0	Asphalt, good condition.	EXP
8A-107	USCE	05-MAR-86	60.9	61	LS		3	Limestone, auger refusal at top of limestone.	EXP
8A-108	USCE	06-MAR-86	0	0.6	ASPT		0	Asphalt, good condition.	EXP
8A-108	USCE	06-MAR-86	47.9	48	LS		3	Limestone, auger refusal at top of limestone.	EXP
8A-88	USCE	01-FEB-86	0	0.3	ASPT		0	Asphalt.	EXP
8A-88	USCE	01-FEB-86	19.4	19.5	LS		3	Limestone, auger refusal on limestone at 19.5	EXP
8A-89	USCE	02-FEB-86	0	0.2	ASPT		0	Asphalt.	EXP
8A-89	USCE	02-FEB-86	45.9	46	LS		3	Limestone, auger refusal on limestone at 46.0	EXP
8A-90	USCE	03-FEB-86	0	0.3	ASPT		0	Asphalt.	EXP
8A-90	USCE	03-FEB-86	38.9	39	LS		3	Limestone, auger refusal on limestone at 39.0	EXP
8A-91	USCE	04-FEB-86	0	0.3	ASPT		0	Asphalt	EXP
8A-91	USCE	04-FEB-86	31.4	31.5	LS		3	Limestone, auger refusal on limestone.	EXP
8A-92	USCE	04-FEB-86	0	0.3	ASPT		0	Asphalt.	EXP
8A-92	USCE	04-FEB-86	22.5	23.5	LS		3	Limestone, light gray, fine grained, soft.	EXP
8A-93	USCE	05-FEB-86	0	0.3	ASPT		0	Asphalt.	EXP
8A-93	USCE	05-FEB-86	38.9	39	LS		3	Limestone, auger refusal on limestone.	EXP
8A-94	USCE	06-FEB-86	0	0.5	ASPT		0	Asphalt.	EXP
8A-94	USCE	06-FEB-86	19.9	20	LS		3	Limestone, auger refusal on limestone.	EXP
8A-95	USCE	06-FEB-86	0	0.5	ASPT		0	Asphalt.	EXP
8A-95	USCE	06-FEB-86	43.9	44	LS		3	Limestone, auger refusal on limestone.	EXP
8A-96	USCE	06-FEB-86	0	0.3	ASPT		0	Asphalt.	EXP
8A-96	USCE	06-FEB-86	35.9	36	LS		3	Limestone, auger refusal on limestone.	EXP
8A-97	USCE	07-FEB-86	0	0.3	ASPT		0	Asphalt	EXP
8A-97	USCE	07-FEB-86	34	35	LS		3	Limestone. light gray, fine to coarse grained,	EXP
8A-98	USCE	07-FEB-86	0	0.3	ASPT		0	Asphalt.	EXP
8A-98	USCE	07-FEB-86	1.5	3.5	LS		3	Limestone, light gray, fine to coarse grained,	EXP
8A-98	USCE	07-FEB-86	3.5	4.5	LSSH		3	Clay-Shale, tan to greenish-gray, calcareous,	EXP
8A-99	USCE	07-FEB-86	0	0.4	ASPT		0	Asphalt.	EXP
8A-99	USCE	07-FEB-86	2.5	4	LS		3	Limestone, light gray, fine to coarse grained,	EXP
8A3F-109	USCE	06-MAR-86	0	0.5	ASPT		0	Asphalt, good condition.	EXP
8A3F-109	USCE	06-MAR-86	47.5	49.5	LS		3	Limestone, brown to gray, fine to coarse grai	EXP
8A3F-110	USCE	13-MAR-86	0	0.4	ASPT		0	Asphalt, good condition.	EXP
8A3F-110	USCE	13-MAR-86	46	57	LS		3	Limestone, tan to gray, fine to coarse grained	EXP
8A3F-110	USCE	13-MAR-86	57	58.5	SHLE		3	Shale, gray to dark gray, silty, soft in section,	EXP
8A3F-110	USCE	13-MAR-86	58.5	61.2	SSCA		4	Sandstone, very fine grained, silty, calcareous	EXP
8A3F-110	USCE	13-MAR-86	61.2	73	SSCA		4	Shale, dark gray, arenaceous, with abundant	EXP
8A3F-110	USCE	13-MAR-86	73	85.5	SSCA		4	Sandstone, fine to coarse grained, silty, calca	EXP
8A3F-110	USCE	13-MAR-86	85.5	106	SHLE		4	Shale, dark gray, inferred sandstone stringers	EXP
8A3F-110	USCE	13-MAR-86	106	112	SSCA		4	Sandstone, fine grained, silty, calcareous, inf	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
8A3F-110	USCE	13-MAR-86	112	166	SSCA		4	Sandstone, fine to coarse grained, silty, calca	EXP
8A3F-110	USCE	13-MAR-86	166	167.5	SHLE		4	Shale, dark gray, soft.	EXP
8A3F-110	USCE	13-MAR-86	167.5	230	SSCA		4	Sandstone, fine to coarse grained, silty, calca	EXP
8A3F-110	USCE	13-MAR-86	230	236	SHLE		4	Shale, dark gray, arenaceous, with sand seam	EXP
8A3F-110	USCE	13-MAR-86	236	238	LS		4	Limestone, light gray, fine grained, hard, (All	EXP
8A4C-100	USCE	08-FEB-86	0	0.4	ASPT		0	Asphalt	EXP
8A4C-100	USCE	08-FEB-86	48	52	LS		3	Limestone, gray, fine to coarse grained, argill	EXP
8A4C-101	USCE	11-FEB-86	0	0.5	ASPT		0	Asphalt.	EXP
8A4C-101	USCE	11-FEB-86	47.5	51.5	LS		3	Limestone, brown, fine to coarse grained, argi	EXP
8A4C-102	USCE	12-FEB-86	0	0.2	ASPT		0	Asphalt, in good condition.	EXP
8A4C-102	USCE	12-FEB-86	60.5	61.4	LS		3	Limestone, brown, fine to coarse grained, str	EXP
8A4C-102	USCE	12-FEB-86	61.4	61.8	LS		3	Limestone, tan, fine to coarse grained, arenac	EXP
8A4C-102	USCE	12-FEB-86	61.8	62.4	LS		3	Limestone, gray, fine grained, slightly argillac	EXP
8A4C-102	USCE	12-FEB-86	62.4	63.1	SHLE		4	Shale, dark brown, laminated, arenaceous, so	EXP
8A4C-102	USCE	12-FEB-86	63.1	66.5	SSCA		4	Sandstone, fine grained, weakly cemented, sil	EXP
8A4C-102	USCE	12-FEB-86	66.5	77.6	SHLE		4	Shale, dark brown, very thinly bedded, arenac	EXP
8A4C-102	USCE	12-FEB-86	77.6	80	SSCA		4	Sandstone, fine grained with coarse grained s	EXP
8A4C-103	USCE	19-FEB-86	0	0.5	ASPT		0	Asphalt, in good condition.	EXP
8A4C-103	USCE	19-FEB-86	57	60.5	SHLE		3	Shale-Clay, tan to greenish-gray, calcareous,	EXP
8A4C-103	USCE	19-FEB-86	60.5	61.6	LS		3	Limestone, tan to gray, fine to coarse grained	EXP
8A4C-103	USCE	19-FEB-86	61.6	62.4	SHLE		4	Shale, dark brown, laminated, arenaceous, so	EXP
8A4C-103	USCE	19-FEB-86	62.4	65	SS		4	Sandstone, fine grained, weakly cemented thr	EXP
8A4C-104	USCE	20-FEB-86	0	0.5	ASPT		0	Asphalt, in good condition.	EXP
8A4C-104	USCE	20-FEB-86	35.7	40.7	LS		3	Limestone, light gray, fine to coarse grained,	EXP
8A4C-83	USCE	09-JUL-86	0	0.6	ASPT		0	Asphalt	EXP
8A4C-83	USCE	09-JUL-86	0.6	1.1	FILL		1	Base material	EXP
8A4C-83	USCE	09-JUL-86	32	38.1	LS		3	Limestone, Walnut Formation, moderately har	EXP
8A4C-83	USCE	09-JUL-86	38.1	38.4	LS		3	Limestone, moderately hard, gray, fossiliferou	EXP
8A4C-83	USCE	09-JUL-86	38.4	38.6	CLAY		3	Clay seam in Walnut, soft, tan-gray, sandy, f	EXP
8A4C-83	USCE	09-JUL-86	38.6	39	LS		3	Limestone, moderately hard, gray, fossiliferou	EXP
8A4C-84	USCE	12-JUL-85	0	0.6	ASPT		0	Asphalt	EXP
8A4C-84	USCE	12-JUL-85	61.5	62	LS		3	Limestone, Walnut Formation, determined fro	EXP
8A4C-85	USCE	16-JUL-85	0	0.4	ASPT		0	Asphalt	EXP
8A4C-85	USCE	16-JUL-85	59	60.5	LS		3	Limestone, Walnut Formation, moderately har	EXP
8A4C-85	USCE	16-JUL-85	60.5	62.4	LS		3	Limestone, moderately hard, gray, weathered,	EXP
8A4C-85	USCE	16-JUL-85	62.4	63.8	LS		3	Limestone, soft, gray, weathered, very argilla	EXP
8A4C-85	USCE	16-JUL-85	63.8	64.9	LS		3	Limestone, moderately hard, gray, weathered,	EXP
8A4C-85	USCE	16-JUL-85	64.9	65.5	SLCA		3	Siltstone, soft, blue-green, contains small poc	EXP
8A4C-86	USCE	21-JUL-85	0	0.4	ASPT		0	Asphalt	EXP
8A4C-86	USCE	21-JUL-85	59	62.2	LS		3	Limestone, argillaceous, weather stained until	EXP
8A4C-87	USCE	01-FEB-86	0	0.4	ASPT		0	Asphalt	EXP
8A4C-87	USCE	01-FEB-86	37.5	41.5	LS		3	Limestone, tan to brown along basal section,	EXP
AC-1		01-JUN-42	28	31.8			1	No sample. Core loss, probably same as belo	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
AC-1		01-JUN-42	42.2	59.5	LS		3	Limestone, hard, fossiliferous, with occasiona	EXP
AC-10		01-JUN-42	0	36.3				OVERBURDEN.	EXP
AC-10		01-JUN-42	36.3	38.2	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-11		01-JUN-42	0	14.7				OVERBURDEN.	EXP
AC-11		01-JUN-42	29.4	31.4	LS		3	Limestone, soft, impure.	EXP
AC-11		01-JUN-42	31.4	32.5	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-12		01-JUN-42	0	37.2				OVERBURDEN.	EXP
AC-12		01-JUN-42	37.2	40.8	LS		3	Limestone, soft, highly fossiliferous (coquina).	EXP
AC-12		01-JUN-42	40.8	41.6	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-13		01-JUN-42	0	32				OVERBURDEN.	EXP
AC-13		01-JUN-42	32	34.2	LS		3	Limestone, soft.	EXP
AC-13		01-JUN-42	34.2	35.4	LS		3	Limestone, hard, fossiliferous.	EXP
AC-14		01-JUN-42	0	37.4				OVERBURDEN.	EXP
AC-14		01-JUN-42	37.4	40.7	LS		3	Limestone, soft.	EXP
AC-14		01-JUN-42	40.7	43.7	LS		3	Limestone, hard, fossiliferous.	EXP
AC-15		01-JUN-42	0	40.5				OVERBURDEN.	EXP
AC-15		01-JUN-42	40.5	42.3	LSCL		3	Limestone/Clay, grey limestone, marly clay.	EXP
AC-15		01-JUN-42	42.3	46.5	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-16		01-JUN-42	0	18				OVERBURDEN.	EXP
AC-16		01-JUN-42	33.1	38.3	LS		3	Limestone, grey, soft, fossiliferous, weathere	EXP
AC-16		01-JUN-42	38.3	42.2	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-17		01-JUN-42	0	19.2				OVERBURDEN.	EXP
AC-17		01-JUN-42	34.3	38.9	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-2		01-JUN-42	0	30				No sample.	EXP
AC-2		01-JUN-42	30	33	LS		3	Limestone, hard, fossiliferous.	EXP
AC-3		01-JUN-42	0	25				No sample.	EXP
AC-3		01-JUN-42	25	30	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-3		01-JUN-42	36.8	38.3	LS		3	Limestone, soft.	EXP
AC-3		01-JUN-42	38.3	40.6	LS		3	Limestone, hard, fossiliferous.	EXP
AC-4		01-JUN-42	36.8	38.3	LS		3	Limestone, soft.	EXP
AC-4		01-JUN-42	38.3	40.6	LS		3	Limestone, hard fossiliferous	EXP
AC-5		01-JUN-42	33.8	36.2	LS		3	Limestone, grey, moderately hard, shale parti	EXP
AC-5		01-JUN-42	36.2	59.6	LS		3	Limestone, grey, hard, fossiliferous, occasion	EXP
AC-6		01-JUN-42	31.1	32.8	LS		3	Limestone, grey, soft.	EXP
AC-6		01-JUN-42	32.8	37.8	LS		3	Limestone, grey, hard, fossiliferous, with thin	EXP
AC-7		01-JUN-42	0	34				OVERBURDEN.	EXP
AC-7		01-JUN-42	34	36	LS		3	Limestone, grey, soft.	EXP
AC-7		01-JUN-42	36	38	LS		3	Limestone, grey, hard, fossiliferous.	EXP
AC-8		01-JUN-42	33.8	60	LS		3	Limestone, grey, hard, fossiliferous, with occ	EXP
AC-9		01-JUN-42	0	8				OVERBURDEN.	EXP
AC-9		01-JUN-42	24.1	26	LS		3	Limestone, grey, soft, with clay bands.	EXP
AC-9		01-JUN-42	26	27	LS		3	Limestone, grey, hard, fossiliferous.	EXP
EPA-1	ATEC	01-JUN-83	13.5	17.5	SHLE		2	Shale/Clay, interbedded, medium grey, firm, c	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
EPA-1	ATEC	01-JUN-83	17.5	25	SHLE		2	Shale, medium to dark grey, slightly moist, sli	EXP
EPA-1	ATEC	01-JUN-83	25	28.5	LS		2	Shaley Limestone, dark grey, very dense, foss	EXP
EPA-1	ATEC	01-JUN-83	28.5	30	LS		3	Shell Agglomerate, dark grey, dense, very fos	EXP
EPA-2	ATEC	02-JUN-83	23	26	SHLE		2	Shale, dark grey, slightly moist, firm to stiff, f	EXP
EPA-3	ATEC	31-MAY-83	22	25.2	LS		2	Limestone, light grey, dry, dense, brittle, clay	EXP
EPA-3	ATEC	31-MAY-83	25.2	29.5	LS		2	Limestone/shale/clay, greenish buff to grey li	EXP
EPA-3	ATEC	31-MAY-83	29.5	30.5	SHLE		2	Shale, dark grey, slightly soft.	EXP
EPA-3	ATEC	31-MAY-83	30.5	35	CLAY		2	Clay, greyish green, massive.	EXP
EPA-3	ATEC	31-MAY-83	35	38	LSSH		3	Shale/Clay/Limestone, interbedded, medium t	EXP
EPA-3	ATEC	31-MAY-83	38	40	LS		3	Shell Agglomerate, medium to dark grey, den	EXP
EPA-4	ATEC	03-JUN-83	0.5	5	LS		2	Limestone, light grey to buff, dry to slightly m	EXP
EPA-4	ATEC	03-JUN-83	5	9	LSSH		2	Limestone/Clay/Shale, interbedded, light grey	EXP
EPA-4	ATEC	03-JUN-83	9	15.5	LSSH		2	Shaley Limestone, medium to dark grey, sligh	EXP
EPA-4	ATEC	03-JUN-83	15.5	18.5	LSSH		2	Limestone/Shale/Clay, interbedded, medium t	EXP
EPA-4	ATEC	03-JUN-83	18.5	26	LS		2	Limestone, medium to dark grey, dry to slight	EXP
EPA-4	ATEC	03-JUN-83	26	28	SHLE		2	Clayey Shale, medium to dark grey, slightly m	EXP
EPA-4	ATEC	03-JUN-83	28	46	LSCL		2	Limestone/Shale/Clay, interbedded, medium t	EXP
EPA-4	ATEC	03-JUN-83	46	48	SHLE		3	Clayey Shale, dark grey, slightly moist, dense	EXP
EPA-4	ATEC	03-JUN-83	48	49.5	LS		3	Shell Agglomerate, medium to dark grey, den	EXP
F-205	REI	05-MAR-86	31	31.5	CLAY		3	Clay with ferrous staining on lamination plane	EXP
F-206	REI	05-MAR-86	0	0.5	CN		0	Concrete slab.	EXP
F-206	REI	05-MAR-86	30.25	30.5	SHLE		2	Shale at 30.25, grey, consolidated, very fine	EXP
F-207	REI	06-MAR-86	0	0.5	CN		0	Concrete/Aggregate base.	EXP
F-207	REI	06-MAR-86	34	35	LS		3	Limestone, light grey mottled with iron oxide	EXP
F-208	REI	06-MAR-86	0	0.5	CN		0	Concrete slab.	EXP
F-208	REI	06-MAR-86	21	21.33	LS		3	Limestone, fossiliferous, pinkish white, consol	EXP
F-209	REI	07-MAR-86	0	1.75	CN		1	Concrete slab.	EXP
F-209	REI	07-MAR-86	17.75	18	LS		3	Limestone, fossiliferous, pinkish white, consol	EXP
F-210	REI	07-MAR-86	0	0.25	CN		0	Concrete slab.	EXP
F-210	REI	07-MAR-86	16.5	17	LS		3	Limestone, fossiliferous, pinkish white, consol	EXP
F-211	REI	07-MAR-86	0	0.5	CN		0	Concrete slab.	EXP
F-211	REI	07-MAR-86	35.5	36	LS		3	Limestone, light grey, consolidated, very fine	EXP
F-212	REI	04-SEP-86	0	0.5	CN		0	Concrete.	EXP
F-212	REI	04-SEP-86	6.5	23	SHLE		2	Shale, brown with grey partings, occasional li	EXP
F-212	REI	04-SEP-86	23	25.25	SHLE		3	Shale, black, fissile, slightly moist.	EXP
F-212	REI	04-SEP-86	25.25	25.5	LS		3	Limestone, very dark grey, dense, slightly moi	EXP
F-213	REI	09-SEP-86	0	0.5	CN		0	Concrete.	EXP
F-213	REI	09-SEP-86	10.25	12	LS		3	Limestone, grey.	EXP
F-214	REI	04-SEP-86	18.25	20.5	LS		3	Shaley Limestone, grey, occasional shell frag	EXP
F-215	REI	22-SEP-86	0	0.5	CN		0	Concrete.	EXP
F-215	REI	22-SEP-86	0.5	2	FILL		1	FILL, black, slightly moist.	EXP
F-215	REI	22-SEP-86	33	34	LS		3	Coquina Limestone, grey, moist.	EXP
F-216	REI	08-SEP-86	0	0.5	CN		0	Concrete.	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
F-216	REI	08-SEP-86	25.5	26	LS		3	Shaley limestone, very dark grey, dense.	EXP
F-217	REI	08-SEP-86	0	0.5	CN		0	Concrete.	EXP
F-217	REI	08-SEP-86	17	19	LS		3	Coquina Limestone, pale to light brown, dry.	EXP
F-218	REI	11-SEP-86	28	34.5	LS		2	Limestone, yellowish/brown mottled pale bro	EXP
F-218	REI	11-SEP-86	34.5	36	SHLE		3	Shale, very dark grey, occasional gravel and s	EXP
F-219	REI	11-SEP-86	7	18.5	SHLE		2	Shale, brown, noncohesive, occasional very	EXP
F-219	REI	11-SEP-86	18.5	25	CLAY		2	Shaley clay, light brown and grey, slickenside	EXP
F-219	REI	11-SEP-86	25	34.75	CLAY		2	Shaley clay, with shale interbeds, medium gre	EXP
F-219	REI	11-SEP-86	34.75	35	SHLE		3	Shale, very dark grey, dense.	EXP
F-220	REI	05-SEP-86	31	33.5	LS		3	Limestone, grey, well-cemented.	EXP
F-221	REI	10-SEP-86	0	1	CN		0	Concrete.	EXP
F-221	REI	10-SEP-86	17.5	20	LS		2	Limestone, light grey, noncohesive, occasiona	EXP
F-221	REI	10-SEP-86	20	21.75	LS		2	Coquina and fossiliferous clay, light grey, non	EXP
F-221	REI	10-SEP-86	21.75	22	SHLE		3	Shale, very dark grey, dense.	EXP
F-222	REI	23-SEP-86	0	10	FILL		1	FILL, slightly silty, reddish brown, moist.	EXP
F-222	REI	23-SEP-86	14.5	15	LS		3	Coquina, grey, weathered.	EXP
F-223	REI	23-SEP-86	0	1.5	CN		0	Concrete.	EXP
F-223	REI	23-SEP-86	1.5	9	FILL		1	Fill, dark brown, moist; 6 ft: very slight jet fu	EXP
F-223	REI	23-SEP-86	22	22.3	LS		3	Limestone, grey, fossiliferous.	EXP
FB-1	SWL	04-SEP-86	2	2.2	LS		3	Coquina.	EXP
FB-2	SWL	04-SEP-86	2	2.2	LS		3	Coquina.	EXP
FSA3-1	HARG	06-JUN-88	15	16	LS		3	Limestone, varicolored grey, N8 to N9, weath	EXP
FSA3-1	HARG	06-JUN-88	16	19.5	LS		3	Fossiliferous Limestone, varicolored grey, N6	EXP
FSA3-10	HARG	07-JUN-88	0	12	FILL		1	FILL. Moderate brown, 5 YR 4/4, clayey silts,	EXP
FSA3-10	HARG	07-JUN-88	16	20	LS		3	Fossiliferous limestone, varicolored grey, N6 t	EXP
FSA3-11	HARG	08-JUN-88	0	8	FILL		1	FILL. Moderate brown, 5 YR 3/4, silty clays, t	EXP
FSA3-11	HARG	08-JUN-88	21	22.5	LS		3	Fossiliferous Limestone, varicolored, grey, N6	EXP
FSA3-12	HARG	08-JUN-88	0	8	FILL		1	FILL. Moderate brown, 5 YR 3/4, clayey silts,	EXP
FSA3-12	HARG	08-JUN-88	17	19.5	LS		3	Fossiliferous Limestone, varicolored grey, N5	EXP
FSA3-2	HARG	06-JUN-88	0	5	FILL		1	FILL, moderate brown, 5 YR 3/4, silts, clays,	EXP
FSA3-2	HARG	06-JUN-88	18.5	20	LS		3	Fossiliferous Limestone, varicolored grey, N5	EXP
FSA3-3	HARG	06-JUN-88	0	5	FILL		1	FILL, moderate brown, 5 YR 3/4, sand, silts,	EXP
FSA3-3	HARG	06-JUN-88	12	15	LS		3	Limestone, very light grey, N8, weathered, fri	EXP
FSA3-3	HARG	06-JUN-88	15	20	LS		3	Fossiliferous Limestone, varicolored grey, N6	EXP
FSA3-4	HARG	07-JUN-88	0	2	FILL		1	FILL. Moderate brown, 5 YR 3/4, sand, silts,	EXP
FSA3-4	HARG	07-JUN-88	7.5	14	LS		3	Limestone, varicolored grey, N7 to N8, weath	EXP
FSA3-4	HARG	07-JUN-88	14	15	LS		3	Fossiliferous Limestone, varicolored grey, N4	EXP
FSA3-5	HARG	07-JUN-88	0	2	FILL		1	FILL. Light brown, 5 YR 5/6, sand, silt, some	EXP
FSA3-5	HARG	07-JUN-88	7	8	LS		3	Fossiliferous Limestone, varicolored grey, N8	EXP
FSA3-6	HARG	07-JUN-88	8.5	12	LS		3	Fossiliferous limestone w/ sand, varicolored g	EXP
FSA3-7	HARG	07-JUN-88	0	6	FILL		1	FILL. Moderately brown, 5 YR 3/4, noncohesi	EXP
FSA3-7	HARG	07-JUN-88	11	15	LS		3	Fossiliferous Limestone with sand, varicolored	EXP
FSA3-8	HARG	07-JUN-88	0	5	FILL		1	Fill, moderate brown, 5 YR 3/4, sands, silts, c	EXP

LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
FSA3-8	HARG	07-JUN-88	9	15	LS		3	Fossiliferous Limestone, varicolored grey, N5	EXP
FSA3-9	HARG	07-JUN-88	0	6	FILL		1	FILL. Moderate brown, 5 YR 3/4, oxidized, gr	EXP
FSA3-9	HARG	07-JUN-88	6	13	LS		3	Limestone, light olive grey, 5 Y 6/1, oxidized,	EXP
FSA3-9	HARG	07-JUN-88	13	14	LS		3	Fossiliferous Limestone, varicolored grey, N6	EXP
HM-1	SWL	01-DEC-82	29	34	LS		3	Clayey limestone, grey, moist, weathered, zo	EXP
HM-10	SWL	06-DEC-82	21	22	LS		3	Shaley limestone, greyish blue-green, saturate	EXP
HM-101	RAD	21-JAN-86	31	34	LS		3	Limestone, fossiliferous, medium to dark grey	EXP
HM-102	RAD	21-JAN-86	9	9.3	SD		1	Sand, sand is calcareous, dark orange brown,	EXP
HM-102	RAD	21-JAN-86	9.3	12	LS		2	Limestone, buff, hard, competent with some	EXP
HM-102	RAD	21-JAN-86	12	40	SHLE		2	Shale, mottled orange&tan layer & dk grey la	EXP
HM-102	RAD	21-JAN-86	40	44	LS		3	Limestone, very fossiliferous, medium to dark	EXP
HM-103	RAD	21-JAN-86	35	39	SHLE		2	Shale, bluish grey, calcareous at 36', fissile,	EXP
HM-105	RAD	11-AUG-86	0	0.75	CN		0	Concrete.	EXP
HM-105	RAD	11-AUG-86	19	21	CLAY		3	Clay, same as above, but moist and gravel.	EXP
HM-106	RAD	26-JAN-86	0	1	CN		0	Concrete.	EXP
HM-106	RAD	26-JAN-86	1	2	FILL		1	FILL, sand with silt and minor gravel, tannish	EXP
HM-106	RAD	26-JAN-86	14	18	SHLE		2	Clay and shale, calcareous, mottled tan and g	EXP
HM-106	RAD	26-JAN-86	18	18.5	LS		2	Limestone, .5' thick.	EXP
HM-106	RAD	26-JAN-86	18.5	32	SHLE		2	Sandy shale, calcareous, mottled tan and gre	EXP
HM-106	RAD	26-JAN-86	32	34	LS		3	Limestone, sandy, grey, fossiliferous.	EXP
HM-107	RAD	11-AUG-86	0	3	FILL		1	FILL, sand, brownish orange, fine-grained, mi	EXP
HM-107	RAD	11-AUG-86	6	15.5	CLAY		3	Clay, sandy, minor calcareous gravel, dark br	EXP
HM-107	RAD	11-AUG-86	15.5	23	GVST		3	Silt and gravel, lenses of both from 15.5-23',	EXP
HM-108	RAD	11-AUG-86	14.2	15	SHLE		3	Calcareous shale, lenses of weathered and un	EXP
HM-11	SWL	28-MAR-83	4	5	SHLE		2	Clayey shale, light buff to brown, moist, firm,	EXP
HM-11	SWL	28-MAR-83	5	12	LS		2	Limestone, light buff to white, slightly moist,	EXP
HM-11	SWL	28-MAR-83	12	18	CLAY		2	Clay, buff-brown-green, moist, very firm, coh	EXP
HM-11	SWL	28-MAR-83	18	22	CLAY		2	Shaley clay, buff-green with orange hue, sligh	EXP
HM-11	SWL	28-MAR-83	22	28	SHLE		2	Shale, dark grey, moist, stiff, brittle, fissile, n	EXP
HM-11	SWL	28-MAR-83	28	33	SHLE		2	Clayey shale, dark grey, moist (?), slightly stif	EXP
HM-11	SWL	28-MAR-83	33	35.5	LS		3	Shell Agglomerate, light to dark grey, moist (?	EXP
HM-111	HARG	25-MAR-88	49	53	LS		3	Fossiliferous Limestone, medium bluish grey t	EXP
HM-114	HARG	31-JAN-89	0	0.5	FILL		1	Grass and topsoil.	EXP
HM-115	HARG	31-JAN-89	0	0.5	FILL		1	Grass and topsoil.	EXP
HM-115	HARG	31-JAN-89	27	27.01	LS		3	Limestone, light grey, 5 YR 7/1, to white, 5 Y	EXP
HM-116	HARG	31-JAN-89	0	0.5	FILL		1	Grass and topsoil.	EXP
HM-116	HARG	31-JAN-89	32	33	LS		3	Limestone, light grey, N7, top 1 inch is weath	EXP
HM-117	HARG	01-FEB-89	0	0.5	ASPT		0	Asphalt and fill.	EXP
HM-117	HARG	01-FEB-89	39.5	39.51	LS		3	Fossiliferous limestone, grey, N5 to N7, fossil	EXP
HM-12	SWL	29-MAR-83	5	9	LS		2	Silty clay/Limestone, interbedded; light brown	EXP
HM-12	SWL	29-MAR-83	9	18	CLAY		2	Clay, greenish-buff, moist, slightly firm to fir	EXP
HM-12	SWL	29-MAR-83	18	20	CLAY		2	Shaley clay/limestone, interbedded, greenish-	EXP
HM-12	SWL	29-MAR-83	20	24	CLAY		2	Shaley clay, greyish-buff, moist, firm, slightly	EXP

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HM-12	SWL	29-MAR-83	24	32	CLAY		2	Clay, greenish-buff, moist, firm to slightly stif	EXP
HM-12	SWL	29-MAR-83	32	33	SHLE		2	Shale, Medium to dark grey, very moist to sli	EXP
HM-12	SWL	29-MAR-83	33	40	LS		3	Shell Agglomerate, light to dark grey, moist (?	EXP
HM-122	HARG	15-FEB-89	0	0.5	FILL		1	Grass and topsoil.	EXP
HM-122	HARG	15-FEB-89	28.5	28.51	LS		3	Limestone, greenish grey, hard, no visible fos	EXP
HM-124	HARG	16-FEB-89	0	0.5	FILL		1	Grass and topsoil.	EXP
HM-124	HARG	16-FEB-89	23.5	25	LS		3	Limestone, light grey, hard, dry. At 24 to 25	EXP
HM-126	HARG	16-FEB-89	0	0.5	FILL		1	Grass and topsoil.	EXP
HM-126	HARG	16-FEB-89	37	37.01	LS		3	Limestone, light grey, N6 to N7, weathered,	EXP
HM-13	SWL	29-MAR-83	36	44	LS		3	Shell agglomerate, medium to dark grey, wet	EXP
HM-14	SWL	30-MAR-83	42.5	52	LS		3	Shell agglomerate, medium to dark grey, wet,	EXP
HM-14	SWL	30-MAR-83	52	58	SHLE		3	Shale, medium to dark grey, wet, stiff, brittle,	EXP
HM-15	SWL	30-MAR-83	32	34	SHLE		2	Shale, light buff, slightly moist, slightly firm,	EXP
HM-15	SWL	30-MAR-83	34	36	LS		2	Limestone, greyish-buff, slightly moist, dense	EXP
HM-15	SWL	30-MAR-83	36	44	SHLE		2	Shale/clay, interbedded, light buff, slightly mo	EXP
HM-15	SWL	30-MAR-83	44	50	LS		3	Shell agglomerate, medium to dark grey, mois	EXP
HM-16	SWL	31-MAR-83	31	34	LS		2	Shaley limestone, light buff, slightly moist, sli	EXP
HM-16	SWL	31-MAR-83	34	45	SHLE		2	Shale, light buff, slightly moist, very firm to s	EXP
HM-16	SWL	31-MAR-83	45	50	LS		3	Shell agglomerate, medium to dark grey, dens	EXP
HM-17	SWL	31-MAR-83	18	20	SHLE		2	Shale, light grey to buff with green hue, mois	EXP
HM-17	SWL	31-MAR-83	20	28	LS		2	Limestone/shale, interbedded, lt. grey to buff,	EXP
HM-17	SWL	31-MAR-83	28	36	SHLE		2	Shale, dark grey, slightly moist, very firm to s	EXP
HM-17	SWL	31-MAR-83	36	45	LS		3	Shell agglomerate, medium to dark grey, wet	EXP
HM-18	SWL	31-MAR-83	32	38	LS		3	Shell agglomerate, medium to dark grey, wet,	EXP
HM-19	SWL	01-APR-83	16	18	SHLE		2	Sandy shale/sandy clay, greyish-buff, slighlty	EXP
HM-19	SWL	01-APR-83	18	28	LS		3	Shell agglomerate, med. to dk. grey, slightly	EXP
HM-2	SWL	02-DEC-82	33	35	LS		3	Limestone, blue-grey, moist, dense abundant	EXP
HM-20	SWL	01-APR-83	34	40	LS		3	Shell agglomerate, medium to dark grey, wet,	EXP
HM-21	SWL	01-APR-83	4	15	LS		3	Shell agglomerate, light buff to brown, moist,	EXP
HM-22	SWL	23-MAY-83	1.5	8	SHLE		2	Shale/clay/limestone, interbedded, light buff t	EXP
HM-22	SWL	23-MAY-83	8	18.5	SHLE		2	Shale/clay, interbedded, light grey to brown,	EXP
HM-22	SWL	23-MAY-83	18.5	20	SHLE		2	Shale, dark grey, slightly moist, firm, brittle, f	EXP
HM-22	SWL	23-MAY-83	20	26	LS		2	Shaley limestone, medium grey, slightly moist	EXP
HM-22	SWL	23-MAY-83	26	28	SHLE		2	Shale, dark grey, slightly moist, slightly firm t	EXP
HM-22	SWL	23-MAY-83	28	34	SHLE		2	Shaley clay, dark grey, slightly moist, slightly	EXP
HM-22	SWL	23-MAY-83	34	48	SHLE		2	Shaley clay/Clayey shale, interbedded, dk gre	EXP
HM-22	SWL	23-MAY-83	48	55	LS		3	Shell agglomerate, medium to dark grey, dens	EXP
HM-23	SWL	23-MAY-83	43	50	LS		3	Shell agglomerate, light to dark grey, slightly	EXP
HM-25	SWL	24-MAY-83	24	32	CLAY		2	Shaley clay, greenish buff, very moist, firm to	EXP
HM-25	SWL	24-MAY-83	32	34	SHLE		2	Shale, medium to dark grey, slightly moist, sli	EXP
HM-25	SWL	24-MAY-83	34	43	LS		3	Shell agglomerate, medium to dark grey, sligh	EXP
HM-26	SWL	25-MAY-83	8	16	LS		3	Shell agglomerate, medium to dark grey, dens	EXP
HM-27	SWL	25-MAY-83	10	16	LS		3	Shell agglomerate, medium to dark grey, dens	EXP

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HM-28	SWL	25-MAY-83	28	34	SHLE		2	Clay/shale, interbedded, greyish green, moist,	EXP
HM-28	SWL	25-MAY-83	34	36	SHLE		2	Shale, medium to dark grey, slightly moist, de	EXP
HM-28	SWL	25-MAY-83	36	41.5	LS		3	Shell agglomerate, medium to dark grey, dens	EXP
HM-29	SWL	25-MAY-83	39	40	SHLE		3	Shale, dark grey, wet, dense, brittle, fissile, n	EXP
HM-29	SWL	25-MAY-83	40	44	LS		3	Shell agglomerate, medium to dark grey, dens	EXP
HM-32	SWL	13-APR-84	40	46	LS		3	Shell agglomerate, medium to dark grey, wet	EXP
HM-33	SWL	11-APR-84	20	22.5	SHLE		2	Clayey shale, grey to green, slightly moist, co	EXP
HM-33	SWL	11-APR-84	22.5	28	LS		3	Shell agglomerate, light to dark grey, weather	EXP
HM-34	SWL	11-APR-84	15	20	LS		3	Shell agglomerate, dark grey, moist to wet, v	EXP
HM-35	SWL	11-APR-84	14	16	LS		3	Limestone, yellow to white, moist, sandy, we	EXP
HM-35	SWL	11-APR-84	16	20	LS		3	Shell agglomerate, dark grey, fresh, very fossi	EXP
HM-37	SWL	11-APR-84	12	16	LS		3	Shell agglomerate, dark grey, very fossiliferou	EXP
HM-38	SWL	11-APR-84	2	4			1	FILL. Limestone cobbles and boulders.	EXP
HM-38	SWL	11-APR-84	20	25	LS		3	Shell agglomerate, medium grey, dense, slight	EXP
HM-39	SWL	11-APR-84	7	14	LS		3	Shell agglomerate, medium to dark grey, wea	EXP
HM-3A	SWL	02-DEC-82	9	13	CLAY		2	Shaley clay, grey-green, moist, stiff, uniform,	EXP
HM-3A	SWL	02-DEC-82	13	19	SHLE		2	Clayey shale, grey, moist, very dense, orange	EXP
HM-3A	SWL	02-DEC-82	19	25.5	LS		3	Shaley limestone, light grey, slightly moist, ve	EXP
HM-40	SWL	12-APR-84	49	53	LS		3	Shell agglomerate, dark grey, weathered, fria	EXP
HM-41	SWL	12-APR-84	41	46	LS		3	Shell agglomerate, dark grey, weathered, fria	EXP
HM-42	SWL	12-APR-84	44	46	SHLE		3	Sandy shale, dark grey to black, wet (?), sligh	EXP
HM-42	SWL	12-APR-84	46	48	LS		3	Shell agglomerate, medium to dark grey, dry (	EXP
HM-43	SWL	12-APR-84	3	17	LS		2	Limestone/Shale, interbedded, light grey and l	EXP
HM-43	SWL	12-APR-84	17	22	SHLE		2	Shale, medium to dark grey, orange-stained in	EXP
HM-44	SWL	13-APR-84	34	40	LS		2	Limestone, buff to yellow, soft, friable, sandy	EXP
HM-45	SWL	13-APR-84	28	31	SHLE		2	Clayey shale, greenish-buff, moist, stiff, sligh	EXP
HM-45	SWL	13-APR-84	31	36	SHLE		2	Clayey shale/Limestone, green shale with ora	EXP
HM-45	SWL	13-APR-84	36	38	SHLE		3	Clayey shale, dark grey, slightly moist (?), stif	EXP
HM-45	SWL	13-APR-84	38	40	LS		3	Limestone, dark grey, slightly moist (?), dense	EXP
HM-45	SWL	13-APR-84	40	43	LS		3	Shell agglomerate, medium to dark grey, dry (	EXP
HM-46	SWL	14-APR-84	39	44	LS		3	Shell agglomerate, dark grey, dense, very fos	EXP
HM-47	SWL	14-APR-84	28	30	CLAY		2	Clay, greenish-buff with orange stains in zone	EXP
HM-47	SWL	14-APR-84	30	32	SHLE		3	Clayey shale, dark grey, slightly moist (?), stif	EXP
HM-47	SWL	14-APR-84	32	34	LS		3	Limestone, dark grey, dense, very silty, brittle	EXP
HM-47	SWL	14-APR-84	34	36	LS		3	Shell agglomerate, medium to dark grey, dens	EXP
HM-49	SWL	15-APR-84	6	10.5	LS		3	Shell agglomerate, light to dark grey, dense,	EXP
HM-4A	SWL	03-DEC-82	10	12	CLAY		2	Shaley clay, green-grey, moist, very stiff, red	EXP
HM-4A	SWL	03-DEC-82	12	14	SHLE		2	Clayey shale, grey, moist, slight odor.	EXP
HM-4A	SWL	03-DEC-82	14	15	SHLE		2	Shale, grey, slightly moist, very stiff, interbed	EXP
HM-4A	SWL	03-DEC-82	15	20	LS		3	Limestone/shale, grey, slightly moist, interbed	EXP
HM-4A	SWL	03-DEC-82	20	25	LS		3	Shaley limestone, grey, moist, orange oxidize	EXP
HM-4A	SWL	03-DEC-82	25	26	LS		3	Shaley limestone/clayey shale, grey, moist, in	EXP
HM-5	SWL	02-DEC-82	25.5	31	SHLE		3	Shale/Clayey Shale, dark grey to blackish gre	EXP

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HM-5	SWL	02-DEC-82	31	33	LS		3	Limestone, dark grey, slightly moist, very den	EXP
HM-50	SWL	15-APR-84	7	14.5	LS		3	Shell agglomerate, light grey, slightly moist,	EXP
HM-51	SWL	15-APR-84	12	20	LS		3	Shell agglomerate, light grey and brown, very	EXP
HM-52	SWL	15-APR-84	18	26	LS		2	Sandy Limestone/Clayey Shale, interbedded,	EXP
HM-53	SWL	16-APR-84	31	32	CLAY		2	Clay, greenish-grey, wet, stiff, slightly cohesi	EXP
HM-53	SWL	16-APR-84	32	34	LS		3	Sandy limestone, dark grey, dense, fossilifero	EXP
HM-53	SWL	16-APR-84	34	37	LS		3	Shell agglomerate, dark grey, dense, fossilifer	EXP
HM-54	SWL	16-APR-84	12	14	SHLE		2	Clayey shale, greenish-grey, moist, weathere	EXP
HM-54	SWL	16-APR-84	14	22	SHLE		2	Clayey shale/Sandy Limestone, interbedded, li	EXP
HM-54	SWL	16-APR-84	22	26	SHLE		3	Clayey shale, dark grey, very stiff, some thin	EXP
HM-54	SWL	16-APR-84	26	27	LS		3	Shell agglomerate, medium to dark grey, dens	EXP
HM-55	SWL	16-APR-84	21	28	LS		2	Sandy limestone/Clayey shale, interbedded, li	EXP
HM-55	SWL	16-APR-84	28	30	LS		3	Sandy limestone, light grey, dense, fossilifero	EXP
HM-55	SWL	16-APR-84	30	33	LS		3	Shell agglomerate, buff to light grey, dense, f	EXP
HM-56	SWL	16-APR-84	28	35	SHLE		2	Clayey Shale, greenish buff with orange-brow	EXP
HM-56	SWL	16-APR-84	35	36	LS		3	Sandy Limestone, light grey, dense, fossilifero	EXP
HM-56	SWL	16-APR-84	36	40	LS		3	Shell agglomerate, medium grey, dense, fossil	EXP
HM-57	SWL	17-APR-84	4	10	SHLE		2	Clayey Shale, brown, some yellow limonite st	EXP
HM-57	SWL	17-APR-84	10	22	CLAY		2	Clay, yellow-brown, slightly moist to moist, sl	EXP
HM-57	SWL	17-APR-84	22	26	SHLE		2	Clayey Shale, yellow brown, slightly moist, s	EXP
HM-57	SWL	17-APR-84	26	28	LS		2	Sandy Limestone, grey to yellow, slightly moi	EXP
HM-57	SWL	17-APR-84	28	34	STCL		2	Silty Clay, yellow-brown to dark grey,, moist	EXP
HM-57	SWL	17-APR-84	34	38	LS		3	Limestone, dark grey, slightly shaley, contain	EXP
HM-57	SWL	17-APR-84	38	39	LS		3	Shell agglomerate, light to dark grey, dense, f	EXP
HM-58	SWL	17-APR-84	10	12	SHLE		2	Clayey shale, light grey and greenish grey, or	EXP
HM-58	SWL	17-APR-84	12	21	LS		2	Limestone/Clayey Shale, interbedded, light gr	EXP
HM-58	SWL	17-APR-84	21	27	SHLE		3	Clayey Shale, Brown to dark grey, moist, ver	EXP
HM-58	SWL	17-APR-84	27	31	LS		3	Shell agglomerate, light to medium grey, dens	EXP
HM-59	SWL	17-APR-84	8	12	CLAY		2	Clay/Limestone, interbedded, orange-brown,	EXP
HM-59	SWL	17-APR-84	12	16	CLAY		2	Clay, yellow-brown, moist, cohesive, firm. No	EXP
HM-59	SWL	17-APR-84	16	18	STCL		2	Silty Clay, yellow-brown, slightly moist to mo	EXP
HM-59	SWL	17-APR-84	18	22	LS		2	Silty, Sandy Limestone, light-brown, slightly	EXP
HM-59	SWL	17-APR-84	22	28	SHLE		2	Clayey Shale/Silty Limestone, interbedded; gr	EXP
HM-59	SWL	17-APR-84	28	35	SHLE		2	Clayey Shale, greenish-grey and orange-brow	EXP
HM-59	SWL	17-APR-84	35	36	LS		3	Sandy Limestone, light grey, slightly dense, b	EXP
HM-59	SWL	17-APR-84	36	38	LS		3	Shell agglomerate, medium-grey, very dense,	EXP
HM-6	SWL	04-DEC-82	18.5	19	LS		3	Limestone, dark grey, saturated, fossiliferous,	EXP
HM-60	SWL	17-APR-84	30	32	CLAY		2	Silty clay, greenish-grey, moist, firm, slightly	EXP
HM-60	SWL	17-APR-84	32	34	LS		3	Sandy Limestone, medium to dark grey, slight	EXP
HM-60	SWL	17-APR-84	34	36	LS		3	Shell Agglomerate, medium to dark grey, very	EXP
HM-61	SWL	17-APR-84	16	20	SHLE		2	Silty Clay/Clayey Shale, green, moist, stiff, sli	EXP
HM-61	SWL	17-APR-84	20	22	SHLE		2	Silty Shale/Limestone, interbedded, medium g	EXP
HM-61	SWL	17-APR-84	22	31	SHLE		2	Silty Shale, dark grey, slightly moist, trace of	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-61	SWL	17-APR-84	31	33	SHLE		3	Silty, Sandy Shale, dark grey, stiff.	EXP
HM-61	SWL	17-APR-84	33	35	LS		3	Shell agglomerate, dark grey, very dense, fos	EXP
HM-62	SWL	18-APR-84	0	0.33	ASPT		0	Asphalt surface.	EXP
HM-62	SWL	18-APR-84	33	39	LS		3	Shell Agglomerate, medium to dark grey, very	EXP
HM-63	SWL	18-APR-84	32	33	LS		2	Sandy Limestone, medium grey, dense, some	EXP
HM-63	SWL	18-APR-84	33	36	SHLE		2	Clayey Shale, greenish grey, moist, stiff, sligh	EXP
HM-63	SWL	18-APR-84	36	38	SHLE		3	Sandy Calcareous Shale, Dark grey, dense, fo	EXP
HM-63	SWL	18-APR-84	38	40	LS		3	Shell Agglomerate, medium to dark grey, very	EXP
HM-64	SWL	18-APR-84	30	33	SHLE		2	Clayey Shale, Orange-green and blue-grey, m	EXP
HM-64	SWL	18-APR-84	33	36	LS		3	Sandy Limestone, light grey, slightly dense.	EXP
HM-64	SWL	18-APR-84	36	38	LS		3	Shell Agglomerate, medium to dark grey, very	EXP
HM-65	SWL	04-JAN-85	0	1	ASPT		0	Asphalt.	EXP
HM-65	SWL	04-JAN-85	6	10	SHLE		2	Limey Shale, Clay, tan, green, moist, fissile, c	EXP
HM-65	SWL	04-JAN-85	10	18	LS		2	Shell Agglomerate, medium to dark grey, very	EXP
HM-66	SWL	05-JAN-85	0	1	ASPT		0	Asphalt.	EXP
HM-66	SWL	05-JAN-85	4	17	SHLE		2	Clay/Shale, tan to grey green, moist, banded,	EXP
HM-66	SWL	05-JAN-85	17	18	LS		3	Limestone, tan to white, dry, weathered, very	EXP
HM-66	SWL	05-JAN-85	18	21.5	LS		3	Shell Agglomerate, dark grey, fresh, very foss	EXP
HM-68	SWL	06-JAN-85	0	4	FILL		1	FILL. Clay and silt, brown to black, moist to v	EXP
HM-68	SWL	06-JAN-85	26	31	LS		3	Limestone, dark grey, dry, dense, fossiliferous	EXP
HM-68	SWL	06-JAN-85	31	37	LS		3	Shell Agglomerate, medium to dark grey, dry,	EXP
HM-69	SWL	07-JAN-85	0	1	ASPT		0	Asphalt.	EXP
HM-69	SWL	07-JAN-85	10	26	SHLE		2	Clayey Shale, tan brown, moist, stiff, cohesiv	EXP
HM-69	SWL	07-JAN-85	26	32	SHLE		2	Calcareous Shale, dark grey, dry, stiff, slightl	EXP
HM-69	SWL	07-JAN-85	32	38	LS		2	Limestone, medium to dark grey, dense, very	EXP
HM-7	SWL	04-DEC-82	12.5	15	LS		3	Limestone, light grey, dense.	EXP
HM-70	SWL	08-JAN-85	27	38	CLAY		2	Shaley Clay, tan brown, moist, cohesive, ban	EXP
HM-70	SWL	08-JAN-85	38	44	SHLE		3	Clayey Shale, dark grey, dense, very silty, so	EXP
HM-70	SWL	08-JAN-85	44	47	LS		3	Limestone, dark grey, dense, very silty.	EXP
HM-71	SWL	08-JAN-85	47	56	SHLE		3	Clayey Shale, dark grey, dense, brittle, sandy.	EXP
HM-72	SWL	09-JAN-85	30	36	SHLE		2	Sandy Shale, light tan to green, calcareous, s	EXP
HM-72	SWL	09-JAN-85	36	40	LS		3	Limestone, dark grey, very dense, fossiliferou	EXP
HM-73	SWL	09-JAN-85	0	2	FILL		0	Concrete.	EXP
HM-73	SWL	09-JAN-85	20	24	SHLE		2	Sandy shale, tan green, dry, weathered some	EXP
HM-73	SWL	09-JAN-85	24	33	STCL		2	Silty clay, green tan, dry, fissile, banded.	EXP
HM-73	SWL	09-JAN-85	33	36	SHLE		3	Calcareous Shale, dark grey, dry, dense, brittl	EXP
HM-73	SWL	09-JAN-85	36	45	LS		3	Shell Agglomerate, dark grey, very dense, fos	EXP
HM-74	SWL	09-JAN-85	0	2	FILL		0	Concrete.	EXP
HM-74	SWL	09-JAN-85	32	38	LS		3	Limestone, tan weathered, dry, fossiliferous (	EXP
HM-74	SWL	09-JAN-85	38	40	LS		3	Shell Agglomerate, dark grey, very dense, fos	EXP
HM-75	SWL	09-JAN-85	0	2	FILL		0	Concrete.	EXP
HM-75	SWL	09-JAN-85	4	22	STCL		2	Silty Clay, green, tan, moist, cohesive, soft, f	EXP
HM-75	SWL	09-JAN-85	22	30	SHLE		3	Sandy Shale, dark grey, slightly moist, calcar	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-76	SWL	10-JAN-85	0	1	FILL		0	Concrete.	EXP
HM-76	SWL	10-JAN-85	16	24	SHLE		2	Clayey Shale, tan and greenish grey, slightly	EXP
HM-76	SWL	10-JAN-85	24	34	SHLE		3	Calcareous Shale, dark grey, dry, brittle, fossi	EXP
HM-77	SWL	10-JAN-85	0	1	FILL		0	Concrete.	EXP
HM-77	SWL	10-JAN-85	30	35	LS		3	Limestone, dark grey, dense, fossiliferous (oy	EXP
HM-78	SWL	11-JAN-85	0	1	FILL		0	Concrete.	EXP
HM-78	SWL	11-JAN-85	26	30	LS		3	Shell Agglomerate, light to dark grey, dense,	EXP
HM-79	SWL	15-JAN-85	0	1	FILL		0	Asphalt.	EXP
HM-79	SWL	15-JAN-85	37	40	SHLE		3	Clayey Shale, brown to dark grey, moist, very	EXP
HM-79	SWL	15-JAN-85	40	42	LS		3	Shell Agglomerate, dark grey, dense, fossilifer	EXP
HM-8	SWL	05-DEC-82	49	50	LS		3	Limestone, blue with black and grey, moist, d	EXP
HM-80	SWL	15-JAN-85	0	2	FILL		0	Concrete.	EXP
HM-80	SWL	15-JAN-85	24	25	SHLE		3	Calcareous Shale, dark grey, moist, stiff, som	EXP
HM-80	SWL	15-JAN-85	25	30	LS		3	Shell Agglomerate, dark grey, dense, fossilifer	EXP
HM-81	SWL	06-JAN-85	14	16	SHLE		2	Clayey Shale, light green, greenish grey, mois	EXP
HM-81	SWL	06-JAN-85	16	18	SHLE		2	Sandy Shale, calcareous.	EXP
HM-81	SWL	06-JAN-85	18	26	LS		2	Limestone, medium to dark grey, dense fossili	EXP
HM-83	HARG	16-DEC-85	14	23	LS		3	Limestone, grey brown, dry, weathered, soft	EXP
HM-85	HARG	16-DEC-85	8	15	SHLE		2	Shale, grey, tan and brown, moist to wet, cali	EXP
HM-86	HARG	01-NOV-86	0	0.5	ASPT		0	Asphalt.	EXP
HM-86	HARG	01-NOV-86	56	60.5	LS		3	Fossiliferous Limestone, light grey to dark gre	EXP
HM-86	HARG	01-NOV-86	60.5	61	SLSS		3	Sandy Siltstone, medium grey, N5, wet, sligh	EXP
HM-86	HARG	01-NOV-86	61	61.5	LS		3	Limestone, dark grey, N3, wet, cemented, wi	EXP
HM-86	HARG	01-NOV-86	61.5	67	SSSL		4	Clay and sandy siltstone-Silty Sandstone, inte	EXP
HM-86	HARG	01-NOV-86	67	74.5	CLSN		4	Silty claystone, dark grey, N4, wet, stiff, mo	EXP
HM-86	HARG	01-NOV-86	74.7	81	SSST		4	Silty sandstone, pinkish grey, 5 YR 8/1, satur	EXP
HM-86	HARG	01-NOV-86	81	86	SHLE		4	Shale, green grey to blue grey, 5G 6/1 to 58	EXP
HM-87	HARG	19-SEP-87	0	0.5	ASPT		0	Asphalt and Subgrade.	EXP
HM-87	HARG	19-SEP-87	35	37	LS		2	Shaley Limestone, white shaley limestone, ha	EXP
HM-87	HARG	19-SEP-87	37	42	LS		2	Clayey silt/Limestone, gray (5Y 6/1), 80 % sil	EXP
HM-88	HARG	22-SEP-87	45	47	LS		3	Fossiliferous Limestone, grey, N4 - N8, abund	EXP
HM-89	HARG	21-SEP-87	49	52	LS		3	Fossiliferous limestone, dark grey, N8, abund	EXP
HM-9	SWL	05-DEC-82	4	5.5	LS		3	Limestone, grey to blue-grey, wet, very dense	EXP
HM-90	HARG	26-SEP-87	61	61.5	LS		3	Limestone, medium grey to white, N6 - N9, h	EXP
HM-91	HARG	02-OCT-87	0	1	CN			Concrete.	EXP
HM-91	HARG	02-OCT-87	60	62	LS		3	Fossiliferous Limestone, light grey to dark gre	EXP
HM-92	HARG	04-OCT-87	0	2	FILL		1	Grass, roots and fill.	EXP
HM-92	HARG	04-OCT-87	2	2.5	FILL		1	Gravelly fill.	EXP
HM-92	HARG	04-OCT-87	61.75	61.76	LS		3	Fossiliferous limestone, light grey to dark grey	EXP
HM-93	HARG	05-OCT-87	0	2	ASPT			Asphalt and fill.	EXP
HM-93	HARG	05-OCT-87	37	37.01	LS		3	Fossiliferous Limestone, light to medium grey,	EXP
HM-94	HARG	10-OCT-87	59.5	61	LS		3	Fossiliferous Limestone, grey, N8 to N4, hard,	EXP
HM-94	HARG	10-OCT-87	61	66	SDCL		4	Grey, N3, cohesive clay, slightly plastic, very	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
HM-94	HARG	10-OCT-87	66	73	STCL		4	Silty clay/Shale, grey, N6, moderately plastic,	EXP
HM-94	HARG	10-OCT-87	73	79	SHLE		4	Shale/Sandstone, shale is same as above, san	EXP
HM-94	HARG	10-OCT-87	79	87	SS		4	Sandstone, pinkish grey, 5 YR 8/1, fine-grain	EXP
HM-94	HARG	10-OCT-87	87	93.5	CLAY		4	Clay/Shale, medium light grey, N6, plastic to	EXP
HM-94	HARG	10-OCT-87	93.5	99	SS		4	Sandstone/Clay, very light grey, N8, fine-grai	EXP
HM-94	HARG	10-OCT-87	99	121	SS		4	Clayey sandstone, very light grey, N8, fine-gr	EXP
HM-95	HARG	23-OCT-87	44.5	45	LS		3	Fossiliferous Limestone, grey, N4 to N8, angu	EXP
HM-96	HARG	24-OCT-87	52.5	54	LS		3	Fossiliferous Limestone, grey, N4 to N8, brittl	EXP
HM-97	HARG	26-OCT-87	51	51.5	LS		3	Fossiliferous limestone, grey, N7 to N3, brittl	EXP
HM-97	HARG	26-OCT-87	51.5	71	SDCL		4	Clayey sand, grey, N7, very fine grained, slig	EXP
HM-97	HARG	26-OCT-87	71	76	SDCL		4	Sandy clay, grey, N5 to N4, moderately cohe	EXP
HM-97	HARG	26-OCT-87	76	76.25	SS		4	Sandstone, light grey, N8, very well cemente	EXP
HM-97	HARG	26-OCT-87	76.25	80	SS		4	Clayey sandstone, grey, N7, very fine grained	EXP
P-1	SWL	01-MAR-83	0	0.25	ASPT		0	Asphalt and subgrade.	EXP
P-1	SWL	01-MAR-83	0.25	10.25	LS		2	Limestone, light grey, dense, fossiliferous (mo	EXP
P-1	SWL	01-MAR-83	10.25	14.75	CLAY		2	Clay, light brownish yellow w/ some dark bro	EXP
P-1	SWL	01-MAR-83	14.75	15.25	LS		2	Limestone, same as depth interval 5 to 10.5 f	EXP
P-1		01-MAR-83	15.25	18	CLAY		2	Clay, same as depth interval 10.5 to 14.5.	EXP
P-1		01-MAR-83	18	22	LS		2	Clayey limestone, light to dark grey, dense, f	EXP
P-1		01-MAR-83	22	30	LSSS		2	Limestone w/ clayey shale/shaley clay, lt. to	EXP
P-1		01-MAR-83	30	34	LSSS		2	Clayey shale/shaley clay w/ limestone, mediu	EXP
P-1		01-MAR-83	34	36	LSSS		3	Shaley limestone, medium to dark grey, dens	EXP
P-1		01-MAR-83	36	65	LS		3	Shell Agglomerate, dk grey w/ some lt grey, d	EXP
P-1		01-MAR-83	65	80	SHLE		3	Clayey shale/shaley clay, med. to dk. grey, so	EXP
P-1		01-MAR-83	80	94	SD		4	Sand, buff, very fine to fine grained quartz, s	EXP
P-1		01-MAR-83	94	123	CLAY		4	Silty clay/silty shale, dark buff w/ some lt brn	EXP
P-1		01-MAR-83	123	205	SD		4	Sand, buff, very fine to fine grained quartz, s	EXP
P-1		01-MAR-83	205	210	SHLE		4	Silty shale/silty clay, blue-green with brown,	EXP
P-1		01-MAR-83	210	213	SDSL		4	Silty sand/clayey sand, light grey with a blue-	EXP
P-1		01-MAR-83	213	214	LSSD		5	Sandy limestone, light brownish grey to grey,	EXP
P-10U	SWL	22-JAN-85	2	28	LS		3	Shell Agg., light brown to grey, dense, fossilif	EXP
P-10U	SWL	22-JAN-85	28	53	SSST		3	Silty, clayey sandstone, dark grey to brown,	EXP
P-10U	SWL	22-JAN-85	53	58	CLSN		3	Claystone/clayey shale, blue-green, firm, cont	EXP
P-11US	SWL	01-AUG-87	0	1	ASPT		0	Asphalt and subgrade. Yellowish brown, 10 Y	EXP
P-11US	SWL	01-AUG-87	10	17	SHLE		3	Shale/Limestone, tan, 2.5 Y 7/4, shale with b	EXP
P-11US	SWL	01-AUG-87	17	54	SHLE		3	Shale/Limestone, grey, 5 Y 6/1, shale, soft to	EXP
P-11US	SWL	01-AUG-87	54	55	STCL		3	Silty clay, grey, 2.5 Y 6/1, 60% clay, 40% si	EXP
P-11US	SWL	01-AUG-87	55	60	SDSL		3	Sand with silt, grey, 2.5 Y 5/1, 90% sand, 1	EXP
P-11US	SWL	01-AUG-87	60	62	SDSL		3	Silt/sand, silt/clayey silt, dark greyish brown,	EXP
P-12U	USCE	16-SEP-85	0	0.5	CN		0	Concrete.	EXP
P-12U	USCE	16-SEP-85	9.4	54.6	LS		3	Limestone, weather stains, white with yellow	EXP
P-12U	USCE	16-SEP-85	54.6	55.2	SHLE		3	Shale.	EXP
P-12U	USCE	16-SEP-85	55.2	59	SS		4	Sandstone.	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-12U	USCE	16-SEP-85	59	72.8	SHLE		4	Shale and sand interbedded, sand is fine grain	EXP
P-12U	USCE	16-SEP-85	72.8	97	SS		4	Sand/Sandstone, fine grained, friable, mostly	EXP
P-13US	HARG	01-AUG-87	0	0.5	STCL		0	TURF.	EXP
P-13US	HARG	01-AUG-87	27	54.5	LSSL		3	Clayey silt/Limestone, grey, 2.5 Y 5/2, 85%	EXP
P-13US	HARG	01-AUG-87	54.5	61	SD		3	Sand, grey, 2.5 Y 5/2, sand, mottle grey to t	EXP
P-13US	HARG	01-AUG-87	61	64	STCL		3	Clayey silt, grey, 2.5 Y 5/2, 60% silt, 40% cl	EXP
P-14U	HARG	01-AUG-87	0	0.5	ASPT		0	Asphalt.	EXP
P-14U	HARG	01-AUG-87	53	60.5	LS		3	Fossiliferous limestone, light grey to dark grey	EXP
P-14U	HARG	01-AUG-87	60.5	69.5	SSSL		3	Clay and sandy siltstone-silty sandstone, inter	EXP
P-14U	HARG	01-AUG-87	69.5	74.5	CLSN		3	Silty claystone, dark grey, N4, wet, stiff, mo	EXP
P-14U	HARG	01-AUG-87	74.5	82	SSST		3	Silty sandstone, pinkish grey, 5 YR 8/1, satur	EXP
P-14U	HARG	01-AUG-87	82	84	CLSN		3	Sandy, silty claystone, dark grey, N4, wet, sti	EXP
P-14U	HARG	01-AUG-87	84	86	SHLE		3	Shale, green grey to blue grey, 5 G 6/1 to 5	EXP
P-2	SWL	06-JUN-83	32	40	CLAY		2	Shaley clay, greenish-buff w/ brown/orange in	EXP
P-2	SWL	06-JUN-83	40	41	LSSH		2	Shale/limestone, interbedded, light to dark gre	EXP
P-2	SWL	06-JUN-83	41	73	LS		3	Shell Agg., medium to dark grey, slightly den	EXP
P-2	SWL	06-JUN-83	73	74	LSSH		3	Shale/clay/limestone, interbedded, medium to	EXP
P-2	SWL	06-JUN-83	74	79	SHLE		3	Shale/clay, interbedded, light to dark grey, fir	EXP
P-2	SWL	06-JUN-83	79	80	LSSS		4	Sandstone/sandy limestone, interbedded, light	EXP
P-2	SWL	06-JUN-83	80	87	CLAY		4	Clay, medium grey, slightly soft, cohesive, so	EXP
P-2	SWL	06-JUN-83	87	131	SD		4	Sand, buff to lt grey, loose, very fine to fine	EXP
P-2	SWL	06-JUN-83	131	133	CLAY		4	Clay, blue-green, slightly soft, cohesive, strati	EXP
P-2	SWL	06-JUN-83	133	174	SDCL		4	Sand/clay, interbedded, sand is buff to lt grey	EXP
P-2	SWL	06-JUN-83	174	175	CLAY		4	Clay, blue-green slightly soft, slightly cohesiv	EXP
P-2	SWL	06-JUN-83	175	180	LSSD		4	Sandy limestone, light buff, dense, massive,	EXP
P-2	SWL	06-JUN-83	180	183	LSSH		4	Sandy clay/shale/limestone, interbedded, clay	EXP
P-22U	RAD	18-MAR-86	0	2	FILL		1	TOPSOIL w/ asphalt, moist, yellow-brown wit	EXP
P-22U	RAD	18-MAR-86	2	15	SHLE		2	Shale, silty, grey, w/ hard limestone fragment	EXP
P-22U	RAD	18-MAR-86	15	18	LS		3	Fossiliferous limestone, and shale, indurated,	EXP
P-22U	RAD	18-MAR-86	18	20	LS		3	Limestone, light grey, fossiliferous, well indur	EXP
P-22U	RAD	18-MAR-86	20	25	SHLE		3	Shale, grey, silty, turning to fossiliferous lime	EXP
P-22U	RAD	18-MAR-86	25	30	LS		3	Limestone, shaley, light grey, cemented, shell	EXP
P-22U	RAD	18-MAR-86	30	35	CLAY		3	Clay, grey, silty, fairly plastic, turning to sand	EXP
P-22U	RAD	18-MAR-86	35	45	SS		3	Sandstone, light grey, unconsolidated, carbon	EXP
P-22U	RAD	18-MAR-86	45	60	SS		3	Sandstone, silty, lt. grey w/ clay matrix, unco	EXP
P-22U	RAD	18-MAR-86	60	62.5	CLAY		3	Clay, grey-green, fairly plastic, turning to gree	EXP
P-26U	HARG	01-JAN-89	0	1	ASPT		0	Asphalt and gravel fill.	EXP
P-26U	HARG	01-JAN-89	1	5	STCL		2	Silty clay/clayey silt w/ weathered limestone,	EXP
P-26U	HARG	01-JAN-89	5	12	LS		2	Clayey limestone, very pale orange, 10 YR 7/	EXP
P-26U	HARG	01-JAN-89	12	23.5	LS		2	Weathered limestone/clayey gravel, greyish or	EXP
P-26U	HARG	01-JAN-89	23.5	26	LS		2	Limestone, medium bluish grey, 5 B 5/1, hard	EXP
P-26U	HARG	01-JAN-89	26	36	SHLE		2	Limey shale and clay, medium grey to mediu	EXP
P-26U	HARG	01-JAN-89	36	46	LS		3	Fossiliferous limestone, medium light grey, N	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-26U		01-JAN-89	46	53	SHLE		3	Shale, medium grey, N5, brittle, hard, some s	EXP
P-26U		01-JAN-89	53	65	LS		3	Limestone, medium light grey, N6, hard some	EXP
P-26U		01-JAN-89	65	75	STCL		3	Silty clay, light olive grey, 5 Y 6/1, moderatel	EXP
P-26U		01-JAN-89	75	90	SDSL		3	Sandy silt, light olive grey to yellowish grey, s	EXP
P-26U		01-JAN-89	90	93	STCL		3	Silty clay, brownish grey, 5 YR 4/1, soft, slig	EXP
P-3	SWL	06-JUN-83	0	0.33	ASPT		0	Asphalt and subgrade.	EXP
P-3	SWL	06-JUN-83	0.33	2	FILL		1	Asphalt subgrade. Not described.	EXP
P-3	SWL	06-JUN-83	13.5	45	LS		3	Shell Agg., lt. buff to grey, dense, weathered	EXP
P-3	SWL	06-JUN-83	45	46	SS		4	Sandstone, white to light buff, slightly loose t	EXP
P-3	SWL	06-JUN-83	46	71	SD		4	Sand, light buff, loose to slightly loose, very f	EXP
P-3	SWL	06-JUN-83	71	85	CLAY		4	Clay, blue-green, slightly soft, cohesive; 77 ft	EXP
P-3	SWL	06-JUN-83	85	155	SD		4	Sand, lt grey to lt buff, loose, fine to med. gr	EXP
P-3	SWL	06-JUN-83	155	158	SDCL		4	Clay/Sand, interbedded, clay is blue-green, thi	EXP
P-3	SWL	06-JUN-83	158	217	SSSH		4	Sandstone/shale/clay, interbedded, sandstone	EXP
P-3	SWL	06-JUN-83	217	218	SHLE		4	Shale, dark green to dark grey, stiff, fissile.	EXP
P-3	SWL	06-JUN-83	218	221	LS		5	Limestone, white to light buff, dense, fossilife	EXP
P-4	SWL	07-JUN-83	0	0.33	ASPT		0	Asphalt and subgrade.	EXP
P-4	SWL	07-JUN-83	25	54	LS		3	Shell Agg., med to dk grey, dry to slightly mo	EXP
P-4		07-JUN-83	54	57	SHLE		3	Silty shale, medium to dark grey, slightly firm	EXP
P-4		07-JUN-83	57	63	SS		4	Sandstone, med. greyish-buff, slightly loose,	EXP
P-4		07-JUN-83	63	66	CLAY		4	Clay, medium grey to burf, slightly soft, slight	EXP
P-4		07-JUN-83	66	87	SD		4	Sand, greyish buff, loose, very fine to fine gra	EXP
P-4		07-JUN-83	87	95	CLAY		4	Clay, light blue-green, slightly soft, cohesive,	EXP
P-4		07-JUN-83	95	107	SSCL		4	Clay/Sandstone, interbedded, clay is lt blue-gr	EXP
P-4		07-JUN-83	107	160	SD		4	Sand, med grey to lt buff, loose to slightly de	EXP
P-4		07-JUN-83	160	170	CLAY		4	Clay, blue-green, slightly soft, cohesive, some	EXP
P-4		07-JUN-83	170	222	SD		4	Sand, med grey to lt buff, loose, very fine to	EXP
P-4		07-JUN-83	222	227	SHLE		4	Shale/Clay, interbedded, blue-green, firm, coh	EXP
P-4		07-JUN-83	227	228	LS		5	Limestone, buff to white, slightly dense, Glen	EXP
P-5U	SWL	01-MAY-84	33	64	LS		3	Shell Agg., med. to dk grey, slightly dense to	EXP
P-5U	SWL	01-MAY-84	64	65	CLAY		4	Clay, dark grey, carbonaceous, soft, poorly c	EXP
P-5U	SWL	01-MAY-84	65	75	SDCL		4	Sandy/Clay, interbedded, grey to light grey sa	EXP
P-5U	SWL	01-MAY-84	75	83	SS		4	Sand/Sandstone, buff to grey, very fine to fin	EXP
P-5U	SWL	01-MAY-84	83	94	SD		4	Sand, grey, very fine to fine grained, loose to	EXP
P-5U	SWL	01-MAY-84	94	101	CLAY		4	Clay, blue-grey, carbonaceous, poorly cohesiv	EXP
P-5UN	HARG	15-OCT-87	32	60.5	LS		3	Fossiliferous Limestone, grey, N4 to N7, fossi	EXP
P-5UN	HARG	15-OCT-87	60.5	66	CLAY		3	Clay w/ limestone interbeds, limestone is sam	EXP
P-5UN	HARG	15-OCT-87	66	68	SDCL		3	Sandy clay/clayey sand, grey, N3, very fine g	EXP
P-5UN	HARG	15-OCT-87	68	74	SDCL		3	Sandy clay, grey, N8, moderately cohesive,	EXP
P-5UN	HARG	15-OCT-87	74	76.5	SS		3	Sandstone, light grey, very well cemented, m	EXP
P-5UN	HARG	15-OCT-87	76.5	81	SDCL		3	Sandy clay, grey, N8, moderately cohesive,	EXP
P-5UN	HARG	15-OCT-87	81	96	SD		3	Sand, grey, N7, fine to medium grained, subr	EXP
P-5UN	HARG	15-OCT-87	96	98	STCL		3	Silty clay, blue grey, 5 B 7/1, slightly cohesiv	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
P-6U	SWL	01-MAY-84	0	1	ASPT		0	Asphalt, concrete and subgrade.	EXP
P-6U	SWL	01-MAY-84	28	32	CLAY		2	Clay, green-brown to orange, moist, slightly c	EXP
P-6U	SWL	01-MAY-84	32	32.5	CLAY		3	Shaley clay, blue-grey to dark grey, stiff, coh	EXP
P-6U	SWL	01-MAY-84	32.5	60	LS		3	Shell Agg., medium to dark grey, dense, fossi	EXP
P-6U	SWL	01-MAY-84	60	61	LS		3	Limestone, light grey, dense, slightly sandy, c	EXP
P-6U	SWL	01-MAY-84	61	64	LS		3	Shaley limestone, dark grey, moderately dens	EXP
P-6U	SWL	01-MAY-84	64	66	SS		4	Sandstone, medium grey, very fine to fine gra	EXP
P-6U	SWL	01-MAY-84	66	80	SSCL		4	Shaley clay/sandstone, interbedded, clay med	EXP
P-6U	SWL	01-MAY-84	80	95	SD		4	Sand, buff to brown, very fine to fine grained	EXP
P-6U	SWL	01-MAY-84	95	97	SSCL		4	Shaley clay/sandstone, interbedded, clay dark	EXP
P-6U	SWL	01-MAY-84	97	100	CLAY		4	Shaley clay, dark grey, fissile, soft to very fir	EXP
P-7M	SWL	07-JAN-85	0	2	ASPT		0	FILL. Asphalt and subgrade.	EXP
P-7M	SWL	07-JAN-85	34	36	CLAY		3	Shaley clay, dark grey, stiff, calcareous, fossil	EXP
P-7M	SWL	07-JAN-85	36	57	LS		3	Shell Agg., grey, dense, fossiliferous (oysters)	EXP
P-7M	SWL	07-JAN-85	57	105	SS		3	Sandstone, grey, fine grained, well sorted, so	EXP
P-7M	SWL	07-JAN-85	105	118	CLSN		3	Claystone/Clayey shale, green, firm, contains	EXP
P-7M	SWL	07-JAN-85	118	126	SS		3	Sandstone, grey, very fine grained, some silt,	EXP
P-7M	SWL	07-JAN-85	126	130	STCL		3	Silty Clay, grey, soft, poorly consolidated, so	EXP
P-7M	SWL	07-JAN-85	130	160	SD		3	Sand, grey, very fine to fine, some clay. Loos	EXP
P-7M	SWL	07-JAN-85	160	165	CLSN		3	Claystone/Shaley clay, blue-green, firm, some	EXP
P-7U	SWL	02-MAY-84	0	1	ASPT		0	Asphalt and subgrade.	EXP
P-7U	SWL	02-MAY-84	32	34.5	CLAY		3	Shaley clay, dark grey, stiff, cohesive, calcare	EXP
P-7U	SWL	02-MAY-84	34.5	63	LS		3	Shell Agg., med to dk grey, dense, fossilifero	EXP
P-7U	SWL	02-MAY-84	63	106	SS		4	Sandstone, light grey, very fine grained to fin	EXP
P-7U	SWL	02-MAY-84	106	107	CLSN		4	Claystone, green, firm.	EXP
P-7U	SWL	02-MAY-84	107	109.5	SS		4	Sandstone, light grey, fine grained, moderatel	EXP
P-7U	SWL	02-MAY-84	109.5	111	CLSN		4	Claystone, green, firm.	EXP
P-8U	SWL	08-JAN-85	32	38	LS		3	Shell Agglomerate, grey, dry, clayey at top. F	EXP
P-8U	SWL	08-JAN-85	38	42	LS		3	Limestone, grey, sandy, fossiliferous, with cla	EXP
P-8U	SWL	08-JAN-85	42	57	LSSD		3	Sandy limestone, grey, fossiliferous, with lime	EXP
P-8U	SWL	08-JAN-85	57	84	SS		3	Sandstone, grey, fine-grained, well sorted; 63	EXP
P-8U	SWL	08-JAN-85	84	92	CLSN		3	Claystone/shale, blue-grey, firm, sandy.	EXP
P-9M	SWL	14-JAN-85	36	61	LS		3	Shell Agg., medium grey, dense, fossiliferous	EXP
P-9M	SWL	14-JAN-85	61	64	LS		3	Limestone, grey, sandy, hard, fossiliferous.	EXP
P-9M	SWL	14-JAN-85	64	118	SS		4	Sandstone, grey, fine grained, silty, some cla	EXP
P-9M	SWL	14-JAN-85	118	121	LGNT		4	Lignite, black, soft, woody, sandy, clayey.	EXP
P-9M	SWL	14-JAN-85	121	128	SDCL		4	Clayey sand/Sandy clay, grey, silt, very fine t	EXP
P-9M	SWL	14-JAN-85	128	166	SS		4	Sandstone, grey, fine grained, loose to moder	EXP
P-9M	SWL	14-JAN-85	166	168	CLSN		4	Claystone/clayey shale, green, brittle, stiff, h	EXP
P-9U	SWL	15-JAN-85	24	35	SHLE		2	Clayey shale, grey-brown, dry, brittle, some li	EXP
P-9U	SWL	15-JAN-85	35	40	LS		2	Shaley limestone, grey to black, dry, fissile, f	EXP
P-9U	SWL	15-JAN-85	40	62	LS		3	Shell Agg., medium to dark grey, dense, fossi	EXP
P-9U	SWL	15-JAN-85	62	118	SS		4	Sandstone, grey, fine-grained, poorly to mode	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
RSB-02	HARG	01-OCT-B7	45	45.5	LS		3	Gray (N 4 to N 8) angular brittle shards, abun	EXP
RSB-03	HARG	01-OCT-87	45	45.5	LS		3	Fossiliferous Limestone, Gray N 4 to N 7, brit	EXP
RSB-04	HARG	01-OCT-87	44.5	45	LS		3	Fossiliferous Limestone, gray, N 4 to N 8, brit	EXP
RSB-05	HARG	01-OCT-87	43.5	48	LS		3	Fossiliferous Limestone, Gray, N 4 to N 8, bri	EXP
RSB-05	HARG	01-OCT-87	48	58.5	LS		3	Massive Limestone, Gray, N 8, moderately co	EXP
RSB-06	HARG	01-OCT-87	43.5	44	LS		3	Fossiliferous Limestone, Gray, N 4 to N 8, bri	EXP
RSB-08	HARG	01-OCT-B7	54	57.5	LS		3	Fossiliferous limestone, Gray, N 7, brittle ang	EXP
RSB-10	HARG	01-OCT-87	45	60.5	LS		3	Fossiliferous limestone, Gray, N 4 to N 7, brit	EXP
RSB-12	HARG	01-OCT-87	51	58.25	LS		3	Interbedded Fossiliferous Limestone and clay,	EXP
RSB-13	HARG	01-OCT-87	51	56.25	LS		3	Fossiliferous limestone, gray, N 5 to N 7, britt	EXP
RSB-14	HARG	01-OCT-87	30	37	LS		2	Tan, 5 YR 6/4, angular brittle fragments, Goo	EXP
RSB-14	HARG	01-OCT-87	37	40	LS		3	Fossiliferous limestone, gray, N 5 to N 7, ang	EXP
RSB-15	HARG	01-OCT-87	53.5	56	LS		3	Fossiliferous limestone, gray, N 5 to N 7, ang	EXP
RSB-17	HARG	01-MAR-88	28	28.25	LS		3	Fossiliferous limestone, light gray, N2, dense,	EXP
RSB-20	HARG	01-MAR-88	15	18	CLSN		2	Silty claystone, gray, N 5 to N 8, oxidized, dr	EXP
RSB-20	HARG	01-MAR-88	18	18.01	LS		3	Dense limestone, very light gray to whitish, N	EXP
RSB-22	HARG	01-MAR-88	49	49.01	LS		3	Limestone, gray, N 6 to N 7, powdered, pulve	EXP
RSB-26	HARG	01-MAR-88	32	32.01	LS		3	Fossiliferous limestone, medium light gray to l	EXP
RSB-27	HARG	01-MAR-88	29.5	29.51	LS		2	Limestone, yellow gray, 5 Y 8/1, dense, mino	EXP
RSB-28	HARG	01-MAR-88	51.5	52	LS		3	Fossiliferous limestone, gray, N 4 to N 7, britt	EXP
RSB-30	HARG	01-MAR-88	50.5	50.75	LS		3	Fossiliferous limestone, gray, N 4 to N 8, ang	EXP
RSB-34	HARG	01-DEC-88	3	8	LS		1	Limestone, very pale orange, 10 YR 8/2, dry,	EXP
RSB-34	HARG	01-DEC-88	23	26.5				No data recorded on log sheet. Data omitted.	EXP
RSB-35	HARG	01-DEC-88	1	3.5	LS		1	Very pale orange, 10 YR 8/2 dry, coarse frag	EXP
RSB-36	HARG	01-DEC-88	1	1.5	LS		1	Very pale orange, 10 YR 8/2, cobble.	EXP
RSB-36	HARG	01-DEC-88	17.5	18	SHLE		3	Medium gray, N6 to N5, slightly friable, fissile	EXP
RSB-37	HARG	01-DEC-88	20	20.5	SHLE		3	Medium light gray, N6 to N5, dense, fissile, d	EXP
RSB-38	HARG	01-DEC-88	41.5	42	LS		3	Cemented shell fragment.	EXP
RSB-40	HARG	01-DEC-88	27	28	LS		3	Dark yellowish orange, 10 YR 6/6, weathered	EXP
RSB-41	HARG	01-DEC-88	2	4				No Recovery.	EXP
RSB-41	HARG	01-DEC-88	37.5	38	LS		3	Moderate yellowish brown, 10 YR 5/4, weath	EXP
RSB-43	HARG	01-DEC-88	33	33.5	LS		3	Dark yellowish orange weathered shells and c	EXP
RSB-44	HARG	01-DEC-88	26.5	27	LS		3	Grayish orange, 10 YR 7/4, dense, slightly fri	EXP
RSB-45	HARG	01-DEC-88	30	31	LS		3	Light olive gray, 5Y 5/2, plastic, noncohesive	EXP
RSB-48	HARG	01-DEC-88	14.5	15	LS		3	Gray weathered with clay, fissile, dry.	EXP
RSB-49	HARG	01-DEC-88	13	16.5	LS		3	Dense, shaley, dry.	EXP
RSB-51	HARG	01-DEC-88	28	28.5	LS		3	Dark yellowish with very pale orange, 10 YR	EXP
RSB-52	HARG	01-DEC-88	17.5	18	LS		3	Dusky yellow, 5 Y 6/4, dense, platey sandy.	EXP
RSB-53	HARG	01-DEC-88	23	23.5	LS		3	Grayish orange, 10 YR 7/4, with shale, dense	EXP
RSB-54	HARG	01-DEC-88	20	24.5	LS		3	Very pale orange, 10 YR 8/2, platey, friable,	EXP
RSB-57	HARG	01-DEC-88	19	20	LS		3	Yellowish gray, 5 Y 8/1, platey, dry.	EXP
RSB-58	HARG	01-DEC-88	35.5	36	LS		3	Weathered shelly limestone, oysters.	EXP
RSB-60	HARG	01-DEC-88	19	21	LS		3	Very light gray, N 8, shaley.	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
RSB-62	HARG	01-DEC-88	24.8	25	LS		3	Yellowish gray, 5 Y 7/2, dry, shaly.	EXP
SB-1(86)	RAD	24-JAN-86	0	0.25	ASPT		0	Asphalt.	EXP
SB-1(86)	RAD	24-JAN-86	0.25	1	FILL		1	Fill.	EXP
SB-1(86)	RAD	24-JAN-86	9	14	SHLE		2	Clayey shale, minor coarse sand and gravel, c	EXP
SB-1(86)	RAD	24-JAN-86	14	19	SHLE		2	Shale, calcareous, dark grey, orange red iron	EXP
SB-1(86)	RAD	24-JAN-86	19	19.2	SHLE		2	Shale, grey, fissile and dry.	EXP
SB-1(86)	RAD	24-JAN-86	19.2	22	LS		3	Limestone, fossiliferous, grey, sandy.	EXP
SB-10(86)	RAD	22-JUL-86	0	0.5	CN		0	Concrete.	EXP
SB-10(86)	RAD	22-JUL-86	0.5	0.67	FILL		1	FILL. Sand and minor gravel.	EXP
SB-10(86)	RAD	22-JUL-86	0.67	3	FILL		1	Concrete and cobble fill.	EXP
SB-10(86)	RAD	22-JUL-86	9	11	SHLE		1	Clay/Shale/Caliche, clay is tan-brown, slightly	EXP
SB-10(86)	RAD	22-JUL-86	19	19.5	SHLE		2	Shale, with minor clay, mottled tan and grey,	EXP
SB-11(86)	RAD	24-JUL-86	4	4.75	LS		3	Limestone and clay. Limestone is weathered	EXP
SB-2(86)	RAD	24-JAN-86	0	0.3	ASPT		0	Asphalt.	EXP
SB-2(86)	RAD	24-JAN-86	0.3	1	FILL		1	Fill.	EXP
SB-2(86)	RAD	24-JAN-86	4	4.3	SHLE		2	Clayey shale, calcareous, mottled orange and	EXP
SB-2(86)	RAD	24-JAN-86	4.3	9	SHLE		2	Clayey shale, calcareous, mottled orange and	EXP
SB-2(86)	RAD	24-JAN-86	9	10	SHLE		2	Clayey shale, calcareous, mottled orange and	EXP
SB-2(86)	RAD	24-JAN-86	10	14	SHLE		2	Clayey shale, calcareous, mottled orange and	EXP
SB-2(86)	RAD	24-JAN-86	14	19	SHLE		2	Clayey shale, minor gravel, calcareous, mottle	EXP
SB-2(86)	RAD	24-JAN-86	19	19.2	SHLE		2	Clayey shale, minor gravel, calcareous, mottle	EXP
SB-2(86)	RAD	24-JAN-86	19.2	21	LS		3	Limestone, fossiliferous, grey, sandy.	EXP
SB-3(86)	RAD	26-JAN-86	0	0.3	ASPT		0	Asphalt.	EXP
SB-3(86)	RAD	26-JAN-86	4	9	SHLE		2	Clayey shale, minor gravel, mottled tan and g	EXP
SB-3(86)	RAD	26-JAN-86	9	14	SHLE		2	Clayey shale, same as above but damp to dry	EXP
SB-3(86)	RAD	26-JAN-86	14	19	SHLE		2	Clayey shale, minor sand, calcareous, mottled	EXP
SB-3(86)	RAD	26-JAN-86	19	19.1			2	No returns.	EXP
SB-3(86)	RAD	26-JAN-86	19.1	22	LS		3	Limestone, fossiliferous, grey, sandy.	EXP
SB-4(86)	RAD	26-JAN-86	0	0.3	ASPT		0	Asphalt.	EXP
SB-4(86)	RAD	26-JAN-86	0.3	3.5	FILL		1	FILL. Sand with minor gravel, tan, medium gr	EXP
SB-5(86)	RAD	23-JAN-86	0	0.5	FILL		0	Cement.	EXP
SB-5(86)	RAD	23-JAN-86	15.5	19	SHLE		2	Shale, calcareous, tan, hard, somewhat fissile	EXP
SB-5(86)	RAD	23-JAN-86	19	24	SHLE		2	Shale, same as above.	EXP
SB-5(86)	RAD	23-JAN-86	24	29	CLAY		2	Shaley clay, calcareous, mottled orange, tan,	EXP
SB-5(86)	RAD	23-JAN-86	29	33	SHLE		2	Shale and clayey shale, calcareous, mottled,	EXP
SB-5(86)	RAD	23-JAN-86	33	33.5	LS		3	Limestone, fossiliferous at 33'.	EXP
SB-7(86)	RAD	21-JUL-86	3	4			3	Walnut Formation.	EXP
SB-8(86)	RAD	21-JUL-86	5.5	5.75			3	Walnut Formation.	EXP
SB-9(86)	RAD	22-JUL-86	0	0.75	CN		0	Concrete.	EXP
SL-1	SWL	10-AUG-64	36	41	LS		3	Limestone, blue, with blue shale seams.	EXP
SL-11	SWL	27-JAN-67	56	59	LS		3	Limestone, white, with clay layers.	EXP
SL-11	SWL	27-JAN-67	59	60	LS		3	Limestone, blue, with embedded shells and sh	EXP
SL-12	SWL	27-JAN-67	35	40	LS		3	Limestone, white, in layers, with clay layers u	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SL-12	SWL	27-JAN-67	40	42	LS		3	Limestone, blue, with embedded shells and sh	EXP
SL-13	SWL	28-JAN-67	35	38.5	LS		3	Limestone, white, with yellow clay layers.	EXP
SL-13	SWL	28-JAN-67	38.5	43.5	LS		3	Limestone, blue, with embedded shells, with	EXP
SL-14	SWL	28-JAN-67	64	64.1	LSSL		3	Silty Limestone, white, thin layer.	EXP
SL-14	SWL	28-JAN-67	64.1	68	LSSL		3	Silty Limestone, Blue.	EXP
SL-14	SWL	28-JAN-67	68	74	SHLE		3	Silty Shale, blue.	EXP
SL-15	SWL	28-JAN-67	38.5	41	LS		3	Limestone, white, with clay layers.	EXP
SL-15	SWL	28-JAN-67	41	46	LS		3	Limestone, blue, with embedded shells and sh	EXP
SL-16	SWL	28-JAN-67	48	56	LS		3	Limestone, white, with clay layers.	EXP
SL-16	SWL	28-JAN-67	56	61	LS		3	Limestone, blue, with embedded shells and sh	EXP
SL-19	SWL	28-JAN-67	61	63	LS		3	Limestone, white, with clay layers.	EXP
SL-19	SWL	28-JAN-67	63	65	LS		3	Limestone, blue, with embedded shells and sh	EXP
SL-19	SWL	28-JAN-67	65	68	SDCL		3	Sandy clay.	EXP
SL-19	SWL	28-JAN-67	68	79	SHLE		3	Silty shale. Blue.	EXP
SL-2	SWL	10-AUG-64	36	41	LS		3	Limestone, blue, with thin layers of blue shale	EXP
SL-20	SWL	03-FEB-67	62	63	LS		3	Limestone. White.	EXP
SL-20	SWL	03-FEB-67	63	64.5	LSSL		3	Silty Limestone, blue.	EXP
SL-20	SWL	03-FEB-67	64.5	68	STCL		3	Silty clay, blue.	EXP
SL-20	SWL	03-FEB-67	68	75	SHLE		3	Silty Shale, blue.	EXP
SL-20	SWL	03-FEB-67	75	80	STCL		3	Silty Clay, blue.	EXP
SL-20	SWL	03-FEB-67	80	99	SD		3	Sand.	EXP
SL-20	SWL	03-FEB-67	99	113	SS		4	Sandstone.	EXP
SL-21	SWL	04-FEB-67	0	0.5	ASPT		0	FILL. Asphalt.	EXP
SL-21	SWL	04-FEB-67	0.5	2	FILL		1	FILL. Base.	EXP
SL-21	SWL	04-FEB-67	62	63	LS		3	Limestone, white, thin layer.	EXP
SL-21	SWL	04-FEB-67	63	64	LSSL		3	Silty limestone, blue.	EXP
SL-21	SWL	04-FEB-67	64	75	SHLE		3	Silty shale, blue.	EXP
SL-22	SWL	04-FEB-67	48	56	LS		3	Limestone, white, in layers, with clay layers u	EXP
SL-22	SWL	04-FEB-67	56	62	LS		3	Limestone, blue, with embedded shells and sh	EXP
SL-23	SWL	04-FEB-67	36	37.5	LS		3	Limestone, white, with clay layers.	EXP
SL-23	SWL	04-FEB-67	37.5	38.5	LS		3	Limestone, blue, with embedded shells and sh	EXP
SL-28	SWL	18-FEB-67	0	0.5	ASPT		0	FILL. Asphalt.	EXP
SL-29	SWL	18-FEB-67	0	0.5	ASPT		0	FILL. Asphalt and subgrade.	EXP
SL-29	SWL	18-FEB-67	12	18.5	LS		3	Limestone, white, with clay layers.	EXP
SL-29	SWL	18-FEB-67	18.5	25	LS		3	Limestone, blue, with shells and shale layers	EXP
SL-3	SWL	10-AUG-64	0	2.5	FILL		1	Concrete and clay.	EXP
SL-3	SWL	10-AUG-64	44	46	LS		3	Limestone, white.	EXP
SL-3	SWL	10-AUG-64	46	50	LS		3	Limestone, blue, with thin shale seams.	EXP
SL-30	SWL	19-FEB-67	0	1	ASPT		0	FILL. Asphalt, with gravel and clay subgrade.	EXP
SL-30	SWL	19-FEB-67	24	39	LS		3	Limestone, white, with clay layers.	EXP
SL-30	SWL	19-FEB-67	39	45	LS		3	Limestone, blue, with shells and shale layers.	EXP
SL-31	SWL	19-FEB-67	11.5	28.5	LS		3	Limestone, white, with clay layers.	EXP
SL-31	SWL	19-FEB-67	28.5	34	LS		3	Limestone, blue, with shells and shale layers.	EXP

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LOCID	LOGCOD	LOGDATE	BEGDEP	ENDDEPT	LITHCO	ASTMC	STR	VISDESC	sourc
SL-4	SWL	25-JAN-67	0	3	FILL		1	FILL. Clay, dark brown, very stiff.	EXP
SL-4	SWL	25-JAN-67	38	38.5	LS		3	Limestone, white.	EXP
SL-4	SWL	25-JAN-67	38.5	43.5	LS		3	Limestone, blue, with embedded shells and sh	EXP
SL-5	SWL	25-JAN-67	35	37	LS		3	Limestone. White, with clay layers.	EXP
SL-5	SWL	25-JAN-67	37	43	LS		3	Limestone. Blue, with embedded shells and s	EXP
SL-6	SWL	25-JAN-67	0	1.5	FILL		1	FILL. Clay, dark brown.	EXP
SL-6	SWL	25-JAN-67	38	39	LS		3	Limestone, white.	EXP
SL-6	SWL	25-JAN-67	39	44	LS		3	Limestone, blue, with embedded shells, with	EXP
SL-7	SWL	26-JAN-67	0	2	FILL		1	FILL. Clay, dark brown.	EXP
SL-7	SWL	26-JAN-67	38	39	LS		3	Limestone, white.	EXP
SL-7	SWL	26-JAN-67	39	44	LS		3	Limestone, blue, with embedded shells and sh	EXP
SL-8	SWL	26-JAN-67	37.5	39	LS		3	Limestone, white.	EXP
SL-8	SWL	26-JAN-67	39	44	LS		3	Limestone, blue, with embedded shells and sh	EXP
SL-9	SWL	26-JAN-67	60	62	LS		3	Limestone, white.	EXP
SL-9	SWL	26-JAN-67	62	64	LS		3	Limestone, blue, with embedded shells and sh	EXP
TH-11	SWL	06-DEC-82	3	3.1	LS		3	Limestone, light brown to buff, dry.	EXP
TH-12	SWL	06-DEC-82	2	2.1	LS		3	Limestone, dry.	EXP
TH-13	SWL	06-DEC-82	2	2.1	LS		3	Limestone.	EXP
TH-14	SWL	06-DEC-82	1	1.1	LS		3	Limestone.	EXP
TH-15	SWL	06-DEC-82	1	1.1	LS		3	Limestone.	EXP
TH-16	SWL	06-DEC-82	2	2.1	LS		3	Limestone.	EXP
TH-17	SWL	06-DEC-82	3	3.1	LS		3	Limestone.	EXP
TH-18	SWL	06-DEC-82	4	4.1	LS		3	Limestone.	EXP
TH-19	SWL	06-DEC-82	2	3	LS		3	Limestone.	EXP
TH-2	SWL	02-DEC-82	0	0.5	CN		0	FILL. Concrete.	EXP
TH-2	SWL	02-DEC-82	0.5	11	FILL		1	FILL. No odor.	EXP
TH-20	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt and subgrade.	EXP
TH-21	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt & subgrade.	EXP
TH-22	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt and subgrade.	EXP
TH-22	SWL	07-DEC-82	2.5	4	FILL		1	FILL. Concrete and rebar.	EXP
TH-23	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt and subgrade.	EXP
TH-24	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt and subgrade.	EXP
TH-25	SWL	07-DEC-82	0	1	ASPT		0	FILL. Asphalt and subgrade.	EXP
TH-26	SWL	07-DEC-82	0	0.1	FILL		0	FILL. Oil sludge.	EXP
TH-26	SWL	07-DEC-82	2	4	SHLE		3	Clayey shale, light blue-grey to light brown wi	EXP
TH-26	SWL	07-DEC-82	6	6.1	LS		3	Limestone at 6 ft, buff, slightly moist, very d	EXP
TH-3	SWL	02-DEC-82	0	0.5	CN		0	FILL. Concrete.	EXP
TH-4	SWL	02-DEC-82	0	0.5	CN		0	FILL. Concrete.	EXP
TH-5	SWL	02-DEC-82	0	0.5	CN		0	FILL. Concrete.	EXP
TH-5	SWL	02-DEC-82	13	15	LSCL		2	Clayey limestone/clay, clay contains limeston	EXP
TH-6	SWL	02-DEC-82	7	7.1	FILL		1	Very bad odor.	EXP
TH-8	SWL	02-DEC-82	3.5	5	FILL		1	FILL. Chemical sludge, bright yellow-green, st	EXP
TH-8	SWL	02-DEC-82	5	5.1	FILL		1	FILL. Very strong odor.	EXP

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LOCID	BEGDEPTH	ENNDEPTH
AC-3	0	25
AC-3	2.4	5.7
AC-3	25	30
AC-3	36.8	38.3
HM-104	10	16
HM-31	36	41
HM-86	74.7	81
P-12M	54	55
P-14U	53	60.5
P-6U	9	10
SB-084	0.8	6
TH-21	7	8
TH-21	11	12
TH-22	2.5	4
TH-23	2	3
TH-23	7	8
TH-23	10	11
TH-24	10	11
TH-24	12	13
TH-24	15	17
TH-25	2	3
TH-25	7	8
TH-25	12	13
TH-26	6	6.1
W-152	24	26
X1	0	5
X3	0	2
X3	1.5	4.5
X3	2	4
X3	4.5	5

TABLE A17 Unique LOCIDs in WCI Table

LOCID
EPA-1
EPA-2
EPA-3
EPA-4
F-200
F-201
F-202
F-203
F-204
F-205
F-206
F-207
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F-211
F-212
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F-220
F-221
F-222
F-223
FSA3-1
FSA3-10
FSA3-11
FSA3-12
FSA3-2
FSA3-3
FSA3-4
FSA3-6
FSA3-7
FSA3-8
FT08-11A
FT08-11B
FT09-12A
GMI-01M
GMI-02M
GMI-03M
GMI-04M
GMI-05M
HM-1
HM-10
HM-100
HM-101
HM-102
HM-103
HM-104
HM-105
HM-106
HM-107
HM-108
HM-11
HM-110
HM-111
HM-112
HM-113

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LOCID
HM-114
HM-115
HM-116
HM-117
HM-118
HM-119
HM-12
HM-120
HM-121
HM-122
HM-123
HM-124
HM-125
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HM-3B
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HM-45
HM-46
HM-47
HM-48
HM-49
HM-4A
HM-4B
HM-5
HM-50
HM-51
HM-52
HM-53

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LOCID
HM-54
HM-55
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HM-95
HM-96
HM-97
HM-98
HM-99
LF04-01
LF04-02
LF04-04
LF05-01
LF05-19
LF05-5A
OW-1
OW-2
P-10M
P-11(M)
P-11(U)
P-11M
P-11U

258279

LOCID
P-12(M)
P-12(U)
P-12M
P-12UN
P-13(M)
P-13(U)
P-13M
P-13U
P-14US
P-15U
P-15UN
P-15US
P-16US
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P-6U
P-7U
P-8M
P-8UN
P-9M
P-9UN
P-9US
PZ-1
PZ-6
PZ-7
USGS01P
USGS01T
USGS02T
USGS03T
USGS04T
USGS05P
USGS06P
USGS06T
USGS07P
USGS07T
USGS08PL
USGS08PM
USGS08PU
USGS09PL
USGS09PM
USGS09PU
W-128L
W-128U
W-129
W-130

LOCID
W-131L
W-131U
W-132
W-133L
W-133U
W-134
W-135
W-136
W-137
W-139L
W-139U
W-140
W-141L
W-141U
W-143
W-144
W-145
W-146
W-147
W-148
W-149
W-150L
W-150U
W-151
W-152
W-153
W-154
W-155
W-156
W-157
W-158
W-159
W-160
WP07-10A
WS-1
WS-12
WS-2
WS-3

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LOCID Field	NumberOfDups
F-218	2
HM-103	3
HM-104	4
HM-110	4
HM-112	3
HM-114	3
HM-116	3
HM-118	2
HM-119	3
HM-120	4
HM-121	3
HM-123	2
HM-125	3
HM-127	3
HM-24	4
HM-30	4
HM-31	4
HM-48	2
HM-98	2
HM-99	3
LF05-19	2
P-10M	3
P-11M	2
P-11U	2
P-12M	2
P-12UN	2
P-13M	2
P-13U	2
P-14US	2
P-15UN	2
P-16US	2
P-18US	2
P-19US	3
P-20M	3
P-21U	2
P-22M	2
P-23U	2
P-24M	2
P-24U	2
P-25M	4
P-25U	2
P-26M	2
P-27U	3
P-29M	4
P-30M	4
P-5M	3
P-6M	2
P-6U	2
P-7U	2
P-9M	2
P-9UN	2
P-9US	2
W-151	3
W-152	3
WS-1	2
WS-12	2
WS-2	2
WS-3	2

LOCID	INSDATE	WELC	WTCCO	WCMCO	GZCCO	SAQCO	SEDE	FPL	MPELEV	TOTDE	CAS	CMACO	SBDE	SCRLE	SOU	SCR	PCT
EPA-1	01-JUN-83	USAF	MNW	GS	S	NCSA	6	23		30	4	PVC	20	10	0	4	
EPA-2	02-JUN-83	USAF	MNW	GS	S	NCSA	3	19		26	4	PVC	12	10	0	4	
EPA-3	31-MAY-83	USAF	MNW	GS	S	NCSA	8	30		40	4	PVC	28	10	0	4	
EPA-4	03-JUN-83	USAF	MNW	GS	S	NCSA	8	37		49.5	4	PVC	35	10	0	4	
F-200	24-FEB-86	USAF	MNW	GS	S	NCSA	15	14	645.63	28.5	4	PVC	17	10	0	4	
F-201	24-FEB-86	USAF	MNW	GS	S	NCSA	10	14		24	4	PVC	14	9	0	4	
F-202	25-FEB-86	USAF	MNW	GS	S	NCSA	8	12	641.44	21	4	PVC	12	9	0	4	
F-203	25-FEB-86	USAF	MNW	GS	S	NCSA	13	20	654.37	33	4	PVC	16	15	0	4	
F-204	25-FEB-86	USAF	MNW	GS	S	NCSA	13	18	653.6	31.2	4	PVC	16	9	0	4	
F-205	05-MAR-86	USAF	MNW	GS	S	NCSA	14	17	654.08	31.5	4	PVC	16	15	0	4	
F-206	06-MAR-86	USAF	MNW	GS	S	NCSA	13	18	653.35	30.5	4	PVC	15	15	0	4	
F-207	06-MAR-86	USAF	MNW	GS	S	NCSA	18	17	656.72	35	4	PVC	20	15	0	4	
F-208	06-MAR-86	USAF	MNW	GS	S	NCSA	9	12	643.75	21.33	4	PVC	11	10	0	4	
F-209	07-MAR-86	USAF	MNW	GS	S	NCSA	11	7		18	4	PVC	12	5	0	4	
F-210	07-MAR-86	USAF	MNW	GS	S	NCSA	5	12	640.06	17	4	PVC	6	10	0	4	
F-211	07-MAR-86	USAF	MNW	GS	S	NCSA	19	17	655.96	36	4	PVC	20	15	0	4	
F-212	04-SEP-86	USAF	MNW	GS	S	NCSA	6	20	647.12	25.5	4	PVC	8	17	0	4	
F-213	09-SEP-86	USAF	MNW	GS	S	NCSA	4	8	636.49	12	4	PVC	6	4	0	4	
F-214	05-SEP-86	USAF	MNW	GS	S	NCSA	12	6	628.13	18.5	4	PVC	13	4	0	4	
F-215	22-SEP-86	USAF	MNW	GS	S	NCSA	10	14	653.87	34	4	PVC	18	15	0	4	
F-216	08-SEP-86	USAF	MNW	GS	S	NCSA	8	18	647.48	26	4	PVC	10	14	0	4	
F-217	08-SEP-86	USAF	MNW	GS	S	NCSA	8	10	639.84	18	4	PVC	12	4	0	4	
F-218	11-SEP-86	USAF	MNW	GS	S	NCSA	16	17	654.46	33	4	PVC	18	14	0	4	
F-219	11-SEP-86	USAF	MNW	GS	S	NCSA	16	18	654.6	35	4	PVC	20	14	0	4	
F-220	05-SEP-86	USAF	MNW	GS	S	NCSA	19	14	666.13	33.5	4	PVC	23	9	0	4	
F-221	10-SEP-86	USAF	MNW	GS	S	NCSA	4	18	653	21.5	4	PVC	6	14	0	4	
F-222	23-SEP-86	USAF	MNW	GS	S	NCSA	5	10	635.81	15	4	PVC	7	7	0	4	
F-223	23-SEP-86	USAF	MNW	GS	S	NCSA	9	13	644.96	22.3	4	PVC	12	10	0	4	
FSA3-1	06-JUN-88	USAF	MNW	GS	S	NCSA	8	11		19.5	4	UNK	9	10		4	
FSA3-10	07-JUN-88	USAF	MNW	GS	S	NCSA		10	639.96	20	4	UNK	8	10		4	
FSA3-11	08-JUN-88	USAF	MNW	GS	S	NCSA		20	640.79	22.5	4	UNK	2	20		4	
FSA3-12	08-JUN-88	USAF	MNW	GS	S	NCSA	4	15	641.48	19.5	4	UNK	9	10		4	
FSA3-2	06-JUN-88	USAF	MNW	GS	S	NCSA		9	639.52	20	4	UNK	8	10		4	
FSA3-3	06-JUN-88	USAF	MNW	GS	S	NCSA		10	633.95	20	4	UNK	6	10		4	
FSA3-4	07-JUN-88	USAF	MNW	GS	S	NCSA	2	10	632.26	15	4	UNK	2	10		4	
FSA3-6	07-JUN-88	USAF	MNW	GS	S	NCSA		9	631.95	12	4	UNK	1	10		4	
FSA3-7	07-JUN-88	USAF	MNW	GS	S	NCSA	2	13	636.61	15	4	UNK	4	10		4	
FSA3-8	07-JUN-88	USAF	MNW	GS	S	NCSA		10	632.97	15	4	UNK	2	10		4	
FT08-11A	01-JAN-99	USAF	MNW	GS	W	NCSA	0	0	608.22	0	0	PVC	0	0	0	0	0
FT08-11B	01-JAN-99	USAF	MNW	GS	W	NCSA	0	0	608.14	0	0	PVC	0	0	0	0	0
FT09-12A	01-JAN-99	USAF	MNW	GS	W	NCSA	0	0	635.66	0	0	PVC	0	0	0	0	0
GMI-01M	7/19/94	USAF	MNW	GS	W		4	12	0	16	2	PVC	6	10	0	2	0
GMI-02M	7/19/94	USAF	MNW	GS	W		15	12	0	27.5	2	PVC	18	10	0	2	0
GMI-03M	7/19/94	USAF	MNW	GS	W		15	12	0	27.5	2	PVC	18	10	0	2	0
GMI-04M	7/18/94	USAF	MNW	GS	W		15	12	0	27	2	PVC	17	10	0	2	0

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REMARKS	sour
Cement Seal - 0 to 5.5 ft; Bentonite Seal - 5.5 to 6.8 ft; Sand Packed Interval - 6.8 to 30 ft; Screened Interval - 20 to 30 ft. 0.010 inc	EXP
Cement Seal - 0 to 1.0 ft; Bentonite Seal - 1.0 to 3.0 ft; Sand Packed Interval - 3.0 to 22.1 ft; Screened Interval - 12.1 to 22.1 ft. 0.0	EXP
Cement Seal - 0 to 5.0 ft; Bentonite Seal - 5.0 to 8.0 ft; Sand Packed Interval - 8.0 to 37.7 ft; Screened Interval - 27.7 to 37.7 ft. 0.0	EXP
Cement Seal - 0 to 5.4 ft; Bentonite Seal - 5.4 to 8.0 ft; Sand Packed Interval - 8.0 to 45.0 ft; Screened Interval - 35.0 to 45.0 ft. 0.0	EXP
#1 Sand Pack	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
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Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Schedule 40 PVC Well Casing	EXP
Cement Seal - NA; Bentonite Seal - 6.0 to 8.5 ft; Sand or Gravel Packed Interval - 8.5 to 19.5 ft.	EXP
SEAL END DEPTH = 8.0!!! Cement Seal - NA; Bentonite Seal - 5.8 to 8.0 ft; Sand or Gravel Packed Interval - 8.0 to 18.0 ft.	EXP
SEAL END DEPTH = 2.0!!! Cement Seal - NA; Bentonite Seal - 0.0 to 2.0 ft; Sand or Gravel Packed Interval - 2.0 to 22.0 ft.	EXP
Cement Seal - NA; Bentonite Seal - 0.0 to 4.5 ft; Sand or Gravel Packed Interval - 4.5 to 19.5 ft.	EXP
SEAL END DEPTH = 9.7!!! Cement Seal - NA; Bentonite Seal - 7.5 to 9.7 ft; Sand or Gravel Packed Interval - 9.4 to 18.5 ft.	EXP
SEAL END DEPTH = 6.0!!! Cement Seal - NA; Bentonite Seal - 3.5 to 6.0 ft; Sand or Gravel Packed Interval - 6.0 to 16.0 ft.	EXP
Cement Seal - NA; Bentonite Seal - 0.0 to 2.5 ft; Sand or Gravel Packed Interval - 2.5 to 13.0 ft.	EXP
SEAL END DEPTH = 2.5!!! Cement Seal - NA; Bentonite Seal - 0.0 to 2.5 ft; Sand or Gravel Packed Interval - 2.5 to 11.5 ft.	EXP
Cement Seal - NA; Bentonite Seal - 0.0 to 2.0 ft; Sand or Gravel Packed Interval - 2.0 to 15.0 ft.	EXP
SEAL END DEPTH = 2.5!!! Cement Seal - NA; Bentonite Seal - 0.0 to 2.5 ft; Sand or Gravel Packed Interval - 2.5 to 12.0 ft.	EXP
NO COMPLETION LOG AVAILABLE FOR THIS WELL.	IRP
NO COMPLETION LOG AVAILABLE FOR THIS WELL.	IRP
NO COMPLETION LOG AVAILABLE FOR THIS WELL	IRP
	PAR
	PAR
	PAR
	PAR

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LOCID	INSDATE	WELC	WTCCO	WCMCO	GZCCO	SAQCO	SEDE	FPL	MPELEV	TOTDE	CAS	CMACO	SBDE	SCRLE	SOU	SCR	PCT
GMI-05M	7/18/94	USAF	MNW	GS	W		5	12	0	17.5	2	PVC	7	10	0	2	0
HM-1	01-DEC-82	USAF	MNW	GS	S	NCSA	15	19		34	4	PVC	24	10	0	4	
HM-10	06-DEC-82	USAF	MNW	GS	S	NCSA	7	14	642.8	22	4	PVC	12	10	0	4	
HM-100	20-JAN-86	USAF	MNW	GS	S	NCSA	29	6	669.96	49	2	PVC	34	15	0	2	
HM-101	21-JAN-86	USAF	MNW	GS	S	NCSA	16	10	664.93	34	2	PVC	19	15	0	2	
HM-102	21-JAN-86	USAF	MNW	GS	S	NCSA	13	31	654.59	44	2	PVC	14	30	0	2	
HM-103	21-JAN-86	USAF	MNW	GS	S	NCSA	27	11	648.28	39	2	PVC	29	10	0	2	
HM-104	27-JAN-86	USAF	MNW	GS	W	NCSA	19	19	649.66	39	2	PVC	23	15	0	2	0
HM-105	11-AUG-86	USAF	MNW	GS	S	NCSA	4	17	641.84	21	2	PVC	6	15	0	2	
HM-106	26-JAN-86	USAF	MNW	GS	S	NCSA	14	16	649.7	34	2	PVC	15	15	0	2	
HM-107	12-AUG-86	USAF	MNW	GS	S	NCSA	6	16	642.2	23	2	PVC	8	15	0	2	
HM-108	12-AUG-86	USAF	MNW	GS	S	NCSA	4	9	639.68	15	2	PVC	5	10	0	2	
HM-11	28-MAR-83	USAF	MNW	GS	S	NCSA	4	30	650.21	35.5	4	PVC	24	9		4	
HM-110	25-MAR-88	USAF	MNW	GS	S	NCSA	21	16	637.33	37	4	PVC	26	10		4	
HM-111	25-MAR-88	USAF	MNW	GS	S	NCSA	22	27	636.19	53	4	PVC	29	20		4	
HM-112	25-MAR-88	USAF	MNW	GS	S	NCSA	18	32	638.06	50.5	4	PVC	20	30		4	
HM-113	26-MAR-88	USAF	MNW	GS	S	NCSA	27	22	639.29	49	4	PVC	28	20		4	
HM-114	31-JAN-89	USAF	MNW	GS	S	NCSA	12	22	627.77	36.5	4	PVC	14	20		4	
HM-115	31-JAN-89	USAF	MNW	GS	S	NCSA	6	21	625.84	27	4	PVC	7	18		4	
HM-116	31-JAN-89	USAF	MNW	GS	S	NCSA	20	13	633.77	33	4	PVC	23	10		4	
HM-117	01-FE8-89	USAF	MNW	GS	S	NCSA	17	22	633	39.5	4	PVC	18	20		4	
HM-118	01-FE8-89	USAF	MNW	GS	S	NCSA	6	20	625.9	27	4	PVC	6	20		4	
HM-119	02-FE8-89	USAF	MNW	GS	S	NCSA	6	22	624.76	32	4	PVC	9	20		4	
HM-12	29-MAR-83	USAF	MNW	GS	S	NCSA	5	29	653.55	40	4	PVC	24	9		4	
HM-120	02-FEB-89	USAF	MNW	GS	S	NCSA	6	11	616.56	18	4	PVC	8	10		4	
HM-121	08-FEB-89	USAF	MNW	GS	W	NCSA	8	22	627.47	31.5	4	PVC	11	20	0	4	0
HM-122	15-FEB-89	USAF	MNW	GS	S	NCSA	16	12	619.21	28.5	4	PVC	17	10		4	
HM-123	15-FEB-89	USAF	MNW	GS	S	NCSA	16	4	624.59	40.5	4	PVC	20	20		4	
HM-124	16-FEB-89	USAF	MNW	GS	S	NCSA	7	18	622.98	25	4	PVC	9	15		4	
HM-125	16-FEB-89	USAF	MNW	GS	S	NCSA	10	22	629.05	33	4	PVC	13	20		4	
HM-126	17-FEB-89	USAF	MNW	GS	S	NCSA	12	25	622.71	37	4	PVC	16	20		4	
HM-127	18-FEB-89	USAF	MNW	GS	S	NCSA	15	4	623.78	38.5	4	PVC	18	20		4	
HM-13	29-MAR-83	USAF	MNW	GS	S	NCSA	8	23	660.22	44	4	PVC	22	9		4	
HM-14	30-MAR-83	USAF	MNW	GS	S	NCSA	7	31	665.05	41	4	PVC	28	9		4	
HM-15	30-MAR-83	USAF	MNW	GS	S	NCSA	5	28	665.38	38	4	PVC	23	9		4	
HM-16	31-MAR-83	USAF	MNW	GS	S	NCSA	5	42	663.67	50	4	PVC	37	9		4	
HM-17	31-MAR-83	USAF	MNW	GS	S	NCSA	6	30	656.48	45	4	PVC	27	9		4	
HM-18	31-MAR-83	USAF	MNW	GS	S	NCSA	5	31	653.9	38	4	PVC	26	9		4	
HM-19	01-APR-83	USAF	MNW	GS	S	NCSA	6	18	643.27	28	4	PVC	14	9		4	
HM-2	02-DEC-82	USAF	MNW	GS	S	NCSA	4	31	656.72	35	4	PVC	25	10	0	4	
HM-20	01-APR-83	USAF	MNW	GS	S	NCSA	11	27	652.19	38	4	PVC	28	9		4	
HM-21	01-APR-83	USAF	MNW	GS	S	NCSA	3	11	634.55	15	4	PVC	4	9		4	
HM-22	23-MAY-83	USAF	MNW	GS	S	NCSA	6	45	684.36	55	4	PVC	42	9		4	
HM-23	23-MAY-83	USAF	MNW	GS	S	NCSA	6	40	673.73	50	4	PVC	37	9		4	
HM-24	24-MAY-83	USAF	MNW	GS	S	NCSA	6	36	657.8	43	4	PVC	33	9		4	

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REMARKS	sour
	PAR
4-inch Schedule 40 PVC Casing	EXP
4-inch Schedule 40 PVC Casing	EXP
Grout (Lonestar Portland Cement) 1 to 27.5 ft; Bentonite Pellets - 27.5 to 29.5 ft; Sand Pack(No. 1A Blastsand - 29.5 to 35.5 ft; Sloug	EXP
Grout (Lonestar Portland Cement) 1 to 14.0 ft; Bentonite Pellets - 14.0 to 16.0 ft; Sand Pack(No. 1A Blastsand - 16.0 to 26.0 ft; Sloug	EXP
Grout (Lonestar Portland Cement) 1 to 11.0 ft; Bentonite Pellets - 11.0 to 13.0 ft; Sand Pack(No. 1A Blastsand - 13.0 to 44.0 ft; Scree	EXP
Grout (Lonestar Portland Cement) 1 to 24.7 ft; Bentonite Pellets - 24.7 to 27.0 ft; Sand Pack(No. 1A Blastsand - 27.0 to 38.0 ft; Sloug	EXP
PERCENT OPEN AREA UNKNOWN.	IRP
Grout (Lonestar Portland Cement) .33 to 1.83 ft; Bentonite Pellets - 1.83 to 4.0 ft; Sand Pack(No. 1A Blastsand - 4.0 to 21.0 ft; Scree	EXP
Grout (Lonestar Portland Cement) 1.0 to 12.0 ft; Bentonite Pellets - 12.0 to 14.3 ft; Sand Pack(No. 1A Blastsand - 14.3 to 30.1 ft; Slo	EXP
Grout (Lonestar Portland Cement) 1.0 to 4.3 ft; Bentonite Pellets - 4.3 to 6.5 ft; Sand Pack(No. 1A Blastsand - 6.5 to 22.5 ft; Slough -	EXP
Grout (Lonestar Portland Cement) 0 to 2.0 ft; Bentonite Pellets - 2.0 to 4.0 ft; Sand Pack(No. 1A Blastsand - 4.0 to 15.0 ft; Screened I	EXP
Cement Seal- 0 to 1.5; Bentonite Seal - 1.5 to 4; Sand/Gravel Pack - 4 to 33.8.	EXP
Cement Seal - 0 to 18.5 ft; Bentonite Seal - 18.5 to 21.5 ft; Filter Pack Interval - 21.5 to 37.0 ft; Screened Seal - 26.5 to 36.5 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 16.0 to 22.0 ft; Filter Pack Interval - 22.0 to 49.0; Screened Seal - 29.0 to 49.0 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 14.0 to 18.0 ft; Filter Pack Interval - 18.0 to 50.5; Screened Seal - 20.0 to 50.0 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 22.0 to 27.0 ft; Filter Pack Interval - 27.0 to 49.0; Screened Seal - 28.0 to 48.0 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 10.0 to 12.0 ft; Filter Pack Interval - 12.0 to 34.5; Screened Seal - 14.5 to 34.5 ft.	EXP
Cement Seal - 0 to 3.0 ft; Bentonite Seal - 4.5 to 6.0 ft; Filter Pack Interval - 6.0 to 27.0; Screened Seal - 7.3 to 26.2 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 18.0 to 20.0 ft; Filter Pack Interval - 20.0 to 33.0; Screened Seal - 23.0 to 33.0 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 15.0 to 17.0 ft; Filter Pack Interval - 17.0 to 38.5; Screened Seal - 18.5 to 38.5 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 4.0 to 6.0 ft; Filter Pack Interval - 6.0 to 26.2; Screened Seal - 6.2 to 26.2 ft.	EXP
Cement Seal - 0 to 3.0 ft; Bentonite Seal - 5.0 to 6.5 ft; Filter Pack Interval - 6.5 to 29.0; Screened Seal - 9.0 to 29.0 ft.	EXP
Cement Seal- 0 to 3; Bentonite Seal - 3 to 5; Sand/Gravel Pack - 5 to 34.1	EXP
Cement Seal - 0 to 4.5 ft; Bentonite Seal - 4.5 to 6.7 ft; Filter Pack Interval - 6.7 to 17.6; Screened Seal - 7.6 to 17.6 ft.	EXP
SCREEN SLOT SIZE	IRP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 14.9 to 16.0 ft; Filter Pack Interval - 16.0 to 28.5; Screened Seal - 16.9 to 26.9 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 14.5 to 16.0 ft; Filter Pack Interval - 16.0 to 19.5; Screened Seal - 19.5 to 39.5 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 5.0 to 7.5 ft; Filter Pack Interval - 7.5 to 25.0; Screened Seal - 9.0 to 24.0 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 8.5 to 10.8 ft; Filter Pack Interval - 10.8 to 33.0; Screened Seal - 13.0 to 33.0 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 10.0 to 12.0 ft; Filter Pack Interval - 12.0 to 37.0; Screened Seal - 16.0 to 36.0 ft.	EXP
Cement Seal - 0 to 4.0 ft; Bentonite Seal - 13.0 to 15.0 ft; Filter Pack Interval - 15.0 to 18.5; Screened Seal - 18.5 to 38.5 ft.	EXP
Cement Seal- 0 to 7; Bentonite Seal - 7 to 8.5; Sand/Gravel Pack - 8.5 to 31.9	EXP
Cement Seal- 0 to 5; Bentonite Seal - 5 to 7; Sand/Gravel Pack - 7 to 38.3	EXP
Cement Seal- 0 to 3; Bentonite Seal - 3 to 5; Sand/Gravel Pack - 5 to 33.	EXP
Cement Seal- 0 to 3.5; Bentonite Seal - 3.5 to 5; Sand/Gravel Pack - 5 to 47.2	EXP
Cement Seal- 0 to 4.5; Bentonite Seal - 4.5 to 6.5; Sand/Gravel Pack - 6.5 to 36.7.	EXP
Cement Seal- 0 to 3.5; Bentonite Seal - 3.5 to 5; Sand/Gravel Pack - 5 to 36.	EXP
Cement Seal- 0 to 4; Bentonite Seal - 4 to 6; Sand/Gravel Pack - 6 to 24.	EXP
4 inch Schedule 40 PVC Casing	EXP
Cement Seal- 0 to 8; Bentonite Seal - 8 to 11; Sand/Gravel Pack - 11 to 38.	EXP
Cement Seal- 0 to 1.5; Bentonite Seal - 1.5 to 3; Sand/Gravel Pack - 3 to 14.	EXP
Cement Seal- 0 to 3.5; Bentonite Seal - 3.5 to 6; Sand/Gravel Pack - 6 to 51.2.	EXP
Cement Seal- 0 to 4; Bentonite Seal - 4 to 6; Sand/Gravel Pack - 6 to 46.4.	EXP
Cement Seal- 0 to 4; Bentonite Seal - 4 to 6; Sand/Gravel Pack - 6 to 42.5.	EXP

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LOCID	INSDATE	WELC	WTCCO	WCMCO	GZCCO	SAQCO	SEDE	FPL	MPELEV	TOTDE	CAS	CMACO	SBDE	SCRLE	SOU	SCR	PCT
HM-25	24-MAY-83	USAF	MNW	GS	S	NCSA	5	34	653.12	42	4	UNK	30	9		4	
HM-26	25-MAY-83	USAF	MNW	GS	S	NCSA		9	633.51	16	4	UNK	6	9		4	
HM-27	25-MAY-83	USAF	MNW	GS	S	NCSA		9	634.3	16	4	UNK	5	9		4	
HM-28	25-MAY-83	USAF	MNW	GS	S	NCSA	5	36	658.53	41.5	4	UNK	32	9		4	
HM-29	25-MAY-83	USAF	MNW	GS	S	NCSA	8	35	658.69	44	4	UNK	34	9		4	
HM-30	26-MAY-83	USAF	MNW	GS	S	NCSA	5	47	667.58	54	4	UNK	43	9		4	
HM-31	26-MAY-83	USAF	MNW	GS	S	NCSA	6	34	645.73	41	4	UNK	31	9		4	
HM-32	13-APR-84	USAF	MNW	GS	S	NCSA	9	36	664.84	46	4	UNK	36	10		4	
HM-33	11-APR-84	USAF	MNW	GS	S	NCSA	5		652.5	28	2	UNK	17	10		2	
HM-34	11-APR-84	USAF	MNW	GS	S	NCSA	5		639.02	20	2	UNK	10	10		2	
HM-35	11-APR-84	USAF	MNW	GS	S	NCSA	5		638.1	20	2	UNK	10	10		2	
HM-36	11-APR-84	USAF	MNW	GS	S	NCSA	4		635.83	16	2	UNK	11	5		2	
HM-37	11-APR-84	USAF	MNW	GS	S	NCSA	3		634.79	12	2	UNK	6	5		2	
HM-38	11-APR-84	USAF	MNW	GS	S	NCSA	5		630.73	25	2	UNK	10	10		2	
HM-39	11-APR-84	USAF	MNW	GS	S	NCSA			633.73	14	2	UNK	4	10		2	
HM-3A	02-DEC-82	USAF	MNW	GS	S	NCSA	15	10		25.5	4	PVC	16	10	0	4	
HM-3B	03-DEC-82	USAF	MNW	GS	S	NCSA	4	6		10.5	4	PVC	6	5	0	4	
HM-40	12-APR-84	USAF	MNW	GS	S	NCSA	2		667.87	53	2	UNK	36	10		2	
HM-41	12-APR-84	USAF	MNW	GS	S	NCSA	8		664.72	46	2	UNK	36	10		2	
HM-42	12-APR-84	USAF	MNW	GS	S	NCSA	5		663.99	48	2	UNK	36	10		2	
HM-43	12-APR-84	USAF	MNW	GS	S	NCSA	5		672.13	22.5	2	UNK	12	10		2	
HM-44	13-APR-84	USAF	MNW	GS	S	NCSA	5		673.31	40	2	UNK	30	10		2	
HM-45	13-APR-84	USAF	MNW	GS	S	NCSA	5		660.47	43	2	UNK	32	10		2	
HM-46	14-APR-84	USAF	MNW	GS	S	NCSA	2		657.02	44	2	UNK	42	1		2	
HM-47	14-APR-84	USAF	MNW	GS	S	NCSA	8	20	651.87	36	4	UNK	18	10		4	
HM-48	14-APR-84	USAF	MNW	GS	S	NCSA	8	20	653.65	33	4	UNK	18	10		4	
HM-49	15-APR-84	USAF	MNW	GS	S	NCSA	4		632.94	10.5	2	UNK	5	5		2	
HM-4A	03-DEC-82	USAF	MNW	GS	S	NCSA	12	13		26	4	PVC	15	10	0	4	
HM-4B	03-DEC-82	USAF	MNW	GS	S	NCSA	4	7		10.8	4	PVC	6	5	0	4	
HM-5	02-DEC-82	USAF	MNW	GS	S	NCSA	11	22	666.43	33	4	PVC	22	10	0	4	
HM-50	15-APR-84	USAF	MNW	GS	S	NCSA	2		636.34	14.5	2	UNK	4	10		2	
HM-51	15-APR-84	USAF	MNW	GS	S	NCSA	4	14	638.92	20	4	UNK	8	10		4	
HM-52	15-APR-84	USAF	MNW	GS	S	NCSA	5	18	653.97	26	4	UNK	13	10		4	
HM-53	16-APR-84	USAF	MNW	GS	S	NCSA	6	30	654.16	37	4	UNK	25	10		4	
HM-54	16-APR-84	USAF	MNW	GS	S	NCSA	7	19	649.44	27	4	UNK	16	10		4	
HM-55	16-APR-84	USAF	MNW	GS	S	NCSA	4		654.29	33	2	UNK	23	10		2	
HM-56	16-APR-84	USAF	MNW	GS	S	NCSA	7		655.51	40	2	UNK	30	10		2	
HM-57	17-APR-84	USAF	MNW	GS	S	NCSA	5		654.67	39	2	UNK	29	10		2	
HM-58	17-APR-84	USAF	MNW	GS	S	NCSA	3		653.18	31	2	UNK	18	10		2	
HM-59	17-APR-84	USAF	MNW	GS	S	NCSA	5		655.33	38	2	UNK	28	10		2	
HM-6	04-DEC-82	USAF	MNW	GS	S	NCSA	4	14		19	4	PVC	8	10	0	4	
HM-60	17-APR-84	USAF	MNW	GS	S	NCSA	4		654.39	36	2	UNK	26	10		2	
HM-61	17-APR-84	USAF	MNW	GS	S	NCSA	5		652.91	35	2	UNK	25	10		2	
HM-62	18-APR-84	USAF	MNW	GS	S	NCSA	7		656.64	39	2	UNK	29	10		2	
HM-63	18-APR-84	USAF	MNW	GS	S	NCSA	7		659.15	40	2	UNK	30	10		2	

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REMARKS	sour
Cement Seal - 0 to 3 ft; Bentonite Seal - 3 to 5 ft; Sand/Gravel Pack Filter 5 to 39.3 ft. Equipped with hand-operated pump.	EXP
SEAL END DEPTH = 6 FT. Cement Seal - 0 to 5 ft; Bentonite Seal - 5 to 6 ft; Sand/Gravel Pack Filter 6 to 15 ft. Equipped with hand-	EXP
SEAL END DEPTH = 5.5 FT. Cement Seal - 0 to 4 ft; Bentonite Seal - 4 to 5.5 ft; Sand/Gravel Pack Filter 5.5 to 14.2 ft. Equipped wit	EXP
Cement Seal - 0 to 3.5 ft; Bentonite Seal - 3.5 to 5 ft; Sand/Gravel Pack Filter 5 to 41.3 ft. Equipped with hand-operated pump.	EXP
Cement Seal - 0 to 6 ft; Bentonite Seal - 6 to 8 ft; Sand/Gravel Pack Filter 8 to 42.8 ft. Equipped with submersible electric pump.	EXP
Cement Seal - 0 to 2.5 ft; Bentonite Seal - 2.5 to 5.5 ft; Sand/Gravel Pack Filter 5.5 to 52.7 ft. Equipped with hand-operated pump.	EXP
Cement Seal - 0 to 3.5 ft; Bentonite Seal - 3.5 to 6.5 ft; Sand/Gravel Pack Filter 6.5 to 40.1 ft. Equipped with hand-operated pump.	EXP
Cement Seal - 0 to 8.5 ft; Bentonite Seal - 8.5 to 9.3 ft; Sand/Gravel Pack Filter 9.3 to 45.5 ft. Equipped with hand-operated pump.	EXP
Cement Seal - 0 to 3 ft; Bentonite Seal - 3 to 5 ft; Sand/Gravel Pack Filter ---.	EXP
Cement Seal - 0 to 3 ft; Bentonite Seal - 3 to 5 ft; Sand/Gravel Pack Filter ---.	EXP
Cement Seal - 0 to 3 ft; Bentonite Seal - 3 to 5 ft; Sand/Gravel Pack Filter ---.	EXP
Cement Seal - 0 to 2.6 ft; Bentonite Seal - 2.6 to 4.6 ft; Sand/Gravel Pack Filter ---.	EXP
Cement Seal - 0 to 1 ft; Bentonite Seal - 1 to 3 ft; Sand/Gravel Pack Filter ---.	EXP
Cement Seal - 0 to 3 ft; Bentonite Seal - 3 to 5 ft; Sand/Gravel Pack Filter ---.	EXP
SEAL END DEPTH = 5 FT!!! Cement Seal - 0 to 3 ft; Bentonite Seal - 3 to 5 ft; Sand/Gravel Pack Filter ---.	EXP
ABANDONED WELL: 4 inch Schedule 40 PVC Casing	EXP
ABANDONED WELL: 4 inch Schedule 40 PVC Casing	EXP
Cement Seal - 0 to 1.5 ft; Bentonite Seal - 1.5 to 2.5 ft; Sand/Gravel Pack Filter ---.	EXP
Cement Seal - 0 to 6 ft; Bentonite Seal - 6 to 8 ft; Sand or Gravel Packed Filter - ---.	EXP
Cement Seal - 0 to 3 ft; Bentonite Seal - 3 to 5 ft; Sand or Gravel Packed Filter - ---.	EXP
Cement Seal - 0 to 3.4 ft; Bentonite Seal - 3.4 to 5.6 ft; Sand or Gravel Packed Filter - ---.	EXP
Cement Seal - 0 to 3 ft; Bentonite Seal - 3 to 5 ft; Sand or Gravel Packed Filter - ---.	EXP
Cement Seal - 0 to 3 ft; Bentonite Seal - 3 to 5 ft; Sand or Gravel Packed Filter - ---.	EXP
Cement Seal - 0 to 1.5 ft; Bentonite Seal - 1.5 to 2.2 ft; Sand or Gravel Packed Filter - ---.	EXP
Cement Seal - 0 to 5.5 ft; Bentonite Seal - 5.5 to 8 ft; Sand or Gravel Packed Filter - 8 to 27.5. Equipped with hand-operated pump.	EXP
Cement Seal - 0 to 5 ft; Bentonite Seal - 5 to 8 ft; Sand or Gravel Packed Filter - 8 to 27.5. Equipped with hand-operated pump.	EXP
Cement Seal - 0 to 2.3 ft; Bentonite Seal - 2.3 to 4.9 ft; Sand or Gravel Packed Filter - ---.	EXP
ABANDONED WELL: 4 inch Schedule 40 PVC Casing	EXP
ABANDONED WELL: 4 inch Schedule 40 PVC Casing	EXP
4 inch Schedule 40 PVC Casing	EXP
Cement Seal - 0 to 1 ft; Bentonite Seal - 1 to 2.8 ft; Sand or Gravel Packed Filter - ---.	EXP
Cement Seal - 0 to 3.6 ft; Bentonite Seal - 3.6 to 4.6 ft; Sand or Gravel Packed Filter - 4.6 to 18 ft. Equipped with hand-operated pum	EXP
Cement Seal - 0 to 3.5 ft; Bentonite Seal - 3.5 to 5 ft; Sand or Gravel Packed Filter - 5 to 23.3 ft.	EXP
Cement Seal - 0 to 4.5 ft; Bentonite Seal - 4.5 to 6.5 ft; Sand or Gravel Packed Filter - 6.5 to 35.4 ft; Screened Interval - 25.4 to 35.4	EXP
Cement Seal - 0 to 6.2 ft; Bentonite Seal - 6.2 to 7.5 ft; Sand or Gravel Packed Filter - 7.5 to 26.5 ft; Screened Interval - 16.5 to 26.5	EXP
Cement Seal - 0 to 2.5 ft; Bentonite Seal - 2.5 to 4.7 ft; Sand or Gravel Packed Filter - ---; Screened Interval - 22.6 to 32.6 ft.	EXP
Cement Seal - 0 to 4 ft; Bentonite Seal - 4 to 7.3 ft; Sand or Gravel Packed Filter - ---; Screened Interval - 30 to 40 ft.	EXP
Cement Seal - 0 to 3.8 ft; Bentonite Seal - 3.8 to 5.4 ft; Sand or Gravel Packed Filter - ---; Screened Interval - 29 to 39 ft.	EXP
Cement Seal - 0 to 3.3 ft; Bentonite Seal - 2 to 3.3 ft; Sand or Gravel Packed Filter - ---; Screened Interval - 18 to 28 ft.	EXP
Cement Seal - 0 to 2.5 ft; Bentonite Seal - 2.5 to 5 ft; Sand or Gravel Packed Filter - ---; Screened interval - 28 to 38 ft.	EXP
4 inch Schedule 40 PVC Casing	EXP
Cement Seal - 0 to 1.8 ft; Bentonite Seal - 1.8 to 4.8 ft; Sand or Gravel Packed Filter - ---; Screened interval - 26 to 36 ft.	EXP
Cement Seal - 0 to 2.8 ft; Bentonite Seal - 2.8 to 5.5 ft; Sand or Gravel Packed Filter - ---; Screened interval - 25 to 35 ft.	EXP
Cement Seal - 0 to 4.6 ft; Bentonite Seal - 4.6 to 7.8 ft; Sand or Gravel Packed Filter - ---; Screened interval - 29 to 39 ft.	EXP
Cement Seal - 0 to 4.6 ft; Bentonite Seal - 4.6 to 7.1 ft; Sand or Gravel Packed Filter - ---; Screened interval - 30 to 40 ft.	EXP

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LOCID	INSDATE	WELC	WTCCO	WCMCO	GZCCO	SAQCO	SEDE	FPL	MPELEV	TOTDE	CAS	CMACO	SBDE	SCRLE	SOU	SCR	PCT
HM-64	18-APR-84	USAF	MNW	GS	S	NCSA	4		654.49	38	2	UNK	22	10		2	
HM-65	04-JAN-85	USAF	MNW	GS	S	NCSA		10	633.56	18	4	UNK	6	10		4	
HM-66	05-JAN-85	USAF	MNW	GS	S	NCSA	6	14	643.75	21.5	4	UNK	10	10		4	
HM-68	06-JAN-85	USAF	MNW	GS	S	NCSA	6	28	644.37	37	4	UNK	14	20		4	
HM-69	06-JAN-85	USAF	MNW	GS	S	NCSA	3	34	646.61	38	4	UNK	27	10		4	
HM-7	04-DEC-82	USAF	MNW	GS	S	NCSA	4	10	638.88	15	4	PVC	4	10	0	4	
HM-70	07-JAN-85	USAF	MNW	GS	S	NCSA	6	40	652.74	47	4	UNK	36	10		4	
HM-71	07-JAN-85	USAF	MNW	GS	S	NCSA	2	40	646.61	56	4	UNK	32	10		4	
HM-72	08-JAN-85	USAF	MNW	GS	S	NCSA	6	33	651.07	40	4	UNK	30	10		4	
HM-73	08-JAN-85	USAF	MNW	GS	S	NCSA	5	39	653.89	45	4	UNK	34	10		4	
HM-74	09-JAN-85	USAF	MNW	GS	S	NCSA	6	33	652.53	40	4	UNK	29	10		4	
HM-75	09-JAN-85	USAF	MNW	GS	S	NCSA	4	26	649.63	30.3	4	UNK	20	10		4	
HM-76	10-JAN-85	USAF	MNW	GS	S	NCSA	4	30	652.15	34.3	4	UNK	24	10		4	
HM-77	10-JAN-85	USAF	MNW	GS	S	NCSA	6	27	653.04	35	4	UNK	24	10		4	
HM-78	11-JAN-85	USAF	MNW	GS	S	NCSA	5	24	643.53	30	4	UNK	20	10		4	
HM-79	15-JAN-85	USAF	MNW	GS	S	NCSA	6	35	651.29	42	4	UNK	31	10		4	
HM-8	05-DEC-82	USAF	MNW	GS	S	NCSA	10	40	669.75	50	4	PVC	37	10	0	4	
HM-80	15-JAN-85	USAF	MNW	GS	S	NCSA	4	24	647.22	30	4	UNK	18	10		4	
HM-81	16-JAN-85	USAF	MNW	GS	S	NCSA	4	21	642.38	26	4	UNK	16	10		4	
HM-82	16-JAN-85	USAF	MNW	GS	S	NCSA	7	43	647.19	50.4	4	UNK	40	10		4	
HM-83	16-DEC-85	USAF	MNW	GS	S	NCSA	10	12		23	2	PVC	16	5	0	2	
HM-84	16-DEC-85	USAF	MNW	GS	S	NCSA	4	9	631.4	13	2	PVC	7	6	0	2	
HM-85	16-DEC-85	USAF	MNW	GS	S	NCSA	6	9		15	2	PVC	10	5	0	2	
HM-86	01-NOV-86	USAF	MNW	GS	S	NCSA	14	38	646.6	52	4	PVC	22	30	0	4	
HM-87	19-SEP-87	USAF	MNW	GS	S	NCSA	20	20	647.19	42	4	PVC	30	10		4	
HM-88	22-SEP-87	USAF	MNW	GS	S	NCSA	17	29	650.89	47	4	PVC	36	10		4	
HM-89	21-SEP-87	USAF	MNW	GS	S	NCSA	21	29	649.89	52	4	PVC	30	20		4	
HM-9	05-DEC-82	USAF	MNW	GS	S	NCSA	2	2	637.89	5.5	4	PVC	3	2	0	4	
HM-90	26-SEP-87	USAF	MNW	GS	S	NCSA	26	33	646.95	59.5	4	PVC	50	8		4	
HM-91	02-OCT-87	USAF	MNW	GS	S	NCSA	32	30	646.1	62	4	PVC	40	20		4	
HM-92	04-OCT-87	USAF	MNW	GS	S	NCSA	31	29	649.69	61.8	4	PVC	40	20		4	
HM-93	05-OCT-87	USAF	MNW	GS	S	NCSA	21	16	649.64	37	4	PVC	27	10		4	
HM-94	10-OCT-87	USAF	MNW	GS	S	NCSA	24	34	646.84	59	4	PVC	29	30		4	
HM-95	23-OCT-87	USAF	MNW	GS	S	NCSA	12	33	640.99	45	4	PVC	35	10		4	
HM-96	24-OCT-87	USAF	MNW	GS	S	NCSA	22	32	641.9	54	4	PVC	24	30		4	
HM-97	26-OCT-87	USAF	MNW	GS	S	NCSA	28	22	641.64	80	4	PVC	30	20		4	
HM-98	23-MAR-88	USAF	MNW	GS	S	NCSA	14	17	640.44	31.5	4	PVC	20	10		4	
HM-99	24-MAR-88	USAF	MNW	GS	S	NCSA		20	641.94	44	4	PVC	23	20		4	
LF04-01	23-MAR-90	USAF	MNW	GS	W	NCSA	28	12	629.24	40.1	2	PVC	29	9.75	0	2	0
LF04-02	23-MAR-90	USAF	MNW	P	W	NCSA	20	16	629.24	40.1	2	PVC	23	14.35	0	2	0
LF04-04	20-MAR-90	USAF	MNW	P	W	NCSA	13	11	612.07	25.4	2	PVC	15	9.73	0	2	0
LF05-01	22-MAR-90	USAF	MNW	P	W	NCSA	11	13	621.96	27.48	2	PVC	14	9.75	0	2	0
LF05-19	21-MAR-90	USAF	MNW	GS	W	NCSA	8	13	606.08	20.8	2	PVC	10	9.75	0	2	0
LF05-5A	01-JAN-99	USAF	MNW	P	W	NCSA	0	0	623.18	30.31	2	PVC	0	0	0	2	0
OW-1																	

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REMARKS	sour
Cement Seal - 0 to 2; Bentonite Seal - 2 to 4.8; Sand or Gravel Packed Filter - ---; Screened Interval - 22 to 32 ft.	EXP
SEAL END DEPTH = 6.5!!! Cement Seal - 0 to 4.9; Bentonite Seal - 4.9 to 6.5; Sand or Gravel Packed Filter - 6.5 to 16.1; Screened In	EXP
Cement Seal - 0 to 3.7; Bentonite Seal - 3.7 to 6.6; Sand or Gravel Packed Filter - 6.6 to 20.2; Screened Interval - 10.2 to 20.2 ft. Equ	EXP
Cement Seal - 0 to 3.5; Bentonite Seal - 3.5 to 6.0; Sand or Gravel Packed Filter - 6.0 to 34.5; Screened Interval - 14.5 to 34.5 ft. Equ	EXP
Cement Seal - 0 to 2.0; Bentonite Seal - 2.0 to 3.5; Sand or Gravel Packed Filter - 3.5 to 37.0; Screened Interval - 27.0 to 37.0 ft. Equ	EXP
SEAL END DEPTH = 5 FT. 4 inch Schedule 40 PVC Casing	EXP
Cement Seal - 0 to 4.0; Bentonite Seal - 4.0 to 6.0; Sand or Gravel Packed Filter - 6.0 to 46.1; Screened Interval - 36.1 to 46.1 ft. Equ	EXP
Cement Seal - 0 to 1.0; Bentonite Seal - 1.0 to 2.0; Sand or Gravel Packed Filter - 2.0 to 42.1; Screened Interval - 32.1 to 42.1 ft. Equ	EXP
Cement Seal - 0 to 4.5; Bentonite Seal - 4.5 to 6.5; Sand or Gravel Packed Filter - 6.5 to 39.9; Screened Interval - 29.9 to 39.9 ft. Equ	EXP
Cement Seal - 0 to 3.0; Bentonite Seal - 3.0 to 5.5; Sand or Gravel Packed Filter - 5.5 to 44.4; Screened Interval - 34.4 to 44.4 ft. Equ	EXP
Cement Seal - 0 to 4.0; Bentonite Seal - 4.0 to 6.0; Sand or Gravel Packed Filter - 6.0 to 39.1; Screened Interval - 29.1 to 39.1 ft. Equ	EXP
Cement Seal - 0 to 2.5; Bentonite Seal - 2.5 to 4.8; Sand or Gravel Packed Filter - 4.8 to 30.3; Screened Interval - 20.3 to 30.3 ft. Equ	EXP
Cement Seal - 0 to 3.5; Bentonite Seal - 3.5 to 4.5; Sand or Gravel Packed Filter - 4.5 to 34.3; Screened Interval - 24.3 to 34.3 ft. Equ	EXP
Cement Seal - 0 to 4.5; Bentonite Seal - 4.5 to 6.5; Sand or Gravel Packed Filter - 6.5 to 33.8; Screened Interval - 23.8 to 33.8 ft. Equ	EXP
Cement Seal - 0 to 4.0; Bentonite Seal - 4.0 to 5.8; Sand or Gravel Packed Filter - 5.B to 29.7; Screened Interval - 19.7 to 29.7 ft. Equ	EXP
Cement Seal - 0 to 3.5; Bentonite Seal - 3.5 to 6.0; Sand or Gravel Packed Filter - 6.0 to 40.9; Screened Interval - 30.9 to 40.9 ft. Equ	EXP
4-inch Schedule 40 PVC Casing	EXP
Cement Seal - 0 to 2.8; Bentonite Seal - 2.8 to 4.5; Sand or Gravel Packed Filter - 4.5 to 28.2; Screened Interval - 18.2 to 28.2 ft. Equ	EXP
Cement Seal - 0 to 1.5 ft; Bentonite Seal - 1.5 to 4.5 ft; Sand or Gravel Packed Filter - 4.5 to 25.9; Screened Interval - 15.9 to 25.9. E	EXP
Cement Seal - 0 to 4.7 ft; Bentonite Seal - 4.7 to 7.0 ft; Sand or Gravel Packed Filter - 7.0 to 50.4; Screened Interval - 40.4 to 50.4. E	EXP
2 inch Diameter PVC Casing	EXP
2 inch Diameter PVC Casing	EXP
2 inch Diameter PVC Casing	EXP
4 inch Threaded PVC Casing	EXP
Cement Seal - 0 to 5 ft; Bentonite Seal - 16.0 to 20.5 ft; Filter Pack Interval - 20.5 to 40.5; Screened Seal - 30.0 to 40.0 ft.	EXP
Cement Seal - 0 to 13.6 ft; Bentonite Seal - 13.6 to 17.0 ft; Filter Pack Interval - 17.0 to 45.8; Screened Seal - 35.8 to 45.8 ft.	EXP
Cement Seal - 0 to 18.0 ft; Bentonite Seal - 18.0 to 21.0 ft; Filter Pack Interval - 21.0 to 50.0; Screened Seal - 30.0 to 50.0 ft.	EXP
SEAL END DEPTH: 3 FT!!! 4-inch Schedule 40 PVC Casing	EXP
Cement Seal - 0 to 10.0 ft; Bentonite Seal - 23.0 to 26.0 ft; Filter Pack Interval - 26.0 to 59.0; Screened Seal - 49.5 to 58.0 ft.	EXP
Cement Seal - 0 to 2.0 ft; Bentonite Seal - 27.0 to 32.0 ft; Filter Pack Interval - 32.0 to 62.0; Screened Seal - 39.5 to 59.5 ft.	EXP
Cement Seal - 0 to 15 ft; Bentonite Seal - 27.0 to 31.0 ft; Filter Pack Interval - 31.0 to 60.0 ft; Screened Seal - 40.0 to 60.0 ft.	EXP
Cement Seal - 0 to 17 ft; Bentonite Seal - 17.0 to 21.0 ft; Filter Pack Interval - 21.0 to 37.0 ft; Screened Seal - 27.0 to 37.0 ft.	EXP
Cement Seal - 0 to 21 ft; Bentonite Seal - 21.0 to 24.5 ft; Filter Pack Interval - 24.5 to 59.0 ft; Screened Seal - 29.0 to 59.0 ft.	EXP
Cement Seal - 0 to 9 ft; Bentonite Seal - 9.0 to 12.0 ft; Filter Pack Interval - 12.0 to 45.0 ft; Screened Seal - 34.7 to 44.7 ft.	EXP
Cement Seal - 0 to 19.0 ft; Bentonite Seal - 19.0 to 22.0 ft; Filter Pack Interval - 22.0 to 54.0 ft; Screened Seal - 24.0 to 54.0 ft.	EXP
Cement Seal - 0 to 25.0 ft; Bentonite Seal - 25.0 to 28.0 ft; Filter Pack Interval - 28.0 to 50.0 ft; Screened Seal - 30.0 to 50.0 ft.	EXP
Cement Seal - 0 to 16.0 ft; Bentonite Seal - 11.0 to 14.5 ft; Filter Pack Interval - 14.5 to 31.5 ft; Screened Seal - 20.0 to 30.0 ft.	EXP
SEAL END DEPTH = 23.5!!! Cement Seal - 0 to 20.5 ft; Bentonite Seal - 20.5 to 23.5 ft; Filter Pack Interval - 23.5 to 44.0 ft; Screene	EXP
PERCENT OPEN AREA UNKNOWN.	IRP
	IRP
	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	JCB
NO COMPLETION LOG	IRP
	PAR

258289

LOCID	INSDATE	WELC	WTCCO	WCMCO	GZCCO	SAQCO	SEDE	FPL	MPELEV	TOTDE	CAS	CMACO	SBDE	SCRLE	SOU	SCR	PCT
OW-2																	
P-10M	10-FEB-85	USAF	MNW	GS	C	NCSA	63	51	628.5	134	6	PVC	102	29.5	0	6	0
P-11M	26-AUG-85	USAF	MNW	P	C	NCSA	83	20	638.84	165.4	4	PVC	145	19.77	0	4	0
P-11U	13-AUG-85	USAF	MNW	P	W	NCSA	62	31	639.52	93	4	PVC	62	31	0	4	0
P-12M	16-SEP-85	USAF	MNW	P	C	NCSA	102	34	643.54	155.5	4	PVC	130	25.5	0	4	0
P-12U	3/15/95	USAF	MNW	GS	C		0	0	0	97	4	PVC	67	30	0	4	0
P-12UN	03-JAN-88	USAF	MNW	P	C	NCSA	72	25	643.31	97	4	PVC	77	20	0	4	0
P-13(M)	3/15/95	USAF	MNW	GS	C		84	79	0	162.8	4	PVC	143	20	0	4	0
P-13(U)	3/15/95	USAF	MNW	GS	L		54	36	0	90.1	4	PVC	70	20	0	4	0
P-13M	03-JAN-86	USAF	MNW	P	W	NCSA	110	64	638.76	167.8	4	PVC	143	20	0	4	0
P-13U	30-JAN-86	USAF	MNW	P	W	NCSA	68	22	638.3	90.5	4	PVC	70	20.4	0	4	0
P-14US	01-JAN-99	USAF	MNW	GS	C	NCSA	43	26	646.97	70	4	PVC	60	10	0	4	0
P-15U	24-SEP-87	USAF	MNW	P	C	NCSA	60	31	646.29	122	4	PVC	71	20	0	4	0
P-15UN	24-SEP-87	USAF	MNW	P	W	NCSA	60	31	646.76	122	4	PVC	71	20	0	4	0
P-15US	26-SEP-87	USAF	MNW	GS	W	NCSA	54	15	647.07	69	4	PVC	58	10	0	4	0
P-16US	11-OCT-87	USAF	MNW	P	C	NCSA	53	17	646.36	70.5	4	PVC	60	10	0	4	0
P-17US	27-OCT-87	USAF	MNW	GS	W	NCSA	52	19	641.82	71	4	PVC	61	10	0	4	0
P-18US	07-MAR-88	USAF	MNW	GS	W	NCSA	57	17	640.49	75	4	PVC	65	10	0	4	0
P-19US	05-MAR-88	USAF	MNW	GS	W	NCSA	50	20	637.78	70.5	4	PVC	60	10.5	0	4	0
P-20M	05-MAR-86	USAF	MNW	P	W	NCSA	112	42	673.15	155	5	PVC	125	30	0	5	0
P-21U	10-MAR-86	USAF	MNW	P	W	NCSA	75	35	660.97	110	5	PVC	85	20	0	5	0
P-22M	30-OCT-87	USAF	MNW	P	C	NCSA	84	52	632.44	136	4	PVC	100	36	0	4	0
P-23U	18-MAR-86	USAF	MNW	P	W	NCSA	33	45	626.85	55.3	5	PVC	35	20	0	5	0
P-24M	02-DEC-88	USAF	MNW	P	W	NCSA	82	52	625.71	134	4	PVC	82	52.5	0	4	0
P-24U	01-DEC-88	USAF	MNW	P	W	NCSA	26	35	625.82	61	4	PVC	31	30	0	4	0
P-25M	14-DEC-88	USAF	MNW	P	W	NCSA	110	50	655.47	160	4	PVC	118	40	0	4	0
P-25U	05-DEC-88	USAF	MNW	P	W	NCSA	52	63	657.19	115	4	PVC	55	60	0	4	0
P-26M	06-JAN-89	USAF	MNW	GS	C	NCSA	102	69	652.28	171.5	4	PVC	102	69.5	0	4	0
P-27U	18-JUN-91	USAF	MNW	P	W	NCSA	80	20	657.02	100	2	PVC	85	10	0	2	0
P-28U	17-MAY-91	USAF	MNW	GS	C	NCSA	82	176	649.49	90.4	2	PVC	85	5	0	2	3
P-29M	28-JUN-91	USAF	MNW	P	W	NCSA	108	32	635.25	140	2	PVC	112	19.55	0	2	0
P-30M	01-JUL-91	USAF	MNW	GS	C	NCSA	127	30	642.5	157	2	PVC	130	20	0	2	0
P-31U	20-MAY-91	USAF	MNW	GS	C	NCSA	83	183	651.93	92.5	2	PVC	87	5	0	2	3
P-5M	05-JUN-84	USAF	MNW	P	C	NCSA	79	83	653.4	162	5	PVC	113	38.8	0	5	0
P-6M	22-MAY-84	USAF	MNW	P	C	NCSA	110	69	656.03	169	5	PVC	120	48.7	0	5	0
P-6U	20-MAY-84	USAF	MNW	GS	W	NCSA	61	39	655.73	100	5	PVC	69	19.8	0	5	0
P-7U	06-JAN-85	USAF	MNW	GS	W	NCSA	58	52	656.93	111	5	PVC	79	29	0	5	0
P-8M	29-JAN-85	USAF	MNW	P	C	NCSA	109	77	645.33	169	5	PVC	107	62	0	5	0
P-8UN	05-JUN-87	USAF	MNW	P	C	NCSA	72	24	645.7	96	4	PVC	B4	12	0	4	0
P-9M	12-FEB-85	USAF	MNW	GS	W	NCSA	128	40	655.66	168	5	PVC	125	39	0	5	0
P-9UN	08-OCT-87	USAF	MNW	P	C	NCSA	72	40	654.84	112	4	PVC	90	22	0	4	0
P-9US	06-OCT-87	USAF	MNW	P	C	NCSA	54	19	655.98	118	4	PVC	62	11	0	4	0
PZ-1																	
PZ-6																	
PZ-7																	

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REMARKS	sour
	PAR
PERCENT OPEN AREA UNKNOWN.	JCB
Info on measuring point elev.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
AQUIFER IS MIDDLE PALUXY. PERCENT OPEN AREA UNKNOWN.	JCB
	PAR
Aquifer is Paluxy Aquifer.	IRP
	PAR
	PAR
PERCENT OPEN AREA UNKNOWN.	JCB
PERCENT OPEN AREA UNKNOWN.	JCB
PERCENT OPEN AREA UNKNOWN. INSTALLATION DATE UNKNOWN.	IRP
AQUIFER IS PALUXY. PERCENT OPEN AREA UNKNOWN. BOREHOLE ABANDONED FROM ORIGINAL TD OF 122 FEET TO 91 FEET.	IRP
WELL ABANDONED FROM 122 FEET TO 91 FEET. PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN. AQUIFER IS PALUXY.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
AQUIFER IS PALUXY. PERCENT OPEN AREA UNKNOWN.	JCB
PERCENT OPEN AREA UNKNOWN	IRP
PERCENT OPEN AREA UNKNOWN.	JCB
PERCENT OPEN AREA UNKNOWN.	JCB
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
	BCH
MEASURING POINT ELEVATION	JCB
PERCENT OPEN AREA UNKNOWN.	IRP
	BCH
AQUIFER IS PALUXY. PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN. AQUIFER IS PALUXY.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN. AQUIFER IS PALUXY.	IRP
PERCENT OPEN AREA UNKNOWN. AQUIFER IS PALUXY.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP
AQUIFER IS PALUXY	IRP
AQUIFER IS PALUXY. PERCENT OPEN AREA UNKNOWN. BOREHOLE ABANDONED FROM ORIGINAL TD OF 118 FEET TO 73 FEET.	IRP
	PAR
	PAR
	PAR

258291

LOCID	INSDATE	WELC	WTCCO	WCMCO	GZCCO	SAQCO	SEDE	FPL	MPELEV	TOTDE	CAS	CMACO	SBDE	SCRLE	SOU	SCR	PCT
USGS01P	12/12/93	USAF	MNW	GS	C		85	29	604.83	114	2	PVC	104	10	0	2	0
USGS01T	11/10/93	USAF	MNW	GS	W		6	14	604.77	20.5	2	PVC	10	10	0	2	0
USGS02T	11/18/93	USAF	MNW	GS	W		13	18	604.23	30.5	2	PVC	15	15	0	2	0
USGS03T	11/9/93	USAF	MNW	GS	W		4	2	575.11	8.5	2	PVC	6	2.5	0	2	0
USGS04T	11/10/93	USAF	MNW	GS	W		12	15	604.88	26	2	PVC	16	10	0	2	0
USGS05P	1/6/94	USAF	MNW	GS	C		65	25	576.8	90	2	PVC	80	10	0	2	0
USGS06P	12/16/93	USAF	MNW	GS	C		50	23	606.47	73.3	2	PVC	63	10	0	2	0
USGS06T	11/13/93	USAF	MNW	GS	W		8	14	606.49	22.5	2	PVC	12	10	0	2	0
USGS07P	12/18/93	USAF	MNW	GS	C		102	38	623.06	140	2	PVC	117	22.5	0	2	0
USGS07T	11/12/93	USAF	MNW	GS	W		6	10	632.45	16.5	2	PVC	11	5	0	2	0
USGS08P	1/10/94	USAF	MNW	GS	C		138	65	636.71	203	2	PVC	152	30	0	2	0
USGS08P	1/12/94	USAF	MNW	GS	W		91	36	638.57	127	2	PVC	106	20	0	2	0
USGS08P	1/11/94	USAF	MNW	GS	C		27	43	637.95	70	2	PVC	50	20	0	2	0
USGS09P	1/26/94	USAF	MNW	GS	C		150	57	631.49	207	2	PVC	166	20	0	2	0
USGS09P	1/27/94	USAF	MNW	GS	C		82	35	631.75	117	2	PVC	96	20	0	2	0
USGS09P	1/28/94	USAF	MNW	GS	C		36	42	631.81	78	2	PVC	58	20	0	2	0
W-128L	23-MAY-91	USAF	MNW	GS	S	NCSA	21	14	654.37	34.5	2	PVC	24	9.5	0	2	3
W-128U	19-FEB-91	USAF	MNW	GS	S	NCSA	10	14	654.46	23.3	4	PVS	13	9.7	0	4	11
W-129	28-FEB-91	USAF	MNW	GS	S	NCSA	7	6	630.72	12.9	2	PVC	8	4.5	0	2	3
W-130	27-FEB-91	USAF	MNW	GS	W	NCSA	19	4	631.85	22.5	2	PVC	20	2.2	0	2	3
W-131L	26-MAR-91	USAF	MNW	GS	W	NCSA	21	54	653.45	33	2	PVC	23	9.7	0	2	3
W-131U	05-MAR-91	USAF	MNW	GS	W	NCSA	8	30	653.38	21.8	2	PVC	12	9.5	0	2	3
W-132	26-FEB-91	USAF	MNW	GS	W	NCSA	17	38	629.82	20.8	2	PVC	18	2.2	0	2	3
W-133L	06-MAR-91	USAF	MNW	GS	W	NCSA	20	52	653.15	32	2	PVC	22	9.5	0	2	3
W-133U	05-MAR-91	USAF	MNW	GS	W	NCSA	8	29	653.03	20.1	2	PVS	10	9.2	0	2	11
W-134	13-MAR-91	USAF	MNW	GS	W	NCSA	5	23	643.43	17	2	PVC	7	9.2	0	2	3
W-135	20-MAR-91	USAF	MNW	GS	W	NCSA	4	16	648.54	12.3	2	PVC	5	7	0	2	3
W-136	27-MAR-91	USAF	MNW	GS	W	NCSA	15	48	653.45	32.5	2	PVC	20	12.7	0	2	3
W-137	26-MAR-91	USAF	MNW	GS	W	NCSA	16	45	653.97	27.9	2	PVS	18	9.6	0	2	11
W-139L	02-APR-91	USAF	MNW	GS	W	NCSA	28	61	654.11	33.2	2	PVS	30	2.5	0	2	11
W-139U	09-APR-91	USAF	MNW	GS	W	NCSA	18	47	653.81	29.5	4	PVS	20	9.6	0	4	11
W-140	28-MAR-91	USAF	MNW	GS	W	NCSA	17	47	653.74	29.3	4	PVS	19	9.75	0	4	11
W-141L	30-MAR-91	USAF	MNW	GS	W	NCSA	26	58	653.5	32	2	PVS	29	2.5	0	2	11
W-141U	01-APR-91	USAF	MNW	GS	W	NCSA	16	45	653.42	28	4	PVS	18	10	0	4	11
W-143	03-APR-91	USAF	MNW	GS	W	NCSA	16	46	649.37	30	2	PVC	17	12.5	0	2	3
W-144	10-APR-91	USAF	MNW	GS	W	NCSA	20	53	657.15	32.8	2	PVC	23	9.5	0	2	3
W-145	11-APR-91	USAF	MNW	GS	W	NCSA	6	24	654.98	18.5	2	PVC	8	9.8	0	2	3
W-146	11-APR-91	USAF	MNW	GS	W	NCSA	16	44	655.02	28	2	PVC	18	9.5	0	2	3
W-147	15-APR-91	USAF	MNW	GS	W	NCSA	18	48	654.41	30	4	PVS	20	9.6	0	4	11
W-148	15-APR-91	USAF	MNW	GS	W	NCSA	19	50	656.42	31	2	PVS	21	9.5	0	2	11
W-149	17-APR-91	USAF	MNW	GS	W	NCSA	45	104	646.92	58.7	2	PVC	48	9.5	0	2	3
W-150L	25-APR-91	USAF	MNW	GS	W	NCSA	29	74	664.75	45.5	2	PVS	30	15	0	2	11
W-150U	16-APR-91	USAF	MNW	GS	W	NCSA	22	53	664.76	31.5	2	PVS	24	7.1	0	2	11
W-151	17-APR-91	USAF	MNW	P	W	NCSA	45	13	646.21	58.8	2	PVC	48	9.8	0	2	0
W-152	27-APR-91	USAF	MNW	P	W	NCSA	23	12	650.88	36.15	2	PVC	25	10	0	2	0

258292

REMARKS	sour
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PERCENT OPEN AREA UNKNOWN.	IRP
PERCENT OPEN AREA UNKNOWN.	IRP

258293

LOCID	INSDATE	WELC	WTCCO	WCMCO	GZCCO	SAQCO	SEDE	FPL	MPELEV	TOTDE	CAS	CMACO	SBDE	SCRLE	SOU	SCR	PCT
W-153	29-APR-91	USAF	MNW	GS	W	NCSA	27	66	631.03	39.4	2	PVC	29	9.5	0	2	3
W-154	29-APR-91	USAF	MNW	GS	W	NCSA	24	67	666.14	42.3	2	PVS	27	14.5	0	2	11
W-155	30-APR-91	USAF	MNW	GS	W	NCSA	13	36	635.61	23	2	PVC	15	7.5	0	2	3
W-156	01-MAY-91	USAF	MNW	GS	W	NCSA	45	103	644.08	58.5	2	PVC	48	9.5	0	2	3
W-157	30-MAY-91	USAF	MNW	GS	W	NCSA	18	50	653.97	31.5	2	PVC	21	9.5	0	2	3
W-158	01-JUN-91	USAF	MNW	GS	W	NCSA	24	62	654.94	37.3	2	PVC	27	9.5	0	2	3
W-159	01-JUN-91	USAF	MNW	GS	W	NCSA	24	61	655.02	37	2	PVC	27	9.5	0	2	3
W-160	02-JUN-91	USAF	MNW	GS	W	NCSA	22	60	654.95	38.5	2	PVC	28	9.5	0	2	3
WP07-10	01-JAN-99	USAF	MNW	P	W	NCSA	0	0	626.7	37.8	2	PVC	0	0	0	2	0
WS-1	01-JAN-10	WHTE	PRW	UN	W	NCSA	0	0	0	0	0	Z	0	0	0	0	0
WS-12	01-JAN-99	PRVT	WSW	UN	C	NCSA	0	0	0	0	0	Z	0	0	0	0	0
WS-2	01-JAN-99	PRVT	PRW	UN	C	NCSA	0	0	0	0	0	Z	0	0	0	0	0
WS-3	01-JAN-10	WHTE	PRW	UN	W	NCSA	0	0	0	0	0	Z	0	0	0	0	0

258294

REMARKS	sour
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AQUIFER KNOWN AS "UPPER ZONE." NO LOGS	IRP
WHITE SETTLEMENT PRODUCTION WELL	IRP
WHITE SETTLEMENT WATER SUPPLY WELL	IRP
WHITE SETTLEMENT WATER SUPPLY WELL	IRP
WHITE SETTLEMENT PRODUCTION WELL	IRP

258295

258296

LOCID	MPELEV
EPA-1	
EPA-2	
EPA-3	
EPA-4	
F-201	
F-209	
FSA3-1	
GMI-01M	0
GMI-02M	0
GMI-03M	0
GMI-04M	0
GMI-05M	0
HM-1	
HM-3A	
HM-3B	
HM-4A	
HM-4B	
HM-6	
HM-83	
HM-85	
OW-1	
OW-2	
P-12U	0
P-13(M)	0
P-13(U)	0
PZ-1	
PZ-6	
PZ-7	
WS-1	0
WS-12	0
WS-2	0
WS-3	0

258297

LOCID	SBDE	SCRLE
FT08-11A	0	0
FT08-11B	0	0
FT09-12A	0	0
LF05-5A	0	0
OW-1		
OW-2		
PZ-1		
PZ-6		
PZ-7		
WP07-10	0	0
WS-1	0	0
WS-12	0	0
WS-2	0	0
WS-3	0	0

258298

LOCID	MaxOfENDDEPTH	TOTDEPTH
F-214	20.5	18.5
F-217	19	18
F-218	36	33
F-221	22	21.5
HM-112	50.75	50.5
HM-115	27.01	27
HM-117	39.51	39.5
HM-120	20	18
HM-122	28.51	28.5
HM-126	37.01	37
HM-14	58	41
HM-15	50	38
HM-20	40	38
HM-25	43	42
HM-37	16	12
HM-86	86	52
HM-90	61.5	59.5
HM-93	37.01	37
HM-94	121	59
P-28U	94	90.4
P-31U	100	92.5
USGS02T	48	30.5
USGS04T	26.5	26
W-128U	24.5	23.3
W-133L	33	32
W-133U	20.75	20.1
W-134	17.75	17
W-137	28.7	27.9
W-141U	29	28
W-158	37.8	37.3

258299

LOCID
DOCK-17
F-200
F-203
F-204
F-207
F-208
F-209
F-211
F-212
F-213
F-214
F-215
F-216
F-217
F-218
F-219
F-220
F-221
FSA-3-01
FSA-3-02
FSA-3-03
FSA-3-04
FSA-3-06
FSA-3-07
FSA-3-08
FSA-3-10
FSA-3-12
FSA-3-14
FSA-3-15
FSA-3-16
FSA-3-17
FT08-11A
FT08-11B
FT09-12A
FT09-12B
HM-10
HM-100
HM-101
HM-102
HM-103
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258300

LOCID
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258371

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LF04-02
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LF04-4B
LF04-4C
LF04-4G
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LF05-02
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LF05-5B
LF05-5E
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P-15U
P-15UN
P-15US
P-16US
P-17US
P-18US
P-19US
P-20M
P-21U
P-22M
P-22U

258302

LOCID
P-23U
P-24M
P-24U
P-25M
P-25U
P-26M
P-27U
P-28U
P-29M
P-30M
P-31U
P-5M
P-5UN
P-6M
P-6U
P-7M
P-7U
P-8M
P-8UN
P-8US
P-9M
P-9UN
P-9US
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P1M
P1U
P2L
P2M
P2U
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W-133L
W-133U
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W-139U
W-140L
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W-145
W-146
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W-150L
W-150U
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W-157

LOCID
W-158
W-159
W-160
W-162
W-163
W-164
WP07-10A
WS-12
WS-2

258304

LOCID Field	LOGDATE Field	LOGTIME Field	NumberOfDups
DOCK-17	5/5/93	1530	2
F-200	5/14/93	941	2
F-203	6/13/93	1532	2
F-204	6/14/93	847	2
F-207	6/9/93	818	2
F-208	5/13/93	950	2
F-209	6/11/93	1332	2
F-211	6/11/93	946	2
F-212	5/13/93	1050	2
F-213	5/9/93	1511	2
F-213	5/13/93	1050	2
F-214	6/14/93	1004	2
F-215	6/9/93	1006	2
F-216	6/6/93	1432	2
F-216	5/18/94	1419	2
F-217	6/6/93	1330	2
F-218	10/24/92	1610	2
F-218	6/13/93	1107	2
F-218	10/6/93	1423	2
F-218	10/6/93	1510	2
F-218	5/22/94	1215	2
F-219	5/10/93	1009	2
F-219	10/8/93	936	2
F-219	5/20/94	945	2
F-220	6/3/93	1530	2
F-221	5/20/93	1510	2
FSA-3-01	6/6/93	957	2
FSA-3-02	6/13/93	811	2
FSA-3-03	6/7/93	1420	2
FSA-3-04	6/7/93	1027	2
FSA-3-06	6/8/93	1003	2
FSA-3-07	6/8/93	1412	2
FSA-3-08	6/7/93	1247	2
FSA-3-10	6/9/93	900	2
FSA-3-12	6/6/93	1512	2
FSA-3-14	6/6/93	1037	2
FSA-3-15	6/6/93	1349	2
FSA-3-16	6/8/93	725	2
FSA-3-17	6/8/93	753	2
FT08-11A	2/3/92	1226	2
FT08-11A	5/19/93	1344	2
FT08-11B	2/3/92	1015	2
FT08-11B	5/19/93	1437	2
FT09-12A	1/30/92	1140	2
FT09-12A	5/19/93	1002	2
FT09-12B	5/19/93	1100	2
HM-10	6/6/93	850	2
HM-100	4/26/92	1230	2
HM-100	10/22/92	1207	2
HM-100	5/5/93	1013	2
HM-101	5/4/93	1031	2
HM-102	5/5/93	1525	2
HM-103	10/24/92	1050	2
HM-104	4/25/92	1320	2
HM-104	10/22/92	1448	2
HM-104	5/6/93	1715	2
HM-104	10/7/93	935	2
HM-104	5/17/94	1603	2
HM-105	5/13/13	1315	2
HM-106	5/13/93	1052	2
HM-107	5/7/13	1537	2
HM-108	5/7/93	1435	2

LOCID Field	LOGDATE Field	LOGTIME Field	NumberOfDups
HM-11	5/27/93	1044	2
HM-110	7/28/92	700	2
HM-110	10/26/92	1335	2
HM-110	6/2/93	1550	2
HM-110	10/8/93	1427	2
HM-110	5/20/94	1434	2
HM-111	6/2/93	1410	2
HM-112	7/28/92	830	2
HM-112	6/3/93	1015	2
HM-113	6/10/93	1454	2
HM-114	10/27/92	1125	2
HM-114	5/23/93	1420	2
HM-115	5/23/93	1550	2
HM-116	10/27/92	951	2
HM-116	5/25/93	1310	2
HM-117	5/25/93	955	2
HM-118	1/31/92	1500	2
HM-118	5/25/93	830	2
HM-119	1/31/92	1313	2
HM-119	10/27/92	835	2
HM-119	5/21/93	940	2
HM-119	10/11/93	1408	2
HM-119	5/23/94	913	2
HM-12	5/18/93	1442	2
HM-120	4/27/92	1030	2
HM-120	10/23/92	830	2
HM-120	5/21/93	800	2
HM-120	10/11/93	1211	2
HM-120	5/23/94	1016	2
HM-121	4/27/92	1300	2
HM-121	5/26/93	850	2
HM-122	5/21/93	1605	2
HM-123	5/21/93	1440	2
HM-124	5/20/93	1058	2
HM-125	1/31/92	1627	2
HM-125	10/23/92	1005	2
HM-125	5/20/93	1420	2
HM-125	10/11/93	1317	2
HM-125	5/23/94	1111	2
HM-126	6/10/93	1041	2
HM-127	10/23/92	1153	2
HM-127	5/19/93	1543	2
HM-127	10/11/93	1452	2
HM-127	5/23/94	1246	2
HM-13	5/5/93	1350	2
HM-14	5/4/93	527	2
HM-15	6/2/93	1400	2
HM-16	6/2/93	1503	2
HM-17	5/27/93	744	2
HM-18	5/9/93	1048	2
HM-18	5/21/94	941	2
HM-19	5/9/93	940	2
HM-2	5/11/93	1910	2
HM-20	5/23/93	1300	2
HM-21	6/8/93	922	2
HM-22	5/3/93	1616	2
HM-23	5/4/93	855	2
HM-24	4/28/92	1350	2
HM-24	10/24/92	913	2
HM-24	5/5/93	900	2
HM-25	6/13/93	1545	2
HM-26	6/7/93	1455	2

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LOCID Field	LOGDATE Field	LOGTIME Field	NumberOfDups
HM-27	6/8/93	817	2
HM-28	6/14/93	900	2
HM-30	4/26/92	1005	2
HM-30	10/22/92	1045	2
HM-30	6/2/93	1050	2
HM-31	4/25/92	1625	2
HM-31	10/26/92	740	2
HM-31	10/7/93	1039	2
HM-31	5/20/94	821	2
HM-32	5/8/93	910	2
HM-33	5/6/93	1430	2
HM-34	5/12/93	1119	2
HM-35	5/12/93	955	2
HM-36	5/6/93	1618	2
HM-38	6/14/93	1400	2
HM-39	5/11/93	1650	2
HM-40	5/4/93	1604	2
HM-41	5/5/93	850	2
HM-42	5/4/93	1435	2
HM-43	5/4/93	911	2
HM-44	5/4/93	927	2
HM-46	5/5/93	1025	2
HM-47	5/27/93	837	2
HM-48	5/7/93	1115	2
HM-49	5/9/93	1615	2
HM-5	5/6/93	1025	2
HM-50	5/13/93	1550	2
HM-51	6/6/93	1540	2
HM-53	6/11/93	830	2
HM-55	5/13/93	1650	2
HM-57	5/14/93	1631	2
HM-58	5/18/93	1335	2
HM-60	6/7/93	830	2
HM-61	5/10/93	1412	2
HM-62	5/9/93	1135	2
HM-64	5/8/93	1015	2
HM-65	5/9/93	927	2
HM-66	5/9/93	1109	2
HM-68	5/25/93	1547	2
HM-69	5/14/93	1318	2
HM-69	10/7/93	1322	2
HM-69	5/19/94	1018	2
HM-7	6/6/93	958	2
HM-70	5/26/93	1618	2
HM-71	5/27/93	1310	2
HM-72	5/22/93	1448	2
HM-73	5/13/93	1205	2
HM-74	5/13/93	940	2
HM-75	5/10/93	1554	2
HM-76	5/10/93	1116	2
HM-77	5/8/93	926	2
HM-79	5/17/93	1514	2
HM-8	5/6/93	1452	2
HM-80	5/12/93	1707	2
HM-81	5/11/93	1745	2
HM-82	5/25/93	911	2
HM-84	5/5/93	1318	2
HM-86	5/25/93	748	2
HM-87	6/5/93	850	2
HM-88	5/24/93	1424	2
HM-88	10/9/93	1132	2
HM-88	5/24/94	820	2

258307

LOCID Field	LOGDATE Field	LOGTIME Field	NumberOfDups
HM-89	5/24/93	1312	2
HM-9	5/6/93	1310	2
HM-90	5/21/93	1416	2
HM-92	5/15/93	816	2
HM-93	5/22/93	1010	2
HM-93	10/9/93	1013	2
HM-93	5/20/94	1257	2
HM-94	5/26/93	900	2
HM-95	5/27/93	800	2
HM-96	5/27/93	1007	2
HM-97	5/26/93	1505	2
HM-98	2/1/92	1455	2
HM-98	5/26/93	1340	2
HM-98	10/9/93	1441	2
HM-99	10/25/92	1133	2
HM-99	5/27/93	925	2
LF04-01	1/30/92	1430	2
LF04-01	5/19/93	806	2
LF04-02	2/4/92	836	2
LF04-02	5/22/93	1015	2
LF04-04	2/3/92	1506	2
LF04-04	5/22/93	1120	2
LF04-10	5/18/93	1330	2
LF04-4A	5/18/93	837	2
LF04-4B	5/18/93	917	2
LF04-4C	5/18/93	1040	2
LF04-4G	5/23/93	915	2
LF05-01	5/19/93	1651	2
LF05-02	5/20/93	915	2
LF05-14	5/23/93	1040	2
LF05-18	5/22/93	910	2
LF05-19	2/4/92	1017	2
LF05-19	10/23/92	1457	2
LF05-19	5/18/93	1442	2
LF05-19	10/10/93	1042	2
LF05-19	5/22/94	950	2
LF05-5A	2/3/92	812	2
LF05-5A	5/21/93	1342	2
LF05-5B	5/18/93	1600	2
LF05-5E	5/21/93	1115	2
P-10M	4/23/92	935	2
P-10M	10/21/92	1310	2
P-10M	5/11/93	1354	2
P-10M	10/5/93	950	2
P-10M	5/19/94	1409	2
P-10U	5/11/93	1330	2
P-10U	1/24/94	1347	2
P-11M	10/19/92	1427	2
P-11M	5/19/93	754	2
P-11M	6/11/93	1345	2
P-11M	10/6/93	1138	2
P-11M	5/18/94	837	2
P-11U	7/26/92	835	2
P-11U	5/19/93	953	2
P-11U	6/10/93	1121	2
P-12M	1/28/92	1030	2
P-12M	4/25/92	915	2
P-12M	1/19/93	1555	2
P-12M	5/9/93	1700	2
P-12M	1/20/94	1100	2
P-12UN	7/23/92	642	2
P-12UN	1/23/93	1520	2

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LOCID Field	LOGDATE Field	LOGTIME Field	NumberOfDups
P-12UN	5/9/93	1722	2
P-12UN	1/20/94	1010	2
P-12US	1/28/92	1352	2
P-12US	1/23/93	1437	2
P-12US	5/9/93	1717	2
P-12US	1/20/94	1145	2
P-13M	7/22/92	1008	2
P-13M	5/21/93	921	2
P-13U	7/22/92	1245	2
P-13U	1/25/93	952	2
P-13U	5/21/93	738	2
P-13U	1/19/94	1522	2
P-14U	5/21/93	1247	2
P-14US	2/2/92	1116	2
P-14US	7/27/92	1348	2
P-14US	1/24/93	933	2
P-14US	5/24/93	1130	2
P-14US	1/22/94	1523	2
P-15U	1/23/93	1210	2
P-15U	5/21/93	1323	2
P-15U	1/22/94	1215	2
P-15UN	7/26/92	643	2
P-15US	1/29/92	1105	2
P-15US	5/23/93	1022	2
P-16US	1/31/92	1010	2
P-16US	7/26/92	1331	2
P-16US	1/25/93	810	2
P-16US	5/23/93	815	2
P-16US	1/23/94	928	2
P-17US	1/29/92	1457	2
P-17US	1/21/93	1437	2
P-17US	1/18/94	1210	2
P-18US	1/29/92	1600	2
P-18US	7/24/92	653	2
P-18US	1/21/93	1535	2
P-18US	5/26/93	1027	2
P-18US	1/18/94	1305	2
P-19US	1/30/92	825	2
P-19US	4/27/92	815	2
P-19US	7/27/92	1200	2
P-19US	1/24/93	1138	2
P-19US	6/3/93	1139	2
P-19US	10/9/93	1538	2
P-19US	1/22/94	1632	2
P-20M	7/22/92	700	2
P-20M	10/20/92	1117	2
P-20M	1/20/93	0	2
P-20M	5/3/93	1630	2
P-20M	10/5/93	1424	2
P-20M	1/18/94	1610	2
P-20M	5/17/94	1346	2
P-21U	7/26/92	930	2
P-21U	5/5/93	1142	2
P-22M	2/5/92	1209	2
P-22M	4/21/92	945	2
P-22M	1/19/93	901	2
P-22M	5/10/93	1650	2
P-22M	1/24/94	1032	2
P-22U	5/10/93	1707	2
P-23U	7/25/92	953	2
P-23U	5/12/93	1046	2
P-24M	2/5/92	830	2

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LOCID Field	LOGDATE Field	LOGTIME Field	NumberOfDups
P-24M	2/5/92	838	2
P-24M	7/24/92	1100	2
P-24M	5/11/93	924	2
P-24U	7/24/92	905	2
P-24U	1/23/93	857	2
P-24U	5/11/93	904	2
P-24U	1/25/94	825	2
P-25M	4/23/92	1308	2
P-25M	7/21/92	730	2
P-25M	10/20/92	1500	2
P-25M	5/7/93	845	2
P-25M	10/6/93	914	2
P-25U	7/21/92	1000	2
P-25U	1/25/93	1225	2
P-25U	5/7/93	1015	2
P-25U	1/21/94	1335	2
P-26M	4/22/92	1437	2
P-26M	5/9/93	1400	2
P-27U	7/25/92	803	2
P-27U	1/26/93	810	2
P-27U	5/26/93	740	2
P-27U	1/25/94	1119	2
P-28U	5/13/93	1515	2
P-29M	7/23/92	925	2
P-29M	10/21/92	754	2
P-29M	1/18/93	1630	2
P-29M	5/12/93	1615	2
P-29M	10/5/93	1111	2
P-29M	1/19/94	1225	2
P-29M	5/18/94	1230	2
P-30M	4/24/92	1303	2
P-30M	10/22/92	806	2
P-30M	5/12/93	1143	2
P-30M	10/6/93	1011	2
P-30M	5/19/94	825	2
P-31U	5/19/93	1637	2
P-5M	4/22/92	800	2
P-5M	7/21/92	1628	2
P-5M	5/17/93	1057	2
P-5M	6/3/93	1531	2
P-5UN	5/18/93	740	2
P-6M	2/4/92	1526	2
P-6M	4/22/92	1055	2
P-6M	1/21/93	855	2
P-6M	5/8/93	1310	2
P-6M	1/21/94	953	2
P-6U	1/21/93	1006	2
P-6U	5/12/93	815	2
P-6U	1/25/94	952	2
P-7M	5/6/93	930	2
P-7U	1/22/93	845	2
P-7U	6/10/93	737	2
P-7U	5/21/94	725	2
P-8M	5/22/93	746	2
P-8UN	1/23/93	1105	2
P-8UN	6/9/93	1455	2
P-8UN	1/22/94	1050	2
P-8US	2/2/92	1407	2
P-8US	1/23/93	1032	2
P-8US	6/9/93	1423	2
P-8US	1/22/94	1137	2
P-9M	1/20/93	1346	2

TABLE A24 Duplicate Record Count for given LOCID in GWD Table

LOCID Field	LOGDATE Field	LOGTIME Field	NumberOfDups
P-9M	5/20/93	723	2
P-9M	1/19/94	902	2
P-9UN	7/27/92	725	2
P-9UN	1/25/93	1400	2
P-9UN	5/20/93	1038	2
P-9UN	1/22/94	931	2
P-9US	2/2/92	916	2
P-9US	7/27/92	900	2
P-9US	1/26/93	1318	2
P-9US	6/8/93	1420	2
P-9US	1/22/94	833	2
W-128L	5/19/93	1453	2
W-129	5/11/93	1425	2
W-130	6/14/93	921	2
W-131L	6/4/93	900	2
W-131U	6/4/93	920	2
W-132	5/11/93	1504	2
W-133L	6/4/93	1341	2
W-133U	6/4/93	1350	2
W-134	5/13/93	1355	2
W-135	5/12/93	1532	2
W-136	5/9/93	1737	2
W-137	5/7/93	928	2
W-139L	6/10/93	1528	2
W-139U	6/13/93	1250	2
W-140L	6/10/93	1428	2
W-141L	6/11/93	1455	2
W-141U	6/10/93	830	2
W-143	5/13/93	1518	2
W-144	6/4/93	1615	2
W-145	5/7/93	1459	2
W-146	5/9/93	1841	2
W-147	5/10/93	1719	2
W-148	6/10/93	1055	2
W-149	5/26/93	1025	2
W-149	10/8/93	1109	2
W-149	5/22/94	823	2
W-150L	6/2/93	1610	2
W-150U	6/2/93	1705	2
W-151	10/24/92	1330	2
W-151	5/25/93	1031	2
W-152	10/25/02	832	2
W-152	5/20/93	917	2
W-153	5/25/93	1450	2
W-154	6/3/93	1205	2
W-155	5/27/93	1040	2
W-156	5/27/93	1417	2
W-157	5/12/93	1740	2
W-157	10/7/93	1141	2
W-158	6/6/93	735	2
W-159	6/5/93	1125	2
W-160	6/5/93	946	2
W-162	6/4/93	719	2
W-163	6/4/93	828	2
W-164	6/4/93	1028	2
WS-12	1/18/94	915	2
WS-2	12/9/93	1443	2
WS-2	1/18/94	830	2

LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
DOCK-17	5/5/93	JEG	1530	4.21					43.67	IRP
F-200	5/14/93	JEG	941	14.71					27.95	IRP
F-203	6/13/93	JEG	1532	22.87					29.65	IRP
F-204	6/14/93	JEG	847	19.76					25.12	IRP
F-207	6/9/93	JEG	818	23.91					34.28	IRP
F-208	5/13/93	JEG	950	12.48					20.75	IRP
F-209	6/11/93	JEG	1332	14.29					17.29	IRP
F-211	6/11/93	JEG	946	22.66					33.75	IRP
F-212	5/13/93	JEG	1050	12.44					24.9	IRP
F-213	5/9/93	JEG	1511	5.55					11.42	IRP
F-213	5/13/93	JEG	1050	5.55					11.42	IRP
F-214	6/14/93	JEG	1004	15.46					21.77	IRP
F-215	6/9/93	JEG	1006	20.58					33.45	IRP
F-216	6/6/93	JEG	1432	14.41					25.77	IRP
F-216	5/18/94	JEG	1419	15.58	0	0	0		25.77	IRP
F-217	6/6/93	JEG	1330	8.28					18.45	IRP
F-218	10/19/91	JEG	900	27.82					32.22	IRP
F-218	10/24/92	JEG	1610	24.45					32.22	IRP
F-218	6/13/93	JEG	1107	24					32.12	IRP
F-218	10/6/93	JEG	1423	26.47	0	0	0		32.22	IRP
F-218	10/6/93	JEG	1510	26.47	0	0	0		32.22	IRP
F-218	5/22/94	JEG	1215	27.38	0	0	0		32.11	IRP
F-218	11/2/94	JEG	740	28.21	0.0	0.00	0.00		32.21	JCB
F-219	5/10/93	JEG	1009	14.86					33.9	IRP
F-219	10/8/93	JEG	936	15.33	0	0	0		33.9	IRP
F-219	5/20/94	JEG	945	15.45	0	0	0		33.78	IRP
F-219	10/31/94	JEG	955	15.72	0.0	0.00	0.00		33.8	JCB
F-220	6/3/93	JEG	1530	28.5					33.23	IRP
F-221	5/20/93	JEG	1510	13.73					20.75	IRP
FSA-3-01	6/6/93	JEG	957	14.17					19.77	IRP
FSA-3-02	6/13/93	JEG	811	14.37					20.08	IRP
FSA-3-03	6/7/93	JEG	1420	7.46					17.72	IRP
FSA-3-04	6/7/93	JEG	1027	5.62					14.53	IRP
FSA-3-06	6/8/93	JEG	1003	6.96					13.04	IRP
FSA-3-07	6/8/93	JEG	1412	11.34					16.64	IRP
FSA-3-08	6/7/93	JEG	1247	8.09					13.5	IRP
FSA-3-10	6/9/93	JEG	900	14.08					19.7	IRP
FSA-3-12	6/6/93	JEG	1512	14.55					18.82	IRP
FSA-3-14	6/6/93	JEG	1037	4.78					9.44	IRP
FSA-3-15	6/6/93	JEG	1349	5.11					9.31	IRP
FSA-3-16	6/8/93	JEG	725	4.89					9.19	IRP
FSA-3-17	6/8/93	JEG	753	6.23					9.44	IRP
FT08-11A	2/3/92	JEG	1226	9.34					17.58	IRP

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LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
FT08-11A	5/19/93	JEG	1344	11.35					17.6	IRP
FT08-11B	2/3/92	JEG	1015	7.3					17.08	IRP
FT08-11B	5/19/93	JEG	1437	8.28					17.09	IRP
FT09-12A	1/30/92	JEG	1140	12.98					27.8	IRP
FT09-12A	5/19/93	JEG	1002	16.75					27.78	IRP
FT09-12B	5/19/93	JEG	1100	28.48					37.7	IRP
HM-10	6/6/93	JEG	850	10.63					20.57	IRP
HM-100	4/26/92	JEG	1230	30.8					47.62	IRP
HM-100	10/22/92	JEG	1207	34.07					47.46	IRP
HM-100	5/5/93	JEG	1013	32.31					47.25	IRP
HM-101	5/4/93	JEG	1031	16.18					44.85	IRP
HM-102	5/5/93	JEG	1525	19.45					32.66	IRP
HM-103	10/24/92	JEG	1050	24.25					39	IRP
HM-104	4/25/92	JEG	1320	21.75					38.33	IRP
HM-104	10/22/92	JEG	1448	22.76					38.34	IRP
HM-104	5/6/93	JEG	1715	21.65					38.32	IRP
HM-104	10/7/93	JEG	935	25.8	0	0	0		38.4	IRP
HM-104	5/17/94	JEG	1603	26.83	0	0	0		38.37	IRP
HM-104	11/2/94	JEG	1402	24.21	0.0	0.00	0.00		38.38	JCB
HM-105	5/13/13	JEG	1315	13.88					20.5	IRP
HM-106	5/13/93	JEG	1052	30.22					30.88	IRP
HM-107	5/7/13	JEG	1537	16.08					25.3	IRP
HM-108	5/7/93	JEG	1435	14.62					15	IRP
HM-11	5/27/93	JEG	1044	10.59					34.51	IRP
HM-110	7/28/92	JEG	700	19.47					35.2	IRP
HM-110	10/26/92	JEG	1335	19.78					35.19	IRP
HM-110	6/2/93	JEG	1550	19.12					35.24	IRP
HM-110	10/8/93	JEG	1427	23.68	0	0	0		35.31	IRP
HM-110	5/20/94	JEG	1434	23.03	0	0	0		35.24	IRP
HM-110	10/30/94	JEG	1556	24.87	0.0	0.00	0.00		35.34	JCB
HM-111	6/2/93	JEG	1410	19.07					48.6	IRP
HM-112	7/28/92	JEG	830	18.5					50.75	IRP
HM-112	6/3/93	JEG	1015	18.83					48.54	IRP
HM-113	6/10/93	JEG	1454	22.41					45.58	IRP
HM-114	10/27/92	JEG	1125	15.21					35.62	IRP
HM-114	5/23/93	JEG	1420	13.77					35.73	IRP
HM-115	5/23/93	JEG	1550	10.75					27	IRP
HM-116	10/27/92	JEG	951	20.04					31.1	IRP
HM-116	5/25/93	JEG	1310	18.43					31.44	IRP
HM-117	5/25/93	JEG	955	18.47					38.49	IRP
HM-118	1/31/92	JEG	1500	13.9					26.26	IRP
HM-118	5/25/93	JEG	830	12.76					26.36	IRP
HM-119	1/31/92	JEG	1313	12.02					28.75	IRP

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LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
HM-119	10/27/92	JEG	835	12.14					28.81	IRP
HM-119	5/21/93	JEG	940	10.25					28.9	IRP
HM-119	10/11/93	JEG	1408	12.42	0	0	0		28.85	IRP
HM-119	5/23/94	JEG	913	11.83	0	0	0		28.72	IRP
HM-119	11/1/94	JEG	1042	12.59	0.0	0.00	0.00		28.83	JCB
HM-12	5/18/93	JEG	1442	11.57					33.28	IRP
HM-120	4/27/92	JEG	1030	4.21					17.56	IRP
HM-120	10/23/92	JEG	830	5.5					17.55	IRP
HM-120	5/21/93	JEG	800	3.5					17.6	IRP
HM-120	10/11/93	JEG	1211	6.12	0	0	0		17.55	IRP
HM-120	5/23/94	JEG	1016	3.42	0	0	0		17.47	IRP
HM-120	11/1/94	JEG	933	5.36	0.0	0.00	0.00		17.54	JCB
HM-121	4/27/92	JEG	1300	16.76					30.18	IRP
HM-121	5/26/93	JEG	850	15.39					30.24	IRP
HM-122	5/21/93	JEG	1605	17.55					27.79	IRP
HM-123	10/25/91	JEG	1200	26.88					38.1	IRP
HM-123	5/21/93	JEG	1440	23.93					38.37	IRP
HM-124	5/20/93	JEG	1058	11.99					24.53	IRP
HM-125	1/31/92	JEG	1627	15.46					33.01	IRP
HM-125	10/23/92	JEG	1005	15.52					33.02	IRP
HM-125	5/20/93	JEG	1420	13.72					33.05	IRP
HM-125	10/11/93	JEG	1317	16.07	0	0	0		33.03	IRP
HM-125	5/23/94	JEG	1111	16.33	0	0	0		32.96	IRP
HM-125	11/1/94	JEG	1147	16.88	0.0	0.00	0.00		33	JCB
HM-126	6/10/93	JEG	1041	10.48					35.75	IRP
HM-127	10/25/91	JEG	1015	25.46					37.78	IRP
HM-127	10/23/92	JEG	1153	23.65					37.75	IRP
HM-127	5/19/93	JEG	1543	22.32					37.8	IRP
HM-127	10/11/93	JEG	1452	24.62	0	0	0		37.77	IRP
HM-127	5/23/94	JEG	1246	23.6	0	0	0		37.64	IRP
HM-127	11/1/94	JEG	1307	24.5	0.0	0.00	0.00		37.41	JCB
HM-13	5/5/93	JEG	1350	22.17					30.15	IRP
HM-14	5/4/93	JEG	527	26.44					38.38	IRP
HM-15	6/2/93	JEG	1400	29.35					32.62	IRP
HM-16	6/2/93	JEG	1503	24.16					43.68	IRP
HM-17	5/27/93	JEG	744	15.88					35.96	IRP
HM-18	5/9/93	JEG	1048	20.1					36	IRP
HM-18	5/21/94	JEG	941	21.92	0	0	0		35.4	IRP
HM-19	5/9/93	JEG	940	9.92					24	IRP
HM-2	5/11/93	JEG	1910	21.77					35.34	IRP
HM-20	5/23/93	JEG	1300	19.12					32.04	IRP
HM-21	6/8/93	JEG	922	6.82					15.7	IRP
HM-22	5/3/93	JEG	1616	16.09					52.62	IRP

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LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
HM-23	5/4/93	JEG	855	31.74					47.55	IRP
HM-24	4/28/92	JEG	1350	18.23					41.59	IRP
HM-24	10/24/92	JEG	913	14.87					41.6	IRP
HM-24	5/5/93	JEG	900	14.17					41.6	IRP
HM-24	10/31/94	JEG	1405	14.23	0.0	0.00	0.00		41.59	JCB
HM-25	6/13/93	JEG	1545	16.21					38.6	IRP
HM-26	6/7/93	JEG	1455	4.37					17.77	IRP
HM-27	6/8/93	JEG	817	4.06					16.38	IRP
HM-28	6/14/93	JEG	900	23.39					42.5	IRP
HM-29	5/23/93	JEG	1407	25.26					44.14	JCB
HM-30	4/26/92	JEG	1005	29.23					51.85	IRP
HM-30	10/22/92	JEG	1045	32.03					51.83	IRP
HM-30	6/2/93	JEG	1050	30.99					51.96	IRP
HM-31	4/25/92	JEG	1625	11.08					38.83	IRP
HM-31	10/26/92	JEG	740	11.61					38.82	IRP
HM-31	6/5/93	JEG	1035	11.25					39.01	JCB
HM-31	10/7/93	JEG	1039	12.6	0	0	0		39.5	IRP
HM-31	5/20/94	JEG	821	11.66	0	0	0		39.44	IRP
HM-31	11/2/94	JEG	902	12.46	0.0	0.00	0.00		38.89	JCB
HM-32	5/8/93	JEG	910	28.42					45.8	IRP
HM-33	5/6/93	JEG	1430	15.83					27	IRP
HM-34	5/12/93	JEG	1119	8.65					22.41	IRP
HM-35	5/12/93	JEG	955	8.02					20.78	IRP
HM-36	5/6/93	JEG	1618	6.24					15.8	IRP
HM-38	6/14/93	JEG	1400	20.14					21.98	IRP
HM-39	5/11/93	JEG	1650	8.8					16.58	IRP
HM-40	5/4/93	JEG	1604	30.9					44.86	IRP
HM-41	5/5/93	JEG	850	30.15					45.54	IRP
HM-42	5/4/93	JEG	1435	26.78					46.07	IRP
HM-43	5/4/93	JEG	911	16.86					23.85	IRP
HM-44	5/4/93	JEG	927	25.88					30.03	IRP
HM-46	5/5/93	JEG	1025	22.66					33.8	IRP
HM-47	5/27/93	JEG	837	19.04					26.12	IRP
HM-48	10/20/91	JEG	900	15.81					33	IRP
HM-48	5/7/93	JEG	1115	10.95					27.28	IRP
HM-49	5/9/93	JEG	1615	5.48					10.75	IRP
HM-5	5/6/93	JEG	1025	11.15					33.5	IRP
HM-50	5/13/93	JEG	1550	6.57					14	IRP
HM-51	6/6/93	JEG	1540	7.3					18.03	IRP
HM-52	5/7/93	JEG	1805	14.4					23.22	JCB
HM-53	6/11/93	JEG	830	20.56					36.1	IRP
HM-54	5/28/93	JEG	923	11.66					25.28	JCB
HM-55	5/13/93	JEG	1650	19.75					32.6	IRP

258314

LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
HM-57	5/14/93	JEG	1631	11.14					28.24	IRP
HM-58	5/18/93	JEG	1335	9.71					27.41	IRP
HM-60	6/7/93	JEG	830	20.61					36.71	IRP
HM-61	5/10/93	JEG	1412	8.92					24.54	IRP
HM-62	5/9/93	JEG	1135	22.76					32	IRP
HM-64	5/8/93	JEG	1015	21.2					32	IRP
HM-65	5/9/93	JEG	927	6.32					15.24	IRP
HM-66	5/9/93	JEG	1109	4.04					19.96	IRP
HM-68	5/25/93	JEG	1547	21.88					35.08	IRP
HM-69	5/14/93	JEG	1318	13.75					36.59	IRP
HM-69	10/7/93	JEG	1322	13.74	0	0	0		36.55	IRP
HM-69	5/19/94	JEG	1018	11.16	0	0	0		36.55	IRP
HM-69	10/25/94	JEG	1535	3.52	0.0	0.00	0.00		36.54	JCB
HM-7	6/6/93	JEG	958	8.37					14.12	IRP
HM-70	5/26/93	JEG	1618	23.09					46.01	IRP
HM-71	5/27/93	JEG	1310	24.61					41.67	IRP
HM-72	5/22/93	JEG	1448	7.38					39.2	IRP
HM-73	5/13/93	JEG	1205	12.37					43.4	IRP
HM-74	5/13/93	JEG	940	20.5					38.67	IRP
HM-75	5/10/93	JEG	1554	10.74					29.04	IRP
HM-76	5/10/93	JEG	1116	10.9					33.4	IRP
HM-77	5/8/93	JEG	926	19.36					33.24	IRP
HM-79	5/17/93	JEG	1514	23.14					40.65	IRP
HM-8	5/6/93	JEG	1452	31.62					45	IRP
HM-80	5/12/93	JEG	1707	7.5					28.94	IRP
HM-81	5/11/93	JEG	1745	11.16					25.8	IRP
HM-82	5/25/93	JEG	911	26.36					50.18	IRP
HM-84	5/5/93	JEG	1318	3.89					5.6	IRP
HM-86	5/25/93	JEG	748	23.97					52.26	IRP
HM-87	6/5/93	JEG	850	20.6					39.91	IRP
HM-88	5/24/93	JEG	1424	21.17					46.29	IRP
HM-88	10/9/93	JEG	1132	28.96	0	0	0		46.3	IRP
HM-88	5/24/94	JEG	820	29.84	0	0	0		46.23	IRP
HM-88	10/31/94	JEG	1232	32.97	0.0	0.00	0.00		46.26	JCB
HM-89	5/24/93	JEG	1312	25.12					50.6	IRP
HM-9	5/6/93	JEG	1310	3.56					7	IRP
HM-90	5/21/93	JEG	1416	29.54					58.19	IRP
HM-91	6/4/93	JEG	1346	29.37					60.28	JCB
HM-92	5/15/93	JEG	816	25.32					61.5	IRP
HM-93	5/22/93	JEG	1010	26.14					39.72	IRP
HM-93	10/9/93	JEG	1013	28.09	0	0	0		39.73	IRP
HM-93	5/20/94	JEG	1257	28.57	0	0	0		39.68	IRP
HM-93	10/31/94	JEG	815	28.61	0.0	0.00	0.00		39.75	JCB

LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
HM-94	5/26/93	JEG	900	28.76					60.28	IRP
HM-95	5/27/93	JEG	800	25.13					44.4	IRP
HM-96	5/27/93	JEG	1007	25.86					54.88	IRP
HM-97	5/26/93	JEG	1505	25.71					49.1	IRP
HM-98	2/1/92	JEG	1455	24.72					28	IRP
HM-98	5/26/93	JEG	1340	22.83					28.23	IRP
HM-98	10/9/93	JEG	1441	24.45	0	0	0		28.32	IRP
HM-98	10/30/94	JEG	1650	24.82	0.0	0.00	0.00		28.49	JCB
HM-99	10/25/91	JEG	1430	30.25					43.1	IRP
HM-99	10/25/92	JEG	1133	27.5					43	IRP
HM-99	5/27/93	JEG	925	26.11					43.1	IRP
LF04-01	1/30/92	JEG	1430	27.82					41.34	IRP
LF04-01	5/19/93	JEG	806	28.86					41.41	IRP
LF04-02	10/27/91	JEG	930	29.08					37.5	IRP
LF04-02	2/4/92	JEG	836	25.88					39.15	IRP
LF04-02	5/22/93	JEG	1015	26.46					38.86	IRP
LF04-04	10/27/91	JEG	1250	18.79					27.03	IRP
LF04-04	2/3/92	JEG	1506	16.58					27	IRP
LF04-04	5/22/93	JEG	1120	17.14					27.02	IRP
LF04-10	5/18/93	JEG	1330	20.79					47.7	IRP
LF04-4A	5/18/93	JEG	837	10.58					24.8	IRP
LF04-4B	5/18/93	JEG	917	19.76					25.31	IRP
LF04-4C	5/18/93	JEG	1040	16.7					27.99	IRP
LF04-4G	5/23/93	JEG	915	23.98					33.4	IRP
LF05-01	10/28/91	JEG	1130	18.27					27.48	IRP
LF05-01	5/19/93	JEG	1651	16.92					27.66	IRP
LF05-02	5/20/93	JEG	915	24.55					30	IRP
LF05-14	5/23/93	JEG	1040	8.66					9.67	IRP
LF05-18	5/22/93	JEG	910	17.94					23.56	IRP
LF05-19	2/4/92	JEG	1017	12.46					19.61	IRP
LF05-19	10/23/92	JEG	1457	13.62					19.59	IRP
LF05-19	5/18/93	JEG	1442	12.88					19.49	IRP
LF05-19	10/10/93	JEG	1042	14.23	0	0	0		19.58	IRP
LF05-19	5/22/94	JEG	950	14.09	0	0	0		19.44	IRP
LF05-19	11/3/94	JEG	812	14.68	0.0	0.00	0.00		19.5	JCB
LF05-5A	10/27/91	JEG	1720	24.46					30.31	IRP
LF05-5A	2/3/92	JEG	812	21.23					30.41	IRP
LF05-5A	5/21/93	JEG	1342	22.54					30.35	IRP
LF05-5B	5/18/93	JEG	1600	3.48					12.49	IRP
LF05-5E	5/21/93	JEG	1115	26.49					36.08	IRP
P-10M	10/21/91	JEG	1450	52.91					134	IRP
P-10M	4/23/92	JEG	935	51.81					134	IRP
P-10M	10/21/92	JEG	1310	51.69					134	IRP

258316

LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
P-10M	5/11/93	JEG	1354	50.85					127.6	IRP
P-10M	10/5/93	JEG	950	51.53	0	0	0		127.6	IRP
P-10M	5/19/94	JEG	1409	49.51	0	0	0		127.34	IRP
P-10M	10/29/94	JEG	1010	49.89	0.0	0.00	0.00		127.61	JCB
P-10U	5/11/93	JEG	1330	34.73					56.3	IRP
P-10U	1/24/94	JEG	1347	34.79	0	-1	-1		56.43	IRP
P-10U	7/25/94	JEG	751	35.35	0.0	0.00	0.00		56.61	JCB
P-11M	10/10/91	JEG	1000	81.35					165.4	IRP
P-11M	10/19/92	JEG	1427	82.85					165.4	IRP
P-11M	5/19/93	JEG	754	82.44					165.47	IRP
P-11M	6/11/93	JEG	1345	82.57					165.4	IRP
P-11M	10/6/93	JEG	1138	82.95	0	0	0		165.25	IRP
P-11M	5/18/94	JEG	837	82.18	0	0	0		165.1	IRP
P-11M	10/25/94	JEG	1016	82.61	0.0	0.00	0.00		165.51	JCB
P-11U	7/26/92	JEG	835	81.79					93.2	IRP
P-11U	5/19/93	JEG	953	82.25					92.28	IRP
P-11U	6/10/93	JEG	1121	82.24					93.34	IRP
P-12M	1/28/92	JEG	1030	84.67					150	IRP
P-12M	4/25/92	JEG	915	84.47					156.5	IRP
P-12M	1/19/93	JEG	1555	85.05					156	IRP
P-12M	5/9/93	JEG	1700	84.65					156	IRP
P-12M	1/20/94	JEG	1100	85.05	0	-1	-1		155.9	IRP
P-12M	7/21/94	JEG	929	85.5	0.0	0.00	0.00		156	JCB
P-12UN	10/18/91	JEG	1400	85.74					97	IRP
P-12UN	7/23/92	JEG	642	84.5					97	IRP
P-12UN	1/23/93	JEG	1520	85.2					97	IRP
P-12UN	5/9/93	JEG	1722	85.03					107.7	IRP
P-12UN	1/20/94	JEG	1010	85.3	0	-1	-1		107.7	IRP
P-12UN	7/21/94	JEG	630	85.02	0.0	0.00	0.00		95.57	JCB
P-12US	1/28/92	JEG	1352	20.95					60.04	IRP
P-12US	1/23/93	JEG	1437	57					60.1	IRP
P-12US	5/9/93	JEG	1717	50.33					61.5	IRP
P-12US	1/20/94	JEG	1145	59.02	0	-1	-1		60.05	IRP
P-12US	7/21/94	JEG	713	58.68	0.0	0.00	0.00		60.02	JCB
P-13M	10/26/91	JEG	1615	82.39					162.8	IRP
P-13M	7/22/92	JEG	1008	81.72					167.8	IRP
P-13M	5/21/93	JEG	921	81.65					166.4	IRP
P-13U	7/22/92	JEG	1245	81.22					90.5	IRP
P-13U	1/25/93	JEG	952	82.86					90.1	IRP
P-13U	5/21/93	JEG	738	81.48					89.78	IRP
P-13U	1/19/94	JEG	1522	81.74	0	-1	-1		89.78	IRP
P-13U	7/27/94	JEG	938	81.48	0.0	0.00	0.00		89.76	JCB
P-14U	5/21/93	JEG	1247	84.15					84.81	IRP

258317

LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
P-14US	2/2/92	JEG	1116	55.05					70.45	IRP
P-14US	7/27/92	JEG	1348	54.37					70.46	IRP
P-14US	1/24/93	JEG	933	54.56					70.47	IRP
P-14US	5/24/93	JEG	1130	54.05					70.42	IRP
P-14US	1/22/94	JEG	1523	55.87	0	-1	-1		0.45	IRP
P-14US	7/25/94	JEG	1520	59.12	0.0	0.00	0.00		70.41	JCB
P-15U	10/21/91	JEG	900	80.12					91.06	IRP
P-15U	1/23/93	JEG	1210	79.71					91.1	IRP
P-15U	5/21/93	JEG	1323	79.75					91.04	IRP
P-15U	1/22/94	JEG	1215	79.99	0	-1	-1		91	IRP
P-15U	7/21/94	JEG	1412	79.87	0.0	0.00	0.00		91.04	JCB
P-15UN	7/26/92	JEG	643	79.58					90.9	IRP
P-15US	1/29/92	JEG	1105	53.62					69.96	IRP
P-15US	5/23/93	JEG	1022	52.33					69.92	IRP
P-16US	10/24/91	JEG	1530	39.33					69.86	IRP
P-16US	1/31/92	JEG	1010	37.2					69.86	IRP
P-16US	7/26/92	JEG	1331	36.24					69.84	IRP
P-16US	1/25/93	JEG	810	36.6					69.85	IRP
P-16US	5/23/93	JEG	815	35.51					69.83	IRP
P-16US	1/23/94	JEG	928	38.45	0	-1	-1		69.82	IRP
P-16US	7/25/94	JEG	1345	38.78	0.0	0.00	0.00		69.84	JCB
P-17US	1/29/92	JEG	1457	71.6					72.96	IRP
P-17US	1/21/93	JEG	1437	71.44					73	IRP
P-17US	5/24/93	JEG	934	72.21					72.98	JCB
P-17US	1/18/94	JEG	1210	71.99	0	-1	-1		72.98	IRP
P-18US	1/29/92	JEG	1600	70.09					73.74	IRP
P-18US	7/24/92	JEG	653	69.46					73.74	IRP
P-18US	1/21/93	JEG	1535	69.66					73.75	IRP
P-18US	5/26/93	JEG	1027	69.6					73.74	IRP
P-18US	1/18/94	JEG	1305	69.88	0	-1	-1		73.76	IRP
P-18US	7/24/94	JEG	1040	69.62	0.0	0.00	0.00		73.72	JCB
P-19US	1/30/92	JEG	825	65.74					69.4	IRP
P-19US	4/27/92	JEG	815	66.18					69.4	IRP
P-19US	7/27/92	JEG	1200	66					69.38	IRP
P-19US	1/24/93	JEG	1138	65.77					69.37	IRP
P-19US	6/3/93	JEG	1139	65.36					69.25	IRP
P-19US	10/9/93	JEG	1538	65.85	0	0	0		69.38	IRP
P-19US	1/22/94	JEG	1632	65.78	0	-1	-1		69.38	IRP
P-19US	7/24/94	JEG	1224	66.3	0.0	0.00	0.00		69.38	JCB
P-20M	7/22/92	JEG	700	108					155	IRP
P-20M	10/20/92	JEG	1117	108.75					155	IRP
P-20M	1/20/93	JEG	0	108.75					155	IRP
P-20M	5/3/93	JEG	1630	107.98					156.8	IRP

258318

LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
P-20M	10/5/93	JEG	1424	108.57	0	0	0		149.6	IRP
P-20M	1/18/94	JEG	1610	108.46	0	-1	-1		156.8	IRP
P-20M	5/17/94	JEG	1346	107.63	0	0	0		149.65	IRP
P-20M	7/19/94	JEG	1608	107.56	0.0	0.00	0.00		156.8	JCB
P-20M	10/26/94	JEG	1030	107.88	0.0	0.00	0.00		163.5	JCB
P-21U	7/26/92	JEG	930	90					110	IRP
P-21U	5/5/93	JEG	1142	91.67					104.7	IRP
P-22M	10/22/91	JEG	1350	60.43					136	IRP
P-22M	2/5/92	JEG	1209	59.37					136	IRP
P-22M	4/21/92	JEG	945	59.47					136	IRP
P-22M	1/19/93	JEG	901	60.03					136	IRP
P-22M	5/10/93	JEG	1650	58.89					134.92	IRP
P-22M	1/24/94	JEG	1032	58.62	0	-1	-1		134.8	IRP
P-22M	7/27/94	JEG	740	58.38	0.0	0.00	0.00		134.83	JCB
P-22U	5/10/93	JEG	1707	54.85					62.9	IRP
P-23U	7/25/92	JEG	953	36.94					55.3	IRP
P-23U	5/12/93	JEG	1046	36.47					55.25	IRP
P-24M	10/22/91	JEG	830	47.23					134	IRP
P-24M	2/5/92	JEG	830	47.23					134	IRP
P-24M	2/5/92	JEG	838	45.83					134	IRP
P-24M	2/5/92	JEG	945	45.83					134	IRP
P-24M	7/24/92	JEG	1100	46.47					134	IRP
P-24M	5/11/93	JEG	924	46.18					133.9	IRP
P-24M	10/28/94	JEG	1430	48.77	0.0	0.00	0.00		128.97	JCB
P-24U	7/24/92	JEG	905	36.62					61	IRP
P-24U	1/23/93	JEG	857	36.18					61	IRP
P-24U	5/11/93	JEG	904	36.55					57.55	IRP
P-24U	1/25/94	JEG	825	36.69	0	-1	-1		57.46	IRP
P-24U	7/26/94	JEG	1348	36.95	0.0	0.00	0.00		57.83	JCB
P-25M	4/23/92	JEG	1308	88.21					158	IRP
P-25M	7/21/92	JEG	730	88.37					160	IRP
P-25M	10/20/92	JEG	1500	88					158	IRP
P-25M	5/7/93	JEG	845	88.31					158.86	IRP
P-25M	10/6/93	JEG	914	89.91	0	0	0		159.1	IRP
P-25M	10/30/94	JEG	1326	87.79	0.0	0.00	0.00		158.95	JCB
P-25U	7/21/92	JEG	1000	88.69					115	IRP
P-25U	1/25/93	JEG	1225	89.27					115	IRP
P-25U	5/7/93	JEG	1015	88.74					114.65	IRP
P-25U	1/21/94	JEG	1335	89.24	0	-1	-1		114.54	IRP
P-25U	7/24/94	JEG	1439	88.53	0.0	0.00	0.00		114.75	JCB
P-26M	4/22/92	JEG	1437	92.87					171.5	IRP
P-26M	5/9/93	JEG	1400	93.28					180.2	IRP
P-27U	7/25/92	JEG	803	84.36					94.5	IRP

258319

LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
P-27U	1/26/93	JEG	810	84.48					94.38	IRP
P-27U	5/26/93	JEG	740	84.38					94.55	IRP
P-27U	1/25/94	JEG	1119	84.28	0	-1	-1		94.54	IRP
P-27U	7/25/94	JEG	1118	84.14	0.0	0.00	0.00		94.5	JCB
P-28U	5/13/93	JEG	1515	66.05					89.66	IRP
P-29M	7/23/92	JEG	925	61.79					132.6	IRP
P-29M	10/21/92	JEG	754	61.13					132.7	IRP
P-29M	1/18/93	JEG	1630	61.85					132.7	IRP
P-29M	5/12/93	JEG	1615	61.45					132.8	IRP
P-29M	10/5/93	JEG	1111	62.13	0	0	0		132.8	IRP
P-29M	1/19/94	JEG	1225	61.68	0	-1	-1		132.75	IRP
P-29M	5/18/94	JEG	1230	60.17	0	0	0		132.75	IRP
P-29M	7/20/94	JEG	1503	60.59	0.0	0.00	0.00		132.77	JCB
P-29M	10/26/94	JEG	1620	60.58	0.0	0.00	0.00		132.96	JCB
P-30M	4/24/92	JEG	1303	87.45					153.78	IRP
P-30M	10/22/92	JEG	806	88.36					153.8	IRP
P-30M	5/12/93	JEG	1143	87.88					153.8	IRP
P-30M	10/6/93	JEG	1011	88.4	0	0	0		153.8	IRP
P-30M	5/19/94	JEG	825	87.62	0	0	0		153.79	IRP
P-30M	10/30/94	JEG	1124	87.83	0.0	0.00	0.00		153.8	JCB
P-31U	5/19/93	JEG	1637	91.47					91.52	IRP
P-5M	10/24/91	JEG	1105	82.35					162	IRP
P-5M	4/22/92	JEG	800	81.47					162	IRP
P-5M	7/21/92	JEG	1628	81.66					162	IRP
P-5M	5/17/93	JEG	1057	80.82					153.96	IRP
P-5M	6/3/93	JEG	1531	80.69					162	IRP
P-5UN	5/18/93	JEG	740	77.6					99.13	IRP
P-6M	10/26/91	JEG	1505	88.37					169.5	IRP
P-6M	2/4/92	JEG	1526	87.49					169.5	IRP
P-6M	4/22/92	JEG	1055	87.65					169.5	IRP
P-6M	1/21/93	JEG	855	88.08					169.9	IRP
P-6M	5/8/93	JEG	1310	87.09					168.5	IRP
P-6M	1/21/94	JEG	953	87.86	0	-1	-1		168.55	IRP
P-6M	7/23/94	JEG	747	87.08	0.0	0.00	0.00		168.52	JCB
P-6U	1/21/93	JEG	1006	83.38					99.6	IRP
P-6U	5/12/93	JEG	815	83.24					99.6	IRP
P-6U	1/25/94	JEG	952	83.48	0	-1	-1		99.65	IRP
P-6U	7/23/94	JEG	812	83.22	0.0	0.00	0.00		99.64	JCB
P-7M	5/6/93	JEG	930	85.66					161	IRP
P-7U	1/22/93	JEG	845	88.54					108	IRP
P-7U	6/10/93	JEG	737	87.48					108	IRP
P-7U	5/21/94	JEG	725	86.72	0	0	0		108.76	IRP
P-8M	10/19/91	JEG	1700	85.88					169	IRP

LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
P-8M	5/22/93	JEG	746	82.89					163.01	IRP
P-8UN	10/19/91	JEG	1315	86.27					94	IRP
P-8UN	1/23/93	JEG	1105	85.91					95.7	IRP
P-8UN	6/9/93	JEG	1455	85.9					95.81	IRP
P-8UN	1/22/94	JEG	1050	86.41	0	-1	-1		95.8	IRP
P-8UN	7/22/94	JEG	749	85.94	0.0	0.00	0.00		95.81	JCB
P-8US	2/2/92	JEG	1407	51.91					64.45	IRP
P-8US	1/23/93	JEG	1032	54.1					66.69	IRP
P-8US	6/9/93	JEG	1423	54.01					66.68	IRP
P-8US	1/22/94	JEG	1137	56.24	0	-1	-1		66.66	IRP
P-8US	7/22/94	JEG	921	56.2	0.0	0.00	0.00		66.7	JCB
P-9M	1/20/93	JEG	1346	91.24					164	IRP
P-9M	5/20/93	JEG	723	90.2					162.31	IRP
P-9M	1/19/94	JEG	902	90.68	0	-1	-1		162.32	IRP
P-9M	7/19/94	JEG	624	90.11	0.0	0.00	0.00		162.24	JCB
P-9UN	10/20/91	JEG	1000	89.79					112	IRP
P-9UN	7/27/92	JEG	725	88.89					112	IRP
P-9UN	1/25/93	JEG	1400	89.69					112	IRP
P-9UN	5/20/93	JEG	1038	89.25					111	IRP
P-9UN	1/22/94	JEG	931	89.83	0	-1	-1		111.06	IRP
P-9UN	7/19/94	JEG	818	89.16	0.0	0.00	0.00		111.03	JCB
P-9US	10/20/91	JEG	1310	29.22					73	IRP
P-9US	2/2/92	JEG	916	30.44					75.7	IRP
P-9US	7/27/92	JEG	900	30.25					75.75	IRP
P-9US	1/26/93	JEG	1318	32.7					75.75	IRP
P-9US	6/8/93	JEG	1420	43.48					75.76	IRP
P-9US	1/22/94	JEG	833	44.41	0	-1	-1		75.74	IRP
P-9US	7/22/94	JEG	625	44.94	0.0	0.00	0.00		75.76	JCB
P1L	10/28/94	JEG	1300	55.14	0.0	0.00	0.00		203	JCB
P1M	10/28/94	JEG	1430	48.77	0.0	0.00	0.00		128.97	JCB
P1U	10/28/94	JEG	1553	43.92	0.0	0.00	0.00		73	JCB
P2L	10/27/94	JEG	1008	55.81	0.0	0.00	0.00		203	JCB
P2M	10/27/94	JEG	1400	47.47	0.0	0.00	0.00		116.69	JCB
P2U	10/27/94	JEG	1425	43.9	0.0	0.00	0.00		77.84	JCB
W-128L	5/19/93	JEG	1453	16.25					34.09	IRP
W-129	5/11/93	JEG	1425	14.07					14.96	IRP
W-130	6/14/93	JEG	921	17.39					25.4	IRP
W-131L	6/4/93	JEG	900	15.1					32.54	IRP
W-131U	6/4/93	JEG	920	14.61					21.78	IRP
W-132	5/11/93	JEG	1504	20.3					23.38	IRP
W-133L	6/4/93	JEG	1341	19.17					31.88	IRP
W-133U	6/4/93	JEG	1350	18.38					19.74	IRP
W-134	5/13/93	JEG	1355	15.32					16.52	IRP

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LOCID	LOGDATE	LOGC	LOGTIME	STATDEP	PRODR	PUMPD	DEP	RECT	SOUNDING	SOUR
W-135	5/12/93	JEG	1532	3.69					12	IRP
W-136	5/9/93	JEG	1737	20.18					32.08	IRP
W-137	5/7/93	JEG	928	20.84					27.98	IRP
W-139L	6/10/93	JEG	1528	20.47					33.07	IRP
W-139U	6/13/93	JEG	1250	22.2					29.85	IRP
W-140L	6/10/93	JEG	1428	20.04					29.09	IRP
W-141L	6/11/93	JEG	1455	19.89					32.93	IRP
W-141U	6/10/93	JEG	830	19.89					27.6	IRP
W-143	5/13/93	JEG	1518	20.6					30.45	IRP
W-144	6/4/93	JEG	1615	22.97					32.24	IRP
W-145	5/7/93	JEG	1459	14.35					18.73	IRP
W-146	5/9/93	JEG	1841	20.85					27.97	IRP
W-147	5/10/93	JEG	1719	20.68					30.32	IRP
W-148	6/10/93	JEG	1055	22.6					30.19	IRP
W-149	5/26/93	JEG	1025	26.83					57.95	IRP
W-149	10/8/93	JEG	1109	28.7	0	0	0		57.95	IRP
W-149	5/22/94	JEG	823	29.28	0	0	0		57.96	IRP
W-149	11/2/94	JEG	1521	29.8	0.0	0.00	0.00		57.88	JCB
W-150L	6/2/93	JEG	1610	32.36					45.11	IRP
W-150U	6/2/93	JEG	1705	26.28					30.26	IRP
W-151	10/24/92	JEG	1330	26.04					59.33	IRP
W-151	5/25/93	JEG	1031	25.17					59.27	IRP
W-152	10/25/02	JEG	832	25.41					35.82	IRP
W-152	5/20/93	JEG	917	25.09					35.98	IRP
W-153	5/25/93	JEG	1450	16.02					38.97	IRP
W-154	6/3/93	JEG	1205	29					41.48	IRP
W-155	5/27/93	JEG	1040	17.92					22.77	IRP
W-156	5/27/93	JEG	1417	26.68					57.64	IRP
W-157	5/12/93	JEG	1740	11.67					33.45	IRP
W-157	10/7/93	JEG	1141	14.17	0	0	0		33.4	IRP
W-157	11/2/94	JEG	1301	12.07	0.0	0.00	0.00		33.44	JCB
W-158	6/6/93	JEG	735	23.36					36.8	IRP
W-159	6/5/93	JEG	1125	24.04					37.23	IRP
W-160	6/5/93	JEG	946	24.41					37.85	IRP
W-162	6/4/93	JEG	719	25.23					27.59	IRP
W-163	6/4/93	JEG	828	25.76					29.38	IRP
W-164	6/4/93	JEG	1028	25.26					25.95	IRP
WP07-10A	10/27/91	JEG	1500	29.03					37.8	IRP
WS-12	1/18/94	JEG	915	0	0	-1	-1		0	IRP
WS-2	12/9/93	JEG	1443	0	0	-1	-1		0	IRP
WS-2	1/18/94	JEG	830	0	0	-1	-1		0	IRP

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TABLE A26 Missing STATDEP and SOUNDING in GWD Table

LOCID	LOGDATE	LOGTIME	STATDE	PRODR	PUMPD	DEP	RECT	SOUN	SOUR
WS-12	1/18/94	915	0	0	-1	-1		0	IRP
WS-2	12/9/93	1443	0	0	-1	-1		0	IRP
WS-2	1/18/94	830	0	0	-1	-1		0	IRP

APPENDIX B

CHEMICAL DATA EVALUATION CRITERIA

B.1 DATA VALIDATION QUALIFIERS

The following definitions provide explanations of the EPA data qualifiers assigned to analytical results. Both inorganic and organic data validation qualifiers were used.

U - The analyte was analyzed for and was not present above the level of the associated value. The associated numerical value indicates the approximate concentration necessary to detect the analyte in this sample at the laboratory reporting limit (LRL).

J - The analyte was analyzed for and was positively identified, but the associated numerical value may not be consistent with the amount actually present in the environmental sample. The data should be considered as a basis for decision-making and are usable for many purposes. The application of bias is based on the relation of the target compound to the spiking compound percent recovery at greater than the upper control limit (high bias), or less than the lower control limit (low bias). Spiking compounds include surrogates, MSs, and LCSs. Target compounds associated with samples that exceeded holding time are considered as low bias.

R - The data are unusable for all purposes. The analyte was analyzed for, but the presence or absence of the analyte has not been verified. Resampling and reanalysis are necessary to confirm the presence or absence of the analyte.

UJ - The analyte analyzed for was not present above the level of the associated numerical value. The associated numerical value may not accurately or precisely represent the concentration necessary to detect the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification such as data reported at a concentration less than the MDL.

B.2 QUALITY CONTROL SAMPLE TYPES

Laboratory QC samples are used to determine precision and accuracy of the analyses. Laboratory QC samples included method blank, laboratory duplicate, laboratory control spike/laboratory control spike duplicate, matrix spike/matrix spike duplicate, and surrogate spike analyses.

Field QC samples are also collected and analyzed to evaluate the precision and comparability of the analytical results. Field QC samples included coded field duplicate, trip blank, ambient blank, and equipment rinseate blank analyses. QC sample types are defined in Appendix B.

B.3 LABORATORY QUALITY CONTROL SAMPLES

Quantitation Limits. All sample data were reviewed to determine the target compounds reported between the laboratory detection limit (LDL) and the PRL. All data reported between the LDL and the PRL were qualified as estimated "J" because such values are below the target compound practical quantitation limit. The PRL is assumed to be the target compound practical quantitation limit. The values used as MDLs were taken from the database field denoted as "Laboratory Detection Limit." The PRLs used for this evaluation are those presented in Table 2.2 and 2.3 of the AFCEE Handbook for the Installation Restoration Program Remedial Investigations and Feasibility Studies, (September, 1993), and USEPA Test Methods for Evaluation Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, (November, 1992).

Holding Time. Sample data were qualified when analytical holding time was exceeded. Analytical holding time has been defined by the EPA method criteria. For samples which exceeded holding time criteria by a factor of less than a two-times (2X) multiplier, all detected target compounds were qualified as estimated "J" and non-detected target compounds were qualified as estimated "UJ." For all samples exceeding analytical holding time by greater than a 2X multiplier, all detected target compounds were qualified as estimated "J," and non-detected target compounds were qualified as unusable "R."

Method Blanks. Method blank analysis is required with each analytical batch and is designed to measure laboratory-introduced contamination. Method blanks are used to verify that contamination caused by airborne contaminants, solvents, reagents, glassware, or other sample processing hardware is known and minimized. The method blank is carried through the complete sample preparation procedure and contains the same reagent concentrations in the final solution as in the sample solution used for analysis.

The concentration of target compounds detected in a method blank must be less than or equal to the PRL. If target compounds were detected in the method blank at concentrations exceeding the PRL, laboratory procedures may have introduced contamination into all associated environmental samples. As a result, environmental samples associated with a contaminated method blank will have elevated detection limits for the specific analytes detected in the method blank. Traditionally, target compound concentrations in environmental samples are not corrected for contamination in the method blank.

Samples associated with contaminated method blanks were qualified based on the 5-times (5X) and ten-times (10X) rule as specified in the EPA CLP National Functional Guidelines for Organic and Inorganic Data Review (February 1994). All target analytes found in both the blank and associated samples were qualified as non-detected (U) if they contained less than 5X or 10X the concentration detected in the method blank. All target analytes detected in the method blank and associated samples at

concentrations exceeding 5X or 10X the blank concentration required no qualification. The 10X rule applied only to common laboratory contaminants for volatile methods (acetone, methylene chloride, and 2-butanone) and all phthalate compounds for semivolatile methods.

Laboratory Control Spikes. LCS samples are designed to check the accuracy of the analytical procedure by measuring a known concentration of an analyte of interest. LCS samples are prepared by spiking clean, laboratory-simulated matrices (reagent-free water or purified solid matrix) with target analytes at known concentrations that are approximately 10 times greater than the PRL. These spiked samples are then subjected to the same preparation and analytical procedures as associated environmental samples.

All sample data within an analytical batch were qualified based on LCS/LCSD outliers as follows:

- If the LCS and LCSD recoveries reported were less than or equal to 30 percent for any one spiking compound, that compound in the associated samples was qualified as unusable "R." If more than 50 percent of all spiking compounds were recovered below 30 percent, then all target compounds in the associated samples were qualified as unusable "R."

- If less than or equal to 50 percent of the spiking compounds for the LCS and LCSD were recovered at greater than 30 percent recovery but less than the lower control limit (LCL), then unspiked target compounds in the associated samples were not qualified, while detected spiked compounds were qualified as estimated "J" and non-detected spiking compounds as estimated "UJ."

- If greater than 50 percent of the spiking compounds for the LCS and LCSD were recovered at greater than 30 percent recovery but less than the LCL, all target compounds in the associated samples are qualified as estimated "J" for detected compounds and "UJ" for non-detected compounds.

- If the LCS or the LCSD spike recovery values were more than the upper control limit (UCL) for less than 50 percent of all spiking compounds, then the affected spiking compounds in the associated samples are qualified as estimated "J" for detected compounds, while non-detected compounds were not qualified.

- If the LCS or the LCSD spike recovery values were greater than the upper control limit for more than 50 percent of all spiking compounds, then all target compounds were qualified as unusable "R" for detected and non-detected compounds in the associated samples.

For Methods SW8270 and SW8080, specific spike compounds are readily associated to similar chemical family groups, which include volatile organic compounds (VOCs), base/neutral (B/N) acids, pesticides, and polychlorinated biphenyls (PCBs). Therefore, depending on which spiking compounds exceed criteria, only certain target compounds may be affected. For all other methods, LCS/LCSD results which are out-of-control have led to the qualification of all target analytes within the method. Missing or incorrect expected values prevented evaluation of data from Jacobs, Rust, and Geo-Marine for LCS recovery criteria.

Surrogate Spike Analysis. Surrogate spikes are organic compounds which are similar to the analytes of interest in chemical composition, extraction, and chromatography, but which are not normally found in environmental samples. The recovery of the spike is used to measure the accuracy of the analytical method. Poor reproducibility and percent recovery (PR) during surrogate spike analysis may indicate sample matrix effects.

All environmental and laboratory QC samples are spiked with surrogate compounds for applicable analytical methods. Surrogates are required for most organic analyses. Surrogate spike recoveries are acceptable if the results of a surrogate spike fall within the established control limits.

Target compounds detected within a sample in which the surrogate was recovered below the LCL but greater than or equal to 10 percent have been qualified as estimated "J," while non-detected compounds were qualified as estimated "UJ." Detected target compounds associated with surrogate recovery above the UCL were qualified as estimated "J," while non-detected compounds were not qualified. Detected target compounds associated with surrogate recovery below 10 percent were qualified as estimated "J", while non-detected compounds were qualified as unusable "R."

Specific surrogate spike compounds can be readily associated to similar chemical family groups for Methods SW8270 and SW8080. Therefore, depending on which surrogate spiking compounds exceed criteria, only certain target compounds may be affected. For all other methods, surrogate results which were out-of-control led to the qualification of all target analytes within the method. Missing or incorrect expected values prevented evaluation of data from Jacobs, Rust, and Geo-Marine for surrogate spike recovery.

Matrix Spike/Matrix Spike Duplicate. MS/MSD samples are designed to evaluate the effect of the sample matrix on analytical data by measuring precision and accuracy of the analytical results for a given sample matrix. MS/MSD samples are prepared by spiking environmental samples with a standard solution containing a known concentration of representative target analytes. The native sample and MS/MSD sample pair are prepared from three volumes of an environmental sample. Two portions of the sample (the MS and MSD) are spiked with the standard solution. The remaining volume is not spiked. The spiked samples are analyzed, and the PR and RPD between the results of the MS and MSD analyses are calculated. The unaltered sample volume is analyzed as an ordinary environmental sample. Field blanks and field duplicates are not acceptable as MS/MSDs.

Since the relationship between accuracy and precision of MS/MSD recoveries and the environmental results is matrix-dependent for each individual sample, the environmental sample from which the MS/MSD was prepared may be the only sample that could be qualified adequately on the basis of PR and RPD. Therefore, because the value of qualifying environmental samples on the basis of accuracy and precision may be compromised for a majority of environmental samples in an analytical batch, only the native sample is qualified. MS/MSD results were used to evaluate matrix bias based on accuracy and precision for each sample matrix unique to an investigative area. This means that for a particular investigative area or site, the MS/MSD result will be

used to assess the quality of the data within that area but will not be used to qualify any samples with the exception of the native sample.

Sample data were evaluated for MS/MSD criteria in the following manner:

- If either the MS or the MSD sample contained any spiking compound at less than 30 percent of the LCL or less than 10 percent recovery, that compound was qualified as unusable "R" for both detected and non-detected values in the native sample only;

- If less than or equal to 50 percent of the spiking compounds from any one functional group such as VOCs, B/N acids, pesticides, or PCBs in both the MS and the MSD had recoveries greater than 10 percent but less than the LCL, then unspiked compounds were not qualified and spiked compounds were qualified as estimated "J" for detected compounds and "UJ" for non-detected compounds in the native sample only;

- If greater than or equal to 50 percent of the spiking compounds from any one functional group in both the MS and the MSD were below the LCL, and any one spiking compound had less than 10 percent recovery, then all detected target compounds were qualified as estimated "J" and non-detected compounds as unusable "R" in the native sample only;

- If percent recovery was greater than 10 percent but less than the LCL, then target compounds were qualified as estimated "J" for detected compounds and "UJ" for non-detected compounds;

- If percent recovery was greater than the UCL but less than 200 percent, then target compounds were qualified as estimated "J" for detected compounds and "UJ" for non-detected compounds; and

- If percent recovery was greater than 200 percent, then target compounds were qualified as unusable "R" for detected compounds and non-detected compounds.

In addition to qualifying MS/MSD samples for percent recovery, RPD criteria were also evaluated:

- If the RPD for the MS and the MSD was greater than 2X the control limit for greater than or equal to 50 percent of the spiking compounds, then all detected and non-detected target compounds (in the native sample only) were qualified as unusable "R:"

- If the RPD was less than or equal to 2X the control limit for less than or equal to 50 percent of the spiking compounds in the MS or the MSD sample, then all unspiked target compounds in the native sample only were not qualified, while spiked compounds were qualified as estimated "J" for detected compounds and "UJ" for non-detected compounds.

- If the RPD was less than or equal to 2X the control limit, and the MS or the MSD percent recovery was less than the LCL for less than or equal to 50 percent of the spiking compounds, then all target compounds in the native sample only were qualified as estimated "J" for detected compounds and "UJ" for non-detected compounds.

- Inadequate MS/MSD data composed of incorrect or missing expected values were received for sample data submitted by Jacobs, Rust, and Geo Marine. Therefore, these groups of samples were not evaluated for MS/MSD criteria.

B.3 FIELD QUALITY CONTROL SAMPLE TYPES

Field QC samples are used to evaluate the quality of the sample collection and transportation procedures performed in the field. Field QC samples are labeled, packaged, transported, and analyzed as environmental samples. The specific types of field QC samples and the rationale for their collection are described below.

Trip Blanks. Trip blanks are used to indicate potential contamination of environmental samples by VOCs during sample shipping and handling. The trip blank was prepared by the analytical laboratory, and consisted of analyte-free laboratory reagent water in a 40-milliliter glass vial sealed with a Teflon® septum. The trip blank remained unopened while in a closed container accompanying the empty sample containers to the sampling location, and then was returned to the laboratory in the same shipping package with the environmental samples.

Equipment Rinseate Blanks. Equipment rinseate blanks measure the contamination introduced to a sample by the sampling equipment. Equipment rinseate blanks are deionized water blanks which have been poured over or through the sample collection device, collected in a sample container, and returned to the laboratory for analysis. The equipment rinseate blanks were analyzed for the same laboratory parameters as were the environmental samples.

Ambient Blanks. An ambient blank is a VOC blank consisting of deionized water which is opened at the sample site, closed, and sent to the laboratory for analysis. It is a measure of VOC contamination from ambient air.

The field blanks could not be adequately associated with specific environmental samples. Therefore, the data were not qualified for ambient, trip, or equipment blanks, but rather were presented in tabular format in Appendix D.

Field Duplicates. Field duplicate samples are prepared by collecting twice the volume of a normal environmental sample, and distributing the collected material between two sampling containers. Sample distribution was performed in such a way that each sample equally represents the sampled material. The samples were analyzed independently, and were labeled with different sample identification numbers.

The purpose of field duplicate analysis is to document the precision of the sample handling procedures. The control limits used to evaluate duplicate precision were less restrictive than associated method precision requirements. Control limits for target analytes that contained less than 5X the PRL were plus or minus 2X the PRL for water

and soil matrices, respectively. Control limits for target analytes detected in duplicate samples in excess of 5X the PRL were plus or minus 40 RPD for water and plus or minus 70 RPD for soil matrices, respectively.

TABLE B.1
QUALITY CONTROL SAMPLE DATA RECEIVED
Data Quality Assurance
US Air Force Plant Metals (ICP)
Fort Worth, TX

SAMPLING PROGRAM METHOD	[a]MB	[b]LCS/LCSD	[c]MS/MSD	SURROGATES	[d]LR	[e]FD	[f]FB		
							[g]EB	[h]TB	[i]AB
RUST RI									
Volatiles									
[j]SW8240	[k]X	[l]B	[m]C	C	X	X	C	C	B
SW8260	B	B	C	C	X	B	C	C	B
Semivolatiles									
SW8270	X	B	C	C	X	X	C	[n]A	B
Pesticides/PCBs									
SW8080	B	B	C	C	A	B	C	A	B
Metals ([o]ICP)									
SW6010	B	B	C	A	A	X	C	A	A
Wet Chemistry									
[p]E150.1	A	A	A	A	A	B	A	A	A
[q]D2216	A	A	A	A	A	X	A	A	A
E120.1	A	A	A	A	A	B	A	A	A
E170.1	A	A	A	A	A	B	A	A	A
E300	B	B	C	A	A	B	C	A	A
E335.2	B	B	C	A	A	X	C	A	A
E413.2	B	B	C	A	A	X	C	A	A
E418.1	B	B	C	A	A	X	C	A	A
RUST HISTORICAL									
Semivolatiles									
SW8270	B	B	B	B	A	X	B	A	A
Metals (ICP)									
SW6010	B	B	B	A	A	B	B	A	A
Wet Chemistry									
E150.1	A	A	A	A	A	B	A	A	A
E170.1	A	A	A	A	A	B	A	A	A
E212.3	B	B	B	A	A	B	B	A	A
E218.4	B	B	B	A	A	B	B	A	A
E245.1	B	B	B	A	A	B	B	A	A
E300.0	B	B	B	A	A	B	B	A	A
E335.2	B	B	B	A	A	B	B	A	A
E340.2	B	B	B	A	A	B	B	A	A
E352.1	B	B	B	A	A	B	B	A	A
E413.2	B	B	B	A	A	B	B	A	A
E418.1	B	B	B	A	A	B	B	A	A
N6701	B	B	B	A	A	B	B	A	A
JACOBS GROUP 1									
Volatiles									
E524.2	X	C	C	C	A	X	C	C	B
SW8015	X	C	C	C	A	X	C	C	B

TABLE B.1 (Continued)
QUALITY CONTROL SAMPLE DATA RECEIVED
Data Quality Assurance
US Air Force Plant Metals (ICP)
Fort Worth, TX

SAMPLING PROGRAM METHOD	[a]MB	[b]LCS/LCSD	[c]MS/MSD	SURROGATES	[d]LR	[e]FD	[f]FB		
							[g]EB	[h]TB	[i]AB
SW8240	X	C	C	C	A	X	C	C	C
Semivolatiles									
SW8270	X	C	C	C	A	X	C	C	A
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	B	A	A	A
E150.1	A	A	A	A	A	B	A	A	A
E170.1	A	A	A	A	A	B	A	A	A
E413.2	X	C	C	A	A	X	C	A	A
E418.1	X	C	C	A	A	X	C	A	A
N6701	B	C	C	A	A	B	B	A	A
JACOBS GROUP 2									
Volatiles									
SW8260	X	C	C	C	A	X	C	C	C
Semivolatiles									
SW8270	X	C	C	C	A	X	C	A	A
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	B	A	A	A
E150.1	A	A	A	A	A	B	A	A	A
E170.1	A	A	A	A	A	B	A	A	A
E413.2	X	C	C	A	A	X	C	A	A
E418.1	X	C	C	A	A	X	C	A	A
JACOBS GROUP 3									
Volatiles									
SW8015	X	C	C	C	A	X	C	C	B
SW8240	X	C	C	C	A	X	C	C	C
Semivolatiles									
SW8270	X	C	C	C	A	X	C	A	A
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	X	A	A	A
E150.1	A	A	A	A	A	X	A	A	A
E170.1	A	A	A	A	A	X	A	A	A
E413.2	X	C	C	A	A	X	C	A	A
E418.1	X	C	C	A	A	X	C	A	A
JACOBS GROUP 3									
Volatiles									

TABLE B.1 (Continued)
QUALITY CONTROL SAMPLE DATA RECEIVED
Data Quality Assurance
US Air Force Plant Metals (ICP)
Fort Worth, TX

SAMPLING PROGRAM METHOD	[a]MB	[b]LCS/LCSD	[c]MS/MSD	SURROGATES	[d]LR	[e]FD	[f]FB [g]EB	[h]TB	[i]AB
E524.2	X	C	C	C	A	X	C	C	B
SW8015	X	C	C	C	A	X	C	C	B
SW8240	X	C	C	C	A	X	C	C	C
Semivolatiles									
SW8270	X	C	C	C	A	X	B	A	A
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Metals (GFAA)									
SW7000	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	X	A	A	A
E150.1	A	A	A	A	A	X	A	A	A
E170.1	A	A	A	A	A	X	A	A	A
E413.1	X	C	C	C	A	X	B	A	A
E418.1	X	C	C	C	A	X	B	A	A
JACOBS GROUP 5									
Volatiles									
E524.2	X	C	C	C	A	X	C	C	C
SW8015	X	C	C	C	A	X	C	C	C
SW8240	X	C	C	C	A	X	C	C	C
Semivolatiles									
SW8270	X	C	C	C	A	X	C	A	A
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Metals (GFAA)									
SW7421	X	C	C	A	A	X	X	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	A	A	A	A
E150.1	A	A	A	A	A	A	A	A	A
E170.1	A	A	A	A	A	A	A	A	A
E413.2	X	C	C	A	A	X	C	A	A
E418.1	X	C	C	A	A	X	C	A	A
JACOBS GROUP 6									
Volatiles									
E524.2	X	C	C	C	X	X	C	C	C
SW8015	X	C	C	C	X	X	C	C	C
SW8240	X	C	C	C	X	X	C	C	C
SW8240	X	C	C	C	A	X	C	B	B
Semivolatiles									
SW8270	X	C	C	C	A	X	C	A	A
Metals (ICP)									
SW6010	X	C	C	A	A	B	C	A	A

TABLE B.1 (Continued)
QUALITY CONTROL SAMPLE DATA RECEIVED
Data Quality Assurance
US Air Force Plant Metals (ICP)
Fort Worth, TX

SAMPLING PROGRAM METHOD	[a]MB	[b]LCS/LCSD	[c]MS/MSD	SURROGATES	[d]LR	[e]FD	[f]FB		
							[g]EB	[h]TB	[i]AB
Metals (GFAA)									
SW7421	X	C	C	A	A	B	C	A	A
SW7421	B	C	C	A	A	X	B	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	X	A	A	A
E150.1	A	A	A	A	A	X	A	A	A
E170.1	A	A	A	A	A	X	A	A	A
E413.2	B	C	C	A	A	X	B	A	A
E413.2	X	C	C	A	A	B	C	A	A
E418.1	B	C	C	A	A	X	B	A	A
E418.1	X	C	C	A	A	B	C	A	A
JACOBS GROUP 7									
Volatiles									
E524.2	X	C	C	C	A	X	C	C	B
SW8015	X	C	C	C	A	X	C	C	B
SW8240	X	C	C	C	A	X	C	C	B
Semivolatiles									
SW8270	X	C	C	C	A	X	B	A	A
Metals (ICP)									
SW6010	X	C	C	A	A	X	B	A	A
Metals (GFAA)									
SW7421	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	B	A	A	A
E150.1	A	A	A	A	A	B	A	A	A
E170.1	A	A	A	A	A	B	A	A	A
E413.2	B	C	C	A	A	X	B	A	A
E418.1	B	C	C	A	A	B	B	A	A
JACOBS GROUP 8									
Volatiles									
E524.2	X	C	C	C	A	X	C	C	B
SW8015	X	C	C	C	A	X	C	C	B
SW8240	X	C	C	C	A	X	C	C	B
Semivolatiles									
SW8270	X	C	C	C	A	X	B	A	A
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Metals (GFAA)									
SW7421	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	B	A	A	A
E150.1	A	A	A	A	A	B	A	A	A

TABLE B.1 (Continued)
QUALITY CONTROL SAMPLE DATA RECEIVED
Data Quality Assurance
US Air Force Plant Metals (ICP)
Fort Worth, TX

SAMPLING PROGRAM METHOD	[a]MB	[b]LCS/LCSD	[c]MS/MSD	SURROGATES	[d]LR	[e]FD	[f]FB		
							[g]EB	[h]TB	[i]AB
E170.1	A	A	A	A	A	B	A	A	A
E413.2	X	C	C	A	A	X	C	A	A
E418.1	X	C	C	A	A	X	C	A	A
JACOBS GROUP 9									
Volatiles									
E524.2	X	C	C	C	A	X	C	C	C
SW8015		C	C	C	A	X	C	C	C
SW8240	X	C	C	C	A	X	C	C	B
Semivolatiles									
SW8270	X	C	C	C	A	X	C	A	A
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Metals (GFAA)									
SW7421	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	X	A	A	A
E150.1	A	A	A	A	A	X	A	A	A
E170.1	A	A	A	A	A	X	A	A	A
E413.2	X	C	C	A	A	X	C	A	A
E418.1	X	C	C	A	A	X	C	A	A
JACOBS GROUP 10									
Volatiles									
E524.2	X	C	C	C	A	X	C	C	C
SW8015	X	C	C	C	A	X	C	C	B
SW8240	X	C	C	C	A	X	C	B	B
SW8260	X	C	C	C	A	X	C	B	B
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Metals (GFAA)									
SW7421	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	B	A	A	A
E413.2	X	C	C	A	A	X	C	A	A
E418.1	X	C	C	A	A	X	C	A	A
JACOBS GROUP 11									
Volatiles									
E524.2	X	C	C	C	A	X	C	C	C
SW8015	X	C	C	C	A	X	C	C	C
SW8240	X	C	C	C	A	X	C	C	B
Semivolatiles									
SW8270	X	C	C	C	A	X	C	A	A

TABLE B.1 (Continued)
QUALITY CONTROL SAMPLE DATA RECEIVED
Data Quality Assurance
US Air Force Plant Metals (ICP)
Fort Worth, TX

SAMPLING PROGRAM METHOD	[a]MB	[b]LCS/LCSD	[c]MS/MSD	SURROGATES	[d]LR	[e]FD	[f]FB		
							[g]EB	[h]TB	[i]AB
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Metals (GFAA)									
SW7421	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	X	A	A	A
E150.1	A	A	A	A	A	X	A	A	A
E170.1	A	A	A	A	A	X	A	A	A
E413.2	X	C	C	A	A	X	C	A	A
E418.1	X	C	C	A	A	X	C	A	A
JACOBS GROUP 12									
Volatiles									
SW8015	X	C	C	C	A	X	C	C	C
SW8240	X	C	C	C	A	X	C	C	B
Semivolatiles									
SW8270	X	C	C	C	A	X	C	A	A
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E120.1	A	A	A	A	A	X	A	A	A
E150.1	A	A	A	A	A	X	A	A	A
E170.1	A	A	A	A	A	X	A	A	A
E413.2	X	C	C	A	A	X	C	A	A
E418.1	X	C	C	A	A	X	C	A	A
RADIAN									
Volatiles									
E601	B	B	X	B	A	X	C	C	B
E602	B	B	X	B	A	X	C	C	B
E624	B	B	B	B	A	B	C	B	B
SW8010	B	B	B	B	A	B	B	B	B
SW8020	B	B	B	B	A	B	B	B	B
SW8015	X	C	C	B	C	X	B	A	B
SW8240	X	C	C	X	A	B	B	B	B
Semivolatiles									
SW8270	X	C	C	X	A	X	C	A	A
E625	X	C	X	X	A	B	B	A	A
Pesticides/PCBs									
SW8080	X	B	B	X	A	X	C	A	A
E608	X	B	X	B	A	B	B	A	A
Metals (ICP)									
SW6010	X	B	B	A	A	B	B	A	A
Metals (GFAA)									

TABLE B.1 (Continued)
QUALITY CONTROL SAMPLE DATA RECEIVED
Data Quality Assurance
US Air Force Plant Metals (ICP)
Fort Worth, TX

SAMPLING PROGRAM METHOD	[a]MB	[b]LCS/LCSD	[c]MS/MSD	SURROGATES	[d]LR	[e]FD	[f]FB [g]EB	[h]TB	[i]AB
SW7000	X	C	C	A	A	X	C	A	A
Wet Chemistry									
E413.2	B	B	B	A	A	B	B	A	A
E418.1	B	B	B	A	A	B	B	A	A
E120.1	B	B	B	B	A	X	A	A	A
E150.1	B	B	B	B	A	X	A	A	A
E170.1	B	B	B	B	A	X	A	A	A
Radionuclides									
E900.0	B	B	B	B	A	X	A	A	A
E901.1	B	B	B	B	A	X	A	A	A
USGS									
Volatiles									
E524	X	C	X	X	A	B	C	C	B
SW8260	X	C	X	X	A	B	C	C	B
Semivolatiles									
SW8270	X	C		X	A	B	C	A	A
Metals (ICP)									
SW6010	X	C	X	A	A	B	C	A	A
Wet Chemistry									
E413.2	X	C	X	A	A	B	C	A	A
E418.1	X	C	X	A	A	B	C	A	A
IT CORPORATION									
Volatiles									
SW8240	X	C	X	X	A	B	B	C	B
Semivolatiles									
SW8270	X	C	X	X	A	B	B	A	A
Metals (ICP)									
SW6010	X	B	X	A	X	B	B	A	A
Metals (GFAA)									
SW7000	X	B	X	A	X	B	B	A	A
Wet Chemistry									
E150.0	A	A	A	A	X	B	A	A	A
E160.1	A	A	A	A	X	B	A	A	A
E160.2	A	A	A	A	X	B	A	A	A
E300	B	B	B	A	X	B	B	A	A
E310.1	X	B	B	A	X	B	B	A	A
E310.2	X	B	C	A	X	B	B	A	A
E325.2	X	B	X	A	X	B	B	A	A
E353.2	X	B	B	A	X	B	B	A	A
E375.4	X	B	X	A	X	B	B	A	A
E405.1	X	B	B	A	X	B	A	A	A
E410.4	X	B	B	A	X	B	A	A	A

TABLE B.1 (Continued)
QUALITY CONTROL SAMPLE DATA RECEIVED
Data Quality Assurance
US Air Force Plant Metals (ICP)
Fort Worth, TX

SAMPLING PROGRAM METHOD	[a]MB	[b]LCS/LCSD	[c]MS/MSD	SURROGATES	[d]LR	[e]FD	[f]FB		
							[g]EB	[h]TB	[i]AB
E415.1	X	B	B	A	A	B	A	A	A
GEOMARINE									
Volatiles									
SW8010	X	C	B	X	A	X	B	B	B
SW8021	X	C	C	X	A	X	B	C	B
SW8240	X	C	C	X	A	X	C	C	C
Semivolatiles									
SW8270	X	C	B	X	A	X	C	A	A
Metals (ICP)									
SW6010	X	C	C	A	A	X	C	A	A
Metals (GFAA)									
SW7000	X	C	C	A	A	X	C	A	A
Wet Chemistry									
A5520C	X	C	C	A	A	X	C	A	A
E418.1	X	C	C	A	A	X	C	A	A
SW9010	X	C	C	A	A	X	C	A	A

[a]MB = Method Blank.
[b]LCS/LCSD = Laboratory Control Sample/Laboratory Control Sample Duplicate.
[c]MS/MSD = Matrix Spike/Matrix Spike Duplicate.
[d]R = Laboratory Replicate.
[e]FD = Field Duplicate.
[f]FB = Field Blank.
[g]EB = Equipment Rinseate Blank.
[h]TB = Trip Blank.
[i]AB = Ambient Blank.
[j]SW = EPA SW-846 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3RD Edition (Nov. 1992).
[k]X = Data received electronically and evaluated.
[l]B = Data not received electronically.
[m]C = Data received electronically but could not be evaluated because of insufficient information.
[n]A = Does not apply for this method.
[o]ICP = Inductively Coupled Plasma.
[p]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March 1983).
[q]D = American Society for Testing and Materials (ATSM), 1916 Race Street, Philadelphia, PA 19103-11867.
[r]GFAA = Graphite Furnace Atomic Adsorption.

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TABLE B.2
HOLDING TIME CRITERIA TABLE

Data Quality Assurance

US Air Force Plant 4

Fort Worth, TX

METHOD	MATRIX	[a]DAYS TO ANALYSIS	[a]DAYS TO EXTRACTION	METHOD	MATRIX	DAYS TO ANALYSIS	DAYS TO EXTRACTION
A5520C	W	28	-	E608	S	40	14
D2216	W	28	-	E608	W	40	7
D2216	S	28	-	E624	S	14	-
E120.1	S	28	-	E624	W	14	-
E120.1	W	28	-	E625	S	40	14
E150.1	W	1	-	E625	W	40	7
E150.1	S	28	-	M8260	W	14	-
E160.1	W	7	-	N6701	S	28	-
E160.2	W	7	-	N6701	W	28	-
E170.1	W	1	-	SW6010	S	180	-
E170.1	S	1	-	SW6010	W	180	-
E212.3	W	180	-	SW7060	S	180	-
E218.4	W	1	-	SW7060	W	180	-
E245.1	W	28	-	SW7131	S	180	-
E300.0	S	28	-	SW7131	W	180	-
E300.0	W	28	-	SW7421	S	180	-
E310.1	W	14	-	SW7421	W	180	-
E310.2	W	14	-	SW7470	W	28	-
E325.2	W	28	-	SW7471	S	28	-
E335.2	W	14	-	SW7740	S	180	-
E335.2	S	28	-	SW7740	W	180	-
E340.1	S	28	-	SW7841	W	180	-
E340.1	W	28	-	SW7841	S	180	-
E352.1	S	2	-	SW8010	W	14	-
E352.1	W	2	-	SW8010	S	14	-
E353.2	W	28	-	SW8015	S	14	-
E375.4	W	28	-	SW8015	W	14	-
E405.1	W	5	2	SW8021	W	14	-
E410.4	W	28	-	SW8021	S	14	-
E413.2	W	28	-	SW8080	S	40	14
E413.2	S	28	-	SW8080	W	40	7
E418.1	W	28	-	SW8240	S	14	-
E418.1	S	28	-	SW8240	W	14	-
E524.2	W	14	-	SW8260	W	14	-
E524.2	S	14	-	SW8260	S	14	-
E601	S	14	-	SW8270	W	40	7
E601	W	14	-	SW8270	S	40	14
E602	S	14	-	SW9010	W	14	-
E602	W	14	-	SW9010	S	28	-

[a]All days are counted from date of collection. Missing values denote non-applicability.

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TABLE B.3
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
[d]E524.2 - Volatiles										
Benzene	78	117	20	[1]N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromobenzene	84	117	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromochloromethane	73	107	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromodichloromethane	78	112	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromoform	82	120	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromomethane	72	118	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n-Butylbenzene	77	123	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
sec-Butylbenzene	77	123	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
tert-Butylbenzene	80	124	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon tetrachloride	62	106	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	81	115	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroethane	65	113	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroform	74	107	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloromethane	68	118	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Chlorotoluene	73	107	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Chlorotoluene	74	124	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	33	133	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibromochloromethane	73	112	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dibromoethane (Ethylene Dibromide)	90	114	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibromomethane	83	117	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	76	110	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	79	119	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	83	123	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dichlorodifluoromethane	69	111	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane	81	111	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane	80	110	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethene	75	113	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethene	81	121	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene	77	109	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane	79	115	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichloropropane	79	113	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,2-Dichloropropane	42	130	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloropropene	72	124	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl benzene	74	124	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorobutadiene	80	120	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Isopropylbenzene	78	124	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
p-Isopropyltoluene	79	119	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene chloride	80	110	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Napthalene	78	130	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n-Propylbenzene	83	117	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Styrene	80	124	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1,2-Tetrachloroethane	72	108	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	74	108	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethene	71	107	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
Toluene	78	126	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,3-Trichlorobenzene	81	137	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	81	135	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane	74	122	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	81	127	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethene	71	110	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane	67	111	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,3-Trichloropropane	61	155	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trimethylbenzene	75	123	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3,5-Trimethylbenzene	72	112	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl chloride	79	118	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
o-Xylene	81	125	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
m-Xylene	78	116	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
p-Xylene	80	128	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane-d4	N/A	N/A	N/A	N/A	N/A	N/A	76	114	70	121
4-Bromofluorobenzene	N/A	N/A	N/A	N/A	N/A	N/A	86	115	74	121
Toluene-d8	N/A	N/A	N/A	N/A	N/A	N/A	88	110	81	117
E601 - Volatiles										
Bromodichloromethane	42	172	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromomethane	[d]D	144	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Chloroethyl vinyl ether	14	186	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	38	150	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroethane	46	137	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloromethane	D	193	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	43	143	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibromochloromethane	24	191	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dichloromethane	25	162	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,-Dichlorpropane	44	156	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane	28	167	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane	51	147	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	D	208	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	7	187	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	42	143	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethene	28	167	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene	38	155	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene	22	178	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropene	22	178	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane	21	156	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene Chloride	25	162	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	8	184	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethene	26	162	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromoform	13	159	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane	41	138	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	39	136	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethene	35	146	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroform	49	133	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
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ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
Vinyl Chloride	28	163	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
[e]Surrogates	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E602 - Volatiles										
1,2-Dichlorobenzene	37	154	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	50	141	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	42	143	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	39	150	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	55	135	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	32	160	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	46	148	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
[e]Surrogates	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E624 - Volatiles										
1,1,1-Trichloroethane	52	162	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	46	157	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	52	150	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane	59	155	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	18	190	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	59	156	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane	49	155	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane	D	210	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	18	190	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Dichloroethene	D	234	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Chloroethylvinylether	D	305	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	37	151	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromodichloromethane	35	155	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromoform	45	169	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromomethane	D	242	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	70	140	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	37	160	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroform	51	138	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloromethane	D	273	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene	D	227	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibromochloromethane	53	149	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	37	162	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene Chloride	D	221	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethene	64	148	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	47	150	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene	54	156	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropene	17	183	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethene	71	157	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane	17	181	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	D	251	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-dichloroethane-d4	N/A	N/A	N/A	N/A	N/A	N/A	76	114	70	121
4-Bromofluorobenzene	N/A	N/A	N/A	N/A	N/A	N/A	86	115	74	121
Toluene-d8	N/A	N/A	N/A	N/A	N/A	N/A	88	110	81	117

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
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ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
[d]SW8240 - Volatiles										
1,1,1-Trichloroethane	52	162	20	52	162	20	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	46	157	20	46	157	20	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	52	150	20	52	150	20	N/A	N/A	N/A	N/A
1,1-Dichloroethane	59	155	20	59	155	20	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	18	190	20	18	190	20	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	59	156	20	59	156	20	N/A	N/A	N/A	N/A
1,2-Dichloroethane	49	155	20	49	155	20	N/A	N/A	N/A	N/A
1,2-Dichloropropane	D	210	20	D	210	20	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	18	190	20	18	190	20	N/A	N/A	N/A	N/A
1,4-Dichloroethene	D	234	20	D	234	20	N/A	N/A	N/A	N/A
2-Chloroethylvinylether	D	305	20	D	305	20	N/A	N/A	N/A	N/A
Benzene	37	151	20	37	151	20	N/A	N/A	N/A	N/A
Bromodichloromethane	35	155	20	35	155	20	N/A	N/A	N/A	N/A
Bromoform	45	169	20	45	169	20	N/A	N/A	N/A	N/A
Bromomethane	D	242	20	D	242	20	N/A	N/A	N/A	N/A
Carbon Tetrachloride	70	140	20	70	140	20	N/A	N/A	N/A	N/A
Chlorobenzene	37	160	20	37	160	20	N/A	N/A	N/A	N/A
Chloroform	51	138	20	51	138	20	N/A	N/A	N/A	N/A
Chloromethane	D	273	20	D	273	20	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene	D	227	20	D	227	20	N/A	N/A	N/A	N/A
Dibromochloromethane	53	149	20	53	149	20	N/A	N/A	N/A	N/A
Ethylbenzene	37	162	20	37	162	20	N/A	N/A	N/A	N/A
Methylene Chloride	D	221	20	D	221	20	N/A	N/A	N/A	N/A
Tetrachloroethene	64	148	20	64	148	20	N/A	N/A	N/A	N/A
Toluene	47	150	20	47	150	20	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene	54	156	20	54	156	20	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropene	17	183	20	17	183	20	N/A	N/A	N/A	N/A
Trichloroethene	71	157	20	71	157	20	N/A	N/A	N/A	N/A
Trichlorofluoromethane	17	181	20	17	181	20	N/A	N/A	N/A	N/A
Vinyl Chloride	D	251	20	D	251	20	N/A	N/A	N/A	N/A
1,2-dichloroethane-d4	N/A	N/A	N/A	N/A	N/A	N/A	76	114	70	121
4-Bromofluorobenzene	N/A	N/A	N/A	N/A	N/A	N/A	86	115	74	121
Toluene-d8	N/A	N/A	N/A	N/A	N/A	N/A	88	110	81	117
SW8260 - Volatiles										
Benzene	78	117	20	78	117	20	N/A	N/A	N/A	N/A
Bromobenzene	84	117	20	84	117	20	N/A	N/A	N/A	N/A
Bromochloromethane	73	107	20	73	107	20	N/A	N/A	N/A	N/A
Bromodichloromethane	78	112	20	78	112	20	N/A	N/A	N/A	N/A
Bromoform	82	120	20	82	120	20	N/A	N/A	N/A	N/A
Bromomethane	72	118	20	72	118	20	N/A	N/A	N/A	N/A
n-Butylbenzene	77	123	20	77	123	20	N/A	N/A	N/A	N/A
sec-Butylbenzene	77	123	20	77	123	20	N/A	N/A	N/A	N/A
tert-Butylbenzene	80	124	20	80	124	20	N/A	N/A	N/A	N/A
Carbon tetrachloride	62	106	20	62	106	20	N/A	N/A	N/A	N/A
Chlorobenzene	81	115	20	81	115	20	N/A	N/A	N/A	N/A

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
Data Quality Assessment
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ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
Chloroethane	65	113	20	65	113	20	N/A	N/A	N/A	N/A
Chloroform	74	107	20	74	107	20	N/A	N/A	N/A	N/A
Chloromethane	68	118	20	68	118	20	N/A	N/A	N/A	N/A
2-Chlorotoluene	73	107	20	73	107	20	N/A	N/A	N/A	N/A
4-Chlorotoluene	74	124	20	74	124	20	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	33	133	20	33	133	20	N/A	N/A	N/A	N/A
Dibromochloromethane	73	112	20	73	112	20	N/A	N/A	N/A	N/A
1,2-Dibromoethane (Ethylene Dibromide)	90	114	20	90	114	20	N/A	N/A	N/A	N/A
Dibromomethane	83	117	20	83	117	20	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	76	110	20	76	110	20	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	79	119	20	79	119	20	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	83	123	20	83	123	20	N/A	N/A	N/A	N/A
Dichlorodifluoromethane	69	111	20	69	111	20	N/A	N/A	N/A	N/A
1,1-Dichloroethane	81	111	20	81	111	20	N/A	N/A	N/A	N/A
1,2-Dichloroethane	80	110	20	80	110	20	N/A	N/A	N/A	N/A
1,1-Dichloroethene	75	113	20	75	113	20	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethene	81	121	20	81	121	20	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene	77	109	20	77	109	20	N/A	N/A	N/A	N/A
1,2-Dichloropropane	79	115	20	79	115	20	N/A	N/A	N/A	N/A
1,3-Dichloropropane	79	113	20	79	113	20	N/A	N/A	N/A	N/A
2,2-Dichloropropane	42	130	20	42	130	20	N/A	N/A	N/A	N/A
1,1-Dichloropropene	72	124	20	72	124	20	N/A	N/A	N/A	N/A
Ethyl benzene	74	124	20	74	124	20	N/A	N/A	N/A	N/A
Hexachlorobutadiene	80	120	20	80	120	20	N/A	N/A	N/A	N/A
Isopropylbenzene	78	124	20	78	124	20	N/A	N/A	N/A	N/A
p-Isopropyltoluene	79	119	20	79	119	20	N/A	N/A	N/A	N/A
Methylene chloride	80	110	20	80	110	20	N/A	N/A	N/A	N/A
Napthalene	78	130	20	78	130	20	N/A	N/A	N/A	N/A
n-Propylbenzene	83	117	20	83	117	20	N/A	N/A	N/A	N/A
Styrene	80	124	20	80	124	20	N/A	N/A	N/A	N/A
1,1,1,2-Tetrachloroethane	72	108	20	72	108	20	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	74	108	20	74	108	20	N/A	N/A	N/A	N/A
Tetrachloroethene	71	107	20	71	107	20	N/A	N/A	N/A	N/A
Toluene	78	126	20	78	126	20	N/A	N/A	N/A	N/A
1,2,3-Trichlorobenzene	81	137	20	81	137	20	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	81	135	20	81	135	20	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane	74	122	20	74	122	20	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	81	127	20	81	127	20	N/A	N/A	N/A	N/A
Trichloroethene	71	110	20	71	110	20	N/A	N/A	N/A	N/A
Trichlorofluoromethane	67	111	20	67	111	20	N/A	N/A	N/A	N/A
1,2,3-Trichloropropane	61	155	20	61	155	20	N/A	N/A	N/A	N/A
1,2,4-Trimethylbenzene	75	123	20	75	123	20	N/A	N/A	N/A	N/A
1,3,5-Trimethylbenzene	72	112	20	72	112	20	N/A	N/A	N/A	N/A
Vinyl chloride	79	118	20	79	118	20	N/A	N/A	N/A	N/A
o-Xylene	81	125	20	81	125	20	N/A	N/A	N/A	N/A
m-Xylene	78	116	20	78	116	20	N/A	N/A	N/A	N/A

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
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ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
p-Xylene	80	128	20	80	128	20	N/A	N/A	N/A	N/A
1,2-Dichloroethane-d4	N/A	N/A	N/A	N/A	N/A	N/A	76	114	70	121
4-Bromofluorobenzene	N/A	N/A	N/A	N/A	N/A	N/A	86	115	74	121
Toluene-d8	N/A	N/A	N/A	N/A	N/A	N/A	88	110	81	117
SW8010 - Volatiles										
Carbon tetrachloride	43	143	20	43	143	20	N/A	N/A	N/A	N/A
Bromodichloromethane	42	172	20	42	172	20	N/A	N/A	N/A	N/A
Bromobenzene	84	117	20	84	117	20	N/A	N/A	N/A	N/A
Bromomethane	D	144	20	D	144	20	N/A	N/A	N/A	N/A
2-Chloroethyl vinyl ether	14	186	20	14	186	20	N/A	N/A	N/A	N/A
Chlorobenzene	38	150	20	38	150	20	N/A	N/A	N/A	N/A
Chloroethane	46	137	20	46	137	20	N/A	N/A	N/A	N/A
Chloromethane	D	193	20	D	193	20	N/A	N/A	N/A	N/A
Dibromochloromethane	24	191	20	24	191	20	N/A	N/A	N/A	N/A
Dibromomethane	25	162	20	25	162	20	N/A	N/A	N/A	N/A
1,1-Dichloroethane	47	132	20	47	132	20	N/A	N/A	N/A	N/A
1,2-Dichloroethane	51	147	20	51	147	20	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	D	208	20	D	208	20	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	7	187	20	7	187	20	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	42	143	20	42	143	20	N/A	N/A	N/A	N/A
1,1-Dichloroethene	28	167	20	28	167	20	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethene	38	155	20	38	155	20	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene	38	155	20	38	155	20	N/A	N/A	N/A	N/A
1,2-Dichloropropane	44	156	20	44	156	20	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene	22	178	20	22	178	20	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropene	22	178	20	22	178	20	N/A	N/A	N/A	N/A
Trichlorofluoromethane	21	156	20	21	156	20	N/A	N/A	N/A	N/A
Dichlorodifluoromethane	21	156	20	21	156	20	N/A	N/A	N/A	N/A
Methylene Chloride	25	162	20	25	162	20	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	8	184	20	8	184	20	N/A	N/A	N/A	N/A
Tetrachloroethene	26	162	20	26	162	20	N/A	N/A	N/A	N/A
Bromoform	13	159	20	13	159	20	N/A	N/A	N/A	N/A
1,1,1,2-Tetrachloroethane	8	184	20	8	184	20	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane	41	138	20	41	138	20	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	39	136	20	39	136	20	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethane	38	155	20	38	155	20	N/A	N/A	N/A	N/A
Trichloroethene	35	146	20	35	146	20	N/A	N/A	N/A	N/A
Chloroform	49	133	20	49	133	20	N/A	N/A	N/A	N/A
Vinyl Chloride	28	163	20	28	163	20	N/A	N/A	N/A	N/A
4-Bromofluorobenzene	N/A	N/A	N/A	N/A	N/A	N/A	86	115	74	121
SW8015 - Volatiles										
2-Butanone	80	120	20	80	120	20	N/A	N/A	N/A	N/A
4-Methyl-2-Pentanone	80	120	20	80	120	20	N/A	N/A	N/A	N/A
Diethylethylether	80	120	20	80	120	20	N/A	N/A	N/A	N/A
Ethanol	80	120	20	80	120	20	N/A	N/A	N/A	N/A
Trifluorotoluene	N/A	N/A	N/A	N/A	N/A	N/A	80	120	80	120

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
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ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
SW8021 - Volatiles										
Benzene	39	150	20	39	150	20	N/A	N/A	N/A	N/A
Chlorobenzene	55	135	20	55	135	20	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	37	154	20	37	154	20	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	50	141	20	50	141	20	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	42	143	20	42	143	20	N/A	N/A	N/A	N/A
Toluene	46	148	20	46	148	20	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethene	38	155	20	38	155	20	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene	38	155	20	38	155	20	N/A	N/A	N/A	N/A
Ethylbenzene	32	160	20	32	160	20	N/A	N/A	N/A	N/A
Xylene (Total)	80	128	20	80	128	20	N/A	N/A	N/A	N/A
Bromodichloromethane	42	172	20	42	172	20	N/A	N/A	N/A	N/A
Bromomethane	D	144	20	D	144	20	N/A	N/A	N/A	N/A
2-Chloroethyl vinyl ether	14	186	20	14	186	20	N/A	N/A	N/A	N/A
Chlorobenzene	38	150	20	38	150	20	N/A	N/A	N/A	N/A
Chloroethane	46	137	20	46	137	20	N/A	N/A	N/A	N/A
Chloromethane	D	193	20	D	193	20	N/A	N/A	N/A	N/A
Carbon Tetrachloride	43	143	20	43	143	20	N/A	N/A	N/A	N/A
Dibromochloromethane	24	191	20	24	191	20	N/A	N/A	N/A	N/A
Dichloromethane	25	162	20	25	162	20	N/A	N/A	N/A	N/A
1,2,-Dichlorpropane	44	156	20	44	156	20	N/A	N/A	N/A	N/A
1,1-Dichloroethane	28	167	20	28	167	20	N/A	N/A	N/A	N/A
1,2-Dichloroethane	51	147	20	51	147	20	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	D	208	20	D	208	20	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	7	187	20	7	187	20	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	42	143	20	42	143	20	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene	38	155	20	38	155	20	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene	22	178	20	22	178	20	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropene	22	178	20	22	178	20	N/A	N/A	N/A	N/A
Trichlorofluoromethane	21	156	20	21	156	20	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	8	184	20	8	184	20	N/A	N/A	N/A	N/A
Bromoform	13	159	20	13	159	20	N/A	N/A	N/A	N/A
[d]Surrogates	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E625 - Semivolatiles										
1,2,4-Trichlorobenzene	40	113	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	32	129	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	D	172	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	20	124	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol	37	144	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dichlorophenol	39	135	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dimethylphenol	32	119	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrophenol	D	191	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene	39	139	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,6-Dinitrotoluene	50	158	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Chloronaphthalene	60	118	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Chlorophenol	23	134	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
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ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
2-Nitrophenol	29	182	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	D	262	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,6-Dinitro-2-methylphenol	D	181	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Bromophenyl-phenylether	53	127	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Chloro-3-methylphenol	22	147	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Chlorophenyl-phenylether	25	158	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Nitrophenol	D	132	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acenaphthene	47	145	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acenaphthylene	33	145	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anthracene	27	133	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)anthracene	33	143	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	17	163	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	24	159	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(g,h,i)perylene	D	219	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	11	162	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
bis(2-Chloroethoxy)methane	33	184	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
bis(2-Chloroethyl)ether	12	158	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
bis(2-Chloroisopropyl)ether	36	166	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
bis(2-Ethylhexyl)phthalate	8	158	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Butylbenzylphthalate	D	152	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	17	168	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Di-n-butylphthalate	1	118	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Di-n-octylphthalate	4	146	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	D	227	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Diethylphthalate	D	114	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dimethylphthalate	D	112	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fluoranthene	26	137	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fluorene	59	121	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorobenzene	D	152	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachlorobutadiene	24	116	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexachloroethane	40	113	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	D	171	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Isophorone	21	196	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N-Nitroso-di-n-propylamine	D	230	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Naphthalene	21	133	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	35	180	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	14	176	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenanthrene	54	120	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenol	5	112	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene	52	115	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,6-Tribromophenol	N/A	N/A	N/A	N/A	N/A	N/A	10	123	19	122
2-Fluorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	43	116	30	115
2-Fluorophenol	N/A	N/A	N/A	N/A	N/A	N/A	21	100	25	121
Nitrobenzene-D5	N/A	N/A	N/A	N/A	N/A	N/A	35	114	23	120
Phenol-d5	N/A	N/A	N/A	N/A	N/A	N/A	10	94	24	113
Phenol-d6	N/A	N/A	N/A	N/A	N/A	N/A	10	94	24	113

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
Data Quality Assessment
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ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
Terphenyl-D14	N/A	N/A	N/A	N/A	N/A	N/A	33	141	18	137
SW8270 - Semivolatiles										
1,2,4-Trichlorobenzene	40	113	28	40	113	23	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	32	129	20	32	129	20	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	D	172	20	D	172	20	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene	20	124	28	20	124	27	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol	37	144	20	37	144	20	N/A	N/A	N/A	N/A
2,4-Dichlorophenol	39	135	20	39	135	20	N/A	N/A	N/A	N/A
2,4-Dimethylphenol	32	119	20	32	119	20	N/A	N/A	N/A	N/A
2,4-Dinitrophenol	D	191	20	D	191	20	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene	39	139	38	39	139	47	N/A	N/A	N/A	N/A
2,6-Dinitrotoluene	50	158	20	50	158	20	N/A	N/A	N/A	N/A
2-Chloronaphthalene	60	118	20	60	118	20	N/A	N/A	N/A	N/A
2-Chlorophenol	23	134	40	23	134	50	N/A	N/A	N/A	N/A
2-Nitrophenol	29	182	20	29	182	20	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	D	262	20	D	262	20	N/A	N/A	N/A	N/A
4,6-Dinitro-2-methylphenol	D	181	20	D	181	20	N/A	N/A	N/A	N/A
4-Bromophenyl-phenylether	53	127	20	53	127	20	N/A	N/A	N/A	N/A
4-Chloro-3-methylphenol	22	147	42	22	147	33	N/A	N/A	N/A	N/A
4-Chlorophenyl-phenylether	25	158	20	25	158	20	N/A	N/A	N/A	N/A
4-Nitrophenol	D	132	50	11	114	50	N/A	N/A	N/A	N/A
4-Nitrophenol	D	132	20	D	132	20	N/A	N/A	N/A	N/A
Acenaphthene	47	145	31	47	145	19	N/A	N/A	N/A	N/A
Acenaphthylene	33	145	20	33	145	20	N/A	N/A	N/A	N/A
Anthracene	27	133	20	27	133	20	N/A	N/A	N/A	N/A
Benzo(a)anthracene	33	143	20	33	143	20	N/A	N/A	N/A	N/A
Benzo(a)pyrene	17	163	20	17	163	20	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	24	159	20	24	159	20	N/A	N/A	N/A	N/A
Benzo(g,h,i)perylene	D	219	20	D	219	20	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	11	162	20	11	162	20	N/A	N/A	N/A	N/A
bis(2-Chloroethoxy)methane	33	184	20	33	184	20	N/A	N/A	N/A	N/A
bis(2-Chloroethyl)ether	12	158	20	12	158	20	N/A	N/A	N/A	N/A
bis(2-Chloroisopropyl)ether	36	166	20	36	166	20	N/A	N/A	N/A	N/A
bis(2-Ethylhexyl)phthalate	8	158	20	8	158	20	N/A	N/A	N/A	N/A
Butylbenzylphthalate	D	152	20	D	152	20	N/A	N/A	N/A	N/A
Chrysene	17	168	20	17	168	20	N/A	N/A	N/A	N/A
Di-n-butylphthalate	1	118	20	1	118	20	N/A	N/A	N/A	N/A
Di-n-octylphthalate	4	146	20	4	146	20	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	D	227	20	D	227	20	N/A	N/A	N/A	N/A
Diethylphthalate	D	114	20	D	114	20	N/A	N/A	N/A	N/A
Dimethylphthalate	D	112	20	D	112	20	N/A	N/A	N/A	N/A
Fluoranthene	26	137	20	26	137	20	N/A	N/A	N/A	N/A
Fluorene	59	121	20	59	121	20	N/A	N/A	N/A	N/A
Hexachlorobenzene	D	152	20	D	152	20	N/A	N/A	N/A	N/A
Hexachlorobutadiene	24	116	20	24	116	20	N/A	N/A	N/A	N/A
Hexachloroethane	40	113	20	40	113	20	N/A	N/A	N/A	N/A

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
Indeno(1,2,3-cd)pyrene	D	171	20	D	171	20	N/A	N/A	N/A	N/A
Isophorone	21	196	20	21	196	20	N/A	N/A	N/A	N/A
N-Nitroso-di-n-propylamine	D	230	38	D	230	38	N/A	N/A	N/A	N/A
Naphthalene	21	133	20	21	133	20	N/A	N/A	N/A	N/A
Nitrobenzene	35	180	20	35	180	20	N/A	N/A	N/A	N/A
Pentachlorophenol	14	176	50	14	176	47	N/A	N/A	N/A	N/A
Phenanthrene	54	120	20	54	120	20	N/A	N/A	N/A	N/A
Phenol	5	112	42	5	112	35	N/A	N/A	N/A	N/A
Pyrene	52	115	31	52	115	36	N/A	N/A	N/A	N/A
2,4,6-Tribromophenol	N/A	N/A	N/A	N/A	N/A	N/A	10	123	19	122
2-Fluorophenol	N/A	N/A	N/A	N/A	N/A	N/A	21	100	25	121
Phenol-d5	N/A	N/A	N/A	N/A	N/A	N/A	10	94	24	113
Phenol-d6	N/A	N/A	N/A	N/A	N/A	N/A	10	94	24	113
Terphenyl-D14	N/A	N/A	N/A	N/A	N/A	N/A	33	141	18	137
2-Fluorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	43	116	30	115
Nitrobenzene-D5	N/A	N/A	N/A	N/A	N/A	N/A	35	114	23	120
E608 - Pesticide/PCBs										
4,4'-DDD	31	141	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	30	145	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	25	160	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin	42	122	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alpha BHC	37	134	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beta BHC	17	147	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane	45	119	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Delta BHC	19	140	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	36	146	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I	45	153	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan II	D	202	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan Sulfate	26	144	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	30	147	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GAMMA BHC (Lindane)	32	127	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	34	111	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor Epoxide	37	142	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCB-1016	50	114	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCB-1221	15	178	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCB-1232	10	215	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCB-1242	39	150	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCB-1248	38	158	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCB-1254	29	131	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCB-1260	8	127	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	41	126	20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
[e]Surrogates	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SW8080 - Pesticide/PCBs										
4,4'-DDD	31	141	20	31	141	20	N/A	N/A	N/A	N/A
4,4'-DDE	30	145	20	30	145	20	N/A	N/A	N/A	N/A
4,4'-DDT	25	160	20	25	160	20	N/A	N/A	N/A	N/A

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
Aldrin	42	122	20	42	122	20	N/A	N/A	N/A	N/A
Alpha BHC	37	134	20	37	134	20	N/A	N/A	N/A	N/A
Beta BHC	17	147	20	17	147	20	N/A	N/A	N/A	N/A
Chlordane	45	119	20	45	119	20	N/A	N/A	N/A	N/A
Delta BHC	19	140	20	19	140	20	N/A	N/A	N/A	N/A
Dieldrin	36	146	20	36	146	20	N/A	N/A	N/A	N/A
Endosulfan I	45	153	20	45	153	20	N/A	N/A	N/A	N/A
Endosulfan II	D	202	20	D	202	20	N/A	N/A	N/A	N/A
Endosulfan Sulfate	26	144	20	26	144	20	N/A	N/A	N/A	N/A
Endrin	30	147	20	30	147	20	N/A	N/A	N/A	N/A
Gamma BHC (Lindane)	32	127	20	32	127	20	N/A	N/A	N/A	N/A
Heptachlor	34	111	20	34	111	20	N/A	N/A	N/A	N/A
Heptachlor Epoxide	37	142	20	37	142	20	N/A	N/A	N/A	N/A
[g]PCB-1016	50	114	20	50	114	20	N/A	N/A	N/A	N/A
PCB-1221	15	178	20	15	178	20	N/A	N/A	N/A	N/A
PCB-1232	10	215	20	10	215	20	N/A	N/A	N/A	N/A
PCB-1242	39	150	20	39	150	20	N/A	N/A	N/A	N/A
PCB-1248	38	158	20	38	158	20	N/A	N/A	N/A	N/A
PCB-1254	29	131	20	29	131	20	N/A	N/A	N/A	N/A
PCB-1260	8	127	20	8	127	20	N/A	N/A	N/A	N/A
Toxaphene	41	126	20	41	126	20	N/A	N/A	N/A	N/A
Decachlorobiphenyl	N/A	N/A	N/A	N/A	N/A	N/A	60	140	60	140
Tetrachloro-m-xylene	N/A	N/A	N/A	N/A	N/A	N/A	60	140	60	140
Triphenylphosphate	N/A	N/A	N/A	N/A	N/A	N/A	40	130	35	130
SW6010 - Metals ([h]ICP)										
Aluminum	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Antimony	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Arsenic	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Barium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Beryllium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Boron	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Cadmium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Calcium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Chromium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Cobalt	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Copper	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Iron	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Lead	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Magnesium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Manganese	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Molybdenum	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Nickel	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Potassium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Selenium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Silver	75	125	20	75	125	20	N/A	N/A	N/A	N/A

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
Sodium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Thallium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Vanadium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Zinc	75	125	20	75	125	20	N/A	N/A	N/A	N/A
METALS ([d]GFAA)										
SW7421										
Lead	75	125	20	75	125	20	N/A	N/A	N/A	N/A
SW7740										
Selenium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
SW7841										
Thallium	75	125	20	75	125	20	N/A	N/A	N/A	N/A
SW7060										
Arsenic	75	125	20	75	125	20	N/A	N/A	N/A	N/A
METALS ([d]CVAA)										
SW7470/71										
Mercury	75	125	20	75	125	20	N/A	N/A	N/A	N/A
WET CHEMISTRY										
E300.0										
Bromide	75	125	15	75	125	15	N/A	N/A	N/A	N/A
Chloride	75	125	15	75	125	15	N/A	N/A	N/A	N/A
Nitrogen, Nitrate-Nitrite	75	125	15	75	125	15	N/A	N/A	N/A	N/A
Sulfate	75	125	15	75	125	15	N/A	N/A	N/A	N/A
Total Phosphorus (Orthophosphate)	75	125	15	75	125	15	N/A	N/A	N/A	N/A
E335.2										
Cyanide	75	125	20	75	125	20	N/A	N/A	N/A	N/A
E413.2										
Oil & Grease	75	125	20	75	125	20	N/A	N/A	N/A	N/A
E418.1										
Petroleum Hydrocarbons	75	125	20	75	125	20	N/A	N/A	N/A	N/A
A5520C										
Petroleum Hydrocarbons	75	125	20	75	125	20	N/A	N/A	N/A	N/A
E150.1										
pH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E160.1										
Total Disolved Solids	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E160.2										
Total Suspended Solids	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E310.1										
Alkalinity (Total)	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Carbonate	75	125	20	75	125	20	N/A	N/A	N/A	N/A
Bicarbonate	75	125	20	75	125	20	N/A	N/A	N/A	N/A
E310.2										
Alkalinity (Total)	75	125	20	75	125	20	N/A	N/A	N/A	N/A
E325.2										
Chloride	75	125	20	75	125	20	N/A	N/A	N/A	N/A

TABLE B.3 (Continued)
CONTROL LIMITS FOR MATRIX SPIKE/MATRIX SPIKE DUPLICATES (MS/MSD), LABORATORY CONTROL SPIKES/LABORATORY CONTROL SPIKE DUPLICATES (LCS/LCSD), AND SURROGATES
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Fort Worth, Texas

ANALYTICAL METHOD	MS/MSD AND LCS/LCSD						SURROGATE			
	WATER			SOIL			WATER		SOIL	
	RECOVERY %			RECOVERY %			RECOVERY %		RECOVERY %	
ANALYTE	[a]LCL	[b]UCL	[c]RPD	LCL	UCL	RPD	LCL	UCL	LCL	UCL
E353.2										
Nitrate/Nitrite	75	125	20	75	125	20	N/A	N/A	N/A	N/A
E375.4										
Sulfate	75	125	20	75	125	20	N/A	N/A	N/A	N/A
E405.1										
Biological oxygen demand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E410.4										
Chemical oxygen demand	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
E415.1										
Total organic carbon	75	125	20	75	125	20	N/A	N/A	N/A	N/A

[a]LCL = Lower Control Limit
[b]UCL = Upper Control Limit
[c]RPD = Relative Percent Difference
[d]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March 1983)
[e]Surrogates not available in database
[f]SW = EPA SW-846 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3RD Edition (Nov. 1992)
[g]PCB = Polychlorinated Biphenyls
[h]ICP = Inductively Coupled Plazma
[i]GFAA = Graphite Furnace Atomic Adsorption
[j]CVAA = Cold Vapor Atomic Adsorption
[k]D = Detected; result must be grater than the compound detection limit
[l]N/A = Non Applicable

TABLE B.4
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
[a]E413.2	OIL/GREASE	Oil and Grease	[c]BC
E418.1	PHC	Petroleum Hydrocarbons	BC
E524.2	BDCME	Bromodichloromethane	BC
E524.2	BRBZ	Bromobenzene	BC
E524.2	BRCLME	Bromochloromethane	BC
E524.2	BRME	Bromomethane	BC
E524.2	BTBZN	n-Butylbenzene	BC
E524.2	BTBZS	sec-Butylbenzene	BC
E524.2	BTBZT	t-Butylbenzene	BC
E524.2	BZ	Benzene	BC
E524.2	BZME	Toluene	BC
E524.2	CLBZ	Chlorobenzene	BC
E524.2	CLBZME2	2-Chlorotoluene	BC
E524.2	CLBZME4	4-Chlorotoluene	BC
E524.2	CLEA	Chloroethane	BC
E524.2	CLME	Chloromethane	BC
E524.2	CTCL	Carbon Tetrachloride	BC
E524.2	CYMP	p-Cymene(o-isopropyltoluene)	BC
E524.2	DBCME	Dibromochloromethane	BC
E524.2	DBCP	1,2-Dibromo-3-chloropropane	BC
E524.2	DBMA	Dibromomethane	BC
E524.2	DCA11	1,1-Dichloroethane	BC
E524.2	DCA12	1,2-Dichloroethane	BC
E524.2	DCBZ12	1,2-Dichlorobenzene	BC
E524.2	DCBZ13	1,3-Dichlorobenzene	BC
E524.2	DCBZ14	1,4-Dichlorobenzene	BC
E524.2	DCE11	1,1-Dichloroethene	BC
E524.2	DCE12C	cis-1,2-Dichloroethene	BC
E524.2	DCE12T	trans-1,2-Dichloroethene	BC
E524.2	DCP11	1,1-Dichloropropene	BC
E524.2	DCP13C	cis-1,3-Dichloropropene	BC
E524.2	DCP13T	trans-1,3-Dichloropropene	BC
E524.2	DCPA12	1,2-Dichloropropane	BC
E524.2	DCPA13	1,3-Dichloropropane	BC
E524.2	DCPA22	2,2-Dichloropropane	BC
E524.2	EBZ	Ethylbenzene	BC
E524.2	EDB	Ethylene Dibromide	BC
E524.2	FC11	Trichlorofluoromethane	BC
E524.2	FC113	Freon 113	BC
E524.2	FC12	Dichlorodifluoromethane	BC

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E524.2	HCBU	Hexachlorobutadiene	BC
E524.2	IPBZ	Isopropylbenzene	BC
E524.2	MTLNCL	Methylene Chloride	BC
E524.2	NAPH	Naphthalene	BC
E524.2	PBZN	n-propylbenzene	BC
E524.2	PCA	1,1,2,2-Tetrachloroethane	BC
E524.2	PCE	Tetrachloroethene	BC
E524.2	STY	Styrene	BC
E524.2	TBME	Bromoform	BC
E524.2	TC1112	1,1,1,2-Tetrachloroethane	BC
E524.2	TCA111	1,1,1-Trichloroethane	BC
E524.2	TCA112	1,1,2-Trichloroethane	BC
E524.2	TCB123	1,2,3-Trimethylbenzene	BC
E524.2	TCB124	1,2,4-Trichlorobenzene	BC
E524.2	TCE	Trichloroethene	BC
E524.2	TCLME	Chloroform	BC
E524.2	TCPR123	1,2,3-Trichloropropane	BC
E524.2	TMB124	1,2,4-Trimethylbenzene	BC
E524.2	TMB135	1,3,5-Trimethylbenzene	BC
E524.2	VC	Vinyl Chloride	BC
E524.2	XYLM	Xylene-m	BC
E524.2	XYLMP	Xylene-m,p	BC
E524.2	XYLO	Xylene-o	BC
E524.2	XYLP	Xylene-p	BC
SW6010	AG	Silver	BC
SW6010	AL	Aluminum	BC
SW6010	AS	Arsenic	BC
SW6010	BA	Barium	BC
SW6010	BE	Beryllium	BC
SW6010	CA	Calcium	BC
SW6010	CD	Cadmium	BC
SW6010	CO	Cobalt	BC
SW6010	CR	Chromium	BC
SW6010	CU	Copper	BC
SW6010	FE	Iron	BC
SW6010	K	Potassium	BC
SW6010	MG	Magnesium	BC
SW6010	MN	Manganese	BC
SW6010	MO	Molybdenum	BC
SW6010	NA	Sodium	BC
SW6010	NI	Nickel	BC

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW6010	PB	Lead	BC
SW6010	SB	Antimony	BC
SW6010	SE	Selenium	BC
SW6010	TL	Thallium	BC
SW6010	V	Vanadium	BC
SW6010	ZN	Zinc	BC
SW7421	PB	Lead	BC
SW8015	EE	Diethylether	BC
SW8015	ETHANOL	Ethanol	BC
SW8015	MEK	2-Butanone	BC
SW8015	MIBK	4-Methyl-2-Pentanone	BC
SW8240	DCBE14T	trans-1,4-Dichloro-2-Butene	BC
SW8240	DCE11	1,1-Dichloroethene	BC
SW8240	DCE12C	cis-1,2-Dichloroethene	BC
SW8240	DCE12T	trans-1,2-Dichloroethene	BC
SW8240	DCP13C	cis-1,3-Dichloropropene	BC
SW8240	DCP13T	trans-1,3-Dichloropropene	BC
SW8240	DCPA12	1,2-Dichloropropane	BC
SW8240	EBZ	Ethylbenzene	BC
SW8240	EMETHACRY	Ethyl Methacrylate	BC
SW8240	FC11	Trichlorofluoromethane	BC
SW8240	FC12	Dichlorodifluoromethane	BC
SW8240	HXO2	2-Hexanone	BC
SW8240	IME	Iodomethane	BC
SW8240	MEK	2-Butanone	BC
SW8240	MIBK	4-Methyl-2-Pentanone	BC
SW8240	MTLNCL	Methylene Chloride	BC
SW8240	PCA	1,1,2,2-Tetrachloroethane	BC
SW8240	PCE	Tetrachloroethene	BC
SW8240	STY	Styrene	BC
SW8240	TBME	Bromoform	BC
SW8240	TCA111	1,1,1-Trichloroethane	BC
SW8240	TCA112	1,1,2-Trichloroethane	BC
SW8240	TCE	Trichloroethene	BC
SW8240	TCLME	Chloroform	BC
SW8240	TCPR123	1,2,3-Trichloropropane	BC
SW8240	VA	Vinyl Acetate	BC
SW8240	VC	Vinyl Chloride	BC
SW8240	XYLENES	Xylene (Total)	BC
SW8270	ACNP	Acenaphthene	BC
SW8270	ACNPY	Acenaphthylene	BC

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	ACPHN	Acetophenone	BC
SW8270	AMINOBPH4	4-Aminobiphenyl	BC
SW8270	AMINONAPH1	1-Naphthylamine	BC
SW8270	Aniline	Aniline	BC
SW8270	ANTH	Anthracene	BC
SW8270	BBP	Butylbenzylphthalate	BC
SW8270	BECEM	bis(2-Chloroethoxy)methane	BC
SW8270	BIS2CEE	bis(2-Chloroethyl)ether	BC
SW8270	BIS2CIE	bis(2-Chloroisopropyl)ether	BC
SW8270	BIS2EHP	bis(2-Ethylhexyl)phthalate	BC
SW8270	BPPE4	4-Bromophenyl-phenylether	BC
SW8270	BZAA	Benzo(a)anthracene	BC
SW8270	BZACID	Benzoic Acid	BC
SW8270	BZAP	Benzo(a)pyrene	BC
SW8270	BZBF	Benzo(b)fluoranthene	BC
SW8270	BZD	Benzidine	BC
SW8270	BZGHIP	Benzo(g,h,i)perylene	BC
SW8270	BZKF	Benzo(k)fluoranthene	BC
SW8270	BZLAL	Benzyl Alcohol	BC
SW8270	C4BZ1245	1,2,4,5-Tetrachlorobenzene	BC
SW8270	C4M3PH	4-Chloro-3-methylphenol	BC
SW8270	CHRYSENE	Chrysene	BC
SW8270	CLANIL4	4-ChloroAniline	BC
SW8270	CLNPH1	1-Chloronaphthalene	BC
SW8270	CLPH2	2-Chlorophenol	BC
SW8270	CNPH2	2-Chloronaphthalene	BC
SW8270	CPPE4	4-Chlorophenyl-phenylether	BC
SW8270	DBAHA	Dibenz(a,h)anthracene	BC
SW8270	DBF	Dibenzofuran	BC
SW8270	DBZD33	3,3'-Dichlorobenzidine	BC
SW8270	DCBZ12	1,2-Dichlorobenzene	BC
SW8270	DCBZ13	1,3-Dichlorobenzene	BC
SW8270	DCBZ14	1,4-Dichlorobenzene	BC
SW8270	DCP24	2,4-Dichlorophenol	BC
SW8270	DCP26	2,6-Dichlorophenol	BC
SW8270	DEPH	Diethylphthalate	BC
SW8270	DMBZA712	7,12-Dimethylbenz(a)Anthracene	BC
SW8270	DMP24	2,4-Dimethylphenol	BC
SW8270	DMPH	Dimethylphthalate	BC
SW8270	DN46M	4,6-Dinitro-2-methylphenol	BC
SW8270	DNBP	Di-n-butylphthalate	BC

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	DNOP	Di-n-octylphthalate	BC
SW8270	DNP24	2,4-Dinitrophenol	BC
SW8270	DNT24	2,4-Dinitrotoluene	BC
SW8270	DNT26	2,6-Dinitrotoluene	BC
SW8270	DPA	Diphenylamine	BC
SW8270	DPHY12	1,2-Diphenylhydrazine	BC
SW8270	EMSULFN	Ethyl Methanesulfonate	BC
SW8270	FL	Fluorene	BC
SW8270	FLA	Fluoranthene	BC
SW8270	HCBU	Hexachlorobutadiene	BC
SW8270	HCCP	Hexachlorocyclopentadiene	BC
SW8270	HCLBZ	Hexachlorobenzene	BC
SW8270	HCLEA	Hexachloroethane	BC
SW8270	INP123	Indeno(1,2,3-cd)pyrene	BC
SW8270	ISOP	Isophorone	BC
SW8270	MECHLAN3	3-Methycholanthrene	BC
SW8270	MEPH2	2-Methylphenol(o-Cresol)	BC
SW8270	MEPH4	4-Methylphenol(p-Cresol)	BC
SW8270	MMSULFN	Methyl Methanesulfonate	BC
SW8270	MTNPH2	2-Methylnaphthalene	BC
SW8270	NAPH	Naphthalene	BC
SW8270	NNSBU	N-Nitro-di-n-Butylamine	BC
SW8270	NNSM	N-Nitrosodimethylamine	BC
SW8270	NNSPH	N-Nitrosodiphenylamine	BC
SW8270	NNSPPRD	N-Nitrosopiperidine	BC
SW8270	NNSPR	N-Nitroso-di-n-propylamine	BC
SW8270	NO2ANIL2	2-NitroAniline	BC
SW8270	NO2ANIL3	3-NitroAniline	BC
SW8270	NO2ANIL4	4-NitroAniline	BC
SW8270	NO2BZ	Nitrobenzene	BC
SW8270	NTPH2	2-Nitrophenol	BC
SW8270	NTPH4	4-Nitrophenol	BC
SW8270	PCP	Pentachlorophenol	BC
SW8270	PDMAABZ	p-Dimethylaminoazobenzene	BC
SW8270	PECLBZ	Pentachlorobenzene	BC
SW8270	PECLNO2BZ	Pentachloronitrobenzene	BC
SW8270	PHAN	Phenanthrene	BC
SW8270	PHENOL	Phenol	BC
SW8270	PHNACTN	Phenacetin	BC
SW8270	PICOLINE2	2-Picoline	BC
SW8270	PRONAMD	Pronamide	BC

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	PYR	Pyrene	BC
SW8270	TCB124	1,2,4-Trichlorobenzene	BC
SW8270	TCP2346	2,3,4,6-Tetrachlorophenal	BC
SW8270	TCP245	2,4,5-Trichlorophenol	BC
SW8270	TCP246	2,4,6-Trichlorophenol	BC
E413.2	OILGREASE	Oil & Grease	[d]BCE
E418.1	PHC	Petroleum Hydrocarbons	BCE
E524.2	BDCME	Bromodichloromethane	BCE
E524.2	BRBZ	Bromobenzene	BCE
E524.2	BRCLME	Bromochloromethane	BCE
E524.2	BRME	Bromomethane	BCE
E524.2	BTBZN	n-Butylbenzene	BCE
E524.2	BTBZS	sec-Butylbenzene	BCE
E524.2	BTBZT	t-Butylbenzene	BCE
E524.2	BZ	Benzene	BCE
E524.2	BZME	Toluene	BCE
E524.2	CLBZ	Chlorobenzene	BCE
E524.2	CLBZME2	2-Chlorotoluene	BCE
E524.2	CLBZME4	4-Chlorotoluene	BCE
E524.2	CLEA	Chloroethane	BCE
E524.2	CLME	Chloromethane	BCE
E524.2	CTCL	Carbon Tetrachloride	BCE
E524.2	CYMP	p-Cymene(o-isopropyltoluene)	BCE
E524.2	DBCME	Dibromochloromethane	BCE
E524.2	DBCP	1,2-Dibromo-3-chloropropane	BCE
E524.2	DBMA	Dibromomethane	BCE
E524.2	DCA11	1,1-Dichloroethane	BCE
E524.2	DCA12	1,2-Dichloroethane	BCE
E524.2	DCBZ12	1,2-Dichlorobenzene	BCE
E524.2	DCBZ13	1,3-Dichlorobenzene	BCE
E524.2	DCBZ14	1,4-Dichlorobenzene	BCE
E524.2	DCE11	1,1-Dichloroethene	BCE
E524.2	DCE12C	cis-1,2-Dichloroethene	BCE
E524.2	DCE12T	trans-1,2-Dichloroethene	BCE
E524.2	DCP11	1,1-Dichloropropene	BCE
E524.2	DCP13C	cis-1,3-Dichloropropene	BCE
E524.2	DCP13T	trans-1,3-Dichloropropene	BCE
E524.2	DCPA12	1,2-Dichloropropane	BCE
E524.2	DCPA13	1,3-Dichloropropane	BCE
E524.2	DCPA22	2,2-Dichloropropane	BCE

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E524.2	EBZ	Ethylbenzene	BCE
E524.2	EDB	Ethylene Dibromide	BCE
E524.2	FC11	Trichlorofluoromethane	BCE
E524.2	HCBU	Hexachlorobutadiene	BCE
E524.2	IPBZ	Isopropylbenzene	BCE
E524.2	MTLNCL	Methylene Chloride	BCE
E524.2	NAPH	Naphthalene	BCE
E524.2	PBZN	n-propylbenzene	BCE
E524.2	PCA	1,1,2,2-Tetrachloroethane	BCE
E524.2	PCE	Tetrachloroethene	BCE
E524.2	STY	Styrene	BCE
E524.2	TBME	Bromoform	BCE
E524.2	TC1112	1,1,1,2-Tetrachloroethane	BCE
E524.2	TCA111	1,1,1-Trichloroethane	BCE
E524.2	TCA112	1,1,2-Trichloroethane	BCE
E524.2	TCB123	1,2,3-Trimethylbenzene	BCE
E524.2	TCB124	1,2,4-Trichlorobenzene	BCE
E524.2	TCE	Trichloroethene	BCE
E524.2	TCLME	Chloroform	BCE
E524.2	TCPR123	1,2,3-Trichloropropane	BCE
E524.2	TMB124	1,2,4-Trimethylbenzene	BCE
E524.2	TMB135	1,3,5-Trimethylbenzene	BCE
E524.2	VC	Vinyl Chloride	BCE
E524.2	XYLMP	Xylene-m,p	BCE
E524.2	XYLO	Xylene-o	BCE
SW6010	AG	Silver	BCE
SW6010	AL	Aluminum	BCE
SW6010	AS	Arsenic	BCE
SW6010	BA	Barium	BCE
SW6010	BE	Beryllium	BCE
SW6010	CA	Calcium	BCE
SW6010	CD	Cadmium	BCE
SW6010	CO	Cobalt	BCE
SW6010	CR	Chromium	BCE
SW6010	CU	Copper	BCE
SW6010	FE	Iron	BCE
SW6010	K	Potassium	BCE
SW6010	MG	Magnesium	BCE
SW6010	MN	Manganese	BCE
SW6010	MO	Molybdenum	BCE
SW6010	NA	Sodium	BCE

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW6010	NI	Nickel	BCE
SW6010	PB	Lead	BCE
SW6010	SB	Antimony	BCE
SW6010	SE	Selenium	BCE
SW6010	TL	Thallium	BCE
SW6010	V	Vanadium	BCE
SW6010	ZN	Zinc	BCE
SW7421	PB	Lead	BCE
SW8015	EE	Diethylether	BCE
SW8015	ETHANOL	Ethanol	BCE
SW8015	MEK	2-Butanone	BCE
SW8015	MIBK	4-Methyl-2-Pentanone	BCE
SW8015	TFBZME	1,1,1-Trifluorotoluene	BCE
SW8240	ACE	Acetone	BCE
SW8240	ACRL	Acrolein	BCE
SW8240	ACRN	Acrylnitrile	BCE
SW8240	BDCME	Bromodichloromethane	BCE
SW8240	BRME	Bromomethane	BCE
SW8240	BZ	Benzene	BCE
SW8240	BZME	Toluene	BCE
SW8240	CDS	Carbon Disulfide	BCE
SW8240	CEVETH	2-Chloroethyl vinyl ether	BCE
SW8240	CLBZ	Chlorobenzene	BCE
SW8240	CLEA	Chloroethane	BCE
SW8240	CLME	Chloromethane	BCE
SW8240	CTCL	Carbon Tetrachloride	BCE
SW8240	DBCME	Dibromochloromethane	BCE
SW8240	DBMA	Dibromomethane	BCE
SW8240	DCA11	1,1-Dichloroethane	BCE
SW8240	DCA12	1,2-Dichloroethane	BCE
SW8240	DCBE14T	trans-1,4-Dichloro-2-Butene	BCE
SW8240	DCE11	1,1-Dichloroethene	BCE
SW8240	DCE12C	cis-1,2-Dichloroethene	BCE
SW8240	DCE12T	trans-1,2-Dichloroethene	BCE
SW8240	DCP13C	cis-1,3-Dichloropropene	BCE
SW8240	DCP13T	trans-1,3-Dichloropropene	BCE
SW8240	DCPA12	1,2-Dichloropropane	BCE
SW8240	EBZ	Ethylbenzene	BCE
SW8240	EMETHACRY	Ethyl Methacrylate	BCE
SW8240	FC11	Trichlorofluoromethane	BCE
SW8240	FC12	Dichlorodifluoromethane	BCE

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8240	HXO2	2-Hexanone	BCE
SW8240	IME	Iodomethane	BCE
SW8240	LPC4C8	Light Petroleum Distillate C4-C8	BCE
SW8240	MEK	2-Butanone	BCE
SW8240	MIBK	4-Methyl-2-Pentanone	BCE
SW8240	MTLNCL	Methylene Chloride	BCE
SW8240	PCA	1,1,2,2-Tetrachloroethane	BCE
SW8240	PCE	Tetrachloroethene	BCE
SW8240	STY	Styrene	BCE
SW8240	TBME	Bromoform	BCE
SW8240	TCA111	1,1,1-Trichloroethane	BCE
SW8240	TCA112	1,1,2-Trichloroethane	BCE
SW8240	TCE	Trichloroethene	BCE
SW8240	TCLME	Chloroform	BCE
SW8240	TCPR123	1,2,3-Trichloropropane	BCE
SW8240	VA	Vinyl Acetate	BCE
SW8240	VC	Vinyl Chloride	BCE
SW8240	XYLENES	Xylene (Total)	BCE
SW8270	ACNP	Acenaphthene	BCE
SW8270	ACNPY	Acenaphthylene	BCE
SW8270	ACPHN	Acetophenone	BCE
SW8270	AMINOBPH4	4-Aminobiphenyl	BCE
SW8270	AMINONAPH1	1-Naphthylamine	BCE
SW8270	AMINONAPH2	2-Aminonaphthalene	BCE
SW8270	Aniline	Aniline	BCE
SW8270	ANTH	Anthracene	BCE
SW8270	BBP	Butylbenzylphthalate	BCE
SW8270	BECEM	bis(2-Chloroethoxy)methane	BCE
SW8270	BIS2CEE	bis(2-Chloroethyl)ether	BCE
SW8270	BIS2CIE	bis(2-Chloroisopropyl)ether	BCE
SW8270	BIS2EHP	bis(2-Ethylhexyl)phthalate	BCE
SW8270	BPPE4	4-Bromophenyl-phenylether	BCE
SW8270	BZAA	Benzo(a)anthracene	BCE
SW8270	BZACID	Benzoic Acid	BCE
SW8270	BZAP	Benzo(a)pyrene	BCE
SW8270	BZBF	Benzo(b)fluoranthene	BCE
SW8270	BZD	Benzidine	BCE
SW8270	BZGHIP	Benzo(g,h,i)perylene	BCE
SW8270	BZKF	Benzo(k)fluoranthene	BCE
SW8270	BZLAL	Benzyl Alcohol	BCE
SW8270	C4BZ1245	1,2,4,5-Tetrachlorobenzene	BCE

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	C4M3PH	4-Chloro-3-methylphenol	BCE
SW8270	CHRYSENE	Chrysene	BCE
SW8270	CLANIL4	4-ChloroAniline	BCE
SW8270	CLNPH1	1-Chloronaphthalene	BCE
SW8270	CLPH2	2-Chlorophenol	BCE
SW8270	CNPH2	2-Chloronaphthalene	BCE
SW8270	CPPE4	4-Chlorophenyl-phenylether	BCE
SW8270	DBAHA	Dibenz(a,h)anthracene	BCE
SW8270	DBF	Dibenzofuran	BCE
SW8270	DBZD33	3,3'-Dichlorobenzidine	BCE
SW8270	DCBZ12	1,2-Dichlorobenzene	BCE
SW8270	DCBZ13	1,3-Dichlorobenzene	BCE
SW8270	DCBZ14	1,4-Dichlorobenzene	BCE
SW8270	DCP24	2,4-Dichlorophenol	BCE
SW8270	DCP26	2,6-Dichlorophenol	BCE
SW8270	DEPH	Diethylphthalate	BCE
SW8270	DMBZA712	7,12-Dimethylbenz(a)Anthracene	BCE
SW8270	DMP24	2,4-Dimethylphenol	BCE
SW8270	DMPH	Dimethylphthalate	BCE
SW8270	DN46M	4,6-Dinitro-2-methylphenol	BCE
SW8270	DNBP	Di-n-butylphthalate	BCE
SW8270	DNOP	Di-n-octylphthalate	BCE
SW8270	DNP24	2,4-Dinitrophenol	BCE
SW8270	DNT24	2,4-Dinitrotoluene	BCE
SW8270	DNT26	2,6-Dinitrotoluene	BCE
SW8270	DPA	Diphenylamine	BCE
SW8270	DPHY12	1,2-Diphenylhydrazine	BCE
SW8270	EMSULFN	Ethyl Methanesulfonate	BCE
SW8270	FL	Fluorene	BCE
SW8270	FLA	Fluoranthene	BCE
SW8270	HCBU	Hexachlorobutadiene	BCE
SW8270	HCCP	Hexachlorocyclopentadiene	BCE
SW8270	HCLBZ	Hexachlorobenzene	BCE
SW8270	HCLEA	Hexachloroethane	BCE
SW8270	INP123	Indeno(1,2,3-cd)pyrene	BCE
SW8270	ISOP	Isophorone	BCE
SW8270	MECHLAN3	3-Methycholanthrene	BCE
SW8270	MEPH2	2-Methylphenol(o-Cresol)	BCE
SW8270	MEPH4	4-Methylphenol(p-Cresol)	BCE
SW8270	MMSULFN	Methyl Methanesulfonate	BCE
SW8270	MPEA11	Alpha,Alpha-Dimethylphenethylamine	BCE

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	MTNPH2	2-Methylnaphthalene	BCE
SW8270	NAPH	Naphthalene	BCE
SW8270	NNSBU	N-Nitro-di-n-Butylamine	BCE
SW8270	NNSM	N-Nitrosodimethylamine	BCE
SW8270	NNSPH	N-Nitrosodiphenylamine	BCE
SW8270	NNSPPRD	N-Nitrosopiperidine	BCE
SW8270	NNSPR	N-Nitroso-di-n-propylamine	BCE
SW8270	NO2ANIL2	2-NitroAniline	BCE
SW8270	NO2ANIL3	3-NitroAniline	BCE
SW8270	NO2ANIL4	4-NitroAniline	BCE
SW8270	NO2BZ	Nitrobenzene	BCE
SW8270	NTPH2	2-Nitrophenol	BCE
SW8270	NTPH4	4-Nitrophenol	BCE
SW8270	PCP	Pentachlorophenol	BCE
SW8270	PDMAABZ	p-Dimethylaminoazobenzene	BCE
SW8270	PECLBZ	Pentachlorobenzene	BCE
SW8270	PECLNO2BZ	Pentachloronitrobenzene	BCE
SW8270	PHAN	Phenanthrene	BCE
SW8270	PHENOL	Phenol	BCE
SW8270	PHNACTN	Phenacetin	BCE
SW8270	PICOLINE2	2-Picoline	BCE
SW8270	PRONAMD	Pronamide	BCE
SW8270	PYR	Pyrene	BCE
SW8270	TCB124	1,2,4-Trichlorobenzene	BCE
SW8270	TCP2346	2,3,4,6-Tetrachlorophenal	BCE
SW8270	TCP245	2,4,5-Trichlorophenol	BCE
SW8270	TCP246	2,4,6-Trichlorophenol	BCE
E413.2	OILGREASE	Oil & Grease	[e]BCG
E418.1	PHC	Petroleum Hydrocarbons	BCG
E524.2	BDCME	Bromodichloromethane	BCG
E524.2	BRBZ	Bromobenzene	BCG
E524.2	BRCLME	Bromochloromethane	BCG
E524.2	BRME	Bromomethane	BCG
E524.2	BTBZN	n-Butylbenzene	BCG
E524.2	BTBZS	sec-Butylbenzene	BCG
E524.2	BTBZT	t-Butylbenzene	BCG
E524.2	BZ	Benzene	BCG
E524.2	BZME	Toluene	BCG
E524.2	CLBZ	Chlorobenzene	BCG
E524.2	CLBZME2	2-Chlorotoluene	BCG

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E524.2	CLBZME4	4-Chlorotoluene	BCG
E524.2	CLEA	Chloroethane	BCG
E524.2	CLME	Chloromethane	BCG
E524.2	CTCL	Carbon Tetrachloride	BCG
E524.2	CYMP	p-Cymene(o-isopropyltoluene)	BCG
E524.2	DBCME	Dibromochloromethane	BCG
E524.2	DBCP	1,2-Dibromo-3-chloropropane	BCG
E524.2	DBMA	Dibromomethane	BCG
E524.2	DCA11	1,1-Dichloroethane	BCG
E524.2	DCA12	1,2-Dichloroethane	BCG
E524.2	DCBZ12	1,2-Dichlorobenzene	BCG
E524.2	DCBZ13	1,3-Dichlorobenzene	BCG
E524.2	DCBZ14	1,4-Dichlorobenzene	BCG
E524.2	DCE11	1,1-Dichloroethene	BCG
E524.2	DCE12C	cis-1,2-Dichloroethene	BCG
E524.2	DCE12T	trans-1,2-Dichloroethene	BCG
E524.2	DCP11	1,1-Dichloropropene	BCG
E524.2	DCP13C	cis-1,3-Dichloropropene	BCG
E524.2	DCP13T	trans-1,3-Dichloropropene	BCG
E524.2	DCPA12	1,2-Dichloropropane	BCG
E524.2	DCPA13	1,3-Dichloropropane	BCG
E524.2	DCPA22	2,2-Dichloropropane	BCG
E524.2	EBZ	Ethylbenzene	BCG
E524.2	EDB	Ethylene Dibromide	BCG
E524.2	FC11	Trichlorofluoromethane	BCG
E524.2	HCBU	Hexachlorobutadiene	BCG
E524.2	IPBZ	Isopropylbenzene	BCG
E524.2	MTLNCL	Methylene Chloride	BCG
E524.2	NAPH	Naphthalene	BCG
E524.2	PBZN	n-propylbenzene	BCG
E524.2	PCA	1,1,2,2-Tetrachloroethane	BCG
E524.2	PCE	Tetrachloroethene	BCG
E524.2	STY	Styrene	BCG
E524.2	TBME	Bromoform	BCG
E524.2	TC1112	1,1,1,2-Tetrachloroethane	BCG
E524.2	TCA111	1,1,1-Trichloroethane	BCG
E524.2	TCA112	1,1,2-Trichloroethane	BCG
E524.2	TCB123	1,2,3-Trimethylbenzene	BCG
E524.2	TCB124	1,2,4-Trichlorobenzene	BCG
E524.2	TCE	Trichloroethene	BCG
E524.2	TCLME	Chloroform	BCG

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E524.2	TCPR123	1,2,3-Trichloropropane	BCG
E524.2	TMB124	1,2,4-Trimethylbenzene	BCG
E524.2	TMB135	1,3,5-Trimethylbenzene	BCG
E524.2	VC	Vinyl Chloride	BCG
E524.2	XYLMP	Xylene-m,p	BCG
E524.2	XYLO	Xylene-o	BCG
SW6010	AG	Silver	BCG
SW6010	AL	Aluminum	BCG
SW6010	AS	Arsenic	BCG
SW6010	BA	Barium	BCG
SW6010	BE	Beryllium	BCG
SW6010	CA	Calcium	BCG
SW6010	CD	Cadmium	BCG
SW6010	CO	Cobalt	BCG
SW6010	CR	Chromium	BCG
SW6010	CU	Copper	BCG
SW6010	FE	Iron	BCG
SW6010	K	Potassium	BCG
SW6010	MG	Magnesium	BCG
SW6010	MN	Manganese	BCG
SW6010	MO	Molybdenum	BCG
SW6010	NA	Sodium	BCG
SW6010	NI	Nickel	BCG
SW6010	PB	Lead	BCG
SW6010	SB	Antimony	BCG
SW6010	SE	Selenium	BCG
SW6010	TL	Thallium	BCG
SW6010	V	Vanadium	BCG
SW6010	ZN	Zinc	BCG
SW7421	PB	Lead	BCG
SW8015	EE	Diethylether	BCG
SW8015	MEK	2-Butanone	BCG
SW8015	MIBK	4-Methyl-2-Pentanone	BCG
SW8015	TFBZME	1,1,1-Trifluortoluene	BCG
SW8240	ACE	Acetone	BCG
SW8240	ACRL	Acrolein	BCG
SW8240	ACRN	Acrylnitrile	BCG
SW8240	BDCME	Bromodichloromethane	BCG
SW8240	BRME	Bromomethane	BCG
SW8240	BZ	Benzene	BCG
SW8240	BZME	Toluene	BCG

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8240	CDS	Carbon Disulfide	BCG
SW8240	CEVETH	2-Chloroethyl vinyl ether	BCG
SW8240	CLBZ	Chlorobenzene	BCG
SW8240	CLEA	Chloroethane	BCG
SW8240	CLME	Chloromethane	BCG
SW8240	CTCL	Carbon Tetrachloride	BCG
SW8240	DBCME	Dibromochloromethane	BCG
SW8240	DBMA	Dibromomethane	BCG
SW8240	DCA11	1,1-Dichloroethane	BCG
SW8240	DCA12	1,2-Dichloroethane	BCG
SW8240	DCBE14T	trans-1,4-Dichloro-2-Butene	BCG
SW8240	DCE11	1,1-Dichloroethene	BCG
SW8240	DCE12C	cis-1,2-Dichloroethene	BCG
SW8240	DCE12T	trans-1,2-Dichloroethene	BCG
SW8240	DCP13C	cis-1,3-Dichloropropene	BCG
SW8240	DCP13T	trans-1,3-Dichloropropene	BCG
SW8240	DCPA12	1,2-Dichloropropane	BCG
SW8240	EBZ	Ethylbenzene	BCG
SW8240	EMETHACRY	Ethyl Methacrylate	BCG
SW8240	FC11	Trichlorofluoromethane	BCG
SW8240	FC12	Dichlorodifluoromethane	BCG
SW8240	HXO2	2-Hexanone	BCG
SW8240	IME	Iodomethane	BCG
SW8240	MEK	2-Butanone	BCG
SW8240	MIBK	4-Methyl-2-Pentanone	BCG
SW8240	MTLNCL	Methylene Chloride	BCG
SW8240	PCA	1,1,2,2-Tetrachloroethane	BCG
SW8240	PCE	Tetrachloroethene	BCG
SW8240	STY	Styrene	BCG
SW8240	TBME	Bromoform	BCG
SW8240	TCA111	1,1,1-Trichloroethane	BCG
SW8240	TCA112	1,1,2-Trichloroethane	BCG
SW8240	TCE	Trichloroethene	BCG
SW8240	TCLME	Chloroform	BCG
SW8240	TCPR123	1,2,3-Trichloropropane	BCG
SW8240	VA	Vinyl Acetate	BCG
SW8240	VC	Vinyl Chloride	BCG
SW8240	XYLENES	Xylene (Total)	BCG
SW8260	BDCME	Bromodichloromethane	BCG
SW8260	BRME	Bromomethane	BCG
SW8260	BZ	Benzene	BCG

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8260	BZME	Toluene	BCG
SW8260	CLBZ	Chlorobenzene	BCG
SW8260	CLEA	Chloroethane	BCG
SW8260	CLME	Chloromethane	BCG
SW8260	CTCL	Carbon Tetrachloride	BCG
SW8260	DBCME	Dibromochloromethane	BCG
SW8260	DBMA	Dibromomethane	BCG
SW8260	DCA11	1,1-Dichloroethane	BCG
SW8260	DCA12	1,2-Dichloroethane	BCG
SW8260	DCE11	1,1-Dichloroethene	BCG
SW8260	DCE12C	cis-1,2-Dichloroethene	BCG
SW8260	DCE12T	trans-1,2-Dichloroethene	BCG
SW8260	DCPA12	1,2-Dichloropropane	BCG
SW8260	EBZ	Ethylbenzene	BCG
SW8260	FC11	Trichlorofluoromethane	BCG
SW8260	MTLNCL	Methylene Chloride	BCG
SW8260	PCA	1,1,2,2-Tetrachloroethane	BCG
SW8260	PCE	Tetrachloroethene	BCG
SW8260	STY	Styrene	BCG
SW8260	TBME	Bromoform	BCG
SW8260	TCA111	1,1,1-Trichloroethane	BCG
SW8260	TCA112	1,1,2-Trichloroethane	BCG
SW8260	TCE	Trichloroethene	BCG
SW8260	TCLME	Chloroform	BCG
SW8260	VC	Vinyl Chloride	BCG
SW8260	XYLENES	Xylene (Total)	BCG
SW8270	ACNP	Acenaphthene	BCG
SW8270	ACNPY	Acenaphthylene	BCG
SW8270	ACPHN	Acetophenone	BCG
SW8270	AMINOBPH4	4-Aminobiphenyl	BCG
SW8270	AMINONAPH1	1-Naphthylamine	BCG
SW8270	AMINONAPH2	2-Aminonaphthalene	BCG
SW8270	Aniline	Aniline	BCG
SW8270	ANTH	Anthracene	BCG
SW8270	BBP	Butylbenzylphthalate	BCG
SW8270	BECEM	bis(2-Chloroethoxy)methane	BCG
SW8270	BIS2CEE	bis(2-Chloroethyl)ether	BCG
SW8270	BIS2CIE	bis(2-Chloroisopropyl)ether	BCG
SW8270	BIS2EHP	bis(2-Ethylhexyl)phthalate	BCG
SW8270	BPPE4	4-Bromophenyl-phenylether	BCG
SW8270	BZAA	Benzo(a)anthracene	BCG

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	BZACID	Benzoic Acid	BCG
SW8270	BZAP	Benzo(a)pyrene	BCG
SW8270	BZBF	Benzo(b)fluoranthene	BCG
SW8270	BZD	Benzidine	BCG
SW8270	BZGHIP	Benzo(g,h,i)perylene	BCG
SW8270	BZKF	Benzo(k)fluoranthene	BCG
SW8270	BZLAL	Benzyl Alcohol	BCG
SW8270	C4BZ1245	1,2,4,5-Tetrachlorobenzene	BCG
SW8270	C4M3PH	4-Chloro-3-methylphenol	BCG
SW8270	CHRYSENE	Chrysene	BCG
SW8270	CLANIL4	4-ChloroAniline	BCG
SW8270	CLNPH1	1-Chloronaphthalene	BCG
SW8270	CLPH2	2-Chlorophenol	BCG
SW8270	CNPH2	2-Chloronaphthalene	BCG
SW8270	CPPE4	4-Chlorophenyl-phenylether	BCG
SW8270	DBAHA	Dibenz(a,h)anthracene	BCG
SW8270	DBF	Dibenzofuran	BCG
SW8270	DBZD33	3,3'-Dichlorobenzidine	BCG
SW8270	DCBZ12	1,2-Dichlorobenzene	BCG
SW8270	DCBZ13	1,3-Dichlorobenzene	BCG
SW8270	DCBZ14	1,4-Dichlorobenzene	BCG
SW8270	DCP24	2,4-Dichlorophenol	BCG
SW8270	DCP26	2,6-Dichlorophenol	BCG
SW8270	DEPH	Diethylphthalate	BCG
SW8270	DMBZA712	7,12-Dimethylbenz(a)Anthracene	BCG
SW8270	DMP24	2,4-Dimethylphenol	BCG
SW8270	DMPH	Dimethylphthalate	BCG
SW8270	DN46M	4,6-Dinitro-2-methylphenol	BCG
SW8270	DNBP	Di-n-butylphthalate	BCG
SW8270	DNOP	Di-n-octylphthalate	BCG
SW8270	DNP24	2,4-Dinitrophenol	BCG
SW8270	DNT24	2,4-Dinitrotoluene	BCG
SW8270	DNT26	2,6-Dinitrotoluene	BCG
SW8270	DPA	Diphenylamine	BCG
SW8270	DPHY12	1,2-Diphenylhydrazine	BCG
SW8270	EMSULFN	Ethyl Methanesulfonate	BCG
SW8270	FL	Fluorene	BCG
SW8270	FLA	Fluoranthene	BCG
SW8270	HCBU	Hexachlorobutadiene	BCG
SW8270	HCCP	Hexachlorocyclopentadiene	BCG
SW8270	HCLBZ	Hexachlorobenzene	BCG

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	HCLEA	Hexachloroethane	BCG
SW8270	INP123	Indeno(1,2,3-cd)pyrene	BCG
SW8270	ISOP	Isophorone	BCG
SW8270	MECHLAN3	3-Methycholanthrene	BCG
SW8270	MEPH2	2-Methylphenol(o-Cresol)	BCG
SW8270	MEPH4	4-Methylphenol(p-Cresol)	BCG
SW8270	MMSULFN	Methyl Methanesulfonate	BCG
SW8270	MPEA11	Alpha,Alpha-Dimethylphenethylamine	BCG
SW8270	MTNPH2	2-Methylnaphthalene	BCG
SW8270	NAPH	Naphthalene	BCG
SW8270	NNSBU	N-Nitro-di-n-Butylamine	BCG
SW8270	NNSM	N-Nitrosodimethylamine	BCG
SW8270	NNSPH	N-Nitrosodiphenylamine	BCG
SW8270	NNSPPRD	N-Nitrosopiperidine	BCG
SW8270	NNSPR	N-Nitroso-di-n-propylamine	BCG
SW8270	NO2ANIL2	2-NitroAniline	BCG
SW8270	NO2ANIL3	3-NitroAniline	BCG
SW8270	NO2ANIL4	4-NitroAniline	BCG
SW8270	NO2BZ	Nitrobenzene	BCG
SW8270	NTPH2	2-Nitrophenol	BCG
SW8270	NTPH4	4-Nitrophenol	BCG
SW8270	PCP	Pentachlorophenol	BCG
SW8270	PDMAABZ	p-Dimethylaminoazobenzene	BCG
SW8270	PECLBZ	Pentachlorobenzene	BCG
SW8270	PECLNO2BZ	Pentachloronitrobenzene	BCG
SW8270	PHAN	Phenanthrene	BCG
SW8270	PHENOL	Phenol	BCG
SW8270	PHNACTN	Phenacetin	BCG
SW8270	PICOLINE2	2-Picoline	BCG
SW8270	PRONAMD	Pronamide	BCG
SW8270	PYR	Pyrene	BCG
SW8270	TCB124	1,2,4-Trichlorobenzene	BCG
SW8270	TCP2346	2,3,4,6-Tetrachlorophenal	BCG
SW8270	TCP245	2,4,5-Trichlorophenol	BCG
SW8270	TCP246	2,4,6-Trichlorophenol	BCG
E120.1	SC	Conducitivity	[f]FLD
E150.1	PH	pH	FLD
E170.1	TEMP	Temperature	FLD
SW8260	BDCME	Bromodichloromethane	[g]RFWL
SW8260	BRBZ	Bromobenzene	RFWL

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8260	BRCLME	Bromochloromethane	RFWL
SW8260	BRME	Bromomethane	RFWL
SW8260	BTBZN	n-Butylbenzene	RFWL
SW8260	BTBZS	sec-Butylbenzene	RFWL
SW8260	BTBZT	t-Butylbenzene	RFWL
SW8260	BZ	Benzene	RFWL
SW8260	BZME	Toluene	RFWL
SW8260	CLBZ	Chlorobenzene	RFWL
SW8260	CLBZME2	2-Chlorotoluene	RFWL
SW8260	CLBZME4	4-Chlorotoluene	RFWL
SW8260	CLEA	Chloroethane	RFWL
SW8260	CLME	Chloromethane	RFWL
SW8260	CTCL	Carbon Tetrachloride	RFWL
SW8260	CYMP	p-Cymene(o-isopropyltoluene)	RFWL
SW8260	DBCME	Dibromochloromethane	RFWL
SW8260	DBCP	1,2-Dibromo-3-chloropropane	RFWL
SW8260	DBMA	Dibromomethane	RFWL
SW8260	DCA11	1,1-Dichloroethane	RFWL
SW8260	DCA12	1,2-Dichloroethane	RFWL
SW8260	DCBZ12	1,2-Dichlorobenzene	RFWL
SW8260	DCBZ13	1,3-Dichlorobenzene	RFWL
SW8260	DCBZ14	1,4-Dichlorobenzene	RFWL
SW8260	DCE11	1,1-Dichloroethene	RFWL
SW8260	DCE12C	cis-1,2-Dichloroethene	RFWL
SW8260	DCE12T	trans-1,2-Dichloroethene	RFWL
SW8260	DCP11	1,1-Dichloropropene	RFWL
SW8260	DCP13C	cis-1,3-Dichloropropene	RFWL
SW8260	DCP13T	trans-1,3-Dichloropropene	RFWL
SW8260	DCPA12	1,2-Dichloropropane	RFWL
SW8260	DCPA13	1,3-Dichloropropane	RFWL
SW8260	DCPA22	2,2-Dichloropropane	RFWL
SW8260	EBZ	Ethylbenzene	RFWL
SW8260	EDB	Ethylene Dibromide	RFWL
SW8260	FC11	Trichlorofluoromethane	RFWL
SW8260	FC12	Dichlorodifluoromethane	RFWL
SW8260	HCBU	Hexachlorobutadiene	RFWL
SW8260	IPBZ	Isopropylbenzene	RFWL
SW8260	MTLNCL	Methylene Chloride	RFWL
SW8260	NAPH	Naphthalene	RFWL
SW8260	PBZN	n-propylbenzene	RFWL
SW8260	PCA	1,1,2,2-Tetrachloroethane	RFWL

TABLE B.4 (Continued)
TARGET COMPOUND LIST, JACOBS QUARTERLY MONITORING
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8260	PCE	Tetrachloroethene	RFWL
SW8260	STY	Styrene	RFWL
SW8260	TBME	Bromoform	RFWL
SW8260	TC1112	1,1,1,2-Tetrachloroethane	RFWL
SW8260	TCA111	1,1,1-Trichloroethane	RFWL
SW8260	TCA112	1,1,2-Trichloroethane	RFWL
SW8260	TCB123	1,2,3-Trimethylbenzene	RFWL
SW8260	TCB124	1,2,4-Trichlorobenzene	RFWL
SW8260	TCE	Trichloroethene	RFWL
SW8260	TCLME	Chloroform	RFWL
SW8260	TCPR123	1,2,3-Trichloropropane	RFWL
SW8260	TMB124	1,2,4-Trimethylbenzene	RFWL
SW8260	TMB135	1,3,5-Trimethylbenzene	RFWL
SW8260	VC	Vinyl Chloride	RFWL

[a]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March 1983)

[b]SW = EPA SW-846 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3RD Edition (Nov. 1992)

[c]BC = Brown and Caldwell Lab, Pasadena, CA

[d]BCE = Brown and Caldwell Analytical, Emeryville Laboratory, Emeryville, CA

[e]BCG = Brown and Caldwell Analytical Laboratory, Glendale, CA

[f]FLD = Field Analysis

[g]RFWL = Roy F. Weston Lionville Laboratory

TABLE B.5
TARGET COMPOUND LIST, USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
[a]E413.2	OILGREASE	Oil & Grease	[b]ENSR
E418.1	PHC	Petroleum Hydrocarbons	ENSR
E524	BDCME	Bromodichloromethane	ENSR
E524	BRBZ	Bromobenzene	ENSR
E524	BRCLME	Bromochloromethane	ENSR
E524	BRME	Bromomethane	ENSR
E524	BTBZN	n-Butylbenzene	ENSR
E524	BTBZS	sec-Butylbenzene	ENSR
E524	BTBZT	t-Butylbenzene	ENSR
E524	BZ	Benzene	ENSR
E524	BZME	Toluene	ENSR
E524	CLBZ	Chlorobenzene	ENSR
E524	CLBZME2	2-Chlorotoluene	ENSR
E524	CLBZME4	4-Chlorotoluene	ENSR
E524	CLEA	Chloroethane	ENSR
E524	CLME	Chloromethane	ENSR
E524	CTCL	Carbon Tetrachloride	ENSR
E524	CYMP	p-Cymene(o-isopropyltoluene)	ENSR
E524	DBCME	Dibromochloromethane	ENSR
E524	DBCP	1,2-Dibromo-3-chloropropane	ENSR
E524	DBMA	Dibromomethane	ENSR
E524	DCA11	1,1-Dichloroethane	ENSR
E524	DCA12	1,2-Dichloroethane	ENSR
E524	DCBZ12	1,2-Dichlorobenzene	ENSR
E524	DCBZ13	1,3-Dichlorobenzene	ENSR
E524	DCBZ14	1,4-Dichlorobenzene	ENSR
E524	DCE11	1,1-Dichloroethene	ENSR
E524	DCE12TOT	1,2-Dichloroethene, total	ENSR
E524	DCP11	1,1-Dichloropropene	ENSR
E524	DCP13C	cis-1,3-Dichloropropene	ENSR
E524	DCP13T	trans-1,3-Dichloropropene	ENSR
E524	DCPA12	1,2-Dichloropropane	ENSR
E524	DCPA13	1,3-Dichloropropane	ENSR
E524	DCPA22	2,2-Dichloropropane	ENSR
E524	EBZ	Ethylbenzene	ENSR
E524	EDB	Ethylene Dibromide	ENSR
E524	FC11	Trichlorofluoromethane	ENSR
E524	FC12	Dichlorodifluoromethane	ENSR
E524	HCBU	Hexachlorobutadiene	ENSR
E524	IPBZ	Isopropylbenzene	ENSR
E524	MTLNCL	Methylene Chloride	ENSR
E524	NAPH	Naphthalene	ENSR
E524	PBZN	n-propylbenzene	ENSR
E524	PCA	1,1,2,2-Tetrachloroethane	ENSR

TABLE B.5 (Continued)
TARGET COMPOUND LIST, USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E524	PCE	Tetrachloroethene	ENSR
E524	STY	Styrene	ENSR
E524	TBME	Bromoform	ENSR
E524	TC1112	1,1,1,2-Tetrachloroethane	ENSR
E524	TCA111	1,1,1-Trichloroethane	ENSR
E524	TCA112	1,1,2-Trichloroethane	ENSR
E524	TCB123	1,2,3-Trimethylbenzene	ENSR
E524	TCB124	1,2,4-Trichlorobenzene	ENSR
E524	TCE	Trichloroethene	ENSR
E524	TCLME	Chloroform	ENSR
E524	TCPR123	1,2,3-Trichloropropane	ENSR
E524	TMB124	1,2,4-Trimethylbenzene	ENSR
E524	TMB135	1,3,5-Trimethylbenzene	ENSR
E524	VC	Vinyl Chloride	ENSR
E524	XYLENES	Xylene (Total)	ENSR
[e]SW6010	AG	Silver	ENSR
SW6010	AL	Aluminum	ENSR
SW6010	AS	Arsenic	ENSR
SW6010	BA	Barium	ENSR
SW6010	BE	Beryllium	ENSR
SW6010	CA	Calcium	ENSR
SW6010	CD	Cadmium	ENSR
SW6010	CO	Cobalt	ENSR
SW6010	CR	Chromium	ENSR
SW6010	CU	Copper	ENSR
SW6010	FE	Iron	ENSR
SW6010	K	Potassium	ENSR
SW6010	MG	Magnesium	ENSR
SW6010	MN	Manganese	ENSR
SW6010	MO	Molybdenum	ENSR
SW6010	NA	Sodium	ENSR
SW6010	NI	Nickel	ENSR
SW6010	PB	Lead	ENSR
SW6010	SB	Antimony	ENSR
SW6010	SE	Selenium	ENSR
SW6010	SR	Strontium	ENSR
SW6010	TL	Thallium	ENSR
SW6010	V	Vanadium	ENSR
SW6010	ZN	Zinc	ENSR
SW8260	ACE	Acetone	ENSR
SW8260	ACRL	Acrolein	ENSR
SW8260	ACRN	Acrylnitrile	ENSR
SW8260	BDCME	Bromodichloromethane	ENSR
SW8260	BRBZ	Bromobenzene	ENSR

TABLE B.5 (Continued)
TARGET COMPOUND LIST, USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8260	BRME	Bromomethane	ENSR
SW8260	BZ	Benzene	ENSR
SW8260	BZME	Toluene	ENSR
SW8260	CDS	Carbon Disulfide	ENSR
SW8260	CEVETH	2-Chloroethyl vinyl ether	ENSR
SW8260	CLBZ	Chlorobenzene	ENSR
SW8260	CLEA	Chloroethane	ENSR
SW8260	CLHX1	1-Chlorohexane	ENSR
SW8260	CLME	Chloromethane	ENSR
SW8260	CTCL	Carbon Tetrachloride	ENSR
SW8260	DBCME	Dibromochloromethane	ENSR
SW8260	DBMA	Dibromomethane	ENSR
SW8260	DCA11	1,1-Dichloroethane	ENSR
SW8260	DCA12	1,2-Dichloroethane	ENSR
SW8260	DCBZ12	1,2-Dichlorobenzene	ENSR
SW8260	DCBZ13	1,3-Dichlorobenzene	ENSR
SW8260	DCBZ14	1,4-Dichlorobenzene	ENSR
SW8260	DCE11	1,1-Dichloroethene	ENSR
SW8260	DCE12TOT	1,2-Dichloroethene, total	ENSR
SW8260	DCP13C	cis-1,3-Dichloropropene	ENSR
SW8260	DCP13T	trans-1,3-Dichloropropene	ENSR
SW8260	DCPA12	1,2-Dichloropropane	ENSR
SW8260	EBZ	Ethylbenzene	ENSR
SW8260	EDB	Ethylene Dibromide	ENSR
SW8260	EE	Diethylether	ENSR
SW8260	EMETHACRY	Ethyl Methacrylate	ENSR
SW8260	FC11	Trichlorofluoromethane	ENSR
SW8260	FC12	Dichlorodifluoromethane	ENSR
SW8260	HXO2	2-Hexanone	ENSR
SW8260	IME	Iodomethane	ENSR
SW8260	MEK	2-Butanone	ENSR
SW8260	MIBK	4-Methyl-2-Pentanone	ENSR
SW8260	MTLNCL	Methylene Chloride	ENSR
SW8260	PCA	1,1,2,2-Tetrachloroethane	ENSR
SW8260	PCE	Tetrachloroethene	ENSR
SW8260	STY	Styrene	ENSR
SW8260	TBME	Bromoform	ENSR
SW8260	TC1112	1,1,1,2-Tetrachloroethane	ENSR
SW8260	TCA111	1,1,1-Trichloroethane	ENSR
SW8260	TCA112	1,1,2-Trichloroethane	ENSR
SW8260	TCE	Trichloroethene	ENSR
SW8260	TCLME	Chloroform	ENSR
SW8260	TCPR123	1,2,3-Trichloropropane	ENSR
SW8260	VA	Vinyl Acetate	ENSR

TABLE B.5 (Continued)
TARGET COMPOUND LIST, USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8260	VC	Vinyl Chloride	ENSR
SW8260	XYLENES	Xylene (Total)	ENSR
SW8270	ACNP	Acenaphthene	ENSR
SW8270	ACNPY	Acenaphthylene	ENSR
SW8270	ACPHN	Acetophenone	ENSR
SW8270	AMINOBPH4	4-Aminobiphenyl	ENSR
SW8270	AMINONAPH1	1-Naphthylamine	ENSR
SW8270	AMINONAPH2	2-Aminonaphthalene	ENSR
SW8270	ANILINE	Aniline	ENSR
SW8270	ANTH	Anthracene	ENSR
SW8270	BBP	Butylbenzylphthalate	ENSR
SW8270	BECEM	bis(2-Chloroethoxy)methane	ENSR
SW8270	BIS2CEE	bis(2-Chloroethyl)ether	ENSR
SW8270	BIS2CIE	bis(2-Chloroisopropyl)ether	ENSR
SW8270	BIS2EHP	bis(2-Ethylhexyl)phthalate	ENSR
SW8270	BPPE4	4-Bromophenyl-phenylether	ENSR
SW8270	BZAA	Benzo(a)anthracene	ENSR
SW8270	BZACID	Benzoic Acid	ENSR
SW8270	BZAP	Benzo(a)pyrene	ENSR
SW8270	BZBF	Benzo(b)fluoranthene	ENSR
SW8270	BZD	Benzidine	ENSR
SW8270	BZGHIP	Benzo(g,h,i)perylene	ENSR
SW8270	BZKF	Benzo(k)fluoranthene	ENSR
SW8270	BZLAL	Benzyl Alcohol	ENSR
SW8270	C4BZ1245	1,2,4,5-Tetrachlorobenzene	ENSR
SW8270	C4M3PH	4-Chloro-3-methylphenol	ENSR
SW8270	CHRYSENE	Chrysene	ENSR
SW8270	CLANIL4	4-Chloroaniline	ENSR
SW8270	CLNPH1	1-Chloronaphthalene	ENSR
SW8270	CLPH2	2-Chlorophenol	ENSR
SW8270	CNPH2	2-Chloronaphthalene	ENSR
SW8270	CPPE4	4-Chlorophenyl-phenylether	ENSR
SW8270	DBAHA	Dibenz(a,h)anthracene	ENSR
SW8270	DBAJACR	Dibenz(a,j)Acridine	ENSR
SW8270	DBF	Dibenzofuran	ENSR
SW8270	DBZD33	3,3'-Dichlorobenzidine	ENSR
SW8270	DCBZ12	1,2-Dichlorobenzene	ENSR
SW8270	DCBZ13	1,3-Dichlorobenzene	ENSR
SW8270	DCBZ14	1,4-Dichlorobenzene	ENSR
SW8270	DCP24	2,4-Dichlorophenol	ENSR
SW8270	DCP26	2,6-Dichlorophenol	ENSR
SW8270	DEPH	Diethylphthalate	ENSR
SW8270	DMBZA712	7,12-Dimethylbenz(a)Anthracene	ENSR
SW8270	DMP24	2,4-Dimethylphenol	ENSR

TABLE B.5 (Continued)
TARGET COMPOUND LIST, USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	DMPH	Dimethylphthalate	ENSR
SW8270	DMPHTHM	Dimethylpenethyamine	ENSR
SW8270	DN46M	4,6-Dinitro-2-methylphenol	ENSR
SW8270	DNBP	Di-n-butylphthalate	ENSR
SW8270	DNOP	Di-n-octylphthalate	ENSR
SW8270	DNP24	2,4-Dinitrophenol	ENSR
SW8270	DNT24	2,4-Dinitrotoluene	ENSR
SW8270	DNT26	2,6-Dinitrotoluene	ENSR
SW8270	DPA	Diphenylamine	ENSR
SW8270	DPHY12	1,2-Diphenylhydrazine	ENSR
SW8270	EMSULFN	Ethyl Methanesulfonate	ENSR
SW8270	FL	Fluorene	ENSR
SW8270	FLA	Fluoranthene	ENSR
SW8270	HCBU	Hexachlorobutadiene	ENSR
SW8270	HCCP	Hexachlorocyclopentadiene	ENSR
SW8270	HCLBZ	Hexachlorobenzene	ENSR
SW8270	HCLEA	Hexachloroethane	ENSR
SW8270	INP123	Indeno(1,2,3-cd)pyrene	ENSR
SW8270	ISOP	Isophorone	ENSR
SW8270	MECHLAN3	3-Methycholanthrene	ENSR
SW8270	MEPH2	2-Methylphenol(o-Cresol)	ENSR
SW8270	MEPH4	4-Methylphenol(p-Cresol)	ENSR
SW8270	MMSULFN	Methyl Methanesulfonate	ENSR
SW8270	MTNPH2	2-Methylnaphthalene	ENSR
SW8270	NAPH	Naphthalene	ENSR
SW8270	NNSBU	N-Nitrso-di-n-Butylamine	ENSR
SW8270	NNSE	N-Nitrosodiethylamine	ENSR
SW8270	NNSPH	N-Nitrosodiphenylamine	ENSR
SW8270	NNSPPRD	N-Nitrosopiperidine	ENSR
SW8270	NNSPR	N-Nitroso-di-n-propylamine	ENSR
SW8270	NO2ANIL2	2-Nitroaniline	ENSR
SW8270	NO2ANIL3	3-Nitroaniline	ENSR
SW8270	NO2ANIL4	4-Nitroaniline	ENSR
SW8270	NO2BZ	Nitrobenzene	ENSR
SW8270	NO2BZD5	2-Nitrophenol	ENSR
SW8270	NTPH2	4-Nitrophenol	ENSR
SW8270	PCP	Pentachlorophenol	ENSR
SW8270	PDMAABZ	p-Dimethylaminoazobenzene	ENSR
SW8270	PECLBZ	Pentachlorobenzene	ENSR
SW8270	PECLNO2BZ	Pentachloronitrobenzene	ENSR
SW8270	PHAN	Phenanthrene	ENSR
SW8270	PHENOL	Phenol	ENSR
SW8270	PHNACTN	Phenacetin	ENSR
SW8270	PICOLINE2	2-Picoline	ENSR

TABLE B.5 (Continued)
TARGET COMPOUND LIST, USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	PRONAMD	Pronamide	ENSR
SW8270	PYR	Pyrene	ENSR
SW8270	TCB124	1,2,4-Trichlorobenzene	ENSR
SW8270	TCP2346	2,3,4,6-Tetrachlorophenal	ENSR
SW8270	TCP245	2,4,5-Trichlorophenol	ENSR
SW8270	TCP246	2,4,6-Trichlorophenol	ENSR

[a]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March 1983)
[b]ENSR = Ensecot Rocky Mountain Analytical, Denver Lab
[c]SW = EPA SW-846 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3RD Edition (Nov. 1992)

TABLE B.6
TARGET COMPOUND LIST, RUST R.I.
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
[a]D2216	SOLID	Total Solids	[d]CNGT
[b]E300	CL	Chloride	CNGT
E300	F	Fluoride	CNGT
E300	NO2N	Nitrogen, Nitrite	CNGT
E300	NO3N	Nitrogen, Nitrate (as N)	CNGT
E300	PO4	Phosphorus, Total Orthophosphate (as PO4)	CNGT
E300	SO4	Sulfate	CNGT
E335.2	CN	Cyanide	CNGT
E413.2	OILGREASE	Oil & Grease	CNGT
E418.1	PHC	Petroleum Hydrocarbons	CNGT
[c]SW6010	AG	Silver	CNGT
SW6010	AL	Aluminum	CNGT
SW6010	AS	Arsenic	CNGT
SW6010	BA	Barium	CNGT
SW6010	BE	Beryllium	CNGT
SW6010	CA	Calcium	CNGT
SW6010	CD	Cadmium	CNGT
SW6010	CN	Cyanide	CNGT
SW6010	CO	Cobalt	CNGT
SW6010	CR	Chromium	CNGT
SW6010	CU	Copper	CNGT
SW6010	FE	Iron	CNGT
SW6010	HG	Mercury	CNGT
SW6010	K	Potassium	CNGT
SW6010	MG	Magnesium	CNGT
SW6010	MN	Manganese	CNGT
SW6010	NA	Sodium	CNGT
SW6010	NI	Nickel	CNGT
SW6010	PB	Lead	CNGT
SW6010	SB	Antimony	CNGT
SW6010	SE	Selenium	CNGT
SW6010	SI	Silicon	CNGT
SW6010	TL	Thallium	CNGT
SW6010	UTOT	Uranium, Total	CNGT
SW6010	V	Vanadium	CNGT
SW6010	ZN	Zinc	CNGT
SW8080	ALDRIN	Aldrin	CNGT
SW8080	BHCALPHA	alpha-BHC	CNGT
SW8080	BHCBETA	beta-BHC	CNGT
SW8080	BHCDELTA	delta-BHC	CNGT
SW8080	BHCGAMMA	gamma-BHC (Lindane)	CNGT
SW8080	CHLORDANEA	alpha-Chlordane	CNGT
SW8080	CHLORDANEB	beta-Chlordane	CNGT

TABLE B.6 (Continued)
TARGET COMPOUND LIST, RUST R.I.
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8080	DDD44	p,p'-DDD	CNGT
SW8080	DDE44	4,4'-DDE	CNGT
SW8080	DDT44	4,4'-DDT	CNGT
SW8080	DIELDRIN	Dieldrin	CNGT
SW8080	ENDOSULFANA	Endosulfan I	CNGT
SW8080	ENDOSULFANB	Endosulfan II	CNGT
SW8080	ENDOSULFANS	Endosulfan Sulfate	CNGT
SW8080	ENDRIN	Endrin	CNGT
SW8080	ENDRINALD	Endrin aldehyde	CNGT
SW8080	ENDRINKET	Endrin ketone	CNGT
SW8080	HEPT-EPOX	Heptachlor epoxide	CNGT
SW8080	HEPTACHLOR	Heptachlor	CNGT
SW8080	MTXYCL	Methoxychlor	CNGT
SW8080	PCB1016	Aroclor-1016	CNGT
SW8080	PCB1221	Aroclor-1221	CNGT
SW8080	PCB1232	Aroclor-1232	CNGT
SW8080	PCB1242	Aroclor-1242	CNGT
SW8080	PCB1248	Aroclor-1248	CNGT
SW8080	PCB1254	Aroclor-1254	CNGT
SW8080	PCB1260	Aroclor-1260	CNGT
SW8080	TOXAP	Toxaphene	CNGT
SW8240	ACE	Acetone	CNGT
SW8240	BDCME	Bromodichloromethane	CNGT
SW8240	BRME	Bromomethane	CNGT
SW8240	BTBZN	n-Butylbenzene	CNGT
SW8240	BTBZS	sec-Butylbenzene	CNGT
SW8240	BZ	Benzene	CNGT
SW8240	BZME	Toluene	CNGT
SW8240	CDS	Carbon Disulfide	CNGT
SW8240	CHEXANEME	Methylcyclohexane	CNGT
SW8240	CLBZ	Chlorobenzene	CNGT
SW8240	CLEA	Chloroethane	CNGT
SW8240	CLME	Chloromethane	CNGT
SW8240	CTCL	Carbon Tetrachloride	CNGT
SW8240	CYHEXENE	Cyclohexene	CNGT
SW8240	CYMP	p-Cymene(o-isopropyltoluene)	CNGT
SW8240	DBCME	Dibromochloromethane	CNGT
SW8240	DCA11	1,1-Dichloroethane	CNGT
SW8240	DCA12	1,2-Dichloroethane	CNGT
SW8240	DCBZ12	1,2-Dichlorobenzene	CNGT
SW8240	DCE11	1,1-Dichloroethene	CNGT
SW8240	DCE12C	cis-1,2-Dichloroethene	CNGT
SW8240	DCE12T	trans-1,2-Dichloroethene	CNGT

TABLE B.6 (Continued)
TARGET COMPOUND LIST, RUST R.I.
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8240	DCE12TOT	1,2-Dichloroethene, total	CNGT
SW8240	DCP13C	cis-1,3-Dichloropropene	CNGT
SW8240	DCP13T	trans-1,3-Dichloropropene	CNGT
SW8240	DCPA12	1,2-Dichloropropane	CNGT
SW8240	EBZ	Ethylbenzene	CNGT
SW8240	HXO2	2-Hexanone	CNGT
SW8240	IPBZ	Isopropylbenzene	CNGT
SW8240	MEK	2-Butanone	CNGT
SW8240	MIBK	4-Methyl-2-Pentanone	CNGT
SW8240	MTLNCL	Methylene Chloride	CNGT
SW8240	MTNPH2	2-Methylnaphthalene	CNGT
SW8240	PBZN	n-propylbenzene	CNGT
SW8240	PCA	1,1,2,2-Tetrachloroethane	CNGT
SW8240	PCE	Tetrachloroethene	CNGT
SW8240	STY	Styrene	CNGT
SW8240	TBME	Bromoform	CNGT
SW8240	TCA111	1,1,1-Trichloroethane	CNGT
SW8240	TCA112	1,1,2-Trichloroethane	CNGT
SW8240	TCE	Trichloroethene	CNGT
SW8240	TCLME	Chloroform	CNGT
SW8240	TMB135	1,3,5-Trimethylbenzene	CNGT
SW8240	VA	Vinyl Acetate	CNGT
SW8240	VC	Vinyl Chloride	CNGT
SW8240	XYLENES	Xylene (Total)	CNGT
SW8260	ACE	Acetone	CNGT
SW8260	BDCME	Bromodichloromethane	CNGT
SW8260	BRME	Bromomethane	CNGT
SW8260	BZ	Benzene	CNGT
SW8260	BZME	Toluene	CNGT
SW8260	CDS	Carbon Disulfide	CNGT
SW8260	CLBZ	Chlorobenzene	CNGT
SW8260	CLEA	Chloroethane	CNGT
SW8260	CLME	Chloromethane	CNGT
SW8260	CTCL	Carbon Tetrachloride	CNGT
SW8260	DBCME	Dibromochloromethane	CNGT
SW8260	DCA11	1,1-Dichloroethane	CNGT
SW8260	DCA12	1,2-Dichloroethane	CNGT
SW8260	DCE11	1,1-Dichloroethene	CNGT
SW8260	DCE12C	cis-1,2-Dichloroethene	CNGT
SW8260	DCE12T	trans-1,2-Dichloroethene	CNGT
SW8260	DCE12TOT	1,2-Dichloroethene, total	CNGT
SW8260	DCP13C	cis-1,3-Dichloropropene	CNGT
SW8260	DCP13T	trans-1,3-Dichloropropene	CNGT

TABLE B.6 (Continued)
TARGET COMPOUND LIST, RUST R.I.

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8260	DCPA12	1,2-Dichloropropane	CNGT
SW8260	EBZ	Ethylbenzene	CNGT
SW8260	HXO2	2-Hexanone	CNGT
SW8260	MEK	2-Butanone	CNGT
SW8260	MIBK	4-Methyl-2-Pentanone	CNGT
SW8260	MTLNCL	Methylene Chloride	CNGT
SW8260	PCA	1,1,2,2-Tetrachloroethane	CNGT
SW8260	PCE	Tetrachloroethene	CNGT
SW8260	PYRDN	Pyridine	CNGT
SW8260	STY	Styrene	CNGT
SW8260	TBME	Bromoform	CNGT
SW8260	TCA111	1,1,1-Trichloroethane	CNGT
SW8260	TCA112	1,1,2-Trichloroethane	CNGT
SW8260	TCE	Trichloroethene	CNGT
SW8260	TCLME	Chloroform	CNGT
SW8260	VA	Vinyl Acetate	CNGT
SW8260	VC	Vinyl Chloride	CNGT
SW8260	XYLENES	Xylene (Total)	CNGT
SW8270	ACNP	Acenaphthene	CNGT
SW8270	ACNPY	Acenaphthylene	CNGT
SW8270	ANTH	Anthracene	CNGT
SW8270	BBP	Butylbenzylphthalate	CNGT
SW8270	BECEM	bis(2-Chloroethoxy)methane	CNGT
SW8270	BIS2CEE	bis(2-Chloroethyl)ether	CNGT
SW8270	BIS2CIE	bis(2-Chloroisopropyl)ether	CNGT
SW8270	BIS2EHP	bis(2-Ethylhexyl)phthalate	CNGT
SW8270	BPPE4	4-Bromophenyl-phenylether	CNGT
SW8270	BZAA	Benzo(a)anthracene	CNGT
SW8270	BZACID	Benzoic Acid	CNGT
SW8270	BZAP	Benzo(a)pyrene	CNGT
SW8270	BZBF	Benzo(b)fluoranthene	CNGT
SW8270	BZGHIP	Benzo(g,h,i)perylene	CNGT
SW8270	BZKF	Benzo(k)fluoranthene	CNGT
SW8270	BZLAL	Benzyl Alcohol	CNGT
SW8270	C4M3PH	4-Chloro-3-methylphenol	CNGT
SW8270	CHRYSENE	Chrysene	CNGT
SW8270	CLANIL4	4-Chloroaniline	CNGT
SW8270	CLBZ	Chlorobenzene	CNGT
SW8270	CLPH2	2-Chlorophenol	CNGT
SW8270	CNPH2	2-Chloronaphthalene	CNGT
SW8270	CPPE4	4-Chlorophenyl-phenylether	CNGT
SW8270	DBAHA	Dibenz(a,h)anthracene	CNGT
SW8270	DBF	Dibenzofuran	CNGT

TABLE B.6 (Continued)
TARGET COMPOUND LIST, RUST R.I.
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	DBZD33	3,3'-Dichlorobenzidine	CNGT
SW8270	DCBZ12	1,2-Dichlorobenzene	CNGT
SW8270	DCBZ13	1,3-Dichlorobenzene	CNGT
SW8270	DCBZ14	1,4-Dichlorobenzene	CNGT
SW8270	DCP24	2,4-Dichlorophenol	CNGT
SW8270	DEPH	Diethylphthalate	CNGT
SW8270	DMP24	2,4-Dimethylphenol	CNGT
SW8270	DMPH	Dimethylphthalate	CNGT
SW8270	DN46M	4,6-Dinitro-2-methylphenol	CNGT
SW8270	DNBP	Di-n-butylphthalate	CNGT
SW8270	DNOP	Di-n-octylphthalate	CNGT
SW8270	DNP24	2,4-Dinitrophenol	CNGT
SW8270	DNT24	2,4-Dinitrotoluene	CNGT
SW8270	DNT26	2,6-Dinitrotoluene	CNGT
SW8270	FL	Fluorene	CNGT
SW8270	FLA	Fluoranthene	CNGT
SW8270	HCBU	Hexachlorobutadiene	CNGT
SW8270	HCCP	Hexachlorocyclopentadiene	CNGT
SW8270	HCLBZ	Hexachlorobenzene	CNGT
SW8270	HCLEA	Hexachloroethane	CNGT
SW8270	INP123	Indeno(1,2,3-cd)pyrene	CNGT
SW8270	ISOP	Isophorone	CNGT
SW8270	MEPH2	2-Methylphenol(o-Cresol)	CNGT
SW8270	MEPH4	4-Methylphenol(p-Cresol)	CNGT
SW8270	MEPHS	Cresol, Total	CNGT
SW8270	MTNPH2	2-Methylnaphthalene	CNGT
SW8270	NAPH	Naphthalene	CNGT
SW8270	NNSPH	N-Nitrosodiphenylamine	CNGT
SW8270	NNSPR	N-Nitroso-di-n-propylamine	CNGT
SW8270	NO2ANIL2	2-Nitroaniline	CNGT
SW8270	NO2ANIL3	3-Nitroaniline	CNGT
SW8270	NO2ANIL4	4-Nitroaniline	CNGT
SW8270	NO2BZ	Nitrobenzene	CNGT
SW8270	NTPH2	2-Nitrophenol	CNGT
SW8270	NTPH4	4-Nitrophenol	CNGT
SW8270	PCP	Pentachlorophenol	CNGT
SW8270	PHAN	Phenanthrene	CNGT
SW8270	PHENOL	Phenol	CNGT
SW8270	PYR	Pyrene	CNGT
SW8270	PYRDN	Pyridine	CNGT
SW8270	TCB124	1,2,4-Trichlorobenzene	CNGT
SW8270	TCP245	2,4,5-Trichlorophenol	CNGT
SW8270	TCP246	2,4,6-Trichlorophenol	CNGT

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TABLE B.6 (Continued)
TARGET COMPOUND LIST, RUST R.I.

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8240	ACE	Acetone	[e]DCHM
SW8240	BDCME	Bromodichloromethane	DCHM
SW8240	BRME	Bromomethane	DCHM
SW8240	BZ	Benzene	DCHM
SW8240	BZME	Toluene	DCHM
SW8240	CDS	Carbon Disulfide	DCHM
SW8240	CLBZ	Chlorobenzene	DCHM
SW8240	CLEA	Chloroethane	DCHM
SW8240	CLME	Chloromethane	DCHM
SW8240	CTCL	Carbon Tetrachloride	DCHM
SW8240	DBCME	Dibromochloromethane	DCHM
SW8240	DCA11	1,1-Dichloroethane	DCHM
SW8240	DCA12	1,2-Dichloroethane	DCHM
SW8240	DCE11	1,1-Dichloroethene	DCHM
SW8240	DCE12TOT	1,2-Dichloroethene, total	DCHM
SW8240	DCP13C	cis-1,3-Dichloropropene	DCHM
SW8240	DCP13T	trans-1,3-Dichloropropene	DCHM
SW8240	DCPA12	1,2-Dichloropropane	DCHM
SW8240	EBZ	Ethylbenzene	DCHM
SW8240	HXO2	2-Hexanone	DCHM
SW8240	MEK	2-Butanone	DCHM
SW8240	MIBK	4-Methyl-2-Pentanone	DCHM
SW8240	MTLNCL	Methylene Chloride	DCHM
SW8240	PCA	1,1,2,2-Tetrachloroethane	DCHM
SW8240	PCE	Tetrachloroethene	DCHM
SW8240	PYRDN	Pyridine	DCHM
SW8240	STY	Styrene	DCHM
SW8240	TBME	Bromoform	DCHM
SW8240	TCA111	1,1,1-Trichloroethane	DCHM
SW8240	TCA112	1,1,2-Trichloroethane	DCHM
SW8240	TCE	Trichloroethene	DCHM
SW8240	TCLME	Chloroform	DCHM
SW8240	VA	Vinyl Acetate	DCHM
SW8240	VC	Vinyl Chloride	DCHM
SW8240	XYLENES	Xylene (Total)	DCHM
SW8270	ACNP	Acenaphthene	DCHM
SW8270	ACNPY	Acenaphthylene	DCHM
SW8270	ANTH	Anthracene	DCHM
SW8270	BBP	Butylbenzylphthalate	DCHM
SW8270	BECEM	bis(2-Chloroethoxy)methane	DCHM
SW8270	BIS2CEE	bis(2-Chloroethyl)ether	DCHM
SW8270	BIS2CIE	bis(2-Chloroisopropyl)ether	DCHM
SW8270	BIS2EHP	bis(2-Ethylhexyl)phthalate	DCHM

TABLE B.6 (Continued)
TARGET COMPOUND LIST, RUST R.I.

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	BPPE4	4-Bromophenyl-phenylether	DCHM
SW8270	BZAA	Benzo(a)anthracene	DCHM
SW8270	BZACID	Benzoic Acid	DCHM
SW8270	BZAP	Benzo(a)pyrene	DCHM
SW8270	BZBF	Benzo(b)fluoranthene	DCHM
SW8270	BZGHIP	Benzo(g,h,i)perylene	DCHM
SW8270	BZKF	Benzo(k)fluoranthene	DCHM
SW8270	BZLAL	Benzyl Alcohol	DCHM
SW8270	C4M3PH	4-Chloro-3-methylphenol	DCHM
SW8270	CHRYSENE	Chrysene	DCHM
SW8270	CLANIL4	4-Chloroaniline	DCHM
SW8270	CLPH2	2-Chlorophenol	DCHM
SW8270	CNPH2	2-Chloronaphthalene	DCHM
SW8270	CPPE4	4-Chlorophenyl-phenylether	DCHM
SW8270	DBAHA	Dibenz(a,h)anthracene	DCHM
SW8270	DBF	Dibenzofuran	DCHM
SW8270	DBZD33	3,3'-Dichlorobenzidine	DCHM
SW8270	DCBZ12	1,2-Dichlorobenzene	DCHM
SW8270	DCBZ13	1,3-Dichlorobenzene	DCHM
SW8270	DCBZ14	1,4-Dichlorobenzene	DCHM
SW8270	DCP24	2,4-Dichlorophenol	DCHM
SW8270	DEPH	Diethylphthalate	DCHM
SW8270	DMP24	2,4-Dimethylphenol	DCHM
SW8270	DMPH	Dimethylphthalate	DCHM
SW8270	DN46M	4,6-Dinitro-2-methylphenol	DCHM
SW8270	DNBP	Di-n-butylphthalate	DCHM
SW8270	DNOP	Di-n-octylphthalate	DCHM
SW8270	DNP24	2,4-Dinitrophenol	DCHM
SW8270	DNT24	2,4-Dinitrotoluene	DCHM
SW8270	DNT26	2,6-Dinitrotoluene	DCHM
SW8270	FL	Fluorene	DCHM
SW8270	FLA	Fluoranthene	DCHM
SW8270	HCBU	Hexachlorobutadiene	DCHM
SW8270	HCCP	Hexachlorocyclopentadiene	DCHM
SW8270	HCLBZ	Hexachlorobenzene	DCHM
SW8270	HCLEA	Hexachloroethane	DCHM
SW8270	INP123	Indeno(1,2,3-cd)pyrene	DCHM
SW8270	ISOP	Isophorone	DCHM
SW8270	MEPH2	2-Methylphenol(o-Cresol)	DCHM
SW8270	MEPH4	4-Methylphenol(p-Cresol)	DCHM
SW8270	MEPHS	Cresol, Total	DCHM
SW8270	MTNPH2	2-Methylnaphthalene	DCHM
SW8270	NAPH	Naphthalene	DCHM

TABLE B.6 (Continued)
TARGET COMPOUND LIST, RUST R.I. 258386
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	NNSPH	N-Nitrosodiphenylamine	DCHM
SW8270	NNSPR	N-Nitroso-di-n-propylamine	DCHM
SW8270	NO2ANIL2	2-Nitroaniline	DCHM
SW8270	NO2ANIL3	3-Nitroaniline	DCHM
SW8270	NO2ANIL4	4-Nitroaniline	DCHM
SW8270	NO2BZ	Nitrobenzene	DCHM
SW8270	NTPH2	2-Nitrophenol	DCHM
SW8270	NTPH4	4-Nitrophenol	DCHM
SW8270	PCP	Pentachlorophenol	DCHM
SW8270	PHAN	Phenanthrene	DCHM
SW8270	PHENOL	Phenol	DCHM
SW8270	PYR	Pyrene	DCHM
SW8270	PYRDN	Pyridine	DCHM
SW8270	TCB124	1,2,4-Trichlorobenzene	DCHM
SW8270	TCP245	2,4,5-Trichlorophenol	DCHM
SW8270	TCP246	2,4,6-Trichlorophenol	DCHM
E120.1	SC	Conductivity	[f]FLD
E150.1	PH	pH	FLD
E170.1	TEMP	Temperature	FLD

[a]D = American Society for Testing and Materials (ATSM), 1916 Race Street, Philadelphia, PA 19103-11867
[b]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March 1983)
[c]SW = EPA SW-846 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3RD Edition (Nov. 1992)
[d]CNGT = Chem Nucliar Geotech, Grand Junction, CO
[e]DCHM = Data Chem, Salt Lake City, UT
[f]FLD = Field Analysis

TABLE B.7
TARGET COMPOUND LIST, RUST HISTORICAL[a/]
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER CODE	ANALYTE NAME
[b/]E150.1	PH	pH
E170.1	TEMP	Temperature
E212.3	B	Boron
E218.4	CR6	Chromium, hexavalent
E245.1	HG	Mercury
E300.0	CL	Chloride
E335.2	CN	Cyanide
E340.1	F	Fluoride
E352.1	NO3N	Nitrogen, Nitrate (as N)
E413.2	OILGREASE	Oil & Grease
E418.1	PHC	Petroleum Hydrocarbons
N6701	NH3N	Nitrogen, Ammonia
[c/]SW6010	AG	Silver
SW6010	AL	Aluminum
SW6010	AS	Arsenic
SW6010	BA	Barium
SW6010	BE	Beryllium
SW6010	CA	Calcium
SW6010	CD	Cadmium
SW6010	CO	Cobalt
SW6010	CR	Chromium
SW6010	CU	Copper
SW6010	FE	Iron
SW6010	K	Potassium
SW6010	MG	Magnesium
SW6010	MN	Manganese
SW6010	MO	Molybdenum
SW6010	NA	Sodium
SW6010	NI	Nickel
SW6010	PB	Lead
SW6010	SB	Antimony
SW6010	SE	Selenium
SW6010	SI	Silicon
SW6010	SN	Tin
SW6010	SO4	Sulfate
SW6010	TL	Thallium
SW6010	V	Vanadium
SW6010	ZN	Zinc
SW8240	ACE	Acetone
SW8240	ACRL	Acrolein
SW8240	ACRN	Acrylonitrile
SW8240	BDCME	Bromodichloromethane

TABLE B.7 (Continued)
TARGET COMPOUND LIST, RUST HISTORICAL[a/]
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER CODE	ANALYTE NAME
SW8240	BRME	Bromomethane
SW8240	BZ	Benzene
SW8240	BZME	Toluene
SW8240	CDS	Carbon Disulfide
SW8240	CEVETH	2-Chloroethyl vinyl ether
SW8240	CLEA	Chloroethane
SW8240	CLME	Chloromethane
SW8240	CTCL	Carbon Tetrachloride
SW8240	CYHEXENE	Cyclohexane
SW8240	DBCME	Dibromochloromethane
SW8240	DCA11	1,1-Dichloroethane
SW8240	DCA12	1,2-Dichloroethane
SW8240	DCE11	1,1-Dichloroethene
SW8240	DCE12C	cis-1,2-Dichloroethene
SW8240	DCE12T	trans-1,2-Dichloroethene
SW8240	DCP13	1,3-Dichloropropylene
SW8240	DCP13C	cis-1,3-Dichloropropene
SW8240	DCP13T	trans-1,3-Dichloropropene
SW8240	DCPA12	1,2-Dichloropropane
SW8240	EBZ	Ethylbenzene
SW8240	FC11	Trichlorofluoromethane
SW8240	FC113	Freon 113
SW8240	FC12	Dichlorodifluoromethane
SW8240	HXO2	2-Hexanone
SW8240	IPBZ	Isopropylbenzene
SW8240	ISOPRE	Isopropylether
SW8240	MEK	2-Butanone
SW8240	MIBK	4-Methyl-2-Pentanone
SW8240	MTLNCL	Methylene Chloride
SW8240	PBZN	n-propylbenzene
SW8240	PCA	1,1,2,2-Tetrachloroethane
SW8240	PCE	Tetrachloroethene
SW8240	STY	Styrene
SW8240	TBME	Bromoform
SW8240	TCA111	1,1,1-Trichloroethane
SW8240	TCA112	1,1,2-Trichloroethane
SW8240	TCE	Trichloroethene
SW8240	TCLME	Chloroform
SW8240	VA	Vinyl Acetate
SW8240	VC	Vinyl Chloride
SW8240	XYLENES	Xylene (Total)
SW8270	ACNP	Acenaphthene

TABLE B.7 (Continued)
TARGET COMPOUND LIST, RUST HISTORICAL[a/]
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER CODE	ANALYTE NAME
SW8270	ACNPY	Acenaphthylene
SW8270	ANILINE	Aniline
SW8270	ANTH	Anthracene
SW8270	BBP	Butylbenzylphthalate
SW8270	BECEM	bis(2-Chloroethoxy)methane
SW8270	BIS2CEE	bis(2-Chloroethyl)ether
SW8270	BIS2CIE	bis(2-Chloroisopropyl)ether
SW8270	BIS2EHP	bis(2-Ethylhexyl)phthalate
SW8270	BPPE4	4-Bromophenyl-phenylether
SW8270	BZAA	Benzo(a)anthracene
SW8270	BZACID	Benzoic Acid
SW8270	BZAP	Benzo(a)pyrene
SW8270	BZBF	Benzo(b)fluoranthene
SW8270	BZD	Benzidine
SW8270	BZGHIP	Benzo(g,h,i)perylene
SW8270	BZKF	Benzo(k)fluoranthene
SW8270	BZLAL	Benzyl Alcohol
SW8270	C4M3PH	4-Chloro-3-methylphenol
SW8270	CHRYSENE	Chrysene
SW8270	CLANIL4	4-Chloroaniline
SW8270	CLBZ	Chlorobenzene
SW8270	CLPH2	2-Chlorophenol
SW8270	CNPH2	2-Chloronaphthalene
SW8270	CPPE4	4-Chlorophenyl-phenylether
SW8270	DBAHA	Dibenz(a,h)anthracene
SW8270	DBF	Dibenzofuran
SW8270	DBZD33	3,3'-Dichlorobenzidine
SW8270	DCBZ12	1,2-Dichlorobenzene
SW8270	DCBZ13	1,3-Dichlorobenzene
SW8270	DCBZ14	1,4-Dichlorobenzene
SW8270	DCP24	2,4-Dichlorophenol
SW8270	DEPH	Diethylphthalate
SW8270	DMP24	2,4-Dimethylphenol
SW8270	DMPH	Dimethylphthalate
SW8270	DN46M	4,6-Dinitro-2-methylphenol
SW8270	DNBP	Di-n-butylphthalate
SW8270	DNOP	Di-n-octylphthalate
SW8270	DNP24	2,4-Dinitrophenol
SW8270	DNT24	2,4-Dinitrotoluene
SW8270	DNT26	2,6-Dinitrotoluene
SW8270	DPHY12	1,2-Diphenylhydrazine
SW8270	FL	Fluorene

TABLE B.7 (Continued)
TARGET COMPOUND LIST, RUST HISTORICAL[a]
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER CODE	ANALYTE NAME
SW8270	FLA	Fluoranthene
SW8270	HCBU	Hexachlorobutadiene
SW8270	HCCP	Hexachlorocyclopentadiene
SW8270	HCLBZ	Hexachlorobenzene
SW8270	HCLEA	Hexachloroethane
SW8270	INP123	Indeno(1,2,3-cd)pyrene
SW8270	ISOP	Isophorone
SW8270	MEPH2	2-Methylphenol(o-Cresol)
SW8270	MEPH4	4-Methylphenol(p-Cresol)
SW8270	MTNPH2	2-Methylnaphthalene
SW8270	NAPH	Naphthalene
SW8270	NNSM	N-Nitrosodimethylamine
SW8270	NNSPH	N-Nitrosodiphenylamine
SW8270	NNSPR	N-Nitroso-di-n-propylamine
SW8270	NO2ANIL2	2-Nitroaniline
SW8270	NO2ANIL3	3-Nitroaniline
SW8270	NO2ANIL4	4-Nitroaniline
SW8270	NO2BZ	Nitrobenzene
SW8270	NTPH2	2-Nitrophenol
SW8270	NTPH4	4-Nitrophenol
SW8270	PCP	Pentachlorophenol
SW8270	PHAN	Phenanthrene
SW8270	PHENOL	Phenol
SW8270	PYR	Pyrene
SW8270	TCB124	1,2,4-Trichlorobenzene
SW8270	TCDD2378	2,3,7,8-TCDD
SW8270	TCP245	2,4,5-Trichlorophenol
SW8270	TCP246	2,4,6-Trichlorophenol

[a]Laboratory identification unavailable
[b]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March 1983)
[c]SW = EPA SW-846 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3RD Edition (Nov. 1992)

TABLE B.8
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
[a]E413.2	OILGREASE	Oil & Grease	[b]RAS
E418.1	PHC	Petroleum Hydrocarbons	RAS
E601	BDCME	Bromodichloromethane	RAS
E601	BRME	Bromomethane	RAS
E601	CEVETH	2-Chloroethyl vinyl ether	RAS
E601	CLBZ	Chlorobenzene	RAS
E601	CLEA	Chloroethane	RAS
E601	CLME	Chloromethane	RAS
E601	CTCL	Carbon Tetrachloride	RAS
E601	DBCME	Dibromochloromethane	RAS
E601	DCA11	1,1-Dichloroethane	RAS
E601	DCA12	1,2-Dichloroethane	RAS
E601	DCBZ12	1,2-Dichlorobenzene	RAS
E601	DCBZ13	1,3-Dichlorobenzene	RAS
E601	DCBZ14	1,4-Dichlorobenzene	RAS
E601	DCE11	1,1-Dichloroethene	RAS
E601	DCE12T	trans-1,2-Dichloroethene	RAS
E601	DCP13C	cis-1,3-Dichloropropene	RAS
E601	DCP13T	trans-1,3-Dichloropropene	RAS
E601	DCPA12	1,2-Dichloropropane	RAS
E601	FC11	Trichlorofluoromethane	RAS
E601	MTLNCL	Methylene Chloride	RAS
E601	PCA	1,1,2,2-Tetrachloroethane	RAS
E601	PCE	Tetrachloroethene	RAS
E601	TBME	Bromoform	RAS
E601	TCA111	1,1,1-Trichloroethane	RAS
E601	TCA112	1,1,2-Trichloroethane	RAS
E601	TCE	Trichloroethene	RAS
E601	TCLME	Chloroform	RAS
E601	VC	Vinyl Chloride	RAS
E602	BZ	Benzene	RAS
E602	BZME	Toluene	RAS
E602	CLBZ	Chlorobenzene	RAS
E602	DCBZ12	1,2-Dichlorobenzene	RAS
E602	DCBZ13	1,3-Dichlorobenzene	RAS
E602	DCBZ14	1,4-Dichlorobenzene	RAS
E602	EBZ	Ethylbenzene	RAS
E608	ALDRIN	Aldrin	RAS
E608	BHCALPHA	alpha-BHC	RAS
E608	BHCBETA	beta-BHC	RAS
E608	BHCDELTA	delta-BHC	RAS
E608	BHCGAMMA	gamma-BHC (Lindane)	RAS
E608	CHLORDANE	Chlordane	RAS

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E608	DDD44	p,p'-DDD	RAS
E608	DDE44	4,4'-DDE	RAS
E608	DDT	DDT	RAS
E608	DDT44	4,4'-DDT	RAS
E608	DIELDRIN	Dieldrin	RAS
E608	ENDOSULFANA	Endosulfan I	RAS
E608	ENDOSULFANB	Endosulfan II	RAS
E608	ENDOSULFANS	Endosulfan Sulfate	RAS
E608	ENDRIN	Endrin	RAS
E608	ENDRINALD	Endrin aldehyde	RAS
E608	HEPT-EPOX	Heptachlor epoxide	RAS
E608	HEPTACHLOR	Heptachlor	RAS
E608	PCB1016	Aroclor-1016	RAS
E608	PCB1221	Aroclor-1221	RAS
E608	PCB1232	Aroclor-1232	RAS
E608	PCB1242	Aroclor-1242	RAS
E608	PCB1248	Aroclor-1248	RAS
E608	PCB1254	Aroclor-1254	RAS
E608	PCB1260	Aroclor-1260	RAS
E608	TOXAP	Toxaphene	RAS
E624	ACRL	Acrolein	RAS
E624	ACRN	Acrylnitrile	RAS
E624	BDCME	Bromodichloromethane	RAS
E624	BRME	Bromomethane	RAS
E624	BZ	Benzene	RAS
E624	BZME	Toluene	RAS
E624	CEVETH	2-Chloroethyl vinyl ether	RAS
E624	CLBZ	Chlorobenzene	RAS
E624	CLEA	Chloroethane	RAS
E624	CLME	Chloromethane	RAS
E624	CTCL	Carbon Tetrachloride	RAS
E624	DBCME	Dibromochloromethane	RAS
E624	DCA11	1,1-Dichloroethane	RAS
E624	DCA12	1,2-Dichloroethane	RAS
E624	DCE11	1,1-Dichloroethene	RAS
E624	DCP13	1,3-Dichloropropylene	RAS
E624	DCPA12	1,2-Dichloropropane	RAS
E624	EBZ	Ethylbenzene	RAS
E624	FC11	Trichlorofluoromethane	RAS
E624	FC12	Dichlorodifluoromethane	RAS
E624	MEK	2-Butanone	RAS
E624	MTLNCL	Methylene Chloride	RAS
E624	PCA	1,1,2,2-Tetrachloroethane	RAS

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E624	PCE	Tetrachloroethene	RAS
E624	TBME	Bromoform	RAS
E624	TCA111	1,1,1-Trichloroethane	RAS
E624	TCA112	1,1,2-Trichloroethane	RAS
E624	TCE	Trichloroethene	RAS
E624	TCLME	Chloroform	RAS
E624	VC	Vinyl Chloride	RAS
E625	ACNP	Acenaphthene	RAS
E625	ACNPY	Acenaphthylene	RAS
E625	ANTH	Anthracene	RAS
E625	BBP	Butylbenzylphthalate	RAS
E625	BECEM	bis(2-Chloroethoxy)methane	RAS
E625	BIS2CEE	bis(2-Chloroethyl)ether	RAS
E625	BIS2CIE	bis(2-Chloroisopropyl)ether	RAS
E625	BIS2EHP	bis(2-Ethylhexyl)phthalate	RAS
E625	BPPE4	4-Bromophenyl-phenylether	RAS
E625	BZAA	Benzo(a)anthracene	RAS
E625	BZAP	Benzo(a)pyrene	RAS
E625	BZBF	Benzo(b)fluoranthene	RAS
E625	BZD	Benzidine	RAS
E625	BZGHIP	Benzo(g,h,i)perylene	RAS
E625	BZKF	Benzo(k)fluoranthene	RAS
E625	C4M3PH	4-Chloro-3-methylphenol	RAS
E625	CHRYSENE	Chrysene	RAS
E625	CLPH2	2-Chlorophenol	RAS
E625	CNPH2	2-Chloronaphthalene	RAS
E625	CPPE4	4-Chlorophenyl-phenylether	RAS
E625	DBAHA	Dibenz(a,h)anthracene	RAS
E625	DBZAHP	Dibenz(a,h)pyrene	RAS
E625	DBZD33	3,3'-Dichlorobenzidine	RAS
E625	DCBZ12	1,2-Dichlorobenzene	RAS
E625	DCBZ13	1,3-Dichlorobenzene	RAS
E625	DCBZ14	1,4-Dichlorobenzene	RAS
E625	DCP24	2,4-Dichlorophenol	RAS
E625	DEPH	Diethylphthalate	RAS
E625	DMP24	2,4-Dimethylphenol	RAS
E625	DMPH	Dimethylphthalate	RAS
E625	DN46M	4,6-Dinitro-2-methylphenol	RAS
E625	DNBP	Di-n-butylphthalate	RAS
E625	DNOP	Di-n-octylphthalate	RAS
E625	DNP24	2,4-Dinitrophenol	RAS
E625	DNT24	2,4-Dinitrotoluene	RAS
E625	DNT26	2,6-Dinitrotoluene	RAS

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E625	DPHY12	1,2-Diphenylhydrazine	RAS
E625	FL	Fluorene	RAS
E625	FLA	Fluoranthene	RAS
E625	HCBU	Hexachlorobutadiene	RAS
E625	HCCP	Hexachlorocyclopentadiene	RAS
E625	HCLBZ	Hexachlorobenzene	RAS
E625	HCLEA	Hexachloroethane	RAS
E625	ISOP	Isophorone	RAS
E625	NAPH	Naphthalene	RAS
E625	NNSM	N-Nitrosodimethylamine	RAS
E625	NNSPH	N-Nitrosodiphenylamine	RAS
E625	NNSPR	N-Nitroso-di-n-propylamine	RAS
E625	NO2BZ	Nitrobenzene	RAS
E625	NTPH2	2-Nitrophenol	RAS
E625	NTPH4	4-Nitrophenol	RAS
E625	PCP	Pentachlorophenol	RAS
E625	PHAN	Phenanthrene	RAS
E625	PHENOL	Phenol	RAS
E625	PYR	Pyrene	RAS
E625	TCB124	1,2,4-Trichlorobenzene	RAS
E625	TCP246	2,4,6-Trichlorophenol	RAS
[c/]SW6010	AG	Silver	RAS
SW6010	AS	Arsenic	RAS
SW6010	BA	Barium	RAS
SW6010	CD	Cadmium	RAS
SW6010	CR	Chromium	RAS
SW6010	PB	Lead	RAS
SW6010	SE	Selenium	RAS
D2216	MOIST	Moisture, Percent	RAS
E120.1	SC	Specific Conductance	RAS
E150.1	PH	pH	RAS
E170.1	TEMP	Temperature	RAS
E200.7	AG	Silver	RAS
E200.7	BA	Barium	RAS
E200.7	CD	Cadmium	RAS
E200.7	CR	Chromium	RAS
E206.2	AS	Arsenic	RAS
E239.2	PB	Lead	RAS
E245.1	HG	Mercury	RAS
E270.1	SE	Selenium	RAS
E270.2	SE	Selenium	RAS
E900	ALPHA	Alpha, Gross	RAS
E900	BETA	Beta, Gross	RAS

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E901.1	CS-137	Cesium-137	RAS
SW1020	IGNITB	Ignitability	RAS
SW7060	AS	Arsenic	RAS
SW7421	PB	Lead	RAS
SW7471	HG	Mercury	RAS
SW7740	SE	Selenium	RAS
SW8010	BDCME	Bromodichloromethane	RAS
SW8010	BRCLME	Bromochloromethane	RAS
SW8010	BRME	Bromomethane	RAS
SW8010	CEVETH	2-Chloroethyl vinyl ether	RAS
SW8010	CLBZ	Chlorobenzene	RAS
SW8010	CLEA	Chloroethane	RAS
SW8010	CLME	Chloromethane	RAS
SW8010	CTCL	Carbon Tetrachloride	RAS
SW8010	DBCME	Dibromochloromethane	RAS
SW8010	DCA11	1,1-Dichloroethane	RAS
SW8010	DCA12	1,2-Dichloroethane	RAS
SW8010	DCBZ12	1,2-Dichlorobenzene	RAS
SW8010	DCBZ13	1,3-Dichlorobenzene	RAS
SW8010	DCBZ14	1,4-Dichlorobenzene	RAS
SW8010	DCE11	1,1-Dichloroethene	RAS
SW8010	DCE12T	trans-1,2-Dichloroethene	RAS
SW8010	DCP13C	cis-1,3-Dichloropropene	RAS
SW8010	DCP13T	trans-1,3-Dichloropropene	RAS
SW8010	DCPA12	1,2-Dichloropropane	RAS
SW8010	FC11	Trichlorofluoromethane	RAS
SW8010	MTLNCL	Methylene Chloride	RAS
SW8010	PCA	1,1,2,2-Tetrachloroethane	RAS
SW8010	PCE	Tetrachloroethene	RAS
SW8010	TBME	Bromoform	RAS
SW8010	TCA111	1,1,1-Trichloroethane	RAS
SW8010	TCA112	1,1,2-Trichloroethane	RAS
SW8010	TCE	Trichloroethene	RAS
SW8010	TCLME	Chloroform	RAS
SW8010	VC	Vinyl Chloride	RAS
SW8015	MEK	2-Butanone	RAS
SW8020	BZ	Benzene	RAS
SW8020	BZME	Toluene	RAS
SW8020	CLBZ	Chlorobenzene	RAS
SW8020	DCBZ12	1,2-Dichlorobenzene	RAS
SW8020	DCBZ13	1,3-Dichlorobenzene	RAS
SW8020	DCBZ14	1,4-Dichlorobenzene	RAS
SW8020	EBZ	Ethylbenzene	RAS

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
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METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8020	TFBZME	Trifluorotoluene	RAS
SW8020	XYLM	Xylene-m	RAS
SW8020	XYLO	Xylene-o	RAS
SW8020	XYLP	Xylene-p	RAS
SW8080	ALDRIN	Aldrin	RAS
SW8080	BHCALPHA	alpha-BHC	RAS
SW8080	BHCBETA	beta-BHC	RAS
SW8080	BHCDELTA	delta-BHC	RAS
SW8080	BHCGAMMA	gamma-BHC (Lindane)	RAS
SW8080	CHLORDANE	Chlordane	RAS
SW8080	DDD44	p,p'-DDD	RAS
SW8080	DDE44	4,4'-DDE	RAS
SW8080	DDT44	4,4'-DDT	RAS
SW8080	DIELDRIN	Dieldrin	RAS
SW8080	ENDOSULFANA	Endosulfan I	RAS
SW8080	ENDOSULFANB	Endosulfan II	RAS
SW8080	ENDOSULFANS	Endosulfan Sulfate	RAS
SW8080	ENDRIN	Endrin	RAS
SW8080	ENDRINALD	Endrin aldehyde	RAS
SW8080	HEPT-EPOX	Heptachlor epoxide	RAS
SW8080	HEPTACHLOR	Heptachlor	RAS
SW8080	PCB1016	Aroclor-1016	RAS
SW8080	PCB1221	Aroclor-1221	RAS
SW8080	PCB1232	Aroclor-1232	RAS
SW8080	PCB1242	Aroclor-1242	RAS
SW8080	PCB1248	Aroclor-1248	RAS
SW8080	PCB1254	Aroclor-1254	RAS
SW8080	PCB1260	Aroclor-1260	RAS
SW8080	TOXAP	Toxaphene	RAS
SW8270	ACNP	Acenaphthene	RAS
SW8270	ACNPY	Acenaphthylene	RAS
SW8270	ANTH	Anthracene	RAS
SW8270	BBP	Butylbenzylphthalate	RAS
SW8270	BECEM	bis(2-Chloroethoxy)methane	RAS
SW8270	BIS2CEE	bis(2-Chloroethyl)ether	RAS
SW8270	BIS2CIE	bis(2-Chloroisopropyl)ether	RAS
SW8270	BIS2EHP	bis(2-Ethylhexyl)phthalate	RAS
SW8270	BPPE4	4-Bromophenyl-phenylether	RAS
SW8270	BZAA	Benzo(a)anthracene	RAS
SW8270	BZAP	Benzo(a)pyrene	RAS
SW8270	BZBF	Benzo(b)fluoranthene	RAS
SW8270	BZD	Benzidine	RAS
SW8270	BZGHIP	Benzo(g,h,i)perylene	RAS

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
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METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	BZKF	Benzo(k)fluoranthene	RAS
SW8270	C4M3PH	4-Chloro-3-methylphenol	RAS
SW8270	CHRYSENE	Chrysene	RAS
SW8270	CLPH2	2-Chlorophenol	RAS
SW8270	CNPH2	2-Chloronaphthalene	RAS
SW8270	CPPE4	4-Chlorophenyl-phenylether	RAS
SW8270	DBAHA	Dibenz(a,h)anthracene	RAS
SW8270	DBZD33	3,3'-Dichlorobenzidine	RAS
SW8270	DCBZ12	1,2-Dichlorobenzene	RAS
SW8270	DCBZ13	1,3-Dichlorobenzene	RAS
SW8270	DCBZ14	1,4-Dichlorobenzene	RAS
SW8270	DCP24	2,4-Dichlorophenol	RAS
SW8270	DEPH	Diethylphthalate	RAS
SW8270	DMP24	2,4-Dimethylphenol	RAS
SW8270	DMPH	Dimethylphthalate	RAS
SW8270	DN46M	4,6-Dinitro-2-methylphenol	RAS
SW8270	DNBP	Di-n-butylphthalate	RAS
SW8270	DNOP	Di-n-octylphthalate	RAS
SW8270	DNP24	2,4-Dinitrophenol	RAS
SW8270	DNT24	2,4-Dinitrotoluene	RAS
SW8270	DNT26	2,6-Dinitrotoluene	RAS
SW8270	DPHY12	1,2-Diphenylhydrazine	RAS
SW8270	FL	Fluorene	RAS
SW8270	FLA	Fluoranthene	RAS
SW8270	HCBU	Hexachlorobutadiene	RAS
SW8270	HCCP	Hexachlorocyclopentadiene	RAS
SW8270	HCLBZ	Hexachlorobenzene	RAS
SW8270	HCLEA	Hexachloroethane	RAS
SW8270	INP123	Indeno(1,2,3-cd)pyrene	RAS
SW8270	ISOP	Isophorone	RAS
SW8270	NAPH	Naphthalene	RAS
SW8270	NNSM	N-Nitrosodimethylamine	RAS
SW8270	NNSPH	N-Nitrosodiphenylamine	RAS
SW8270	NNSPR	N-Nitroso-di-n-propylamine	RAS
SW8270	NO2BZ	Nitrobenzene	RAS
SW8270	NTPH2	2-Nitrophenol	RAS
SW8270	NTPH4	4-Nitrophenol	RAS
SW8270	PCP	Pentachlorophenol	RAS
SW8270	PHAN	Phenanthrene	RAS
SW8270	PHENOL	Phenol	RAS
SW8270	PYR	Pyrene	RAS
SW8270	TCB124	1,2,4-Trichlorobenzene	RAS
SW8270	TCP246	2,4,6-Trichlorophenol	RAS

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TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E608	ALDRIN	Aldrin	RASS
E608	BHCALPHA	alpha-BHC	RASS
E608	BHCBETA	beta-BHC	RASS
E608	BHCDELTA	delta-BHC	RASS
E608	BHCGAMMA	gamma-BHC (Lindane)	RASS
E608	CHLORDANE	Chlordane	RASS
E608	CHLORDANEA	alpha-Chlordane	RASS
E608	CHLORDANEG	gamma-Chlordane	RASS
E608	DDD44	p,p'-DDD	RASS
E608	DDE44	4,4'-DDE	RASS
E608	DDT44	4,4'-DDT	RASS
E608	DIELDRIN	Dieldrin	RASS
E608	ENDOSULFANA	Endosulfan I	RASS
E608	ENDOSULFANB	Endosulfan II	RASS
E608	ENDOSULFANS	Endosulfan Sulfate	RASS
E608	ENDRIN	Endrin	RASS
E608	ENDRINALD	Endrin aldehyde	RASS
E608	ENDRINKET	Endrin ketone	RASS
E608	HEPT-EPOX	Heptachlor epoxide	RASS
E608	HEPTACHLOR	Heptachlor	RASS
E608	MTXYCL	Methoxychlor	RASS
E608	PCB1016	Aroclor-1016	RASS
E608	PCB1221	Aroclor-1221	RASS
E608	PCB1232	Aroclor-1232	RASS
E608	PCB1242	Aroclor-1242	RASS
E608	PCB1248	Aroclor-1248	RASS
E608	PCB1254	Aroclor-1254	RASS
E608	PCB1260	Aroclor-1260	RASS
E608	TOXAP	Toxaphene	RASS
E625	ACNP	Acenaphthene	RASS
E625	ACNPY	Acenaphthylene	RASS
E625	ANILINE	Analine	RASS
E625	ANTH	Anthracene	RASS
E625	BBP	Butylbenzylphthalate	RASS
E625	BECEM	bis(2-Chloroethoxy)methane	RASS
E625	BIS2CEE	bis(2-Chloroethyl)ether	RASS
E625	BIS2CIE	bis(2-Chloroisopropyl)ether	RASS
E625	BIS2EHP	bis(2-Ethylhexyl)phthalate	RASS
E625	BPPE4	4-Bromophenyl-phenylether	RASS
E625	BZAA	Benzo(a)anthracene	RASS
E625	BZACID	Benzoic Acid	RASS
E625	BZAP	Benzo(a)pyrene	RASS
E625	BZBF	Benzo(b)fluoranthene	RASS

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TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
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METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E625	BZD	Benzidine	RASS
E625	BZGHIP	Benzo(g,h,i)perylene	RASS
E625	BZKF	Benzo(k)fluoranthene	RASS
E625	BZLAL	Benzyl Alcohol	RASS
E625	C4M3PH	4-Chloro-3-methylphenol	RASS
E625	CHRYSENE	Chrysene	RASS
E625	CLANIL4	4-Chloroaniline	RASS
E625	CLPH2	2-Chlorophenol	RASS
E625	CNPH2	2-Chloronaphthalene	RASS
E625	CPPE4	4-Chlorophenyl-phenylether	RASS
E625	DBAHA	Dibenz(a,h)anthracene	RASS
E625	DBF	Dibenzofuran	RASS
E625	DBZD33	3,3'-Dichlorobenzidine	RASS
E625	DCBZ12	1,2-Dichlorobenzene	RASS
E625	DCBZ13	1,3-Dichlorobenzene	RASS
E625	DCBZ14	1,4-Dichlorobenzene	RASS
E625	DCP24	2,4-Dichlorophenol	RASS
E625	DEPH	Diethylphthalate	RASS
E625	DMP24	2,4-Dimethylphenol	RASS
E625	DMPH	Dimethylphthalate	RASS
E625	DN46M	4,6-Dinitro-2-methylphenol	RASS
E625	DNBP	Di-n-butylphthalate	RASS
E625	DNOP	Di-n-octylphthalate	RASS
E625	DNP24	2,4-Dinitrophenol	RASS
E625	DNT24	2,4-Dinitrotoluene	RASS
E625	DNT26	2,6-Dinitrotoluene	RASS
E625	DPHY12	1,2-Diphenylhydrazine	RASS
E625	FL	Fluorene	RASS
E625	FLA	Fluoranthene	RASS
E625	HCBU	Hexachlorobutadiene	RASS
E625	HCCP	Hexachlorocyclopentadiene	RASS
E625	HCLBZ	Hexachlorobenzene	RASS
E625	HCLEA	Hexachloroethane	RASS
E625	INP123	Indeno(1,2,3-cd)pyrene	RASS
E625	ISOP	Isophorone	RASS
E625	MEPH2	2-Methylphenol(o-Cresol)	RASS
E625	MEPH4	4-Methylphenol(p-Cresol)	RASS
E625	MTNPH2	2-Methylnaphthalene	RASS
E625	NAPH	Naphthalene	RASS
E625	NNSM	N-Nitrosodimethylamine	RASS
E625	NNSPH	N-Nitrosodiphenylamine	RASS
E625	NNSPR	N-Nitroso-di-n-propylamine	RASS
E625	NO2ANIL2	2-Nitroaniline	RASS

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TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E625	NO2ANIL3	3-Nitroaniline	RASS
E625	NO2ANIL4	4-Nitroaniline	RASS
E625	NO2BZ	Nitrobenzene	RASS
E625	NTPH2	2-Nitrophenol	RASS
E625	NTPH4	4-Nitrophenol	RASS
E625	PCP	Pentachlorophenol	RASS
E625	PHAN	Phenanthrene	RASS
E625	PHENOL	Phenol	RASS
E625	PYR	Pyrene	RASS
E625	TCB124	1,2,4-Trichlorobenzene	RASS
E625	TCDD2378	2,3,7,8-TCDD	RASS
E625	TCP245	2,4,5-Trichlorophenol	RASS
E625	TCP246	2,4,6-Trichlorophenol	RASS
SGVOAF	BZ	Benzene	e/ TRC
SGVOAF	BZME	Toluene	TRC
SGVOAF	CTCL	Carbon Tetrachloride	TRC
SGVOAF	PCE	Tetrachloroethene	TRC
SGVOAF	TCA111	1,1,1-Trichloroethane	TRC
SGVOAF	TCE	Trichloroethene	TRC
SGVOAF	XYLENES	Xylene (Total)	TRC
E624	ACRL	Acrolein	f/ ARLD
E624	ACRN	Acrylnitrile	ARLD
E624	BDCME	Bromodichloromethane	ARLD
E624	BRME	Bromomethane	ARLD
E624	BZ	Benzene	ARLD
E624	BZME	Toluene	ARLD
E624	CEVETH	2-Chloroethyl vinyl ether	ARLD
E624	CLBZ	Chlorobenzene	ARLD
E624	CLEA	Chloroethane	ARLD
E624	CLME	Chloromethane	ARLD
E624	CTCL	Carbon Tetrachloride	ARLD
E624	DBCME	Dibromochloromethane	ARLD
E624	DCA11	1,1-Dichloroethane	ARLD
E624	DCA12	1,2-Dichloroethane	ARLD
E624	DCE11	1,1-Dichloroethene	ARLD
E624	DCE12T	trans-1,2-Dichloroethene	ARLD
E624	DCP13	1,3-Dichloropropylene	ARLD
E624	DCP13C	cis-1,3-Dichloropropene	ARLD
E624	DCP13T	trans-1,3-Dichloropropene	ARLD
E624	DCPA12	1,2-Dichloropropane	ARLD
E624	EBZ	Ethylbenzene	ARLD
E624	FC11	Trichlorofluoromethane	ARLD
E624	FC12	Dichlorodifluoromethane	ARLD

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
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METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E624	MTLNCL	Methylene Chloride	ARLD
E624	PCA	1,1,2,2-Tetrachloroethane	ARLD
E624	PCE	Tetrachloroethene	ARLD
E624	TBME	Bromoform	ARLD
E624	TCA111	1,1,1-Trichloroethane	ARLD
E624	TCA112	1,1,2-Trichloroethane	ARLD
E624	TCE	Trichloroethene	ARLD
E624	TCLME	Chloroform	ARLD
E624	VC	Vinyl Chloride	ARLD
E625	ACNP	Acenaphthene	ARLD
E625	ACNPY	Acenaphthylene	ARLD
E625	ANILINE	Analine	ARLD
E625	ANTH	Anthracene	ARLD
E625	BBP	Butylbenzylphthalate	ARLD
E625	BECEM	bis(2-Chloroethoxy)methane	ARLD
E625	BIS2CEE	bis(2-Chloroethyl)ether	ARLD
E625	BIS2CIE	bis(2-Chloroisopropyl)ether	ARLD
E625	BIS2EHP	bis(2-Ethylhexyl)phthalate	ARLD
E625	BPPE4	4-Bromophenyl-phenylether	ARLD
E625	BZAA	Benzo(a)anthracene	ARLD
E625	BZACID	Benzoic Acid	ARLD
E625	BZAP	Benzo(a)pyrene	ARLD
E625	BZBF	Benzo(b)fluoranthene	ARLD
E625	BZD	Benzidine	ARLD
E625	BZGHIP	Benzo(g,h,i)perylene	ARLD
E625	BZKF	Benzo(k)fluoranthene	ARLD
E625	BZLAL	Benzyl Alcohol	ARLD
E625	C4M3PH	4-Chloro-3-methylphenol	ARLD
E625	CHRYSENE	Chrysene	ARLD
E625	CLANIL4	4-Chloroaniline	ARLD
E625	CLPH2	2-Chlorophenol	ARLD
E625	CNPH2	2-Chloronaphthalene	ARLD
E625	CPPE4	4-Chlorophenyl-phenylether	ARLD
E625	DBAHA	Dibenz(a,h)anthracene	ARLD
E625	DBF	Dibenzofuran	ARLD
E625	DBZD33	3,3'-Dichlorobenzidine	ARLD
E625	DCBZ12	1,2-Dichlorobenzene	ARLD
E625	DCBZ13	1,3-Dichlorobenzene	ARLD
E625	DCBZ14	1,4-Dichlorobenzene	ARLD
E625	DCP24	2,4-Dichlorophenol	ARLD
E625	DEPH	Diethylphthalate	ARLD
E625	DMP24	2,4-Dimethylphenol	ARLD
E625	DMPH	Dimethylphthalate	ARLD

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
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METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E625	DN46M	4,6-Dinitro-2-methylphenol	ARLD
E625	DNBP	Di-n-butylphthalate	ARLD
E625	DNOP	Di-n-octylphthalate	ARLD
E625	DNP24	2,4-Dinitrophenol	ARLD
E625	DNT24	2,4-Dinitrotoluene	ARLD
E625	DNT26	2,6-Dinitrotoluene	ARLD
E625	DPHY12	1,2-Diphenylhydrazine	ARLD
E625	FL	Fluorene	ARLD
E625	FLA	Fluoranthene	ARLD
E625	HCBU	Hexachlorobutadiene	ARLD
E625	HCCP	Hexachlorocyclopentadiene	ARLD
E625	HCLBZ	Hexachlorobenzene	ARLD
E625	HCLEA	Hexachloroethane	ARLD
E625	INP123	Indeno(1,2,3-cd)pyrene	ARLD
E625	ISOP	Isophorone	ARLD
E625	MEPH2	2-Methylphenol(o-Cresol)	ARLD
E625	MEPH4	4-Methylphenol(p-Cresol)	ARLD
E625	MTNPH2	2-Methylnaphthalene	ARLD
E625	NAPH	Naphthalene	ARLD
E625	NNSM	N-Nitrosodimethylamine	ARLD
E625	NNSPH	N-Nitrosodiphenylamine	ARLD
E625	NNSPR	N-Nitroso-di-n-propylamine	ARLD
E625	NO2ANIL2	2-Nitroaniline	ARLD
E625	NO2ANIL3	3-Nitroaniline	ARLD
E625	NO2ANIL4	4-Nitroaniline	ARLD
E625	NO2BZ	Nitrobenzene	ARLD
E625	NTPH2	2-Nitrophenol	ARLD
E625	NTPH4	4-Nitrophenol	ARLD
E625	PCP	Pentachlorophenol	ARLD
E625	PHAN	Phenanthrene	ARLD
E625	PHENOL	Phenol	ARLD
E625	PYR	Pyrene	ARLD
E625	TCB124	1,2,4-Trichlorobenzene	ARLD
E625	TCDD2378	2,3,7,8-TCDD	ARLD
E625	TCP245	2,4,5-Trichlorophenol	ARLD
E625	TCP246	2,4,6-Trichlorophenol	ARLD
E624	ACRL	Acrolein	BC
E624	ACRN	Acrylnitrile	BC
E624	BDCME	Bromodichloromethane	BC
E624	BRME	Bromomethane	BC
E624	BZ	Benzene	BC
E624	BZME	Toluene	BC
E624	CEVETH	2-Chloroethyl vinyl ether	BC

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TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
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METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E624	CLBZ	Chlorobenzene	BC
E624	CLEA	Chloroethane	BC
E624	CLME	Chloromethane	BC
E624	CTCL	Carbon Tetrachloride	BC
E624	DBCME	Dibromochloromethane	BC
E624	DCA11	1,1-Dichloroethane	BC
E624	DCA12	1,2-Dichloroethane	BC
E624	DCE11	1,1-Dichloroethene	BC
E624	DCE12T	trans-1,2-Dichloroethene	BC
E624	DCP13	1,3-Dichloropropylene	BC
E624	DCP13C	cis-1,3-Dichloropropene	BC
E624	DCP13T	trans-1,3-Dichloropropene	BC
E624	DCPA12	1,2-Dichloropropane	BC
E624	EBZ	Ethylbenzene	BC
E624	FC11	Trichlorofluoromethane	BC
E624	FC12	Dichlorodifluoromethane	BC
E624	MTLNCL	Methylene Chloride	BC
E624	PCA	1,1,2,2-Tetrachloroethane	BC
E624	PCE	Tetrachloroethene	BC
E624	TBME	Bromoform	BC
E624	TCA111	1,1,1-Trichloroethane	BC
E624	TCA112	1,1,2-Trichloroethane	BC
E624	TCE	Trichloroethene	BC
E624	TCLME	Chloroform	BC
E624	VC	Vinyl Chloride	BC
E625	ACNP	Acenaphthene	BC
E625	ACNPY	Acenaphthylene	BC
E625	ANILINE	Analine	BC
E625	ANTH	Anthracene	BC
E625	BBP	Butylbenzylphthalate	BC
E625	BECEM	bis(2-Chloroethoxy)methane	BC
E625	BIS2CEE	bis(2-Chloroethyl)ether	BC
E625	BIS2CIE	bis(2-Chloroisopropyl)ether	BC
E625	BIS2EHP	bis(2-Ethylhexyl)phthalate	BC
E625	BPPE4	4-Bromophenyl-phenylether	BC
E625	BZAA	Benzo(a)anthracene	BC
E625	BZACID	Benzoic Acid	BC
E625	BZAP	Benzo(a)pyrene	BC
E625	BZBF	Benzo(b)fluoranthene	BC
E625	BZD	Benzidine	BC
E625	BZGHIP	Benzo(g,h,i)perylene	BC
E625	BZKF	Benzo(k)fluoranthene	BC
E625	BZLAL	Benzyl Alcohol	BC

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
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METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E625	C4M3PH	4-Chloro-3-methylphenol	BC
E625	CHRYSENE	Chrysene	BC
E625	CLANIL4	4-Chloroaniline	BC
E625	CLPH2	2-Chlorophenol	BC
E625	CNPH2	2-Chloronaphthalene	BC
E625	CPPE4	4-Chlorophenyl-phenylether	BC
E625	DBAHA	Dibenz(a,h)anthracene	BC
E625	DBF	Dibenzofuran	BC
E625	DBZD33	3,3'-Dichlorobenzidine	BC
E625	DCBZ12	1,2-Dichlorobenzene	BC
E625	DCBZ13	1,3-Dichlorobenzene	BC
E625	DCBZ14	1,4-Dichlorobenzene	BC
E625	DCP24	2,4-Dichlorophenol	BC
E625	DEPH	Diethylphthalate	BC
E625	DMP24	2,4-Dimethylphenol	BC
E625	DMPH	Dimethylphthalate	BC
E625	DN46M	4,6-Dinitro-2-methylphenol	BC
E625	DNBP	Di-n-butylphthalate	BC
E625	DNOP	Di-n-octylphthalate	BC
E625	DNP24	2,4-Dinitrophenol	BC
E625	DNT24	2,4-Dinitrotoluene	BC
E625	DNT26	2,6-Dinitrotoluene	BC
E625	DPHY12	1,2-Diphenylhydrazine	BC
E625	FL	Fluorene	BC
E625	FLA	Fluoranthene	BC
E625	HCBU	Hexachlorobutadiene	BC
E625	HCCP	Hexachlorocyclopentadiene	BC
E625	HCLBZ	Hexachlorobenzene	BC
E625	HCLEA	Hexachloroethane	BC
E625	INP123	Indeno(1,2,3-cd)pyrene	BC
E625	ISOP	Isophorone	BC
E625	MEPH2	2-Methylphenol(o-Cresol)	BC
E625	MEPH4	4-Methylphenol(p-Cresol)	BC
E625	MTNPH2	2-Methylnaphthalene	BC
E625	NAPH	Naphthalene	BC
E625	NNSM	N-Nitrosodimethylamine	BC
E625	NNSPH	N-Nitrosodiphenylamine	BC
E625	NNSPR	N-Nitroso-di-n-propylamine	BC
E625	NO2ANIL2	2-Nitroaniline	BC
E625	NO2ANIL3	3-Nitroaniline	BC
E625	NO2ANIL4	4-Nitroaniline	BC
E625	NO2BZ	Nitrobenzene	BC
E625	NTPH2	2-Nitrophenol	BC

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TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN

258405

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E625	NTPH4	4-Nitrophenol	BC
E625	PCP	Pentachlorophenol	BC
E625	PHAN	Phenanthrene	BC
E625	PHENOL	Phenol	BC
E625	PYR	Pyrene	BC
E625	TCB124	1,2,4-Trichlorobenzene	BC
E625	TCDD2378	2,3,7,8-TCDD	BC
E625	TCP245	2,4,5-Trichlorophenol	BC
E625	TCP246	2,4,6-Trichlorophenol	BC
E624	ACRL	Acrolein	MKSN
E624	ACRN	Acrylnitrile	MKSN
E624	BDCME	Bromodichloromethane	MKSN
E624	BRME	Bromomethane	MKSN
E624	BZ	Benzene	MKSN
E624	BZME	Toluene	MKSN
E624	CEVETH	2-Chloroethyl vinyl ether	MKSN
E624	CLBZ	Chlorobenzene	MKSN
E624	CLEA	Chloroethane	MKSN
E624	CLME	Chloromethane	MKSN
E624	CTCL	Carbon Tetrachloride	MKSN
E624	DBCME	Dibromochloromethane	MKSN
E624	DCA11	1,1-Dichloroethane	MKSN
E624	DCA12	1,2-Dichloroethane	MKSN
E624	DCE11	1,1-Dichloroethene	MKSN
E624	DCE12T	trans-1,2-Dichloroethene	MKSN
E624	DCP13	1,3-Dichloropropylene	MKSN
E624	DCP13C	cis-1,3-Dichloropropene	MKSN
E624	DCP13T	trans-1,3-Dichloropropene	MKSN
E624	DCPA12	1,2-Dichloropropane	MKSN
E624	EBZ	Ethylbenzene	MKSN
E624	FC11	Trichlorofluoromethane	MKSN
E624	FC12	Dichlorodifluoromethane	MKSN
E624	MTLNCL	Methylene Chloride	MKSN
E624	PCA	1,1,2,2-Tetrachloroethane	MKSN
E624	PCE	Tetrachloroethene	MKSN
E624	TBME	Bromoform	MKSN
E624	TCA111	1,1,1-Trichloroethane	MKSN
E624	TCA112	1,1,2-Trichloroethane	MKSN
E624	TCE	Trichloroethene	MKSN
E624	TCLME	Chloroform	MKSN
E624	VC	Vinyl Chloride	MKSN
E625	ACNP	Acenaphthene	MKSN
E625	ACNPY	Acenaphthylene	MKSN

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

258406

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E625	ANILINE	Analine	MKSN
E625	ANTH	Anthracene	MKSN
E625	BBP	Butylbenzylphthalate	MKSN
E625	BECEM	bis(2-Chloroethoxy)methane	MKSN
E625	BIS2CEE	bis(2-Chloroethyl)ether	MKSN
E625	BIS2CIE	bis(2-Chloroisopropyl)ether	MKSN
E625	BIS2EHP	bis(2-Ethylhexyl)phthalate	MKSN
E625	BPPE4	4-Bromophenyl-phenylether	MKSN
E625	BZAA	Benzo(a)anthracene	MKSN
E625	BZACID	Benzoic Acid	MKSN
E625	BZAP	Benzo(a)pyrene	MKSN
E625	BZBF	Benzo(b)fluoranthene	MKSN
E625	BZD	Benzidine	MKSN
E625	BZGHIP	Benzo(g,h,i)perylene	MKSN
E625	BZKF	Benzo(k)fluoranthene	MKSN
E625	BZLAL	Benzyl Alcohol	MKSN
E625	C4M3PH	4-Chloro-3-methylphenol	MKSN
E625	CHRYSENE	Chrysene	MKSN
E625	CLANIL4	4-Chloroaniline	MKSN
E625	CLPH2	2-Chlorophenol	MKSN
E625	CNPH2	2-Chloronaphthalene	MKSN
E625	CPPE4	4-Chlorophenyl-phenylether	MKSN
E625	DBAHA	Dibenz(a,h)anthracene	MKSN
E625	DBF	Dibenzofuran	MKSN
E625	DBZD33	3,3'-Dichlorobenzidine	MKSN
E625	DCBZ12	1,2-Dichlorobenzene	MKSN
E625	DCBZ13	1,3-Dichlorobenzene	MKSN
E625	DCBZ14	1,4-Dichlorobenzene	MKSN
E625	DCP24	2,4-Dichlorophenol	MKSN
E625	DEPH	Diethylphthalate	MKSN
E625	DMP24	2,4-Dimethylphenol	MKSN
E625	DMPH	Dimethylphthalate	MKSN
E625	DN46M	4,6-Dinitro-2-methylphenol	MKSN
E625	DNBP	Di-n-butylphthalate	MKSN
E625	DNOP	Di-n-octylphthalate	MKSN
E625	DNP24	2,4-Dinitrophenol	MKSN
E625	DNT24	2,4-Dinitrotoluene	MKSN
E625	DNT26	2,6-Dinitrotoluene	MKSN
E625	DPHY12	1,2-Diphenylhydrazine	MKSN
E625	FL	Fluorene	MKSN
E625	FLA	Fluoranthene	MKSN
E625	HCBU	Hexachlorobutadiene	MKSN
E625	HCCP	Hexachlorocyclopentadiene	MKSN

TABLE B.8 (Continued)
TARGET COMPOUND LIST, RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
E625	HCLBZ	Hexachlorobenzene	MKSN
E625	HCLEA	Hexachloroethane	MKSN
E625	INP123	Indeno(1,2,3-cd)pyrene	MKSN
E625	ISOP	Isophorone	MKSN
E625	MEPH2	2-Methylphenol(o-Cresol)	MKSN
E625	MEPH4	4-Methylphenol(p-Cresol)	MKSN
E625	MTNPH2	2-Methylnaphthalene	MKSN
E625	NAPH	Naphthalene	MKSN
E625	NNSM	N-Nitrosodimethylamine	MKSN
E625	NNSPH	N-Nitrosodiphenylamine	MKSN
E625	NNSPR	N-Nitroso-di-n-propylamine	MKSN
E625	NO2ANIL2	2-Nitroaniline	MKSN
E625	NO2ANIL3	3-Nitroaniline	MKSN
E625	NO2ANIL4	4-Nitroaniline	MKSN
E625	NO2BZ	Nitrobenzene	MKSN
E625	NTPH2	2-Nitrophenol	MKSN
E625	NTPH4	4-Nitrophenol	MKSN
E625	PCP	Pentachlorophenol	MKSN
E625	PHAN	Phenanthrene	MKSN
E625	PHENOL	Phenol	MKSN
E625	PYR	Pyrene	MKSN
E625	TCB124	1,2,4-Trichlorobenzene	MKSN
E625	TCDD2378	2,3,7,8-TCDD	MKSN
E625	TCP245	2,4,5-Trichlorophenol	MKSN
E625	TCP246	2,4,6-Trichlorophenol	MKSN

[a/] E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March 1983)
[b/] RAS = Radian Analyical Services Lab, Austin, TX
[c/] SW = EPA SW-846 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3RD Edition (Nov. 1992)
[d/] RASS = Radian Analytical Services, Sacramento, CA.
[e/] TRC = Tracer Research Corporation, Tuscon, AZ.
[f/] ARLD = Laboratory not listed in IRPIMS Valid Values List.
[g/] BC = Brown and Caldwell Laboratories, Pasadena, CA.
[h/] MKSN = McKesson Laboratories.

TABLE B.9
TARGET COMPOUND LIST, IT CORPORATION
Data Quality Assurance
US Air Force Plant 4
Fort Woth, TX

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
[a]E150.1	PH	pH	[b]IT
E160.1	TDS	Total Dissolved Solids	IT
E160.2	SS	Suspended Solids	IT
E300	CL	Chloride	IT
E300	SO4	Sulfate	IT
E310.1	ALK	Alkalinity, Total (as CACO3)	IT
E310.1	CO3	Carbonate	IT
E310.1	HCO3	Bicarbonate	IT
E310.2	ALK	Alkalinity, Total (as CACO3)	IT
E325.2	CL	Chloride	IT
E353.2	NO3NO2N	Nitrate/Nitrite	IT
E375.4	SO4	Sulfate	IT
E405.1	BOD5	Biological Oxy. Demand, 5 day	IT
E410.4	COD	Chemical Oxygen Demand	IT
E415.1	TOC	Total Organic Carbon	IT
[c]SW6010	AG	Silver	IT
SW6010	AL	Aluminum	IT
SW6010	BA	Barium	IT
SW6010	BE	Beryllium	IT
SW6010	CA	Calcium	IT
SW6010	CD	Cadmium	IT
SW6010	CO	Cobalt	IT
SW6010	CR	Chromium	IT
SW6010	CU	Copper	IT
SW6010	FE	Iron	IT
SW6010	K	Potassium	IT
SW6010	MG	Magnesium	IT
SW6010	MN	Manganese	IT
SW6010	NA	Sodium	IT
SW6010	NI	Nickel	IT
SW6010	SB	Antimony	IT
SW6010	V	Vanadium	IT
SW6010	ZN	Zinc	IT
SW7060	AS	Arsenic	IT
SW7196	CR6	Chromium, hexavalent	IT
SW7421	PB	Lead	IT
SW7471	HG	Mercury	IT
SW7740	SE	Selenium	IT
SW7841	TL	Thallium	IT
SW8240	ACE	Acetone	IT

TABLE B.9 (Continued)
TARGET COMPOUND LIST, IT CORPORATION

Data Quality Assurance
US Air Force Plant 4
Fort Woth, TX

258410

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8240	BDCME	Bromodichloromethane	IT
SW8240	BRME	Bromomethane	IT
SW8240	BZ	Benzene	IT
SW8240	BZME	Toluene	IT
SW8240	CDS	Carbon Disulfide	IT
SW8240	CEVETH	2-Chloroethyl vinyl ether	IT
SW8240	CLBZ	Chlorobenzene	IT
SW8240	CLEA	Chloroethane	IT
SW8240	CLME	Chloromethane	IT
SW8240	CTCL	Carbon Tetrachloride	IT
SW8240	DBCME	Dibromochloromethane	IT
SW8240	DCA11	1,1-Dichloroethane	IT
SW8240	DCA12	1,2-Dichloroethane	IT
SW8240	DCE11	1,1-Dichloroethene	IT
SW8240	DCE12C	cis-1,2-Dichloroethene	IT
SW8240	DCE12T	trans-1,2-Dichloroethene	IT
SW8240	DCP13C	cis-1,3-Dichloropropene	IT
SW8240	DCP13T	trans-1,3-Dichloropropene	IT
SW8240	DCPA12	1,2-Dichloropropane	IT
SW8240	EBZ	Ethylbenzene	IT
SW8240	HXO2	2-Hexanone	IT
SW8240	MEK	2-Butanone	IT
SW8240	MIBK	4-Methyl-2-Pentanone	IT
SW8240	MTLNCL	Methylene Chloride	IT
SW8240	PCA	1,1,2,2-Tetrachloroethane	IT
SW8240	PCE	Tetrachloroethene	IT
SW8240	STY	Styrene	IT
SW8240	TBME	Bromoform	IT
SW8240	TCA111	1,1,1-Trichloroethane	IT
SW8240	TCA112	1,1,2-Trichloroethane	IT
SW8240	TCE	Trichloroethene	IT
SW8240	TCLME	Chloroform	IT
SW8240	VA	Vinyl Acetate	IT
SW8240	VC	Vinyl Chloride	IT
SW8240	XYLENES	Xylene (Total)	IT
SW8270	ACNP	Acenaphthene	IT
SW8270	ACNPY	Acenaphthylene	IT
SW8270	ANTH	Anthracene	IT
SW8270	BBP	Butylbenzylphthalate	IT
SW8270	BECEM	bis(2-Chloroethoxy)methane	IT
SW8270	BIS2CEE	bis(2-Chloroethyl)ether	IT

TABLE B.9 (Continued)
TARGET COMPOUND LIST, IT CORPORATION 258411
Data Quality Assurance
US Air Force Plant 4
Fort Woth, TX

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	BIS2CIE	bis(2-Chloroisopropyl)ether	IT
SW8270	BIS2EHP	bis(2-Ethylhexyl)phthalate	IT
SW8270	BPPE4	4-Bromophenyl-phenylether	IT
SW8270	BZAA	Benzo(a)anthracene	IT
SW8270	BZACID	Benzoic Acid	IT
SW8270	BZAP	Benzo(a)pyrene	IT
SW8270	BZBF	Benzo(b)fluoranthene	IT
SW8270	BZGHIP	Benzo(g,h,i)perylene	IT
SW8270	BZKF	Benzo(k)fluoranthene	IT
SW8270	BZLAL	Benzyl Alcohol	IT
SW8270	C4M3PH	4-Chloro-3-methylphenol	IT
SW8270	CHRYSENE	Chrysene	IT
SW8270	CLANIL4	4-Chloroaniline	IT
SW8270	CLPH2	2-Chlorophenol	IT
SW8270	CNPH2	2-Chloronaphthalene	IT
SW8270	CPPE4	4-Chlorophenyl-phenylether	IT
SW8270	DBAHA	Dibenz(a,h)anthracene	IT
SW8270	DBF	Dibenzofuran	IT
SW8270	DBZD33	3,3'-Dichlorobenzidine	IT
SW8270	DCBZ12	1,2-Dichlorobenzene	IT
SW8270	DCBZ13	1,3-Dichlorobenzene	IT
SW8270	DCBZ14	1,4-Dichlorobenzene	IT
SW8270	DCP24	2,4-Dichlorophenol	IT
SW8270	DEPH	Diethylphthalate	IT
SW8270	DMP24	2,4-Dimethylphenol	IT
SW8270	DMPH	Dimethylphthalate	IT
SW8270	DN46M	4,6-Dinitro-2-methylphenol	IT
SW8270	DNBP	Di-n-butylphthalate	IT
SW8270	DNOP	Di-n-octylphthalate	IT
SW8270	DNP24	2,4-Dinitrophenol	IT
SW8270	DNT24	2,4-Dinitrotoluene	IT
SW8270	DNT26	2,6-Dinitrotoluene	IT
SW8270	FL	Fluorene	IT
SW8270	FLA	Fluoranthene	IT
SW8270	HCBU	Hexachlorobutadiene	IT
SW8270	HCCP	Hexachlorocyclopentadiene	IT
SW8270	HCLBZ	Hexachlorobenzene	IT
SW8270	HCLEA	Hexachloroethane	IT
SW8270	INP123	Indeno(1,2,3-cd)pyrene	IT
SW8270	ISOP	Isophorone	IT
SW8270	MEPH2	2-Methylphenol(o-Cresol)	IT

TABLE B.9 (Continued)
TARGET COMPOUND LIST, IT CORPORATION

258412

Data Quality Assurance
US Air Force Plant 4
Fort Woth, TX

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	MEPH4	4-Methylphenol(p-Cresol)	IT
SW8270	NAPH	Naphthalene	IT
SW8270	NNSPH	N-Nitrosodiphenylamine	IT
SW8270	NNSPR	N-Nitroso-di-n-propylamine	IT
SW8270	NO2ANIL2	2-Nitroaniline	IT
SW8270	NO2ANIL3	3-Nitroaniline	IT
SW8270	NO2ANIL4	4-Nitroaniline	IT
SW8270	NO2BZ	Nitrobenzene	IT
SW8270	NTPH2	2-Nitrophenol	IT
SW8270	NTPH4	4-Nitrophenol	IT
SW8270	PCP	Pentachlorophenol	IT
SW8270	PHAN	Phenanthrene	IT
SW8270	PHENOL	Phenol	IT
SW8270	PYR	Pyrene	IT
SW8270	TCB124	1,2,4-Trichlorobenzene	IT
SW8270	TCP245	2,4,5-Trichlorophenol	IT
SW8270	TCP246	2,4,6-Trichlorophenol	IT

[a]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March 1983)

[b]IT = International Technology

[c]SW = EPA SW-846 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3RD Edition (Nov. 1992)

TABLE B.10
TARGET COMPOUND LIST, GEOMARINE
Data Quality Assurance
US Air Force Plant 4
Fort Woth, TX

258413

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
[a]SW8010	BDCME	Bromodichloromethane	[b]NDRC
SW8010	BRBZ	Bromobenzene	NDRC
SW8010	BRME	Bromomethane	NDRC
SW8010	CEVETH	2-Chloroethyl vinyl ether	NDRC
SW8010	CLBZ	Chlorobenzene	NDRC
SW8010	CLBZME	Chlorotoluene	NDRC
SW8010	CLEA	Chloroethane	NDRC
SW8010	CLHX1	1-Chlorohexane	NDRC
SW8010	CLME	Chloromethane	NDRC
SW8010	CLMME	Chloromethyl Methyl Ether	NDRC
SW8010	CTCL	Carbon Tetrachloride	NDRC
SW8010	DBCME	Dibromochloromethane	NDRC
SW8010	DBMA	Dibromomethane	NDRC
SW8010	DCA11	1,1-Dichloroethane	NDRC
SW8010	DCA12	1,2-Dichloroethane	NDRC
SW8010	DCBZ12	1,2-Dichlorobenzene	NDRC
SW8010	DCBZ13	1,3-Dichlorobenzene	NDRC
SW8010	DCBZ14	1,4-Dichlorobenzene	NDRC
SW8010	DCE11	1,1-Dichloroethene	NDRC
SW8010	DCE12C	cis-1,2-Dichloroethene	NDRC
SW8010	DCE12T	trans-1,2-Dichloroethene	NDRC
SW8010	DCP13C	cis-1,3-Dichloropropene	NDRC
SW8010	DCP13T	trans-1,3-Dichloropropene	NDRC
SW8010	DCPA12	1,2-Dichloropropane	NDRC
SW8010	FC11	Trichlorofluoromethane	NDRC
SW8010	FC12	Dichlorodifluoromethane	NDRC
SW8010	MTLNCL	Methylene Chloride	NDRC
SW8010	PCA	1,1,2,2-Tetrachloroethane	NDRC
SW8010	PCE	Tetrachloroethene	NDRC
SW8010	TBME	Bromoform	NDRC
SW8010	TC1112	1,1,1,2-Tetrachloroethane	NDRC
SW8010	TCA111	1,1,1-Trichloroethane	NDRC
SW8010	TCA112	1,1,2-Trichloroethane	NDRC
SW8010	TCE	Trichloroethene	NDRC
SW8010	TCLME	Chloroform	NDRC
SW8010	TCPR	Trichloropropane	NDRC
SW8010	VC	Vinyl Chloride	NDRC
SW8021	BRCLBZ2	2-Bromochlorobenzene	NDRC
SW8021	BZ	Benzene	NDRC
SW8021	BZME	Toluene	NDRC

TABLE B.10 (Continued)
TARGET COMPOUND LIST, GEOMARINE
Data Quality Assurance
US Air Force Plant 4
Fort Woth, TX

258414

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8021	DCA11	1,1-Dichloroethane	NDRC
SW8021	DCE11	1,1-Dichloroethene	NDRC
SW8021	DCE12C	cis-1,2-Dichloroethene	NDRC
SW8021	DCE12T	trans-1,2-Dichloroethene	NDRC
SW8021	EBZ	Ethylbenzene	NDRC
SW8021	PCE	Tetrachloroethene	NDRC
SW8021	TCA111	1,1,1-Trichloroethane	NDRC
SW8021	TCA112	1,1,2-Trichloroethane	NDRC
SW8021	TCE	Trichloroethene	NDRC
SW8021	VC	Vinyl Chloride	NDRC
SW8021	XYLENES	Xylene (Total)	NDRC
A5520C	PHC	Petroleum Hydrocarbons	[d]TALM
E418.1	PHC	Petroleum Hydrocarbons	TALM
SW6010	AG	Silver	TALM
SW6010	BE	Beryllium	TALM
SW6010	CD	Cadmium	TALM
SW6010	CR	Chromium	TALM
SW6010	CU	Copper	TALM
SW6010	NI	Nickel	TALM
SW6010	SB	Antimony	TALM
SW6010	ZN	Zinc	TALM
SW7060	AS	Arsenic	TALM
SW7421	CN	Cyanide	TALM
SW7421	PB	Lead	TALM
SW7740	BE	Beryllium	TALM
SW7740	CD	Cadmium	TALM
SW7740	CR	Chromium	TALM
SW7740	CU	Copper	TALM
SW7740	NI	Nickel	TALM
SW7740	SE	Selenium	TALM
SW7740	ZN	Zinc	TALM
SW7841	TL	Thallium	TALM
SW8240	ACE	Acetone	TALM
SW8240	BDCME	Bromodichloromethane	TALM
SW8240	BR4FBZ	SURROGATE 4-Bromofluorobenzene	TALM
SW8240	BRME	Bromomethane	TALM
SW8240	BZ	Benzene	TALM
SW8240	BZME	Toluene	TALM
SW8240	BZMED8	SURROGATE Toluene D8	TALM
SW8240	CDS	Carbon Disulfide	TALM

TABLE B.10 (Continued)
TARGET COMPOUND LIST, GEOMARINE

258415

Data Quality Assurance
US Air Force Plant 4
Fort Woth, TX

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8240	CEVETH	2-Chloroethyl vinyl ether	TALM
SW8240	CLBZ	Chlorobenzene	TALM
SW8240	CLEA	Chloroethane	TALM
SW8240	CLME	Chloromethane	TALM
SW8240	CTCL	Carbon Tetrachloride	TALM
SW8240	DBCME	Dibromochloromethane	TALM
SW8240	DCA11	1,1-Dichloroethane	TALM
SW8240	DCA12	1,2-Dichloroethane	TALM
SW8240	DCBZ12	1,2-Dichlorobenzene	TALM
SW8240	DCBZ13	1,3-Dichlorobenzene	TALM
SW8240	DCBZ14	1,4-Dichlorobenzene	TALM
SW8240	DCE11	1,1-Dichloroethene	TALM
SW8240	DCE12C	cis-1,2-Dichloroethene	TALM
SW8240	DCE12T	trans-1,2-Dichloroethene	TALM
SW8240	DCP12	1,2-Dichloropropylene	TALM
SW8240	DCP13C	cis-1,3-Dichloropropene	TALM
SW8240	DCP13T	trans-1,3-Dichloropropene	TALM
SW8240	EBZ	Ethylbenzene	TALM
SW8240	FC11	Trichlorofluoromethane	TALM
SW8240	FC12	Dichlorodifluoromethane	TALM
SW8240	HXO2	2-Hexanone	TALM
SW8240	MEK	2-Butanone	TALM
SW8240	MIBK	4-Methyl-2-Pentanone	TALM
SW8240	MTLNCL	Methylene Chloride	TALM
SW8240	PCA	1,1,2,2-Tetrachloroethane	TALM
SW8240	PCE	Tetrachloroethene	TALM
SW8240	STY	Styrene	TALM
SW8240	TBME	Bromoform	TALM
SW8240	TC1112	1,1,1,2-Tetrachloroethane	TALM
SW8240	TCA111	1,1,1-Trichloroethane	TALM
SW8240	TCA112	1,1,2-Trichloroethane	TALM
SW8240	TCE	Trichloroethene	TALM
SW8240	TCLME	Chloroform	TALM
SW8240	VA	Vinyl Acetate	TALM
SW8240	VC	Vinyl Chloride	TALM
SW8240	XYLMP	m,p-Xylene	TALM
SW8240	XYLO	o-Xylene	TALM
SW8270	ACNP	Acenaphthene	TALM
SW8270	ACNPY	Acenaphthylene	TALM
SW8270	ANTH	Anthracene	TALM
SW8270	BBP	Butylbenzylphthalate	TALM

TABLE B.10 (Continued)
TARGET COMPOUND LIST, GEOMARINE

Data Quality Assurance
US Air Force Plant 4
Fort Woth, TX

258416

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	BECEM	bis(2-Chloroethoxy)methane	TALM
SW8270	BIS2CEE	bis(2-Chloroethyl)ether	TALM
SW8270	BIS2CIE	bis(2-Chloroisopropyl)ether	TALM
SW8270	BIS2EHP	bis(2-Ethylhexyl)phthalate	TALM
SW8270	BPPE4	4-Bromophenyl-phenylether	TALM
SW8270	BZAA	Benzo(a)anthracene	TALM
SW8270	BZACID	Benzoic Acid	TALM
SW8270	BZAP	Benzo(a)pyrene	TALM
SW8270	BZBF	Benzo(b)fluoranthene	TALM
SW8270	BZD	Benzidine	TALM
SW8270	BZGHIP	Benzo(g,h,i)perylene	TALM
SW8270	BZKF	Benzo(k)fluoranthene	TALM
SW8270	BZLAL	Benzyl Alcohol	TALM
SW8270	C4M3PH	4-Chloro-3-methylphenol	TALM
SW8270	CHRYSENE	Chrysene	TALM
SW8270	CLANIL4	4-Chloroaniline	TALM
SW8270	CLPH2	2-Chlorophenol	TALM
SW8270	CNPH2	2-Chloronaphthalene	TALM
SW8270	CPPE4	4-Chlorophenyl-phenylether	TALM
SW8270	DBAHA	Dibenz(a,h)anthracene	TALM
SW8270	DBF	Dibenzofuran	TALM
SW8270	DBZD33	3,3'-Dichlorobenzidine	TALM
SW8270	DCBZ12	1,2-Dichlorobenzene	TALM
SW8270	DCBZ13	1,3-Dichlorobenzene	TALM
SW8270	DCBZ14	1,4-Dichlorobenzene	TALM
SW8270	DCP24	2,4-Dichlorophenol	TALM
SW8270	DEPH	Diethylphthalate	TALM
SW8270	DMP24	2,4-Dimethylphenol	TALM
SW8270	DMPH	Dimethylphthalate	TALM
SW8270	DN46M	4,6-Dinitro-2-methylphenol	TALM
SW8270	DNBP	Di-n-butylphthalate	TALM
SW8270	DNOP	Di-n-octylphthalate	TALM
SW8270	DNP24	2,4-Dinitrophenol	TALM
SW8270	DNT24	2,4-Dinitrotoluene	TALM
SW8270	DNT26	2,6-Dinitrotoluene	TALM
SW8270	DPHY12	1,2-Diphenylhydrazine	TALM
SW8270	FL	Fluorene	TALM
SW8270	FLA	Fluoranthene	TALM
SW8270	HCBU	Hexachlorobutadiene	TALM
SW8270	HCCP	Hexachlorocyclopentadiene	TALM
SW8270	HCLBZ	Hexachlorobenzene	TALM

TABLE B.10 (Continued)
TARGET COMPOUND LIST, GEOMARINE

Data Quality Assurance
US Air Force Plant 4
Fort Woth, TX

258417

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8270	HCLEA	Hexachloroethane	TALM
SW8270	INP123	Indeno(1,2,3-cd)pyrene	TALM
SW8270	ISOP	Isophorone	TALM
SW8270	MEPH2	2-Methylphenol(o-Cresol)	TALM
SW8270	MEPH4	4-Methylphenol(p-Cresol)	TALM
SW8270	MTNPH2	2-Methylnapthalene	TALM
SW8270	NAPH	Naphthalene	TALM
SW8270	NNSM	n-Nitrosodimethylamine	TALM
SW8270	NNSPH	N-Nitrosodiphenylamine	TALM
SW8270	NNSPR	N-Nitroso-di-n-propylamine	TALM
SW8270	NO2ANIL2	2-Nitroaniline	TALM
SW8270	NO2ANIL3	3-Nitroaniline	TALM
SW8270	NO2ANIL4	4-Nitroaniline	TALM
SW8270	NO2BZ	Nitrobenzene	TALM
SW8270	NTPH2	2-Nitrophenol	TALM
SW8270	NTPH4	4-Nitrophenol	TALM
SW8270	PCP	Pentachlorophenol	TALM
SW8270	PH246BR	2,3,6-Tribromophenol	TALM
SW8270	PH2F	2-Fluorophenol	TALM
SW8270	PHAN	Phenanthrene	TALM
SW8270	PHEN2F	2-Fluorobiphenyl	TALM
SW8270	PHENOL	Phenol	TALM
SW8270	PYR	Pyrene	TALM
SW8270	PYRDN	Pyridine	TALM
SW8270	TCB124	1,2,4-Trichlorobenzene	TALM
SW8270	TCP245	2,4,5-Trichlorophenol	TALM
SW8270	TCP246	2,4,6-Trichlorophenol	TALM
SW9010	CN	Cyanide	TALM
SW8021	BZ	Benzene	[e]TGGA
SW8021	BZME	Toluene	TGGA
SW8021	CTCL	Carbon Tetrachloride	TGGA
SW8021	DCA11	1,1-Dichloroethane	TGGA
SW8021	DCE11	1,1-Dichloroethene	TGGA
SW8021	DCE12C	cis-1,2-Dichloroethene	TGGA
SW8021	DCE12T	trans-1,2-Dichloroethene	TGGA
SW8021	DCPA12	1,2-Dichloropropane	TGGA
SW8021	EBZ	Ethylbenzene	TGGA
SW8021	MTLNCL	Methylene Chloride	TGGA
SW8021	PCE	Tetrachloroethene	TGGA
SW8021	TCA111	1,1,1-Trichloroethane	TGGA

TABLE B.10 (Continued)
TARGET COMPOUND LIST, GEOMARINE

Data Quality Assurance
US Air Force Plant 4
Fort Woth, TX

258418

METHOD	PARAMETER LABEL	ANALYTE NAME	LAB CODE
SW8021	TCE	Trichloroethene	TGGA
SW8021	TCLME	Chloroform	TGGA
SW8021	VC	Vinyl Chloride	TGGA
SW8021	XYLENES1213	o,m-Xylene	TGGA
SW8021	XYLENES1214	o,p-Xylen	TGGA
SW8021	XYLM	m-Xylene	TGGA
SW8021	XYLO	o-Xylene	TGGA

[a]SW = EPA SW-846 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3RD Edition (Nov. 1992)

[b]NDRC = NDRC Laboratories, Richardson, TX

[c]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March 1983)

[d]TALM = TALEM

[e]TGGA = Trans Global Environmental Geochemistry, Austin, TX

TABLE B.11
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
[c]BC								
[d]E524.2 - Volatiles								
Bromodichloromethane	0.5	UG/L	[e]N/A	N/A	0.08	UG/L	N/A	N/A
Bromobenzene	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Bromochloromethane	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromomethane	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
n-Butylbenzene	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
sec-Butylbenzene	0.5	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
t-Butylbenzene	0.5	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Benzene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Toluene	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Chlorobenzene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
2-Chlorotoluene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
4-Chlorotoluene	0.5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Chloroethane	0.5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloromethane	0.5	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Carbon Tetrachloride	0.5	UG/L	N/A	N/A	0.21	UG/L	N/A	N/A
p-Cymene(o-isopropyltoluene)	0.5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
Dibromochloromethane	0.5	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
1,2-Dibromo-3-chloropropane	0.5	UG/L	N/A	N/A	0.26	UG/L	N/A	N/A
Dibromomethane	0.5	UG/L	N/A	N/A	0.24	UG/L	N/A	N/A
1,1-Dichloroethane	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,2-Dichloroethane	0.5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,2-Dichlorobenzene	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,3-Dichlorobenzene	0.5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,4-Dichlorobenzene	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,1-Dichloroethene	0.5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
cis-1,2-Dichloroethene	0.5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
trans-1,2-Dichloroethene	0.5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,1-Dichloropropene	0.5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
cis-1,3-Dichloropropene	0.5	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	0.5	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
1,2-Dichloropropane	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,3-Dichloropropane	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
2,2-Dichloropropane	0.5	UG/L	N/A	N/A	0.35	UG/L	N/A	N/A
Ethylbenzene	0.5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Ethylene Dibromide	0.5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Trichlorofluoromethane	0.5	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Freon 113	0.5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Dichlorodifluoromethane	0.5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Hexachlorobutadiene	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Isopropylbenzene	0.5	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
Methylene Chloride	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Naphthalene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
n-propylbenzene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Tetrachloroethene	0.5	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Styrene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromoform	0.5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,1,1,2-Tetrachloroethane	0.5	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
1,1,1-Trichloroethane	0.5	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
1,1,2-Trichloroethane	0.5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
1,2,3-Trimethylbenzene	0.5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Trichloroethene	0.5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloroform	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,2,3-Trichloropropane	0.5	UG/L	N/A	N/A	0.32	UG/L	N/A	N/A
1,2,4-Trimethylbenzene	0.5	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
1,3,5-Trimethylbenzene	0.5	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Vinyl Chloride	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Xylene-m	0.5	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
Xylene-m,p	0.5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Xylene-o	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Xylene-p	0.5	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
BC								
[f]SW8015 - Volatiles								
Diethylether	20	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Ethanol	150	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2-Butanone	20	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Methyl-2-Pentanone	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
BC								
SW8240 - Volatiles								
Acetone	10	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Acrolein	50	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Acrylnitrile	50	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Bromodichloromethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromomethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Toluene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Carbon Disulfide	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
2-Chloroethyl vinyl ether	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chlorobenzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chloromethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Carbon Tetrachloride	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromochloromethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromomethane	1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A

TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,2-Dichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,4-Dichloro-2-Butene	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
cis-1,2-Dichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,2-Dichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
cis-1,3-Dichloropropene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloropropane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethylbenzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethyl Methacrylate	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dichlorodifluoromethane	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Hexanone	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Iodomethane	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
2-Butanone	5	UG/L	N/A	N/A	100	UG/L	N/A	N/A
4-Methyl-2-Pentanone	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Methylene Chloride	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Tetrachloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Styrene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromoform	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,1-Trichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2-Trichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroform	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2,3-Trichloropropane	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Acetate	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Vinyl Chloride	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Xylene (Total)	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
BC								
SW8270 - Semivolatiles								
Acenaphthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthylene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acetophenone	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Aminobiphenyl	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1-Naphthylamine	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Aniline	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Butylbenzylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethoxy)methane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroisopropyl)ether	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Ethylhexyl)phthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A

TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Benzo(a)anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzoic Acid	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Benzo(a)pyrene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(b)fluoranthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzidine	2	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Benzo(g,h,i)perylene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzyl Alcohol	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2,4,5-Tetrachlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloro-3-methylphenol	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Chrysene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloroaniline	1	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1-Chloronaphthalene	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chlorophenol	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chloronaphthalene	2	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chlorophenyl-phenylether	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenzofuran	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3,3'-Dichlorobenzidine	1	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2-Dichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,3-Dichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dichlorophenol	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethylphthalate	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
7,12-Dimethylbenz(a)Anthracene	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dimethylphenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dimethylphthalate	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Di-n-butylphthalate	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-octylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	3	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4-Dinitrotoluene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diphenylamine	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Diphenylhydrazine	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Methanesulfonate	10	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Fluorene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluoranthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachloroethane	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Indeno(1,2,3-cd)pyrene	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Isophorone	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3-Methycholanthrene	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylphenol(o-Cresol)	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Methylphenol(p-Cresol)	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Methyl Methanesulfonate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylnaphthalene	2	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Naphthalene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitro-di-n-Butylamine	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodimethylamine	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
N-Nitrosodiphenylamine	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosopiperidine	1	UG/L	N/A	N/A	20	UG/L	N/A	N/A
N-Nitroso-di-n-propylamine	2	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitroaniline	1	UG/L	N/A	N/A	50	UG/L	N/A	N/A
3-Nitroaniline	1	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Nitroaniline	2	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Nitrobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitrophenol	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Nitrophenol	2	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Pentachlorophenol	1	UG/L	N/A	N/A	50	UG/L	N/A	N/A
p-Dimethylaminoazobenzene	20	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pentachlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pentachloronitrobenzene	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Phenanthrene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenacetin	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
2-Picoline	100	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Pronamide	1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,3,4,6-Tetrachlorophenal	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4,5-Trichlorophenol	2	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4,6-Trichlorophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
BC								
SW6010 - Metals ([c]ICP)								
Silver	0.01	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Aluminum	0.1	MG/L	N/A	N/A	0.5	MG/L	N/A	N/A
Arsenic	0.05	MG/L	N/A	N/A	0.6	MG/L	N/A	N/A
Barium	0.007	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Beryllium	0.002	MG/L	N/A	N/A	0.003	MG/L	N/A	N/A
Calcium	0.5	MG/L	N/A	N/A	0.1	MG/L	N/A	N/A
Cadmium	0.005	MG/L	N/A	N/A	0.04	MG/L	N/A	N/A
Cobalt	0.04	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Chromium	0.03	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Copper	0.02	MG/L	N/A	N/A	0.06	MG/L	N/A	N/A

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Iron	0.04	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Potassium	0.5	MG/L	N/A	N/A	5	MG/L	N/A	N/A
Magnesium	0.1	MG/L	N/A	N/A	0.3	MG/L	N/A	N/A
Manganese	0.01	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Molybdenum	0.04	MG/L	N/A	N/A	0.08	MG/L	N/A	N/A
Sodium	0.5	MG/L	N/A	N/A	0.3	MG/L	N/A	N/A
Nickel	0.04	MG/L	N/A	N/A	0.15	MG/L	N/A	N/A
Lead	0.05	MG/L	N/A	N/A	0.5	MG/L	N/A	N/A
Antimony	0.06	MG/L	N/A	N/A	0.4	MG/L	N/A	N/A
Selenium	0.1	MG/L	N/A	N/A	0.8	MG/L	N/A	N/A
Thallium	0.4	MG/L	N/A	N/A	0.4	MG/L	N/A	N/A
Vanadium	0.04	MG/L	N/A	N/A	0.08	MG/L	N/A	N/A
Zinc	0.01	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
BC								
SW7421 - Metals ([h]GFAA)								
Lead	0.002	MG/L	N/A	N/A	0.005	MG/L	N/A	N/A
BC								
E413.2 - Wet Chemistry								
Oil & Grease	0.2	MG/L	N/A	N/A	2	MG/L	N/A	N/A
BC								
E418.1 - Wet Chemistry								
Petroleum Hydrocarbons	0.2	MG/L	N/A	N/A	1	MG/L	N/A	N/A
[i]BCE								
E524.2 - Volatiles								
Bromodichloromethane	0.5	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Bromobenzene	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Bromochloromethane	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromomethane	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
n-Butylbenzene	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
sec-Butylbenzene	0.5	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
t-Butylbenzene	0.5	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Benzene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Toluene	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Chlorobenzene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
2-Chlorotoluene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
4-Chlorotoluene	0.5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Chloroethane	0.5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloromethane	0.5	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Carbon Tetrachloride	0.5	UG/L	N/A	N/A	0.21	UG/L	N/A	N/A
p-Cymene(o-isopropyltoluene)	0.5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
Dibromochloromethane	0.5	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
1,2-Dibromo-3-chloropropane	0.5	UG/L	N/A	N/A	0.26	UG/L	N/A	N/A
Dibromomethane	0.5	UG/L	N/A	N/A	0.24	UG/L	N/A	N/A
1,1-Dichloroethane	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,2-Dichloroethane	0.5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,2-Dichlorobenzene	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,3-Dichlorobenzene	0.5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,4-Dichlorobenzene	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,1-Dichloroethene	0.5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
cis-1,2-Dichloroethene	0.5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
trans-1,2-Dichloroethene	0.5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,1-Dichloropropene	0.5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
cis-1,3-Dichloropropene	0.5	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	0.5	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
1,2-Dichloropropane	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,3-Dichloropropane	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
2,2-Dichloropropane	0.5	UG/L	N/A	N/A	0.35	UG/L	N/A	N/A
Ethylbenzene	0.5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Ethylene Dibromide	0.5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Trichlorofluoromethane	0.5	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Hexachlorobutadiene	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Isopropylbenzene	0.5	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
Methylene Chloride	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Naphthalene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
n-propylbenzene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Tetrachloroethene	0.5	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Styrene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromoform	0.5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,1,1,2-Tetrachloroethane	0.5	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
1,1,1-Trichloroethane	0.5	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
1,1,2-Trichloroethane	0.5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
1,2,3-Trimethylbenzene	0.5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	0.5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Trichloroethene	0.5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloroform	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,2,3-Trichloropropane	0.5	UG/L	N/A	N/A	0.32	UG/L	N/A	N/A
1,2,4-Trimethylbenzene	0.5	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
1,3,5-Trimethylbenzene	0.5	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Vinyl Chloride	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Xylene-m,p	0.5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Xylene-o	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
BCE								
SW8015 - Volatiles								
Diethylether	20	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Ethanol	500	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2-Butanone	20	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Methyl-2-Pentanone	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
BCE								
SW8240 - Volatiles								
Acetone	20	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Acrolein	50	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Acrylnitrile	50	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Bromodichloromethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromomethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Toluene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Carbon Disulfide	2	UG/L	N/A	N/A	5	UG/L	N/A	N/A
2-Chloroethyl vinyl ether	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chlorobenzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chloromethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Carbon Tetrachloride	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromochloromethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromomethane	1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,4-Dichloro-2-Butene	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
cis-1,2-Dichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,2-Dichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
cis-1,3-Dichloropropene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloropropane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethylbenzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethyl Methacrylate	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dichlorodifluoromethane	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Hexanone	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Iodomethane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
2-Butanone	5	UG/L	N/A	N/A	100	UG/L	N/A	N/A
4-Methyl-2-Pentanone	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Methylene Chloride	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Tetrachloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Styrene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromoform	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,1-Trichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2-Trichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroform	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2,3-Trichloropropane	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Vinyl Acetate	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Vinyl Chloride	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Xylene (Total)	3	UG/L	N/A	N/A	5	UG/L	N/A	N/A
BCE								
SW8270 - Semivolatiles								
Acenaphthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthylene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acetophenone	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Aminobiphenyl	20	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1-Naphthylamine	7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Aminonaphthalene	10	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Aniline	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Butylbenzylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethoxy)methane	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroisopropyl)ether	6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Ethylhexyl)phthalate	7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(a)anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzoic Acid	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Benzo(a)pyrene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(b)fluoranthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzidine	200	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Benzo(g,h,i)perylene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzyl Alcohol	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2,4,5-Tetrachlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloro-3-methylphenol	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Chrysene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloroaniline	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1-Chloronaphthalene	8	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chlorophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chloronaphthalene	6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chlorophenyl-phenylether	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenzofuran	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3,3'-Dichlorobenzidine	20	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2-Dichlorobenzene	6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,3-Dichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dichlorophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
7,12-Dimethylbenz(a)Anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dimethylphenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dimethylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Di-n-butylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-octylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4-Dinitrotoluene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diphenylamine	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Diphenylhydrazine	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Methanesulfonate	6	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Fluorene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluoranthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachloroethane	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Indeno(1,2,3-cd)pyrene	7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Isophorone	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3-Methycholanthrene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylphenol(o-Cresol)	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Methylphenol(p-Cresol)	8	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Methyl Methanesulfonate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Alpha,Alpha-Dimethylphenethyla	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylnaphthalene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Naphthalene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitro-di-n-Butylamine	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodimethylamine	6	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
N-Nitrosodiphenylamine	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosopiperidine	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
N-Nitroso-di-n-propylamine	6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitroaniline	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
3-Nitroaniline	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Nitroaniline	6	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Nitrobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitrophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Nitrophenol	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Pentachlorophenol	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
p-Dimethylaminoazobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pentachlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pentachloronitrobenzene	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Phenanthrene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A

TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Phenacetin	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
2-Picoline	6	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Pronamide	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,3,4,6-Tetrachlorophenal	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4,5-Trichlorophenol	6	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4,6-Trichlorophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
BCE								
SW6010 - Metals (ICP)								
Silver	0.01	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Aluminum	0.1	MG/L	N/A	N/A	0.5	MG/L	N/A	N/A
Arsenic	0.05	MG/L	N/A	N/A	0.6	MG/L	N/A	N/A
Barium	0.007	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Beryllium	0.002	MG/L	N/A	N/A	0.003	MG/L	N/A	N/A
Calcium	0.5	MG/L	N/A	N/A	0.1	MG/L	N/A	N/A
Cadmium	0.005	MG/L	N/A	N/A	0.04	MG/L	N/A	N/A
Cobalt	0.04	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Chromium	0.03	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Copper	0.02	MG/L	N/A	N/A	0.06	MG/L	N/A	N/A
Iron	0.04	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Potassium	0.5	MG/L	N/A	N/A	5	MG/L	N/A	N/A
Magnesium	0.1	MG/L	N/A	N/A	0.3	MG/L	N/A	N/A
Manganese	0.01	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Molybdenum	0.04	MG/L	N/A	N/A	0.08	MG/L	N/A	N/A
Sodium	0.5	MG/L	N/A	N/A	0.3	MG/L	N/A	N/A
Nickel	0.04	MG/L	N/A	N/A	0.15	MG/L	N/A	N/A
Lead	0.05	MG/L	N/A	N/A	0.5	MG/L	N/A	N/A
Antimony	0.06	MG/L	N/A	N/A	0.4	MG/L	N/A	N/A
Selenium	0.1	MG/L	N/A	N/A	0.8	MG/L	N/A	N/A
Thallium	0.4	MG/L	N/A	N/A	0.4	MG/L	N/A	N/A
Vanadium	0.04	MG/L	N/A	N/A	0.08	MG/L	N/A	N/A
Zinc	0.01	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
BCE								
SW7421 - Metals (GFAA)								
Lead	0.002	MG/L	N/A	N/A	0.005	MG/L	N/A	N/A
BCE								
E413.2								
Oil & Grease	0.5	MG/L	N/A	N/A	2	MG/L	N/A	N/A
BCE								
E418.1								
Petroleum Hydrocarbons	0.5	MG/L	N/A	N/A	1	MG/L	N/A	N/A
[j]**BCG**								
E524.2 - Volatiles								

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Bromodichloromethane	0.2	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Bromobenzene	0.2	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Bromochloromethane	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromomethane	0.5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
n-Butylbenzene	0.2	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
sec-Butylbenzene	0.2	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
t-Butylbenzene	0.2	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Benzene	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Toluene	0.2	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Chlorobenzene	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
2-Chlorotoluene	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
4-Chlorotoluene	0.2	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Chloroethane	0.2	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloromethane	0.2	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Carbon Tetrachloride	0.2	UG/L	N/A	N/A	0.21	UG/L	N/A	N/A
p-Cymene(o-isopropyltoluene)	0.2	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
Dibromochloromethane	0.2	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
1,2-Dibromo-3-chloropropane	0.5	UG/L	N/A	N/A	0.26	UG/L	N/A	N/A
Dibromomethane	0.2	UG/L	N/A	N/A	0.24	UG/L	N/A	N/A
1,1-Dichloroethane	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,2-Dichloroethane	0.2	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,2-Dichlorobenzene	0.2	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,3-Dichlorobenzene	0.2	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,4-Dichlorobenzene	0.2	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,1-Dichloroethene	0.2	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
cis-1,2-Dichloroethene	0.2	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
trans-1,2-Dichloroethene	0.2	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,1-Dichloropropene	0.2	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
cis-1,3-Dichloropropene	0.2	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	0.2	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
1,2-Dichloropropane	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,3-Dichloropropane	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
2,2-Dichloropropane	0.2	UG/L	N/A	N/A	0.35	UG/L	N/A	N/A
Ethylbenzene	0.2	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Ethylene Dibromide	0.2	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Trichlorofluoromethane	0.2	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Hexachlorobutadiene	0.2	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Isopropylbenzene	0.2	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
Methylene Chloride	0.2	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Naphthalene	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
n-propylbenzene	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Tetrachloroethene	0.2	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Styrene	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Bromoform	0.2	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,1,1,2-Tetrachloroethane	0.2	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
1,1,1-Trichloroethane	0.2	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
1,1,2-Trichloroethane	0.2	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
1,2,3-Trimethylbenzene	0.2	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	0.2	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Trichloroethene	0.2	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloroform	0.2	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,2,3-Trichloropropane	0.2	UG/L	N/A	N/A	0.32	UG/L	N/A	N/A
1,2,4-Trimethylbenzene	0.2	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
1,3,5-Trimethylbenzene	0.2	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Vinyl Chloride	0.2	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Xylene-m,p	0.2	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Xylene-o	0.2	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
BCG								
SW8015 - Volatiles								
Diethylether	20	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2-Butanone	20	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Methyl-2-Pentanone	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
BCG								
SW8240 - Volatiles								
Acetone	20	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Acrolein	50	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Acrylnitrile	50	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Bromodichloromethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromomethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Toluene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Carbon Disulfide	2	UG/L	N/A	N/A	5	UG/L	N/A	N/A
2-Chloroethyl vinyl ether	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chlorobenzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chloromethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Carbon Tetrachloride	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromochloromethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromomethane	1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,4-Dichloro-2-Butene	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
cis-1,2-Dichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,2-Dichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
cis-1,3-Dichloropropene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A

TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,2-Dichloropropane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethylbenzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethyl Methacrylate	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dichlorodifluoromethane	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Hexanone	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Iodomethane	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
2-Butanone	5	UG/L	N/A	N/A	100	UG/L	N/A	N/A
4-Methyl-2-Pentanone	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Methylene Chloride	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Tetrachloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Styrene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromoform	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,1-Trichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2-Trichloroethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichloroethene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroform	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2,3-Trichloropropane	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Acetate	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Vinyl Chloride	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Xylene (Total)	3	UG/L	N/A	N/A	5	UG/L	N/A	N/A
BCG								
SW8260 - Volatiles								
Bromodichloromethane	5	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Bromomethane	5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Benzene	5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Toluene	5	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Chlorobenzene	5	UG/L	N/A	N/A	0.21	UG/L	N/A	N/A
Chloroethane	5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Chloromethane	5	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Carbon Tetrachloride	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Dibromochloromethane	5	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
Dibromomethane	5	UG/L	N/A	N/A	0.24	UG/L	N/A	N/A
1,1-Dichloroethane	5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,2-Dichloroethane	5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,1-Dichloroethene	5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
cis-1,2-Dichloroethene	5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
trans-1,2-Dichloroethene	5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,2-Dichloropropane	5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Ethylbenzene	5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Trichlorofluoromethane	5	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Methylene Chloride	5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A

TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Tetrachloroethene	5	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Styrene	5	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromoform	5	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,1,1-Trichloroethane	5	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
1,1,2-Trichloroethane	5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Trichloroethene	5	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloroform	5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Vinyl Chloride	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Xylene (Total)	10	UG/L	N/A	N/A	0.29	UG/L	N/A	N/A
BCG								
SW8270 - Semivolatiles								
Acenaphthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthylene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acetophenone	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Aminobiphenyl	20	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1-Naphthylamine	7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Aminonaphthalene	10	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Aniline	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Butylbenzylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethoxy)methane	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroisopropyl)ether	6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Ethylhexyl)phthalate	7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(a)anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzoic Acid	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Benzo(a)pyrene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(b)fluoranthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzidine	100	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Benzo(g,h,i)perylene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzyl Alcohol	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2,4,5-Tetrachlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloro-3-methylphenol	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Chrysene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloroaniline	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1-Chloronaphthalene	8	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chlorophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chloronaphthalene	6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chlorophenyl-phenylether	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenzofuran	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3,3'-Dichlorobenzidine	20	UG/L	N/A	N/A	20	UG/L	N/A	N/A

TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,2-Dichlorobenzene	6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,3-Dichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dichlorophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
7,12-Dimethylbenz(a)Anthracene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dimethylphenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dimethylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Di-n-octylphthalate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4-Dinitrotoluene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diphenylamine	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Diphenylhydrazine	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Methanesulfonate	6	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Fluorene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluoranthene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachloroethane	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Indeno(1,2,3-cd)pyrene	7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Isophorone	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3-Methycholanthrene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylphenol(o-Cresol)	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Methylphenol(p-Cresol)	8	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Methyl Methanesulfonate	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Alpha,Alpha-Dimethylphenethyla	10	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
2-Methylnaphthalene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Naphthalene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitro-di-n-Butylamine	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodimethylamine	6	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
N-Nitrosodiphenylamine	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosopiperidine	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
N-Nitroso-di-n-propylamine	6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitroaniline	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
3-Nitroaniline	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Nitroaniline	6	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Nitrobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitrophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Nitrophenol	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Pentachlorophenol	5	UG/L	N/A	N/A	50	UG/L	N/A	N/A

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
p-Dimethylaminoazobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pentachlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pentachloronitrobenzene	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Phenanthrene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenacetin	5	UG/L	N/A	N/A	20	UG/L	N/A	N/A
2-Picoline	6	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Pronamide	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,3,4,6-Tetrachlorophenal	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4,5-Trichlorophenol	6	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4,6-Trichlorophenol	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
BCG								
SW6010 - Metals (ICP)								
Silver	0.01	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Aluminum	0.1	MG/L	N/A	N/A	0.5	MG/L	N/A	N/A
Arsenic	0.05	MG/L	N/A	N/A	0.6	MG/L	N/A	N/A
Barium	0.005	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Beryllium	0.001	MG/L	N/A	N/A	0.003	MG/L	N/A	N/A
Calcium	0.5	MG/L	N/A	N/A	0.1	MG/L	N/A	N/A
Cadmium	0.005	MG/L	N/A	N/A	0.04	MG/L	N/A	N/A
Cobalt	0.04	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Chromium	0.01	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Copper	0.02	MG/L	N/A	N/A	0.06	MG/L	N/A	N/A
Iron	0.04	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Potassium	0.5	MG/L	N/A	N/A	5	MG/L	N/A	N/A
Magnesium	0.1	MG/L	N/A	N/A	0.3	MG/L	N/A	N/A
Manganese	0.01	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Molybdenum	0.01	MG/L	N/A	N/A	0.08	MG/L	N/A	N/A
Sodium	0.5	MG/L	N/A	N/A	0.3	MG/L	N/A	N/A
Nickel	0.04	MG/L	N/A	N/A	0.15	MG/L	N/A	N/A
Lead	0.05	MG/L	N/A	N/A	0.5	MG/L	N/A	N/A
Antimony	0.1	MG/L	N/A	N/A	0.4	MG/L	N/A	N/A
Selenium	0.1	MG/L	N/A	N/A	0.8	MG/L	N/A	N/A
Thallium	0.07	MG/L	N/A	N/A	0.4	MG/L	N/A	N/A
Vanadium	0.04	MG/L	N/A	N/A	0.01	MG/L	N/A	N/A
Zinc	0.01	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
BCG								
SW7421 - Metals (GFAA)								
Lead	0.002	MG/L	N/A	N/A	0.005	MG/L	N/A	N/A
BCG								
E413.2 - Wet Chemistry								
Oil & Grease	0.2	MG/L	N/A	N/A	2	MG/L	N/A	N/A

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TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
BCG								
E418.1 - Wet Chemistry								
Petroleum Hydrocarbons	0.2	MG/L	N/A	N/A	1	MG/L	N/A	N/A
[k]RFWL								
SW8260 - Volatiles								
Bromodichloromethane	1	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Bromobenzene	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Bromochloromethane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromomethane	2	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
n-Butylbenzene	1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
sec-Butylbenzene	1	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
t-Butylbenzene	1	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Benzene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Toluene	1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Chlorobenzene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
2-Chlorotoluene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
4-Chlorotoluene	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Chloroethane	2	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloromethane	2	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Carbon Tetrachloride	1	UG/L	N/A	N/A	0.21	UG/L	N/A	N/A
p-Cymene(o-isopropyltoluene)	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
Dibromochloromethane	1	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
1,2-Dibromo-3-chloropropane	2	UG/L	N/A	N/A	0.26	UG/L	N/A	N/A
Dibromomethane	2	UG/L	N/A	N/A	0.24	UG/L	N/A	N/A
1,1-Dichloroethane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,2-Dichloroethane	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,2-Dichlorobenzene	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,3-Dichlorobenzene	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,4-Dichlorobenzene	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,1-Dichloroethene	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
cis-1,2-Dichloroethene	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
trans-1,2-Dichloroethene	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,1-Dichloropropene	1	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
cis-1,3-Dichloropropene	1	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	1	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
1,2-Dichloropropane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,3-Dichloropropane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
2,2-Dichloropropane	1	UG/L	N/A	N/A	0.35	UG/L	N/A	N/A
Ethylbenzene	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Ethylene Dibromide	2	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Trichlorofluoromethane	1	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Dichlorodifluoromethane	2	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Hexachlorobutadiene	1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Isopropylbenzene	1	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A

TABLE B.11 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES JACOBS QUARTERLY MONITORING

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Methylene Chloride	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Naphthalene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
n-propylbenzene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Tetrachloroethene	1	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Styrene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromoform	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,1,1,2-Tetrachloroethane	1	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
1,1,1-Trichloroethane	1	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
1,1,2-Trichloroethane	1	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
1,2,3-Trimethylbenzene	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Trichloroethene	1	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloroform	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,2,3-Trichloropropane	1	UG/L	N/A	N/A	0.32	UG/L	N/A	N/A
1,2,4-Trimethylbenzene	1	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
1,3,5-Trimethylbenzene	1	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Vinyl Chloride	2	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A

[a]LDL = Laboratory detection limit
[b]PRL = Project reporting limit
[c]BC = Brown and Caldwell Lab, Pasadena, CA
[d]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March, 1983)
[e]N/A = Not applicable
[f]SW = USEPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3RD Edition, (November, 1992)
[g]ICP = Inductively Coupled Plasma
[h]GFAA = Graphite Furnace Atomic Ads Option
[i]BCE = Brown and Caldwell Analytical, Emeryville Laboratory, Emeryville, CA
[j]BCG = Brown and Caldwell Analytical Laboratory, Glendale, CA
[k]RWFL = Roy F. Weston, Lionville Lab

TABLE B.12
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RUST RI

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
[c]CNGT								
[d]SW8240 - Volatiles								
Acetone	10	UG/L	10	UG/KG	100	UG/L	100	UG/KG
Bromodichloromethane	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Bromomethane	10	UG/L	10	UG/KG	10	UG/L	10	UG/KG
Benzene	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Toluene	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Carbon Disulfide	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Chlorobenzene	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Chloroethane	10	UG/L	10	UG/KG	10	UG/L	10	UG/KG
Chloromethane	10	UG/L	10	UG/KG	10	UG/L	10	UG/KG
Carbon Tetrachloride	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Dibromochloromethane	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,1-Dichloroethane	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,2-Dichloroethane	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,1-Dichloroethene	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
cis-1,2-Dichloroethene	[e]N/A	N/A	23	UG/KG	5	UG/L	5	UG/KG
trans-1,2-Dichloroethene	N/A	N/A	23	UG/KG	5	UG/L	5	UG/KG
1,2-Dichloroethene, total	5	UG/L	5	UG/KG	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
trans-1,3-Dichloropropene	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,2-Dichloropropane	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Ethylbenzene	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
2-Hexanone	10	UG/L	10	UG/KG	50	UG/L	50	UG/KG
2-Butanone	10	UG/L	10	UG/KG	100	UG/L	100	UG/KG
4-Methyl-2-Pentanone	10	UG/L	10	UG/KG	50	UG/L	50	UG/KG
Methylene chloride	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,1,2,2-Tetrachloroethane	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Tetrachloroethene	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Styrene	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Bromoform	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,1,1-Trichloroethane	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,1,2-Trichloroethane	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Trichloroethene	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Chloroform	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Vinyl Acetate	10	UG/L	10	UG/KG	50	UG/L	50	UG/KG
Vinyl Chloride	10	UG/L	10	UG/KG	10	UG/L	10	UG/KG
Xylene (Total)	5	UG/L	5	UG/KG	5	UG/L	5	UG/KG
CNGT								
[f]SW8260 - Volatiles								
Benzene	N/A	N/A	25	UG/KG	N/A	N/A	0.2	UG/KG
Chlorobenzene	N/A	N/A	25	UG/KG	N/A	N/A	0.2	UG/KG

TABLE B.12 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RUST RI

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Carbon Tetrachloride	N/A	N/A	25	UG/KG	N/A	N/A	1	UG/KG
1,2-Dichloroethane	N/A	N/A	25	UG/KG	N/A	N/A	0.3	UG/KG
1,1-Dichloroethene	N/A	N/A	25	UG/KG	N/A	N/A	0.6	UG/KG
Tetrachloroethene	N/A	N/A	25	UG/KG	N/A	N/A	0.7	UG/KG
Trichloroethene	N/A	N/A	25	UG/KG	N/A	N/A	1	UG/KG
Chloroform	N/A	N/A	25	UG/KG	N/A	N/A	0.2	UG/KG
Vinyl Chloride	N/A	N/A	50	UG/KG	N/A	N/A	0.9	UG/KG
CNGT								
SW8080 - Pesticides/[a]PCBs								
Aldrin	0.05	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
alpha-BHC	0.05	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
beta-BHC	0.05	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
delta-BHC	0.05	UG/L	N/A	N/A	0.09	UG/L	N/A	N/A
gamma-BHC (Lindane)	0.05	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
alpha-Chlordane	0.5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
beta-Chlordane	0.5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
p,p'-DDD	0.1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
4,4'-DDE	0.1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
4,4'-DDT	0.1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
Dieldrin	0.1	UG/L	N/A	N/A	0.02	UG/L	N/A	N/A
Endosulfan I	0.05	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Endosulfan II	0.1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Endosulfan Sulfate	0.1	UG/L	N/A	N/A	0.66	UG/L	N/A	N/A
Endrin	0.1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Endrin aldehyde	0.1	UG/L	N/A	N/A	0.23	UG/L	N/A	N/A
Endrin ketone	0.1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	0.05	UG/L	N/A	N/A	0.83	UG/L	N/A	N/A
Heptachlor	0.05	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Methoxychlor	0.5	UG/L	N/A	N/A	1.76	UG/L	N/A	N/A
Aroclor-1016	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1221	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1232	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1242	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1248	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1254	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1260	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Toxaphene	5	UG/L	N/A	N/A	2.4	UG/L	N/A	N/A
CNGT								
SW6010 - Metals ([b]ICP)								
Silver	4	UG/L	0.64	MG/KG	70	UG/L	7	MG/KG
Aluminum	100	UG/L	N/A	N/A	500	UG/L	N/A	N/A
Arsenic	3	UG/L	0.6	MG/KG	600	UG/L	60	MG/KG
Barium	100	UG/L	19	MG/KG	20	UG/L	2	MG/KG

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TABLE B.12 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RUST RI

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Beryllium	1	UG/L	0.21	MG/KG	3	UG/L	0.3	MG/KG
Cadmium	2	UG/L	0.8	MG/KG	40	UG/L	4	MG/KG
Cobalt	50	UG/L	N/A	N/A	70	UG/L	N/A	N/A
Chromium	5	UG/L	7.1	MG/KG	70	UG/L	7	MG/KG
Copper	3	UG/L	1.8	MG/KG	60	UG/L	6	MG/KG
Iron	16	UG/L	N/A	N/A	70	UG/L	N/A	N/A
Potassium	1000	UG/L	N/A	N/A	5000	UG/L	N/A	N/A
Magnesium	1000	UG/L	N/A	N/A	300	UG/L	N/A	N/A
Manganese	15	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Nickel	16	UG/L	3.5	MG/KG	150	UG/L	15	MG/KG
Lead	1	UG/L	13	MG/KG	500	UG/L	50	MG/KG
Antimony	40	UG/L	8	MG/KG	400	UG/L	40	MG/KG
Selenium	2	UG/L	0.4	MG/KG	800	UG/L	80	MG/KG
Thallium	2	UG/L	0.4	MG/KG	400	UG/L	40	MG/KG
Vanadium	50	UG/L	N/A	N/A	80	UG/L	N/A	N/A
Zinc	7	UG/L	8	MG/KG	20	UG/L	2	MG/KG
CNGT								
[i]E300.0 - Wet Chemistry								
Nitrogen, Nitrite	0.01	MG/L	N/A	N/A	0.1	MG/L	N/A	N/A
Phosphorus, Total Orthophosphate	0.1	MG/L	N/A	N/A	0.1	MG/L	N/A	N/A
CNGT								
E335.2 - Wet Chemistry								
Cyanide	0.01	MG/L	0.03	MG/KG	0.02	MG/L	N/A	N/A
CNGT								
E413.2 - Wet Chemistry								
Oil & Grease	0.5	MG/L	10	MG/KG	2	MG/L	N/A	N/A
CNGT								
E418.1 - Wet Chemistry								
Petroleum Hydrocarbons	0.2	MG/L	10	MG/KG	1	MG/L	30	MG/KG
[j]DCHM								
SW8240 - Volatiles								
Acetone	2	UG/L	5	UG/KG	100	UG/L	100	UG/KG
Bromodichloromethane	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Bromomethane	2	UG/L	5	UG/KG	10	UG/L	10	UG/KG
Benzene	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Toluene	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Carbon Disulfide	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Chlorobenzene	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Chloroethane	2	UG/L	10	UG/KG	10	UG/L	10	UG/KG
Chloromethane	2	UG/L	10	UG/KG	10	UG/L	10	UG/KG
Carbon Tetrachloride	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Dibromochloromethane	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,1-Dichloroethane	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG

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TABLE B.12 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RUST RI

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,2-Dichloroethane	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,1-Dichloroethene	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,2-Dichloroethene, total	1	UG/L	5	UG/KG	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
trans-1,3-Dichloropropene	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,2-Dichloropropane	1	UG/L	10	UG/KG	5	UG/L	5	UG/KG
Ethylbenzene	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
2-Hexanone	2	UG/L	5	UG/KG	50	UG/L	50	UG/KG
2-Butanone	2	UG/L	10	UG/KG	100	UG/L	100	UG/KG
4-Methyl-2-Pentanone	2	UG/L	5	UG/KG	50	UG/L	50	UG/KG
Methylene Chloride	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,1,2,2-Tetrachloroethane	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Tetrachloroethene	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Styrene	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Bromoform	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
1,1,1-Trichloroethane	1	UG/L	10	UG/KG	5	UG/L	5	UG/KG
1,1,2-Trichloroethane	1	UG/L	10	UG/KG	5	UG/L	5	UG/KG
Trichloroethene	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
Chloroform	1	UG/L	10	UG/KG	5	UG/L	5	UG/KG
Vinyl Acetate	2	UG/L	10	UG/KG	50	UG/L	50	UG/KG
Vinyl Chloride	2	UG/L	10	UG/KG	10	UG/L	10	UG/KG
Xylene (Total)	1	UG/L	5	UG/KG	5	UG/L	5	UG/KG
DCHM								
SW8270 - Semivolatiles								
Acenaphthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthylene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Anthracene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Butylbenzylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethoxy)methane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroisopropyl)ether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Ethylhexyl)phthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(a)anthracene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzoic Acid	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Benzo(a)pyrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(b)fluoranthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(g,h,i)perylene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzyl Alcohol	10	UG/L	N/A	N/A	20	UG/L	N/A	N/A
4-Chloro-3-methylphenol	10	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Chrysene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloroaniline	10	UG/L	N/A	N/A	20	UG/L	N/A	N/A

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TABLE B.12 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RUST RI

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
2-Chlorophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chloronaphthalene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chlorophenyl-phenylether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenzofuran	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3,3'-Dichlorobenzidine	20	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2-Dichlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,3-Dichlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dimethylphenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dimethylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Di-n-butylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-octylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4-Dinitrotoluene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluorene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluoranthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachloroethane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Indeno(1,2,3-cd)pyrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Isophorone	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylphenol(o-Cresol)	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Methylphenol(p-Cresol)	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylnaphthalene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Naphthalene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodiphenylamine	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitroso-di-n-propylamine	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
3-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Nitrobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitrophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Nitrophenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Pentachlorophenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Phenanthrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pyrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A

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TABLE B.12 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RUST RI

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,2,4-Trichlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4,5-Trichlorophenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4,6-Trichlorophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A

[a]LDL = Laboratory detection limit
[b]PRL = Project reporting limit
[c]CGNT = Chem Nuclear Geotech, Grand Junction, CO
[d]SW = USEPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3RD Edition, (November, 1992)
[e]N/A = Not applicable
[f]SW8260 analyzed after a TCLP extraction
[g]PCB = Polychlorinated Biphenyls
[h]ICP = Inductively Coupled Plasma
[i]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March, 1983)
[j]DCHM = Data Chem, Salt Lake City, UT

TABLE B.13
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
[c]RAS								
[d]E601 - Volatiles								
Bromodichloromethane	0.1	UG/L	[e]N/A	N/A	1	UG/L	N/A	N/A
Bromomethane	1.2	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chloroethyl vinyl ether	0.13	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chlorobenzene	0.25	UG/L	N/A	N/A	2.5	UG/L	N/A	N/A
Chloroethane	0.52	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloromethane	0.08	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Carbon Tetrachloride	0.12	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Dibromochloromethane	0.09	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,1-Dichloroethane	0.07	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,2-Dichloroethane	0.03	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,2-Dichlorobenzene	0.15	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,3-Dichlorobenzene	0.32	UG/L	N/A	N/A	3	UG/L	N/A	N/A
1,4-Dichlorobenzene	0.24	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,1-Dichloroethene	0.13	UG/L	N/A	N/A	1	UG/L	N/A	N/A
trans-1,2-Dichloroethene	0.1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
cis-1,3-Dichloropropene	0.2	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	0.34	UG/L	N/A	N/A	3	UG/L	N/A	N/A
1,2-Dichloropropane	0.04	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Trichlorofluoromethane	0.4	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Methylene Chloride	0.25	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	0.05	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Tetrachloroethene	0.03	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Bromoform	0.2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,1,1-Trichloroethane	0.03	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,1,2-Trichloroethane	0.02	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Trichloroethene	0.12	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Chloroform	0.05	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
Vinyl Chloride	0.18	UG/L	N/A	N/A	2	UG/L	N/A	N/A
RAS								
SW8010								
Bromodichloromethane	[e]N/A	N/A	1.3	UG/KG	N/A	N/A	5	UG/KG
Bromomethane	N/A	N/A	15	UG/KG	N/A	N/A	10	UG/KG
2-Chloroethyl vinyl ether	N/A	N/A	1.6	UG/KG	N/A	N/A	10	UG/KG
Chlorobenzene	N/A	N/A	3.1	UG/KG	N/A	N/A	5	UG/KG
Chloroethane	N/A	N/A	6.5	UG/KG	N/A	N/A	5	UG/KG
Chloromethane	N/A	N/A	1	UG/KG	N/A	N/A	5	UG/KG
Carbon Tetrachloride	N/A	N/A	1.5	UG/KG	N/A	N/A	5	UG/KG
Dibromochloromethane	N/A	N/A	1.1	UG/KG	N/A	N/A	5	UG/KG
1,1-Dichloroethane	N/A	N/A	0.88	UG/KG	N/A	N/A	5	UG/KG
1,2-Dichloroethane	N/A	N/A	0.38	UG/KG	N/A	N/A	5	UG/KG
1,2-Dichlorobenzene	N/A	N/A	1.9	UG/KG	N/A	N/A	5	UG/KG
1,3-Dichlorobenzene	N/A	N/A	4	UG/KG	N/A	N/A	5	UG/KG
1,4-Dichlorobenzene	N/A	N/A	3	UG/KG	N/A	N/A	5	UG/KG
1,1-Dichloroethene	N/A	N/A	1.6	UG/KG	N/A	N/A	5	UG/KG

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TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
trans-1,2-Dichloroethene	N/A	N/A	1.3	UG/KG	N/A	N/A	5	UG/KG
cis-1,3-Dichloropropene	N/A	N/A	2.5	UG/KG	N/A	N/A	5	UG/KG
trans-1,3-Dichloropropene	N/A	N/A	4.3	UG/KG	N/A	N/A	5	UG/KG
1,2-Dichloropropane	N/A	N/A	0.5	UG/KG	N/A	N/A	5	UG/KG
Trichlorofluoromethane	N/A	N/A		UG/KG	N/A	N/A	10	UG/KG
Methylene chloride	N/A	N/A	3.1	UG/KG	N/A	N/A	5	UG/KG
1,1,2,2-Tetrachloroethane	N/A	N/A	0.38	UG/KG	N/A	N/A	5	UG/KG
1,1,2,2-Tetrachloroethene	N/A	N/A	4	UG/KG	N/A	N/A	5	UG/KG
Bromoform	N/A	N/A	2.5	UG/KG	N/A	N/A	10	UG/KG
1,1,1-Trichloroethane	N/A	N/A	16	UG/KG	N/A	N/A	5	UG/KG
1,1,2-Trichloroethane	N/A	N/A	0.25	UG/KG	N/A	N/A	5	UG/KG
Trichloroethene	N/A	N/A	7.4	UG/KG	N/A	N/A	5	UG/KG
Chloroform	N/A	N/A	0.63	UG/KG	N/A	N/A	5	UG/KG
Vinyl chloride	N/A	N/A	2.3	UG/KG	N/A	N/A	5	UG/KG
RAS								
SW8015 - Volatiles								
2-Butanone	1	UG/L	1	UG/G	50	UG/L	N/A	N/A
RAS								
E602 - Volatiles Aromatics								
Benzene	0.2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
Toluene	0.2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
Chlorobenzene	0.2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,2-Dichlorobenzene	0.4	UG/L	N/A	N/A	4	UG/L	N/A	N/A
1,3-Dichlorobenzene	0.4	UG/L	N/A	N/A	4	UG/L	N/A	N/A
1,4-Dichlorobenzene	0.3	UG/L	N/A	N/A	3	UG/L	N/A	N/A
Ethylbenzene	0.2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
RAS								
SW8020 - Volatile Aromatics								
Benzene	N/A	N/A	500	UG/KG	N/A	N/A	2	UG/KG
Toluene	N/A	N/A	500	UG/KG	N/A	N/A	2	UG/KG
Chlorobenzene	N/A	N/A	30	UG/KG	N/A	N/A	2	UG/KG
1,2-Dichlorobenzene	N/A	N/A	50	UG/KG	N/A	N/A	4	UG/KG
1,3-Dichlorobenzene	N/A	N/A	50	UG/KG	N/A	N/A	4	UG/KG
1,4-Dichlorobenzene	N/A	N/A	40	UG/KG	N/A	N/A	3	UG/KG
Ethylbenzene	N/A	N/A	60	UG/KG	N/A	N/A	2	UG/KG
m-Xylene	N/A	N/A	200	UG/KG	N/A	N/A	2	UG/KG
o-Xylene	N/A	N/A	100	UG/KG	N/A	N/A	2	UG/KG
p-Xylene	N/A	N/A	100	UG/KG	N/A	N/A	2	UG/KG
RAS								
E624 - Volatiles								
Acrolein	10	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Acrylnitrile	10	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Bromodichloromethane	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromomethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Toluene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A

TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
2-Chloroethyl vinyl ether	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chlorobenzene	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chloromethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Carbon Tetrachloride	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromochloromethane	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethane	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloroethane	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethene	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,3-Dichloropropylene	0.5	UG/L	N/A	N/A	5	UG/	N/A	N/A
1,2-Dichloropropane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethylbenzene	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichlorofluoromethane	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dichlorodifluoromethane	1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Butanone	1	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Methylene Chloride	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Tetrachloroethene	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromoform	1	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,1-Trichloroethane	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2-Trichloroethane	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichloroethene	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroform	0.5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Vinyl Chloride	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
RAS								
[g]SW8240 - Volatiles								
Bromodichloromethane	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromomethane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzene	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Toluene	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
2-Chloroethyl vinyl ether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chlorobenzene	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroethane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chloromethane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Carbon Tetrachloride	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromochloromethane	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethane	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloroethane	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethene	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,2-Dichloroethene	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
cis-1,3-Dichloropropene	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloropropane	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethylbenzene	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichlorofluoromethane	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A

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TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Tetrachloroethene	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromoform	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,1-Trichloroethane	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2-Trichloroethane	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichloroethene	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroform	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Vinyl Chloride	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
RAS								
E625 - Semivolatiles								
Acenaphthene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthylene	3.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Anthracene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Butylbenzylphthalate	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethoxy)methane	5.3	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	5.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroisopropyl)ether	5.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Ethylhexyl)phthalate	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(a)anthracene	7.8	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(a)pyrene	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(b)fluoranthene	4.8	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzidine	44	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(g,h,i)perylene	4.1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloro-3-methylphenol	3	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Chrysene	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chlorophenol	3.3	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chloronaphthalene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chlorophenyl-phenylether	4.2	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenzo(a,h)pyrene	3.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3,3'-Dichlorobenzidine	17	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2-Dichlorobenzene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,3-Dichlorobenzene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	4.4	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	2.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethylphthalate	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dimethylphenol	2.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dimethylphthalate	1.6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	24	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Di-n-butylphthalate	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-octylphthalate	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	42	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4-Dinitrotoluene	5.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2-Diphenylhydrazine	3	UG/L	N/A	N/A	10	UG/L	N/A	N/A

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TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
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Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Fluorene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluoranthene	2.2	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	0.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachloroethane	1.6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Isophorone	2.2	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Naphthalene	1.6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodimethylamine	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodiphenylamine	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitroso-di-n-propylamine	12	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Nitrobenzene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitrophenol	3.6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Nitrophenol	2.4	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Pentachlorophenol	3.6	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Phenanthrene	5.4	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	1.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pyrene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4,6-Trichlorophenol	2.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
RAS								
SW8270 - Semivolatiles								
Acenapthene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
Acenaphthylene	N/A	N/A	3.5	UG/KG	N/A	N/A	700	UG/KG
Anthracene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
Benzyl butyl phthalate	N/A	N/A	2.5	UG/KG	N/A	N/A	700	UG/KG
bis (2-Chloroethoxy) methane	N/A	N/A	5.3	UG/KG	N/A	N/A	700	UG/KG
bis(2-Chloroethyl)ether	N/A	N/A	5.7	UG/KG	N/A	N/A	700	UG/KG
bis (2-Chloroisopropyl) ether	N/A	N/A	5.7	UG/KG	N/A	N/A	700	UG/KG
bis(2-Ethylhexyl)phthalate	N/A	N/A	2.5	UG/KG	N/A	N/A	700	UG/KG
4-Bromophenyl-phenylether	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
Benzo (a) anthracene	N/A	N/A	7.8	UG/KG	N/A	N/A	700	UG/KG
Benzo (a) pyrene	N/A	N/A	2.5	UG/KG	N/A	N/A	700	UG/KG
Benzo (b) fluoranthene	N/A	N/A	4.8	UG/KG	N/A	N/A	700	UG/KG
Benzidine	N/A	N/A	44	UG/KG	N/A	N/A	N/A	UG/KG
Benzo(g,h,i)perylene	N/A	N/A	4.1	UG/KG	N/A	N/A	700	UG/KG
Benzo(k)fluoranthene	N/A	N/A	2.5	UG/KG	N/A	N/A	700	UG/KG
4-Chloro-3-mehthylphenol	N/A	N/A	3	UG/KG	N/A	N/A	1300	UG/KG
Chrysene	N/A	N/A	2.5	UG/KG	N/A	N/A	700	UG/KG
2-Chlorophenol	N/A	N/A	3.3	UG/KG	N/A	N/A	300	UG/KG
2-Chloronaphthalene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
4-Chlorophenyl phenyl ether	N/A	N/A	4.2	UG/KG	N/A	N/A	700	UG/KG
Dibenz(a,h)anthracene	N/A	N/A	2.5	UG/KG	N/A	N/A	700	UG/KG
3,3-Dichlorobenzidine	N/A	N/A	17	UG/KG	N/A	N/A	1300	UG/KG
1,2-Dichlorobenzene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
1,3-Dichlorobenzene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG

TABLE B.13 (Continued)
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Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,4-Dichlorobenzene	N/A	N/A	4.4	UG/KG	N/A	N/A	700	UG/KG
2,4-Dichlorophenol	N/A	N/A	2.7	UG/KG	N/A	N/A	300	UG/KG
Diethyl phthalate	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
2,4-Dimethylphenol	N/A	N/A	2.7	UG/KG	N/A	N/A	300	UG/KG
Dimethylphthalate	N/A	N/A	1.6	UG/KG	N/A	N/A	700	UG/KG
4,6-Dinitro-2-methylphenol	N/A	N/A	24	UG/KG	N/A	N/A	3300	UG/KG
Di-n-butylphthalate	N/A	N/A	2.5	UG/KG	N/A	N/A	700	UG/KG
Di-n-octylphthalate	N/A	N/A	2.5	UG/KG	N/A	N/A	700	UG/KG
2,4-Dinitrophenol	N/A	N/A	42	UG/KG	N/A	N/A	3300	UG/KG
2,4-Dinitrotoluene	N/A	N/A	5.7	UG/KG	N/A	N/A	700	UG/KG
2,6-Dinitrotoluene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
Fluorene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
Fluoranthene	N/A	N/A	2.2	UG/KG	N/A	N/A	700	UG/KG
Hexachlorobutadiene	N/A	N/A	0.9	UG/KG	N/A	N/A	700	UG/KG
Hexachlorocyclopentadiene	N/A	N/A	6	UG/KG	N/A	N/A	700	UG/KG
Hexachlorobenzene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
Hexachlorobenzene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
Hexachloroethane	N/A	N/A	1.6	UG/KG	N/A	N/A	700	UG/KG
Hexachloroethane	N/A	N/A	1.6	UG/KG	N/A	N/A	700	UG/KG
Indeno(1,2,3-cd)pyrene	N/A	N/A	3.7	UG/KG	N/A	N/A	700	UG/KG
Indeno(1,2,3-cd)pyrene	N/A	N/A	3.7	UG/KG	N/A	N/A	700	UG/KG
Isophorone	N/A	N/A	2.2	UG/KG	N/A	N/A	700	UG/KG
Napthalene	N/A	N/A	1.6	UG/KG	N/A	N/A	700	UG/KG
N-Nitrosodimethylamine	N/A	N/A	10	UG/KG	N/A	N/A	700	UG/KG
n-Nitrosodiphenylamine	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
n-Nitroso-di-n-propylamine	N/A	N/A	12	UG/KG	N/A	N/A	700	UG/KG
Nitrobenzene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
2-Nitrophenol	N/A	N/A	3.6	UG/KG	N/A	N/A	300	UG/KG
4-Nitrophenol	N/A	N/A	2.4	UG/KG	N/A	N/A	1600	UG/KG
Pentachlorophenol	N/A	N/A	3.6	UG/KG	N/A	N/A	3300	UG/KG
Phenanthrene	N/A	N/A	5.4	UG/KG	N/A	N/A	700	UG/KG
Phenol	N/A	N/A	1.5	UG/KG	N/A	N/A	300	UG/KG
Pyrene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
1,2,4-Trichlorobenzene	N/A	N/A	1.9	UG/KG	N/A	N/A	700	UG/KG
2,4,6-Trichlorophenol	N/A	N/A	2.7	UG/KG	N/A	N/A	300	UG/KG
E608 - Pesticides/[c]PCBs								
Aldrin	0.05	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
alpha-BHC	0.05	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
beta-BHC	0.05	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
delta-BHC	0.05	UG/L	N/A	N/A	0.09	UG/L	N/A	N/A
gamma-BHC (Lindane)	0.05	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Chlordane	0.5	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
p,p'-DDD	0.1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
4,4'-DDE	0.1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
DDT	0.1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A

TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
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Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
4,4'-DDT	0.1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
Dieldrin	0.1	UG/L	N/A	N/A	0.02	UG/L	N/A	N/A
Endosulfan I	0.05	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Endosulfan II	0.05	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Endosulfan Sulfate	0.1	UG/L	N/A	N/A	0.66	UG/L	N/A	N/A
Endrin	0.1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Endrin aldehyde	0.1	UG/L	N/A	N/A	0.23	UG/L	N/A	N/A
Heptachlor epoxide	0.05	UG/L	N/A	N/A	0.83	UG/L	N/A	N/A
Heptachlor	0.05	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Aroclor-1016	0.5	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1221	0.5	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1232	0.5	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1242	0.5	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1248	0.5	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1254	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1260	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Toxaphene	1	UG/L	N/A	N/A	2.4	UG/L	N/A	N/A
RAS								
SW8080 - Pesticides/PCBs								
Aldrin	N/A	N/A		MG/G	N/A	N/A	3	UG/KG
alpha-BHC	N/A	N/A		MG/G	N/A	N/A	2	UG/KG
beta-BHC	N/A	N/A		MG/G	N/A	N/A	4	UG/KG
delta-BHC	N/A	N/A		MG/G	N/A	N/A	6	UG/KG
gamma-BHC	N/A	N/A		MG/G	N/A	N/A	3	UG/KG
Chlordane	N/A	N/A		MG/G	N/A	N/A	9	UG/KG
4,4'-DDD	N/A	N/A		MG/G	N/A	N/A	7	UG/KG
4,4'-DDE	N/A	N/A		MG/G	N/A	N/A	3	UG/KG
4,4'-DDT	N/A	N/A		MG/G	N/A	N/A	8	UG/KG
Dieldrin	N/A	N/A		MG/G	N/A	N/A	1	UG/KG
Endosulfan I	N/A	N/A		MG/G	N/A	N/A	9	UG/KG
Endosulfan II	N/A	N/A		MG/G	N/A	N/A	3	UG/KG
Endosulfan Sulfate	N/A	N/A		MG/G	N/A	N/A	40	UG/KG
Endrin	N/A	N/A		MG/G	N/A	N/A	4	UG/KG
Endrin aldehyde	N/A	N/A		MG/G	N/A	N/A	20	UG/KG
Heptachlor epoxide	N/A	N/A		MG/G	N/A	N/A	60	UG/KG
Heptachlor	N/A	N/A		MG/G	N/A	N/A	2	UG/KG
Aroclor-1016	N/A	N/A		MG/G	N/A	N/A	1000	UG/KG
Aroclor-1221	N/A	N/A		MG/G	N/A	N/A	1000	UG/KG
Aroclor-1232	N/A	N/A		MG/G	N/A	N/A	1000	UG/KG
Aroclor-1242	N/A	N/A		MG/G	N/A	N/A	1000	UG/KG
Aroclor-1248	N/A	N/A		MG/G	N/A	N/A	1000	UG/KG
Aroclor-1254	N/A	N/A		MG/G	N/A	N/A	1000	UG/KG
Aroclor-1260	N/A	N/A		MG/G	N/A	N/A	1000	UG/KG
Toxaphene	N/A	N/A		MG/G	N/A	N/A	200	UG/KG

TABLE B.13 (Continued)
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Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
SW6010 - Metals ([b]ICP)								
Silver	0.002	UG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Arsenic	0.002	UG/L	N/A	N/A	0.6	MG/L	N/A	N/A
Barium	0.005	UG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Cadmium	0.002	UG/L	N/A	N/A	0.04	MG/L	N/A	N/A
Chromium	0.005	UG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Lead	0.005	UG/L	N/A	N/A	0.5	MG/L	N/A	N/A
Selenium	0.03	UG/L	N/A	N/A	0.8	MG/L	N/A	N/A
RAS								
E200.7 - Metals (ICP)								
Silver	0.002	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Barium	0.009	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Cadmium	0.002	MG/L	N/A	N/A	0.04	MG/L	N/A	N/A
Chromium	0.005	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
RAS								
E2XX.X - (GFAA)								
Arsenic	0.005	MG/L	N/A	N/A	0.005	MG/L	N/A	N/A
Lead	0.001	MG/L	N/A	N/A	0.005	MG/L	N/A	N/A
Mercury	0.0002	MG/L	N/A	N/A	0.001	MG/L	N/A	N/A
Selenium	0.003	MG/L	N/A	N/A	0.005	MG/L	N/A	N/A
RAS								
E900.0 -Radionuclides								
Gross Alpha	2.1	PCI/L	N/A	N/A	4	PCI/L	N/A	N/A
Gross Beta	4.2	PCI/L	N/A	N/A	4	PCI/L	N/A	N/A
RAS								
E413.2 - Wet Chemistry								
Oil & Grease	1	MG/L	N/A	N/A	2	MG/L	N/A	N/A
RAS								
E418.1 - Wet Chemistry								
Petroleum Hydrocarbons	1	MG/l	N/A	N/A	1	MG/L	N/A	N/A
ARLD[d]								
E624 -Volatiles								
Bromodichloromethane	2.2	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Benzene	1.9	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Toluene	6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Chlorobenzene	6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Carbon Tetrachloride	2.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromochloromethane	3.1	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethane	4.7	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloroethane	2.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethene	2.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,2-Dichloroethene	1.6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloropropane	6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethylbenzene	7.2	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Methylene chloride	2.7	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	6.9	MG/L	N/A	N/A	5	UG/L	N/A	N/A

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TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,1,2,2-Tetrachloroethene	4.1	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromoform	4.7	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,1-Trichloroethane	3.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2-Trichloroethane	5	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichloroethene	1.9	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroform	1.6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
ARLD								
E625 -Semivolatiles								
Acenapthene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthylene	3.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Anthracene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzyl butyl phthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis (2-Chloroethoxy) methane	5.3	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	5.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis (2-Chloroisopropyl) ether	5.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Ethylhexyl)phthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo (a) anthracene	7.8	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzoic Acid	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Benzo (a) pyrene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo (b) fluoranthene	4.8	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzidine	44	MG/L	N/A	N/A	N/A	UG/L	N/A	N/A
Benzo(g,h,i)perylene	4.1	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzyl alcohol	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloro-3-mehthylphenol	3	MG/L	N/A	N/A	20	UG/L	N/A	N/A
Chrysene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloroaniline	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2-Chlorophenol	3.3	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chloronaphthalene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chlorophenyl phenyl ether	4.2	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
3,3-Dichlorobenzidine	17	MG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2-Dichlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
1,3-Dichlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	4.4	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	2.7	MG/L	N/A	N/A	50	UG/L	N/A	N/A
Diethyl phthalate	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dimethylphenol	2.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Dimethylphthalate	1.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	24	MG/L	N/A	N/A	50	UG/L	N/A	N/A
Di-n-butylphthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-octylphthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	42	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrotoluene	5.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A

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TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Fluorene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluoranthene	2.2	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	0.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachloroethane	1.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Indeno(1,2,3-cd)pyrene	3.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Isophorone	2.2	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylphenol	10	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Methylphenol	10	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylnapthalene	10	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Napthalene	1.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodimethylamine	10	MG/L	N/A	N/A	10	UG/L	N/A	N/A
n-Nitrosodiphenylamine	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
n-Nitroso-di-n-propylamine	12	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
3-Nitroanaline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Nitrobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitrophenol	3.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Nitrophenol	2.4	MG/L	N/A	N/A	50	UG/L	N/A	N/A
Pentachlorophenol	3.6	MG/L	N/A	N/A	50	UG/L	N/A	N/A
Phenanthrene	5.4	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	1.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Pyrene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,3,7,8-Tetrachlorodibenzo-p-dioxi	1.9	MG/L	N/A	N/A	N/A	UG/L	N/A	N/A
2,4,6-Trichlorophenol	2.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
BC[d]								
E624 - Volatiles								
Bromodichloromethane	2.2	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Benzene	1.9	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Toluene	6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Chlorobenzene	6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Carbon Tetrachloride	2.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromochloromethane	3.1	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethane	4.7	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloroethane	2.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethene	2.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,2-Dichloroethene	1.6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloropropane	6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethylbenzene	7.2	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Methylene chloride	2.7	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	6.9	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethene	4.1	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromoform	4.7	MG/L	N/A	N/A	5	UG/L	N/A	N/A

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TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,1,1-Trichloroethane	3.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2-Trichloroethane	5	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichloroethene	1.9	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroform	1.6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
BC								
E625 - Semivolatiles								
Acenapthene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthylene	3.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Anthracene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzyl butyl phthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis (2-Chloroethoxy) methane	5.3	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	5.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis (2-Chloroisopropyl) ether	5.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Ethylhexyl)phthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo (a) anthracene	7.8	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo (a) pyrene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo (b) fluoranthene	4.8	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzidine	44	MG/L	N/A	N/A	N/A	UG/L	N/A	N/A
Benzo(g,h,i)perylene	4.1	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloro-3-mehthylphenol	3	MG/L	N/A	N/A	20	UG/L	N/A	N/A
Chrysene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chlorophenol	3.3	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chloronaphthalene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chlorophenyl phenyl ether	4.2	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
3,3-Dichlorobenzidine	17	MG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2-Dichlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
1,3-Dichlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	4.4	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	2.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethyl phthalate	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dimethylphenol	2.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Dimethylphthalate	1.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	24	MG/L	N/A	N/A	50	UG/L	N/A	N/A
Di-n-butylphthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-octylphthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	42	MG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4-Dinitrotoluene	5.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluorene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluoranthene	2.2	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	0.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A

TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Hexachloroethane	1.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Indeno(1,2,3-cd)pyrene	3.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Isophorone	2.2	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Napthalene	1.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodimethylamine	10	MG/L	N/A	N/A	10	UG/L	N/A	N/A
n-Nitrosodiphenylamine	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
n-Nitroso-di-n-propylamine	12	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Nitrobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitrophenol	3.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Nitrophenol	2.4	MG/L	N/A	N/A	50	UG/L	N/A	N/A
Pentachlorophenol	3.6	MG/L	N/A	N/A	50	UG/L	N/A	N/A
Phenanthrene	5.4	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	1.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Pyrene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,3,7,8-Tetrachlorodibenzo-p-dioxi	1.9	MG/L	N/A	N/A	N/A	UG/L	N/A	N/A
2,4,6-Trichlorophenol	2.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
MKSN[k]								
E624 - Volatiles								
Bromodichloromethane	2.2	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Benzene	1.9	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Toluene	6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Chlorobenzene	6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Carbon Tetrachloride	2.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromochloromethane	3.1	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethane	4.7	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloroethane	2.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethene	2.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,2-Dichloroethene	1.6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloropropane	6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethylbenzene	7.2	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Methylene chloride	2.7	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	6.9	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethene	4.1	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromoform	4.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
1,1,1-Trichloroethane	3.8	MG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2-Trichloroethane	5	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichloroethene	1.9	MG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroform	1.6	MG/L	N/A	N/A	5	UG/L	N/A	N/A
MKSN								
E625 - Semivolatiles								
Acenapthene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthylene	3.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Aniline	10	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Anthracene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzyl butyl phthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A

TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
bis (2-Chloroethoxy) methane	5.3	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	5.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis (2-Chloroisopropyl) ether	5.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Ethylhexyl)phthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo (a) anthracene	7.8	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo (a) pyrene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo (b) fluoranthene	4.8	MG/L	N/A	N/A	N/A	UG/L	N/A	N/A
Benzidine	44	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(g,h,i)perylene	4.1	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	2.5	MG/L	N/A	N/A	20	UG/L	N/A	N/A
4-Chloro-3-mehthylphenol	3	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Chrysene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chlorophenol	3.3	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chlorophenyl phenyl ether	4.2	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
3,3-Dichlorobenzidine	17	MG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2-Dichlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
1,3-Dichlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	4.4	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	2.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethyl phthalate	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dimethylphenol	2.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Dimethylphthalate	1.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	24	MG/L	N/A	N/A	50	UG/L	N/A	N/A
Di-n-butylphthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-octylphthalate	2.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	42	MG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4-Dinitrotoluene	5.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluorene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluoranthene	2.2	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	0.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachloroethane	1.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Indeno(1,2,3-cd)pyrene	3.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Isophorone	2.2	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Napthalene	1.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodimethylamine	10	MG/L	N/A	N/A	10	UG/L	N/A	N/A
n-Nitrosodiphenylamine	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
n-Nitroso-di-n-propylamine	12	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Nitrobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitrophenol	3.6	MG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Nitrophenol	2.4	MG/L	N/A	N/A	50	UG/L	N/A	N/A
Pentachlorophenol	3.6	MG/L	N/A	N/A	50	UG/L	N/A	N/A

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TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Phenanthrene	5.4	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	1.5	MG/L	N/A	N/A	10	UG/L	N/A	N/A
Pyrene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	1.9	MG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4,6-Trichlorophenol	2.7	MG/L	N/A	N/A	10	UG/L	N/A	N/A
RASS[b]								
E608 - Pesticides/PCBs								
Aldrin	1.9	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
alpha-BHC	3	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
beta-BHC	5	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
delta-BHC	4	UG/L	N/A	N/A	0.09	UG/L	N/A	N/A
gamma-BHC	4	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Chlordane	5	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Alpha-Chlordane	10	UG/L	N/A	N/A	N/A	UG/L	N/A	N/A
Gamma-Chlordane	10	UG/L	N/A	N/A	N/A	UG/L	N/A	N/A
4,4'-DDD	2.8	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
4,4'-DDE	5.6	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
4,4'-DDT	4.7	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
Dieldrin	2.5	UG/L	N/A	N/A	0.02	UG/L	N/A	N/A
Endosulfan I	6	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Endosulfan II	10	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Endosulfan Sulfate	5.6	UG/L	N/A	N/A	0.66	UG/L	N/A	N/A
Endrin	8	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Endrin aldehyde	10	UG/L	N/A	N/A	0.23	UG/L	N/A	N/A
Heptachlor epoxide	2.2	UG/L	N/A	N/A	0.83	UG/L	N/A	N/A
Heptachlor	1.9	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Aroclor-1016	150	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1221	30	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1232	120	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1242	120	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1248	360	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1254	34	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1254	34	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Aroclor-1260	500	UG/L	N/A	N/A	1	UG/L	N/A	N/A
RASS								
E625 - Semivolatiles								
Acenapthene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthylene	3.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Anthracene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzyl butyl phthalate	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis (2-Chloroethoxy) methane	5.3	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	5.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis (2-Chloroisopropyl) ether	5.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Ethylhexyl)phthalate	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo (a) anthracene	7.8	UG/L	N/A	N/A	10	UG/L	N/A	N/A

TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Benzo (a) pyrene	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo (b) fluoranthene	4.8	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzidine	44	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Benzo(g,h,i)perylene	4.1	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloro-3-mehthylphenol	3	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Chrysene	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chlorophenol	3.3	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chlorophenyl phenyl ether	4.2	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenzofuran	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3,3-Dichlorobenzidine	17	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2-Dichlorobenzene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,3-Dichlorobenzene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	4.4	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	2.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethyl phthalate	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethyl phthalate	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dimethylphenol	2.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dimethylphthalate	1.6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	24	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Di-n-butylphthalate	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-octylphthalate	2.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	42	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4-Dinitrotoluene	5.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluorene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluoranthene	2.2	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	0.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachloroethane	1.6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Indeno(1,2,3-cd)pyrene	3.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Isophorone	2.2	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylphenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Methylphenol	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2-Methylnapthalene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Napthalene	1.6	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodimethylamine	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
n-Nitrosodiphenylamine	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
n-Nitroso-di-n-propylamine	12	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
3-Nitroanaline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Nitrobenzene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitrophenol	3.6	UG/L	N/A	N/A	10	UG/L	N/A	N/A

TABLE B.13 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
RADIAN
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
4-Nitrophenol	2.4	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Pentachlorophenol	3.6	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Phenanthrene	5.4	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenanthrene	5.4	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	1.5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pyrene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	1.9	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,3,7,8-Tetrachlorodibenzo-p-dioxi	1.9	UG/L	N/A	N/A	N/A	UG/L	N/A	N/A
2,4,6-Trichlorophenol	2.7	UG/L	N/A	N/A	10	UG/L	N/A	N/A
TRC[m]								
SGVOAF								
Benzene	0.03	MG/L	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	0.02	MG/L	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	0.00002	MG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethene	0.00002	MG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane	0.00002	MG/L	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethene	0.00001	MG/L	N/A	N/A	N/A	N/A	N/A	N/A
Xylene (Total)	0.03	MG/L	N/A	N/A	N/A	N/A	N/A	N/A

[a]LDL = Laboratory detection limit
[b]PRL = Project reporting limit
[c]RAS = Radian Analytical Services Lab, Austin, TX
[d]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March, 1983)
[e]N/A = Not applicable
[f]SW = USEPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3RD Edition, (November, 1992)
[g]PCB = Polychlorinated Biphenyls
[h]ICP = Inductively Coupled Plasma
[i]ARLD = Laboratory not listed in IRPIMS valid values list.
[j]BC = Brown and Caldwell Laboratories, Pasadena, CA.
[k]MKSN = McKesson Laboratories.
[l]RASS = Radian Analytical Services, Sacramento, CA.
[m]TRC = Tracer Research Corporation, Tucson, AZ.

TABLE B.14
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
[c]ENSR								
[d]E524.2 - Volatiles								
1,1,1,2-Tetrachloroethane	1	UG/L	[e]N/A	N/A	0.05	UG/L	N/A	N/A
1,1,1-Trichloroethane	1	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,1,2-Trichloroethane	1	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
1,1-Dichloroethane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,1-Dichloroethene	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,1-Dichloropropene	1	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
1,2,3-Trichloropropane	1	UG/L	N/A	N/A	0.32	UG/L	N/A	N/A
1,2,3-Trimethylbenzene	1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,2,4-Trimethylbenzene	1	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
1,2-Dibromo-3-chloropropane	1	UG/L	N/A	N/A	0.26	UG/L	N/A	N/A
1,2-Dichlorobenzene	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,2-Dichloroethane	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,2-Dichloroethene, total	1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,3,5-Trimethylbenzene	1	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
1,3-Dichlorobenzene	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,3-Dichloropropane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,4-Dichlorobenzene	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
2,2-Dichloropropane	1	UG/L	N/A	N/A	0.35	UG/L	N/A	N/A
2-Chlorotoluene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
4-Chlorotoluene	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Benzene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromobenzene	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Bromochloromethane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromodichloromethane	1	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Bromoform	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
Bromomethane	2	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Carbon tetrachloride	1	UG/L	N/A	N/A	0.21	UG/L	N/A	N/A
Chlorobenzene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Chloroethane	2	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloroform	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Chloromethane	2	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
cis-1,3-Dichloropropene	1	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
Dibromochloromethane	1	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
Dibromomethane	1	UG/L	N/A	N/A	0.24	UG/L	N/A	N/A
Dichlorodifluoromethane	1	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Ethylbenzene	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Ethylene Dibromide	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A

TABLE B.14 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Hexachlorobutadiene	1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Isopropylbenzene	1	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
Methylene Chloride	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
n-Butylbenzene	1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
n-propylbenzene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Naphthalene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
p-Cymene(o-isopropyltoluene)	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
sec-Butylbenzene	1	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
Styrene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
t-Butylbenzene	1	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Tetrachloroethene	1	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Toluene	1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
trans-1,3-Dichloropropene	1	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
Trichloroethene	1	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Trichlorofluoromethane	1	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Vinyl Chloride	2	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Xylene (Total)	1	UG/L	N/A	N/A	0.29	UG/L	N/A	N/A
ENSR								
[f]SW8260 - Volatiles								
1,1,1,2-Tetrachloroethane	1	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
1,1,1-Trichloroethane	1	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,1,2-Trichloroethane	1	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
1,1-Dichloroethane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,1-Dichloroethene	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,2,3-Trichloropropane	1	UG/L	N/A	N/A	0.32	UG/L	N/A	N/A
1,2-Dichlorobenzene	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1,2-Dichloroethane	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
1,2-Dichloroethene, total	1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
1,3-Dichlorobenzene	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
1,4-Dichlorobenzene	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
1-Chlorohexane	1	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
2-Butanone	10	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
2-Chloroethyl vinyl ether	1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
2-Hexanone	1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
4-Methyl-2-Pentanone	10	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Acetone	10	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Acrolein	60	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Acrylnitrile	25	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Bromobenzene	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A

TABLE B.14 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Bromodichloromethane	1	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Bromoform	1	UG/L	N/A	N/A	0.12	UG/L	N/A	N/A
Bromomethane	1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Carbon Disulfide	1	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	1	UG/L	N/A	N/A	0.21	UG/L	N/A	N/A
Chlorobenzene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Chloroethane	1	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Chloroform	0.5	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Chloromethane	1	UG/L	N/A	N/A	0.13	UG/L	N/A	N/A
cis-1,3-Dichloropropene	1	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
Dibromochloromethane	1	UG/L	N/A	N/A	0.05	UG/L	N/A	N/A
Dibromomethane	10	UG/L	N/A	N/A	0.24	UG/L	N/A	N/A
Dichlorodifluoromethane	10	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Diethyl Ether	50	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Methacrylate	10	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Ethylene Dibromide	1	UG/L	N/A	N/A	0.06	UG/L	N/A	N/A
Iodomethane	10	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Methylene Chloride	1	UG/L	N/A	N/A	0.03	UG/L	N/A	N/A
Styrene	1	UG/L	N/A	N/A	0.04	UG/L	N/A	N/A
Tetrachloroethene	1	UG/L	N/A	N/A	0.14	UG/L	N/A	N/A
Toluene	1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
trans-1,3-Dichloropropene	1	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
Trichloroethene	1	UG/L	N/A	N/A	0.1	UG/L	N/A	N/A
Trichlorofluoromethane	1	UG/L	N/A	N/A	0.08	UG/L	N/A	N/A
Vinyl Acetate	10	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	1	UG/L	N/A	N/A	0.11	UG/L	N/A	N/A
Xylene (Total)	1	UG/L	N/A	N/A	0.29	UG/L	N/A	N/A
ENSR								
SW8270 - Semivolatiles								
1,2,4,5-Tetrachlorobenzene	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2-Dichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2-Diphenylhydrazine	50	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1-Chloronaphthalene	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1-Naphthylamine	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,3,4,6-Tetrachlorophenal	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4,5-Trichlorophenol	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4,6-Trichlorophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A

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TABLE B.14 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
2,4-Dimethylphenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4-Dinitrotoluene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dichlorophenol	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Aminonaphthalene	50	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
2-Chloronaphthalene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chlorophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylnaphthalene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Methylphenol(o-Cresol)	10	UG/L	N/A	N/A	10	N/A	N/A	N/A
2-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2-Nitrophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Picoline	50	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	30	UG/L	N/A	N/A	20	UG/L	N/A	N/A
3-Methycholanthrene	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Aminobiphenyl	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloro-3-methylphenol	10	UG/L	N/A	N/A	20	UG/L	N/A	N/A
4-Chloroaniline	20	UG/L	N/A	N/A	20	UG/L	N/A	N/A
4-Chlorophenyl-phenylether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Methylphenol(p-Cresol)	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Nitroaniline	58	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Nitrophenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
7,12-Dimethylbenz(a)Anthracene	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthene	10	UG/L	N/A	N/A	10	N/A	N/A	N/A
Acenaphthylene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acetophenone	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Analine	50	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Anthracene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzidine	170	UG/L	N/A	N/A	100	UG/L	N/A	N/A
Benzo(a)anthracene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(a)pyrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(b)fluoranthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(g,h,i)perylene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzoic Acid	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Benzyl Alcohol	20	UG/L	N/A	N/A	20	UG/L	N/A	N/A
bis(2-Chloroethoxy)methane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroisopropyl)ether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A

TABLE B.14 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
bis(2-Ethylhexyl)phthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Butylbenzylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chrysene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-butylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-octylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,j)Acridine		UG/L	N/A	N/A	10	N/A	N/A	N/A
Dibenzofuran	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethylphthalate	20	UG/L	N/A	N/A	10	N/A	N/A	N/A
Dimethylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diphenylamine	50	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Ethyl Methanesulfonate	50	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Fluoranthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluorene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachloroethane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Indeno(1,2,3-cd)pyrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Isophorone	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Methyl Methanesulfonate	50	UG/L	N/A	N/A	10	N/A	N/A	N/A
N-Nitro-di-n-Butylamine	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitroso-di-n-propylamine	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodiethylamine	50	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
N-Nitrosodiphenylamine	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosopiperidine	50	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Naphthalene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Nitrobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
p-Dimethylaminoazobenzene	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pentachlorobenzene	50	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pentachloronitrobenzene	50	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Pentachlorophenol	30	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Phenacetin	50	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Phenanthrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pronamide	50	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Pyrene	10	UG/L	N/A	N/A	0.01	MG/L	N/A	N/A
ENSR								
SW6010 - Metals (ICP)								
Aluminum	0.2	MG/L	N/A	N/A	0.5	MG/L	N/A	N/A
Antimony	0.2	MG/L	N/A	N/A	0.4	MG/L	N/A	N/A
Arsenic	0.3	MG/L	N/A	N/A	0.6	MG/L	N/A	N/A

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TABLE B.14 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
USGS
Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Barium	0.1	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Beryllium	0.002	MG/L	N/A	N/A	0.003	MG/L	N/A	N/A
Cadmium	0.005	MG/L	N/A	N/A	0.04	MG/L	N/A	N/A
Calcium	5	MG/L	N/A	N/A	0.1	MG/L	N/A	N/A
Chromium	0.03	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Cobalt	0.04	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Copper	0.03	MG/L	N/A	N/A	0.06	MG/L	N/A	N/A
Iron	0.04	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Lead	0.2	MG/L	N/A	N/A	0.5	MG/L	N/A	N/A
Magnesium	5	MG/L	N/A	N/A	0.3	MG/L	N/A	N/A
Manganese	0.01	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Molybdenum	0.04	MG/L	N/A	N/A	0.08	MG/L	N/A	N/A
Nickel	0.04	MG/L	N/A	N/A	0.15	MG/L	N/A	N/A
Potassium	5	MG/L	N/A	N/A	5	MG/L	N/A	N/A
Selenium	0.4	MG/L	N/A	N/A	0.8	MG/L	N/A	N/A
Silver	0.03	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Sodium	5	MG/L	N/A	N/A	0.3	MG/L	N/A	N/A
Strontium	2	MG/L	N/A	N/A	N/A	N/A	N/A	N/A
Thallium	5	MG/L	N/A	N/A	0.4	MG/L	N/A	N/A
Vanadium	0.04	MG/L	N/A	N/A	80	MG/L	N/A	N/A
Zinc	0.0099	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
ENSR								
E413.2 - Wet Chemistry								
Oil & Grease	1	MG/L	N/A	N/A	0	MG/L	N/A	N/A
ENSR								
E418.1 - Wet Chemistry								
Petroleum Hydrocarbons	1	MG/L	N/A	N/A	0	MG/L	N/A	N/A

[a]LDL = Laboratory detection limit
[b]PRL = Project reporting limit
[c]ENSR = Ensecot Rocky Mountain Analytica, Denver Lab
[d]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March, 1983)
[e]N/A = Not applicable
[f]SW = USEPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3RD Edition, (November, 1992)

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TABLE B.15
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
IT CORPORATION

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
[c]IT								
[d]SW8240 - Volatiles								
Acetone	100	UG/L	[e]N/A	N/A	100	UG/L	N/A	N/A
Bromodichloromethane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromomethane	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Toluene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Carbon Disulfide	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
2-Chloroethyl vinyl ether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chlorobenzene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroethane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chloromethane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Carbon Tetrachloride	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Dibromochloromethane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloroethane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
cis-1,2-Dichloroethene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,2-Dichloroethene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
cis-1,3-Dichloropropene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,2-Dichloropropane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Ethylbenzene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
2-Hexanone	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2-Butanone	100	UG/L	N/A	N/A	100	UG/L	N/A	N/A
4-Methyl-2-Pentanone	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Methylene Chloride	10	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Tetrachloroethene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Styrene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromoform	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,1-Trichloroethane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,2-Trichloroethane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Trichloroethene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloroform	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Vinyl Acetate	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Vinyl Chloride	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Xylene (Total)	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
IT								
SW8270 - Semivolatiles								
Acenaphthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Acenaphthylene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Anthracene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A

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TABLE B.15 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
IT CORPORATION

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Butylbenzylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethoxy)methane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroethyl)ether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Chloroisopropyl)ether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
bis(2-Ethylhexyl)phthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Bromophenyl-phenylether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(a)anthracene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzoic Acid	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Benzo(a)pyrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(b)fluoranthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(g,h,i)perylene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzo(k)fluoranthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Benzyl Alcohol	10	UG/L	N/A	N/A	20	UG/L	N/A	N/A
4-Chloro-3-methylphenol	10	UG/L	N/A	N/A	20	UG/L	N/A	N/A
Chrysene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chloroaniline	10	UG/L	N/A	N/A	20	UG/L	N/A	N/A
2-Chlorophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chloronaphthalene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Chlorophenyl-phenylether	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenz(a,h)anthracene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dibenzofuran	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
3,3'-Dichlorobenzidine	20	UG/L	N/A	N/A	20	UG/L	N/A	N/A
1,2-Dichlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,3-Dichlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,4-Dichlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dichlorophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Diethylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dimethylphenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Dimethylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4,6-Dinitro-2-methylphenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Di-n-butylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Di-n-octylphthalate	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4-Dinitrophenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4-Dinitrotoluene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,6-Dinitrotoluene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluorene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Fluoranthene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobutadiene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorocyclopentadiene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Hexachloroethane	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Indeno(1,2,3-cd)pyrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Isophorone	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A

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TABLE B.15 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
IT CORPORATION

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
2-Methylphenol(o-Cresol)	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Methylphenol(p-Cresol)	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Methylnaphthalene	10	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Naphthalene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitrosodiphenylamine	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
N-Nitroso-di-n-propylamine	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitroaniline	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
3-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
4-Nitroaniline	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Nitrobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Nitrophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
4-Nitrophenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Pentachlorophenol	50	UG/L	N/A	N/A	50	UG/L	N/A	N/A
Phenanthrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Phenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Pyrene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
1,2,4-Trichlorobenzene	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2,4,5-Trichlorophenol	10	UG/L	N/A	N/A	50	UG/L	N/A	N/A
2,4,6-Trichlorophenol	10	UG/L	N/A	N/A	10	UG/L	N/A	N/A
IT								
SW6010 - Metals ([f]ICP)								
Silver	0.01	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Aluminum	0.2	MG/L	N/A	N/A	0.5	MG/L	N/A	N/A
Barium	0.2	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Beryllium	0.005	MG/L	N/A	N/A	0.003	MG/L	N/A	N/A
Calcium	5	MG/L	N/A	N/A	0.1	MG/L	N/A	N/A
Cadmium	0.005	MG/L	N/A	N/A	0.04	MG/L	N/A	N/A
Cobalt	0.05	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Chromium	0.01	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Copper	0.025	MG/L	N/A	N/A	0.06	MG/L	N/A	N/A
Iron	0.1	MG/L	N/A	N/A	0.07	MG/L	N/A	N/A
Potassium	5	MG/L	N/A	N/A	5	MG/L	N/A	N/A
Magnesium	5	MG/L	N/A	N/A	0.3	MG/L	N/A	N/A
Manganese	0.015	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
Sodium	5	MG/L	N/A	N/A	0.3	MG/L	N/A	N/A
Nickel	0.04	MG/L	N/A	N/A	0.15	MG/L	N/A	N/A
Antimony	0.06	MG/L	N/A	N/A	0.4	MG/L	N/A	N/A
Vanadium	0.05	MG/L	N/A	N/A	0.08	MG/L	N/A	N/A
Zinc	0.02	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
IT								
SW7060 - Metals ([g]GFAA)								
Arsenic	0.005	MG/L	N/A	N/A	1	UG/L	N/A	N/A
IT								

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TABLE B.15 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
IT CORPORATION

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
SW7421 - Metals (GFAA)								
Lead	0.005	MG/L	N/A	N/A	0.005	MG/L	N/A	N/A
IT								
SW7740 - Metals (GFAA)								
Selenium	0.005	MG/L	N/A	N/A	2	UG/L	N/A	N/A
IT								
SW7841 - Metals (GFAA)								
Thallium	0.005	MG/L	N/A	N/A	1	UG/L	N/A	N/A
IT								
SW7471 - Metals ([b]CVAA)								
Mercury	0.001	MG/L	N/A	N/A	0.001	UG/L	N/A	N/A
IT								
E300.0 - Wet Chemistry								
Chloride	2	MG/L	N/A	N/A	0.2	MG/L	N/A	N/A
Sulfate	10	MG/L	N/A	N/A	0.2	MG/L	N/A	N/A
IT								
E310.1 - Wet Chemistry								
Alkalinity, Total (as CACO3)	1	MG/L	N/A	N/A	10	MG/L	N/A	N/A
Bicarbonate	10	MG/L	N/A	N/A	10	MG/L	N/A	N/A
Carbonate	25	MG/L	N/A	N/A	10	MG/L	N/A	N/A
IT								
E310.2 - Wet Chemistry								
Alkalinity, Total (as CACO3)	2.5	MG/L	N/A	N/A	10	MG/L	N/A	N/A
IT								
E325.2 - Wet Chemistry								
Chloride	15	MG/L	N/A	N/A	10	MG/L	N/A	N/A
IT								
E353.2 - Wet Chemistry								
Nitrate/Nitrite	0.5	MG/L	N/A	N/A	0.02	MG/L	N/A	N/A
IT								
E375.4 - Wet Chemistry								
Sulfate	10	MG/L	N/A	N/A	0.2	MG/L	N/A	N/A
IT								
E405.1 - Wet Chemistry								
Biological Oxy. Demand, 5 day	1	MG/L	N/A	N/A	0.2	MG/L	N/A	N/A
IT								
E410.4 - Wet Chemistry								
Chemical Oxygen Demand	25	MG/L	N/A	N/A	25	MG/L	N/A	N/A
IT								
E415.1 - Wet Chemistry								
Total Organic Carbon	1	MG/L	N/A	N/A	1	MG/L	N/A	N/A

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TABLE B.15 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
IT CORPORATION

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
IT								
SW7196								
Chromium, hexavalent	0.01	MG/L	N/A	N/A	N/A	N/A	N/A	N/A

[a]LDL = Laboratory detection limit
[b]PRL = Project reporting limit
[c]IT = International Technology
[d]SW = USEPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3RD Edition, (November, 1992)
[e]N/A = Not Applicable
[f]ICP = Inductively Coupled Plasma
[g]GFAA = Graphite Furnace Atomic Adsorption
[h]CVAA = Cold Vapor Atomic Adsorption

TABLE B.16
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
GEOMARINE

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
[c]NDRC								
[d]SW8010 - Volatiles								
Bromodichloromethane	1	UG/L	[e]N/A	N/A	1	UG/L	N/A	N/A
Bromobenzene	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Bromomethane	12	UG/L	N/A	N/A	10	UG/L	N/A	N/A
2-Chloroethyl vinyl ether	3	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Chlorobenzene	3	UG/L	N/A	N/A	2.5	UG/L	N/A	N/A
Chlorotoluene	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Chloroethane	6	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1-Chlorohexane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Chloromethane	5	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Chloromethyl Methyl Ether	5	UG/L	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Dibromochloromethane	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Dibromomethane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1-Dichloroethane	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,2-Dichloroethane	3	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,2-Dichlorobenzene	2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,3-Dichlorobenzene	4	UG/L	N/A	N/A	3	UG/L	N/A	N/A
1,4-Dichlorobenzene	3	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,1-Dichloroethene	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
cis-1,2-Dichloroethene	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
trans-1,2-Dichloroethene	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
cis-1,3-Dichloropropene	2	UG/L	N/A	N/A	5	UG/L	N/A	N/A
trans-1,3-Dichloropropene	2	UG/L	N/A	N/A	3	UG/L	N/A	N/A
1,2-Dichloropropane	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Trichlorofluoromethane	5	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Dichlorodifluoromethane	20	UG/L	N/A	N/A	5	UG/L	N/A	N/A
Methylene chloride	5	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethane	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethene	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Bromoform	2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,1,1,2-Tetrachloroethane	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A
1,1,1-Trichloroethane	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,1,2-Trichloroethane	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Trichloroethene	1	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Chloroform	1	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
Trichloropropane	5	UG/L	N/A	N/A	10	UG/L	N/A	N/A
Vinyl chloride	5	UG/L	N/A	N/A	2	UG/L	N/A	N/A
[f]TALM								
SW8021 - Volatiles								
Benzene	2	UG/L	N/A	N/A	2	UG/L	N/A	N/A

TABLE B.16 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
GEOMARINE

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Toluene	2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,1-Dichloroethane	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,1-Dichloroethene	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
cis-1,2-Dichloroethene	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
trans-1,2-Dichloroethene	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Ethylbenzene	2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
1,1,2,2-Tetrachloroethene	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,1,1-Trichloroethane	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,1,2-Trichloroethane	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Trichloroethene	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Vinyl chloride	2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
Xylene (Total)	2	UG/L	N/A	N/A	2	UG/L	N/A	N/A
TALM								
SW8240 - Volatiles								
Acetone	10	UG/L	1000	UG/KG	100	UG/L	100	UG/KG
Bromodichloromethane	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Bromomethane	5	UG/L	500	UG/KG	10	UG/L	10	UG/KG
Benzene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Toluene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Carbon disulfide	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
2-Chloroethyl vinyl ether	5	UG/L	500	UG/KG	10	UG/L	10	UG/KG
Chlorobenzene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Chloroethane	5	UG/L	500	UG/KG	10	UG/L	10	UG/KG
Chloromethane	5	UG/L	500	UG/KG	10	UG/L	10	UG/KG
Carbon Tetrachloride	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Dibromochloromethane	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,1-Dichloroethane	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,2-Dichloroethane	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,2-Dichlorobenzene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,3-Dichlorobenzene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,4-Dichlorobenzene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,1-Dichloroethene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
cis-1,2-Dichloroethene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
trans-1,2-Dichloroethene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,2-Dichloropropylene	5	UG/L	500	UG/KG	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
trans-1,3-Dichloropropene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Ethylbenzene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Trichlorofluoromethane	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Dichlorodifluoromethane	5	UG/L	500	UG/KG	10	UG/L	10	UG/KG
2-Hexanone	5	UG/L	500	UG/KG	50	UG/L	50	UG/KG
2-Butanone	10	UG/L	1000	UG/KG	100	UG/L	100	UG/KG
4-Methyl-2-Pentanone	5	UG/L	500	UG/KG	50	UG/L	50	UG/KG

TABLE B.16 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
GEOMARINE

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
Methylene chloride	10	UG/L	1000	UG/KG	5	UG/L	5	UG/KG
1,1,2,2-Tetrachloroethane	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,1,2,2-Tetrachloroethene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Styrene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Bromoform	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,1,1,2-Tetrachloroethane	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,1,1-Trichloroethane	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
1,1,2-Trichloroethane	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Trichloroethene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Chloroform	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
Vinyl acetate	5	UG/L	500	UG/KG	50	UG/L	50	UG/KG
Vinyl chloride	5	UG/L	500	UG/KG	10	UG/L	10	UG/KG
m,p-Xylene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
o-Xylene	5	UG/L	500	UG/KG	5	UG/L	5	UG/KG
TALM								
SW8270 - Semivolatiles								
Acenapthene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Acenaphthylene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Anthracene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Benzyl butyl phthalate	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
bis (2-Chloroethoxy) methane	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
bis(2-Chloroethyl)ether	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
bis (2-Chloroisopropyl) ether	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
bis(2-Ethylhexyl)phthalate	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
4-Bromophenyl-phenylether	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Benzo (a) anthracene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Benzoic acid	10	UG/L	330	UG/KG	50	UG/L	1600	UG/KG
Benzo (a) pyrene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Benzo (b) fluoranthene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Benzidine	10	UG/L	330	UG/KG	100	UG/L	N/A	N/A
Benzo(g,h,i)perylene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Benzo(k)fluoranthene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Benzyl alcohol	10	UG/L	330	UG/KG	20	UG/L	1300	UG/KG
4-Chloro-3-mehthylphenol	10	UG/L	330	UG/KG	20	UG/L	1300	UG/KG
Chrysene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
4-Chloroaniline	10	UG/L	330	UG/KG	20	UG/L	1300	UG/KG
2-Chlorophenol	10	UG/L	330	UG/KG	10	UG/L	300	UG/KG
2-Chloronaphthalene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
4-Chlorophenyl phenyl ether	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Dibenz(a,h)anthracene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Dibenzofuran	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
3,3-Dichlorobenzidine	10	UG/L	330	UG/KG	20	UG/L	1300	UG/KG
1,2-Dichlorobenzene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG

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TABLE B.16 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
GEOMARINE

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,3-Dichlorobenzene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
1,4-Dichlorobenzene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
2,4-Dichlorophenol	10	UG/L	330	UG/KG	10	UG/L	300	UG/KG
Diethyl phthalate	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
2,4-Dimethylphenol	10	UG/L	330	UG/KG	10	UG/L	300	UG/KG
Dimethylphthalate	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
4,6-Dinitro-2-methylphenol	10	UG/L	330	UG/KG	50	UG/L	3300	UG/KG
Di-n-butylphthalate	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Di-n-octylphthalate	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
2,4-Dinitrophenol	10	UG/L	330	UG/KG	50	UG/L	3300	UG/KG
2,4-Dinitrotoluene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
2,6-Dinitrotoluene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
1,2-Diphenylhydrazine	10	UG/L	330	UG/KG	N/A	N/A	N/A	N/A
Fluorene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Fluoranthene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Hexachlorobutadiene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Hexachlorocyclopentadiene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Hexachlorobenzene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Hexachloroethane	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Indeno(1,2,3-cd)pyrene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Isophorone	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
2-Methylphenol	10	UG/L	330	UG/KG	10	UG/L	300	UG/KG
4-Methylphenol	10	UG/L	330	UG/KG	10	UG/L	300	UG/KG
2-Methylnapthalene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Napthalene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
N-Nitrosodimethylamine	10	UG/L	330	UG/KG	N/A	N/A	N/A	N/A
n-Nitrosodiphenylamine	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
n-Nitroso-di-n-propylamine	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
2-Nitroaniline	10	UG/L	330	UG/KG	50	UG/L	3300	UG/KG
3-Nitroanaline	10	UG/L	330	UG/KG	50	UG/L	3300	UG/KG
4-Nitroaniline	10	UG/L	330	UG/KG	50	UG/L	3300	UG/KG
Nitrobenzene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
2-Nitrophenol	10	UG/L	330	UG/KG	10	UG/L	300	UG/KG
4-Nitrophenol	10	UG/L	330	UG/KG	50	UG/L	1600	UG/KG
Pentachlorophenol	10	UG/L	330	UG/KG	50	UG/L	3300	UG/KG
Phenanthrene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Phenol	10	UG/L	330	UG/KG	10	UG/L	300	UG/KG
Pyrene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
Pyridine	10	UG/L	330	UG/KG	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	10	UG/L	330	UG/KG	10	UG/L	700	UG/KG
2,4,5-Trichlorophenol	10	UG/L	330	UG/KG	50	UG/L	3300	UG/KG
2,4,6-Trichlorophenol	10	UG/L	330	UG/KG	10	UG/L	300	UG/KG
TALM								

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TABLE B.16 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
GEOMARINE

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
SW6010 - Metals ([g]ICP)								
Silver	0.01	MG/L	500	UG/KG	70	UG/L	7	MG/KG
Beryllium	0.01	MG/L	1000	UG/KG	3	UG/L	0.3	MG/KG
Cadmium	0.01	MG/L	1000	UG/KG	40	UG/L	4	MG/KG
Chromium	0.02	MG/L	1000	UG/KG	70	UG/L	7	MG/KG
Copper	0.02	MG/L	1000	UG/KG	60	UG/L	6	MG/KG
Nickel	0.05	MG/L	1000	UG/KG	150	UG/L	15	MG/KG
Antimony	0.05	MG/L	1000	UG/KG	400	UG/L	40	MG/KG
Zinc	0.05	MG/L	2000	UG/KG	20	UG/L	2	MG/KG
TALM								
SW7060 - Metals ([h]GFAA)								
Arsenic	0.01	MG/L	1000	UG/KG	1	UG/L	1	UG/KG
TALM								
SW7421 - Metals (GFAA)								
Lead	0.0025	MG/L	1000	UG/KG	0.005	MG/L	0.5	MG/KG
TALM								
SW7740 - Metals (GFAA)								
Selenium	0.005	MG/L	1000	UG/KG	2	UG/L	0.5	UG/KG
TALM								
SW7841 - Metals (GFAA)								
Thallium	0.005	MG/L	1000	UG/KG	1	UG/L	0.1	UG/KG
TALM								
A5520C - Wet Chemistry								
Petroleum Hydrocarbons	1	MG/L	10000	UG/KG	1	MG/L	10	MG/KG
TALM								
[i]E418.1 - Wet Chemistry								
Petroleum Hydrocarbons	0.5	MG/L	10000	UG/KG	1	MG/L	30	MG/KG
TALM								
SW9010 - Wet Chemistry								
Cyanide	0.01	MG/L	1000	UG/KG	2	MG/L	N/A	N/A
[j]TGGA								
SW8021 Volatiles								
Benzene	4	UG/L	N/A	N/A	2	UG/L	N/A	N/A
Toluene	5	UG/L	N/A	N/A	2	UG/L	N/A	N/A
Carbon Tetrachloride	3	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,1-Dichloroethane	5	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,1-Dichloroethene	4	UG/L	N/A	N/A	1	UG/L	N/A	N/A
cis-1,2-Dichloroethene	5	UG/L	N/A	N/A	1	UG/L	N/A	N/A
trans-1,2-Dichloroethene	4	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,2-Dichloropropane	5	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Ethylbenzene	5	UG/L	N/A	N/A	2	UG/L	N/A	N/A
Methylene chloride	5	UG/L	N/A	N/A	5	UG/L	N/A	N/A

TABLE B.16 (Continued)
LABORATORY DETECTION LIMITS AND PROJECT REPORTING LIMITS FOR ENVIRONMENTAL SAMPLES
GEOMARINE

Data Quality Assessment
US Air Force Plant 4
Fort Worth, Texas

Lab Code	LABORATORY DETECTION LIMITS				PROJECT REPORTING LIMITS			
Method	WATER		SOIL		WATER		SOIL	
ANALYTE NAME	[a]LDL	Unit	LDL	Unit	[b]PRL	Unit	PRL	Unit
1,1,2,2-Tetrachloroethene	3	UG/L	N/A	N/A	1	UG/L	N/A	N/A
1,1,1-Trichloroethane	4	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Trichloroethene	2	UG/L	N/A	N/A	1	UG/L	N/A	N/A
Chloroform	4	UG/L	N/A	N/A	0.5	UG/L	N/A	N/A
Vinyl chloride	10	UG/L	N/A	N/A	2	UG/L	N/A	N/A
o,m-Xylene	5	UG/L	N/A	N/A	2	UG/L	N/A	N/A
o,p-Xylen	5	UG/L	N/A	N/A	2	UG/L	N/A	N/A
m-Xylene	5	UG/L	N/A	N/A	2	UG/L	N/A	N/A
o-Xylene	5	UG/L	N/A	N/A	2	UG/L	N/A	N/A

[a]LDL = Laboratory detection limit
[b]PRL = Project reporting limit
[c]NDRC = NDRC Laboratories, Richardson, TX
[d]SW = USEPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3RD Edition, (November, 1992)
[e]N/A = Not applicable
[f]TALM = TALEM
[g]ICP = Inductively Coupled Plazma
[f]TALM = TALEM
[h]GFAA = Graphite Furnace Atomic Ads Option
[i]E = The USEPA Methods for Chemical Analysis of Water and Wastes EPA-600/4-79-020 (March, 1983)
[j]TGAA = Trans Global Environmental Geochemistry, Austin, TX

APPENDIX C

IRPIMS BATCH LOADER RESULTS

The reports from the IRPIMS batch file loader were used to evaluate the quality of the databases. The QC summary report identified the types of quality control data present. This information was used to determine the level of validation performed on each analytical method present in the data submitted.

Rust R.I.

IRPIMS Batch File Loader

Summary of Errors and Warnings

258479

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 93-0143 Delivery Order: 51
Contractor: N/A ERROR-N/A
Submission Date: 16-FEB-95 Report Date: Tue Feb 28 00:39:35 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	349	942	42	0	0	1584	4433	121595
Number of Records with Fatal Errors	0	0	5	0	0	0	0	3709
Percentage of Records with Fatal Errors	0.00	0.00	11.90	0.00	0.00	0.00	0.00	3.05
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	5	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	0	0	1247
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Rust R.I.

IRPIMS Batch File Loader

Chemistry Report

Part 5 - QC Summary

258480

Section B - Quality Control sample Count for Soil Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH

Contract: 93-0143 Delivery Order: 51

Contractor: N/A ERROR-N/A

Submission Date: 16-FEB-95 Report Date: Tue Feb 28 00:35:45 1995

Analytical Method	Num. of Samples	Blanks				Replicates		Spikes			Ref		Total
		Amb	Tri	Equ	Lab	Fld	Lab	Blk	Mtx	Sur	Mater	Confer	Analys
Percent Solid	21	0	0	0	0	0	0	0	0	0	0	0	21
Total Cyanide	21	0	0	0	0	0	0	0	0	0	0	0	21
Oil and Grease, Total Recov	203	0	0	0	0	0	0	0	0	0	0	0	203
Petroleum Hydrocarbons, Tot	334	0	0	0	0	0	0	0	0	0	0	0	334
Inductively Coupled Plasma	421	0	0	0	0	0	0	0	0	0	0	0	421
GC/MS for Volatile Organics	553	0	0	0	38	0	51	0	18	0	0	0	660
Volatile Organic Compounds	6	0	0	0	0	0	1	0	0	0	0	0	7
GC/MS for Semivolatile Orga	551	0	0	0	77	0	144	0	56	0	0	0	828

258431

IRPIMS Batch File Loader

Summary of Errors and Warnings

Jacobs Quarterly Monitoring 1st Quarter 1992

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 20-APR-92 Report Date: Tue Mar 7 15:28:25 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	0	171	0	26	0	92	327	7243
Number of Records with Fatal Errors	0	0	0	0	0	9	15	528
Percentage of Records with Fatal Errors	0.00	0.00	0.00	0.00	0.00	9.78	4.59	7.29
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	0	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	3	5	212
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

258482

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Jacobs Quarterly Monitoring 1st Quarter 1992

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 20-APR-92 Report Date: Tue Mar 7 15:28:08 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
Specific Conductance	32	0	0	0	0	0	0	0	0	0	0	0	32
pH, Electrometric	32	0	0	0	0	0	0	0	0	0	0	0	32
Temperature	32	0	0	0	0	0	0	0	0	0	0	0	32
Oil and Grease, Total Recov	10	0	0	2	3	0	6	4	3	0	0	0	28
Petroleum Hydrocarbons, Tot	10	0	0	2	3	0	6	2	3	0	0	0	26
Volatile Organic Compounds	10	0	3	2	3	0	6	3	1	31	0	0	59
Inductively Coupled Plasma	10	0	0	2	2	0	6	2	3	0	0	0	25
Nonhalogenated Volatile Org	9	0	3	2	2	0	6	2	1	0	0	0	25
GC/MS for Volatile Organics	23	1	3	6	4	0	8	4	3	0	0	0	52
GC/MS for Semivolatile Orga	10	0	0	2	4	0	6	5	3	0	0	0	30

258433

Jacobs Quarterly Monitoring 2nd Quarter 1992

File BCHWCI

Detailed Listing of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 04-JUL-92 Report Date: Tue Mar 7 15:35:53 1995

Error/ Warning	Description of Problem with Data	Number of Occurences
Error	Field WELL COMPLETION METHOD CODE (WCMCODE) contained the following invalid codes:	
	WCMCODE	
	UN	2
Warning	Screen length exceeds filter pack (SCRLENGTH > FPL) for the following records:	
	AFIID LOCID SCRLENGTH FPL	
	AFP04 HM-30 9.30 5.50	1
Warning	Seal end depth exceeds screen beginning depth (SEDEPTH > SBDEPTH) for the following records:	
	AFIID LOCID SEDEPTH SBDEPTH	
	AFP04 P-25M 123.00 118.00	1
Error	The following key fields are duplicated within the WELL COMPLETION TABLE (WCI):	
	AFIID LOCID	
	AFP04 HM-100	1
	AFP04 HM-104	1
	AFP04 HM-120	1
	AFP04 HM-121	1
	AFP04 HM-24	1
	AFP04 HM-30	1
	AFP04 HM-31	1
	AFP04 P-10M	1
	AFP04 P-12M	1
	AFP04 P-19US	1
	AFP04 P-22M	1
	AFP04 P-25M	1
	AFP04 P-26M	1
	AFP04 P-30M	1
	AFP04 P-5M	1
	AFP04 P-6M	1
	AFP04 WS-12	1

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Jacobs Quarterly Monitoring 2nd Quarter 1992

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 04-JUL-92 Report Date: Tue Mar 7 15:50:20 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	0	140	18	16	0	72	247	5046
Number of Records with Fatal Errors	0	0	18	18	0	6	6	273
Percentage of Records with Fatal Errors	0.00	0.00	100.00	112.50	0.00	8.33	2.43	5.41
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	18	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	2	0	0	2	2	135
Number of Records with Invalid Dates	0	0	0	0	0	0	0	
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Jacobs Quarterly Monitoring 3rd Quarter 1992

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 28-AUG-92 Report Date: Tue Mar 7 16:12:11 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
Specific Conductance	32	0	0	0	0	0	0	0	0	0	0	0	32
pH, Electrometric	32	0	0	0	0	0	0	0	0	0	0	0	32
Temperature	32	0	0	0	0	0	0	0	0	0	0	0	32
Oil and Grease, Total Recov	1	0	0	0	0	0	0	0	0	0	0	0	1
Oil and Grease, Total Recov	4	0	0	0	1	0	0	1	0	0	0	0	6
Petroleum Hydrocarbons, Tot	5	0	0	0	1	0	2	1	1	0	0	0	10
Volatile Organic Compounds	6	0	1	1	2	0	4	2	1	19	0	0	36
Inductively Coupled Plasma	8	0	0	2	2	0	4	2	2	0	0	0	20
Lead (AA, Furnace Technique	8	0	0	2	2	0	3	2	2	0	0	0	19
Nonhalogenated Volatile Org	6	0	1	1	1	0	2	1	1	0	0	0	13
GC/MS for Volatile Organics	26	1	3	8	5	0	10	5	4	0	0	0	62
GC/MS for Semivolatile Orga	4	0	0	0	2	0	4	2	2	0	0	0	14

Jacobs Quarterly Monitoring 3rd Quarter 1992

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 28-AUG-92 Report Date: Tue Mar 7 16:12:24 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	0	256	25	23	0	99	275	5768
Number of Records with Fatal Errors	0	3	25	25	0	6	6	345
Percentage of Records with Fatal Errors	0.00	1.17	100.00	108.70	0.00	6.06	2.18	5.98
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	25	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	3	2	0	0	2	2	159
Number of Records with Invalid Dates	0	0	0	0	0	0	0	
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Jacobs Quarterly Monitoring 4th Quarter 1992

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 20-NOV-92 Report Date: Tue Mar 7 16:33:19 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
Specific Conductance	31	0	0	0	0	0	0	0	0	0	0	0	31
pH, Electrometric	32	0	0	0	0	0	0	0	0	0	0	0	32
Temperature	32	0	0	0	0	0	0	0	0	0	0	0	32
Oil and Grease, Total Recov	5	0	0	1	1	0	2	1	1	0	0	0	11
Petroleum Hydrocarbons, Tot	5	0	0	1	1	0	2	1	1	0	0	0	11
Volatile Organic Compounds	6	1	1	1	2	0	4	2	1	20	0	0	38
Inductively Coupled Plasma	5	0	0	1	1	0	2	1	1	0	0	0	11
Lead (AA, Furnace Technique	5	0	0	1	1	0	2	1	1	0	0	0	11
Nonhalogenated Volatile Org	6	1	1	1	1	0	2	1	1	0	0	0	14
GC/MS for Volatile Organics	26	1	3	7	5	0	10	5	5	0	0	0	62
GC/MS for Semivolatile Orga	5	0	0	1	1	0	2	1	1	0	0	0	11

Jacobs Quarterly Monitoring 4th Quarter 1992

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 20-NOV-92 Report Date: Tue Mar 7 16:33:32 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	0	237	23	24	0	87	254	5302
Number of Records with Fatal Errors	0	1	23	23	0	3	3	238
Percentage of Records with Fatal Errors	0.00	0.42	100.00	95.83	0.00	3.45	1.18	4.49
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	23	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	1	0	0	0	1	1	122
Number of Records with Invalid Dates	0	0	0	0	0	0	0	
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Jacobs Quarterly Monitoring 1st Quarter 1993

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 19-FEB-93 Report Date: Tue Mar 7 16:55:56 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
Specific Conductance	31	0	0	0	0	0	0	0	0	0	0	0	31
pH, Electrometric	32	0	0	0	0	0	0	0	0	0	0	0	32
Temperature	32	0	0	0	0	0	0	0	0	0	0	0	32
Oil and Grease, Total Recov	6	0	0	1	1	0	2	1	1	0	0	0	12
Petroleum Hydrocarbons, Tot	6	0	0	1	1	0	2	1	1	0	0	0	12
Volatile Organic Compounds	6	1	1	2	2	0	3	3	1	60	0	0	79
Inductively Coupled Plasma	6	0	0	1	1	0	2	1	1	0	0	0	12
Lead (AA, Furnace Technique	6	0	0	1	1	0	2	1	1	0	0	0	12
Nonhalogenated Volatile Org	6	1	1	2	1	0	2	1	1	0	0	0	15
GC/MS for Volatile Organics	26	1	3	7	5	0	10	5	4	130	0	0	191
GC/MS for Semivolatile Orga	6	0	0	1	1	0	2	1	1	78	0	0	90

Jacobs Quarterly Monitoring 1st Quarter 1993

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 19-FEB-93 Report Date: Tue Mar 7 16:56:10 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	0	48	3	24	0	88	269	5764
Number of Records with Fatal Errors	0	0	3	3	0	3	3	176
Percentage of Records with Fatal Errors	0.00	0.00	100.00	12.50	0.00	3.41	1.12	3.05
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	3	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	1	1	102
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Jacobs Quarterly Monitoring 2nd Quarter 1993

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 05-AUG-93 Report Date: Tue Mar 14 22:54:43 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
Oil and Grease, Total Recov	256	0	0	67	14	0	18	0	18	0	14	0	387
Petroleum Hydrocarbons, Tot	256	0	0	67	14	0	17	0	17	0	14	0	385
Volatile Organic Compounds	31	2	11	13	11	0	11	0	11	396	11	0	497
Inductively Coupled Plasma	254	0	0	67	17	0	30	0	30	0	17	0	415
Lead (AA, Furnace Technique	254	0	0	67	18	0	30	0	30	0	18	0	417
Nonhalogenated Volatile Org	34	2	13	15	9	0	9	0	9	99	9	0	199
GC/MS for Volatile Organics	231	7	21	62	35	0	34	0	35	1401	34	0	1860
GC/MS for Semivolatile Orga	255	0	0	67	24	0	33	0	33	2646	24	0	3082

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IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 05-AUG-93 Report Date: Tue Mar 14 22:57:45 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	0	0	0	250	0	603	2869	83421
Number of Records with Fatal Errors	0	0	0	0	0	0	0	466
Percentage of Records with Fatal Errors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	0	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	0	0	479
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Jacobs Quarterly Monitoring 4th Quarter 1993

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 23-NOV-93 Report Date: Wed Mar 8 09:33:02 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
Specific Conductance	32	0	0	0	0	0	0	0	0	0	0	0	32
pH, Electrometric	32	0	0	0	0	0	0	0	0	0	0	0	32
Temperature	32	0	0	0	0	0	0	0	0	0	0	0	32
Oil and Grease, Total Recov	6	0	0	0	0	0	1	0	1	0	0	0	8
Petroleum Hydrocarbons, Tot	5	0	0	0	1	0	1	0	1	0	1	0	9
Volatile Organic Compounds	8	0	1	2	4	0	4	0	4	116	5	0	144
Inductively Coupled Plasma	4	0	0	0	1	0	1	0	1	0	1	0	8
Lead (AA, Furnace Technique	7	0	0	2	1	0	2	0	2	0	1	0	15
Nonhalogenated Volatile Org	8	0	0	2	2	0	2	0	2	21	4	0	41
GC/MS for Volatile Organics	24	1	3	5	6	0	3	0	3	186	7	0	238
GC/MS for Semivolatile Orga	5	0	0	0	1	0	2	0	2	78	2	0	90

Jacobs Quarterly Monitoring 4th Quarter 1993

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 23-NOV-93 Report Date: Wed Mar 8 09:33:19 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	0	0	0	24	0	100	266	6009
Number of Records with Fatal Errors	0	0	0	8	0	8	8	356
Percentage of Records with Fatal Errors	0.00	0.00	0.00	33.33	0.00	8.00	3.01	5.92
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	0	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	8	8	356
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Jacobs Quarterly Monitoring 1st Quarter 1994

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 17-MAR-94 Report Date: Wed Mar 8 10:04:52 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
Specific Conductance	35	0	0	0	0	0	0	0	0	0	0	0	35
pH, Electrometric	35	0	0	0	0	0	0	0	0	0	0	0	35
Temperature	35	0	0	0	0	0	0	0	0	0	0	0	35
Oil and Grease, Total Recov	4	0	0	2	2	0	2	0	2	0	2	0	14
Petroleum Hydrocarbons, Tot	4	0	0	2	2	0	2	0	2	0	2	0	14
Volatile Organic Compounds	8	1	2	2	3	0	2	0	2	108	3	0	131
Inductively Coupled Plasma	6	0	0	3	3	0	2	0	2	0	2	0	18
Lead (AA, Furnace Technique	6	0	0	3	3	0	3	1	2	0	3	0	21
Nonhalogenated Volatile Org	6	1	1	2	2	0	1	0	1	21	4	0	39
GC/MS for Volatile Organics	26	0	2	6	4	0	3	0	3	168	8	0	220
GC/MS for Semivolatile Orga	5	0	0	3	2	0	2	0	2	114	4	0	132

Jacobs Quarterly Monitoring 1st Quarter 1994

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 17-MAR-94 Report Date: Wed Mar 8 10:05:09 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	0	0	0	27	0	117	299	6497
Number of Records with Fatal Errors	0	0	0	6	0	6	6	260
Percentage of Records with Fatal Errors	0.00	0.00	0.00	22.22	0.00	5.13	2.01	4.00
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	0	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	6	6	260
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

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Jacobs Quarterly Monitoring 2nd Quarter 1994

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 18-AUG-94 Report Date: Wed Mar 8 10:34:06 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	0	0	0	22	0	112	314	7216
Number of Records with Fatal Errors	0	0	0	4	0	4	4	230
Percentage of Records with Fatal Errors	0.00	0.00	0.00	18.18	0.00	3.57	1.27	3.19
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	0	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	4	4	230
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Jacobs Quarterly Monitoring 2nd Quarter 1994

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 18-AUG-94 Report Date: Wed Mar 8 10:33:46 1995

Analytical Method	Num. of Samples	Blanks				Replicates		Spikes			Ref		Total #
		Amb	Tri	Equ	Lab	Fld	Lab	Blk	Mtx	Sur	Mater	Confer	Analyses
Specific Conductance	33	0	0	0	0	0	0	0	0	0	0	0	33
pH, Electrometric	33	0	0	0	0	0	0	0	0	0	0	0	33
Temperature	33	0	0	0	0	0	0	0	0	0	0	0	33
Oil and Grease, Total Recov	10	0	0	4	1	0	1	1	1	0	0	0	18
Petroleum Hydrocarbons, Tot	10	0	0	4	1	0	1	1	1	0	0	0	18
Volatile Organic Compounds	5	1	1	3	4	0	5	4	3	106	0	0	132
Inductively Coupled Plasma	7	0	0	3	1	0	2	1	2	0	0	0	16
Lead (AA, Furnace Technique	7	0	0	3	1	0	2	1	2	0	0	0	16
Nonhalogenated Volatile Org	6	1	1	3	1	0	2	1	1	17	0	0	33
GC/MS for Volatile Organics	27	0	2	5	9	0	14	9	5	234	0	0	305
GC/MS for Semivolatile Orga	5	0	0	2	2	0	4	2	2	108	0	0	125

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Jacobs Quarterly Monitoring 3rd Quarter 1994

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 14-NOV-94 Report Date: Wed Mar 8 11:01:29 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	298	0	0	23	0	94	262	5798
Number of Records with Fatal Errors	0	0	0	2	0	2	2	1741
Percentage of Records with Fatal Errors	0.00	0.00	0.00	8.70	0.00	2.13	0.76	30.03
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	0	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	2	2	1677
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Jacobs Quarterly Monitoring 3rd Quarter 1994

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 14-NOV-94 Report Date: Wed Mar 8 11:01:14 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
Specific Conductance	32	0	0	0	0	0	0	0	0	0	0	0	32
pH, Electrometric	32	0	0	0	0	0	0	0	0	0	0	0	32
Temperature	32	0	0	0	0	0	0	0	0	0	0	0	32
Oil and Grease, Total Recov	4	0	0	3	1	0	1	1	1	0	0	0	11
Petroleum Hydrocarbons, Tot	4	0	0	3	1	0	1	1	1	0	0	0	11
Volatile Organic Compounds	6	1	1	3	3	0	3	3	1	88	0	0	109
Inductively Coupled Plasma	6	0	0	3	1	0	1	1	1	0	0	0	13
Lead (AA, Furnace Technique	6	0	0	3	1	0	1	1	1	0	0	0	13
Nonhalogenated Volatile Org	6	1	1	3	1	0	2	1	1	17	0	0	33
GC/MS for Volatile Organics	26	0	2	5	5	0	8	5	3	177	0	0	231
Volatile Organic Compounds	0	0	0	0	1	0	1	1	0	9	0	0	12
GC/MS for Semivolatile Orga	5	0	0	4	1	0	1	1	0	78	0	0	90

258501

Jacobs Quarterly Monitoring 4th Quarter 1994

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 22-FEB-95 Report Date: Fri Mar 3 13:44:59 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	6	0	0	30	0	99	341	7040
Number of Records with Fatal Errors	0	0	0	0	0	0	0	476
Percentage of Records with Fatal Errors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.76
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	0	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	0	0	476
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Jacobs Quarterly Monitoring 4th Quarter 1994

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: 90-4009 Delivery Order: 03
Contractor: N/A ERROR-N/A
Submission Date: 22-FEB-95 Report Date: Fri Mar 3 13:44:41 1995

Analytical Method	Num. of Samples	Blanks				Replicates		Spikes			Ref		Total #
		Amb	Tri	Equ	Lab	Fld	Lab	Blk	Mtx	Sur	Mater	Confer	Analyses
Specific Conductance	38	0	0	0	0	0	0	0	0	0	0	0	38
pH, Electrometric	38	0	0	0	0	0	0	0	0	0	0	0	38
Temperature	38	0	0	0	0	0	0	0	0	0	0	0	38
Oil and Grease, Total Recov	13	0	0	5	2	0	2	2	2	0	0	0	26
Petroleum Hydrocarbons, Tot	13	0	0	5	2	0	2	2	2	0	0	0	26
Volatile Organic Compounds	6	1	2	1	3	0	3	3	0	80	0	0	99
Inductively Coupled Plasma	7	0	0	5	2	0	2	2	2	0	0	0	20
Lead (AA, Furnace Technique	7	0	0	5	2	0	2	2	2	0	0	0	20
Nonhalogenated Volatile Org	6	1	2	1	1	0	1	1	0	14	0	0	27
GC/MS for Volatile Organics	32	0	1	6	5	0	7	5	4	189	0	0	249
GC/MS for Semivolatile Orga	6	0	0	3	3	0	6	3	3	150	0	0	174

258503

IRPIMS Historical Data Loader

Summary of Errors and Warnings

Submission Identification

Base: AIR FORCE PLANT 4

QC Report Date: 20-FEB-95

SCC	Table Name SSI	PTD	STD	GSI	AFI	SLX	
0	Total Number of Records	0	0	32	1	248	0
0	Number of Records with Errors	0	0	0	0	0	0
0	Number of Orphan Records	0	0	0	0	0	0
0	Number of Records with Invalid Codes	0	0	8	1	248	0

	Number of Records with Invalid Times	0	0	0	0	0	0
	Number of Records with Blank Dates	0	0	0	0	0	0
	Number of Records with Blank Numbers	0	0	32	1	0	0

258505

IRPIMS Historical Data Loader

Summary of Errors and Warnings

Submission Identification

Base: AIR FORCE PLANT 4

QC Report Date: 20-FEB-95

Table Name	LDI	LTD	WCI	GWD	CALC	SAMP	TEST	RES
Total Number of Records	655	2201	165	0	0	3337	8109	156726
Number of Records with Errors	0	0	0	0	0	343	343	0
Number of Orphan Records	0	0	0	0	0	41	82	1410
Number of Records with Invalid Codes	535	0	0	0	0	3337	8109	156726

8109	Number of Records with 0 Invalid Times	0	0	0	0	0	3337
8109	Number of Records with 0 Blank Dates	523	0	0	0	0	0
0	Number of Records with 0 0 Blank Numbers	602	0	165	0	0	

Geomarine - QC - Rep1. PS

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: CRSWL CARSWELL AIR FORCE BASE
Contract: DD-0061 Delivery Order: 52
Contractor: N/A ERROR-N/A
Submission Date: 13-MAY-94 Report Date: Wed May 3 16:42:46 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	149	575	9	147	0	259	256	8668
Number of Records with Fatal Errors	0	0	0	0	0	29	256	4334
Percentage of Records with Fatal Errors	0.00	0.00	0.00	0.00	0.00	11.20	100.00	50.00
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	0	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	29	28	476
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Geomarine - QC - Rep1. PS

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: CRSWL CARSWELL AIR FORCE BASE
Contract: DD-0061 Delivery Order: 52
Contractor: N/A ERROR-N/A
Submission Date: 13-MAY-94 Report Date: Wed May 3 16:42:46 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
Halogenated and Aromatic Vo	139	0	15	0	16	0	1	31	1	0	0	0	203

Geomarine - QC - Rep2.PS

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: CRSWL CARSWELL AIR FORCE BASE
Contract: DD-0061 Delivery Order: 52
Contractor: N/A ERROR-N/A
Submission Date: 13-OCT-94 Report Date: Wed May 3 17:18:46 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	104	70	9	100	0	84	101	6972
Number of Records with Fatal Errors	0	0	0	0	0	18	18	802
Percentage of Records with Fatal Errors	0.00	0.00	0.00	0.00	0.00	21.43	17.82	11.50
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	0	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	18	18	765
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Geomarine - QC - Rep2.PS

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: CRSWL CARSWELL AIR FORCE BASE
Contract: DD-0061 Delivery Order: 52
Contractor: N/A ERROR-N/A
Submission Date: 13-OCT-94 Report Date: Wed May 3 17:18:46 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
Halogenated Volatile Organi	31	0	9	0	9	0	0	9	0	87	0	0	145
Halogenated and Aromatic Vo	9	1	1	0	0	0	0	0	0	0	0	0	11

Geomarine - QC - Rep3.PS

IRPIMS Batch File Loader

Summary of Errors and Warnings

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: DD-0061 Delivery Order: 52
Contractor: N/A ERROR-N/A
Submission Date: 06-MAR-95 Report Date: Wed May 3 17:49:17 1995

Table Name	BCHLDI	BCHLTD	BCHWCI	BCHGWD	BCHCALC	BCHSAMP	BCHTEST	BCHRES
Total Number of Records	5	34	5	5	0	141	516	9648
Number of Records with Fatal Errors	0	0	0	0	0	0	0	0
Percentage of Records with Fatal Errors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Number of Records with Duplicate Keys (Within Batch File)	0	0	0	0	0	0	0	0
Number of Records with Duplicate Keys (Between Batch File and Production Data Base)	0	0	0	0	0	0	0	0
Number of Orphan Records	0	0	0	0	0	0	0	0
Number of Records with Invalid Codes	0	0	0	0	0	0	0	0
Number of Records with Invalid Dates	0	0	0	0	0	0	0	0
Number of Records with Invalid Times	0	0	0	0	0	0	0	0

Geomarine - QC - Rep3.PS

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section B - Quality Control sample Count for Soil Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: DD-0061 Delivery Order: 52
Contractor: N/A ERROR-N/A
Submission Date: 06-MAR-95 Report Date: Wed May 3 17:49:07 1995

Analytical Method	Num. of Samples	Blanks				Replicates		Spikes			Ref		Total #
		Amb	Tri	Equ	Lab	Fld	Lab	Blk	Mtx	Sur	Mater	Confer	Analyses
SM5520C-Partition-IR Oil an	23	2	0	0	1	0	2	1	2	0	0	0	31
Petroleum Hydrocarbons, Tot	23	2	0	0	2	0	1	2	1	0	0	0	31
Inductively Coupled Plasma	73	6	0	0	3	0	8	3	8	0	0	0	101
Arsenic, (AA, Furnace Techn	29	2	0	0	2	0	0	2	0	0	0	0	35
Lead (AA, Furnace Technique	27	2	0	0	1	0	1	1	1	0	0	0	33
Selenium (AA, Furnace Techn	27	2	0	0	2	0	1	2	1	0	0	0	35
Thallium (AA, Furnace Techn	23	2	0	0	1	0	2	1	2	0	0	0	31
GC/MS for Volatile Organics	23	2	0	0	3	0	1	3	1	105	0	0	138
GC/MS for Semivolatile Orga	23	2	0	0	2	0	0	2	0	217	0	0	246
Total and Amenable Cyanide	23	1	0	0	5	0	4	5	4	0	0	0	42

258513

Geomarine - QC - Rep3.PS

IRPIMS Batch File Loader
Chemistry Report
Part 5 - QC Summary
Section A - Quality Control Sample Count for Water Matrix

Submission Identification

Base: AFP04 AFP NO. 4 FT WORTH
Contract: DD-0061 Delivery Order: 52
Contractor: N/A ERROR-N/A
Submission Date: 06-MAR-95 Report Date: Wed May 3 17:49:03 1995

Analytical Method	Num. of Samples	Blanks Amb	Blanks Tri	Blanks Equ	Blanks Lab	Replicates Fld	Replicates Lab	Spikes Blk	Spikes Mtx	Spikes Sur	Ref Mater	Confer	Total # Analyses
SM5520C-Partition-IR Oil an	1	1	0	2	1	0	0	1	0	0	0	0	6
Petroleum Hydrocarbons, Tot	1	1	0	2	1	0	0	1	0	0	0	0	6
Inductively Coupled Plasma	3	3	0	6	3	0	2	3	2	0	0	0	22
Arsenic, (AA, Furnace Techn	1	1	0	2	1	0	0	1	0	0	0	0	6
Lead (AA, Furnace Technique	1	1	0	2	1	0	0	1	0	0	0	0	6
Selenium (AA, Furnace Techn	1	1	0	2	1	0	0	1	0	0	0	0	6
Thallium (AA, Furnace Techn	1	1	0	2	1	0	0	1	0	0	0	0	6
GC/MS for Volatile Organics	1	1	1	2	1	0	0	1	0	24	0	0	31
GC/MS for Semivolatile Orga	1	1	0	2	1	0	0	1	0	49	0	0	55
Total and Amenable Cyanide	1	1	0	2	2	0	0	2	0	0	0	0	8

APPENDIX D

AUTOMATED VALIDATION RESULTS

- Rust Geotech Historical
- Rust Geotech Remedial Investigation
- Jacobs Engineering
- Radian Corporation
- US Geological Survey
- IT Corporation
- GeoMarine Corporation

Rust Geotech Historical Data Set
(Project Reporting Limit Results)

RUST HISTORICAL

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: E218.4										
HM-10	(0.0- 0.0)	WG	N	CR6	.0100	=		.05		J
HM-4A	(0.0- 0.0)	WG	N	CR6	.0100	=		.05		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: E245.1										
EPA-1	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
EPA-2	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
EPA-3	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
EPA-4	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
F-214	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
F-217	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
F-217	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
F-220	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
HM-118	(0.0- 0.0)	WG	N	HG	.0002	=		.00		J
HM-28	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
HM-30	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-36	(0.0- 0.0)	WG	N	HG	.0002	=		.00		J
HM-36	(0.0- 0.0)	WG	N	HG	.0002	=		.00		J
HM-42	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-66	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-68	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-68	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-69	(0.0- 0.0)	WG	N	HG	.0002	=		.00		J
HM-69	(0.0- 0.0)	WG	N	HG	.0002	=		.00		J
HM-69	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-71	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-71	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-72	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-73	(0.0- 0.0)	WG	N	HG	.0002	=		.00		J
HM-75	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-79	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: E245.1										
HM-79	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-82	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
HM-83	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
HM-83	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
HM-84	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
HM-84	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
HM-96	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
HM-97	(0.0- 0.0)	WG	N	HG	.0003	=		.00		J
P-6U	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J
P-9U	(0.0- 0.0)	WG	N	HG	.0002	=		.00		J
P-9US	(0.0- 0.0)	WG	N	HG	.0002	=		.00		J
RADRANGE	(0.0- 0.0)	WG	N	HG	.0004	=		.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: E335.2										
HM-79	(0.0- 0.0)	WG	N	CN	.0100	=		.02		J
HM-82	(0.0- 0.0)	WG	N	CN	.0100	=		.02		J
RADRANGE	(0.0- 0.0)	WG	N	CN	.0100	=		.02		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: E340.1										
Dock-17	(0.0- 0.0)	WG	N	F	.1900	=		.20		J
F-216	(0.0- 0.0)	WG	N	F	.1800	=		.20		J
F-219	(0.0- 0.0)	WG	N	F	.1600	=		.20		J
GD RAIN	(0.0- 0.0)	WG	N	F	.0200	=		.20		J
HM-111	(0.0- 0.0)	WG	N	F	.1800	=		.20		J
HM-115	(0.0- 0.0)	WG	N	F	.1600	=		.20		J
HM-116	(0.0- 0.0)	WG	N	F	.1700	=		.20		J
HM-117	(0.0- 0.0)	WG	N	F	.1600	=		.20		J
HM-118	(0.0- 0.0)	WG	N	F	.1600	=		.20		J
HM-119	(0.0- 0.0)	WG	N	F	.1600	=		.20		J
HM-121	(0.0- 0.0)	WG	N	F	.1600	=		.20		J
HM-30	(0.0- 0.0)	WG	N	F	.1600	=		.20		J
HM-32	(0.0- 0.0)	WG	N	F	.1400	=		.20		J
HM-40	(0.0- 0.0)	WG	N	F	.1500	=		.20		J
HM-43	(0.0- 0.0)	WG	N	F	.1000	=		.20		J
HM-56	(0.0- 0.0)	WG	N	F	.1800	=		.20		J
HM-57	(0.0- 0.0)	WG	N	F	.1600	=		.20		J
HM-59	(0.0- 0.0)	WG	N	F	.1500	=		.20		J
HM-69	(0.0- 0.0)	WG	N	F	.1000	=		.20		J
HM-71	(0.0- 0.0)	WG	N	F	.1000	=		.20		J
HM-79	(0.0- 0.0)	WG	N	F	.1000	=		.20		J
HM-79	(0.0- 0.0)	WG	N	F	.1800	=		.20		J
HM-82	(0.0- 0.0)	WG	N	F	.1000	=		.20		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: E340.1										
HM-87	(0.0- 0.0)	WG	N	F	.0800	=		.20		J
HM-88	(0.0- 0.0)	WG	N	F	.1900	=		.20		J
HM-90	(0.0- 0.0)	WG	N	F	.0700	=		.20		J
HM-92	(0.0- 0.0)	WG	N	F	.0900	=		.20		J
HM-96	(0.0- 0.0)	WG	N	F	.1100	=		.20		J
HM-97	(0.0- 0.0)	WG	N	F	.1700	=		.20		J
HM-98	(0.0- 0.0)	WG	N	F	.0900	=		.20		J
HM-98	(0.0- 0.0)	WG	N	F	.1000	=		.20		J
HM-98	(0.0- 0.0)	WG	N	F	.1100	=		.20		J
HM-99	(0.0- 0.0)	WG	N	F	.0600	=		.20		J
HM-99	(0.0- 0.0)	WG	N	F	.0700	=		.20		J
HM-99	(0.0- 0.0)	WG	N	F	.0800	=		.20		J
LAKE WORTH	(0.0- 0.0)	WG	N	F	.1700	=		.20		J
P-15U	(0.0- 0.0)	WG	N	F	.1700	=		.20		J
P-15US	(0.0- 0.0)	WG	N	F	.1700	=		.20		J
P-20M	(0.0- 0.0)	WG	N	F	.1700	=		.20		J
P-21U	(0.0- 0.0)	WG	N	F	.1600	=		.20		J
P-21U	(0.0- 0.0)	WG	N	F	.1700	=		.20		J
P-22U	(0.0- 0.0)	WG	N	F	.1000	=		.20		J
P-22U	(0.0- 0.0)	WG	N	F	.1100	=		.20		J
P-22U	(0.0- 0.0)	WG	N	F	.1400	=		.20		J
P-22U	(0.0- 0.0)	WG	N	F	.1700	=		.20		J
P-23U	(0.0- 0.0)	WG	N	F	.1000	=		.20		J
P-23U	(0.0- 0.0)	WG	N	F	.1100	=		.20		J
P-23U	(0.0- 0.0)	WG	N	F	.1200	=		.20		J
P-24U	(0.0- 0.0)	WG	N	F	.1500	=		.20		J
P-24U	(0.0- 0.0)	WG	N	F	.1800	=		.20		J
P-25M	(0.0- 0.0)	WG	N	F	.1800	=		.20		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: E340.1										
P-26M	(0.0- 0.0)	WG	N	F	.1900	=		.20		J
P-8M	(0.0- 0.0)	WG	N	F	.1600	=		.20		J
P-8UN	(0.0- 0.0)	WG	N	F	.1500	=		.20		J
SO DITCH R	(0.0- 0.0)	WG	N	F	.0500	=		.20		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
C-1	(0.0- 0.0)	WG	N	BA	.0640	=		20.00		J
C-1	(0.0- 0.0)	WG	N	BA	.0850	=		20.00		J
C-1	(0.0- 0.0)	WG	N	CA	96.9000	=		100.00		J
C-1	(0.0- 0.0)	WG	N	CA	99.0000	=		100.00		J
C-1	(0.0- 0.0)	WG	N	FE	.0470	=		70.00		J
C-1	(0.0- 0.0)	WG	N	FE	.1000	=		70.00		J
C-1	(0.0- 0.0)	WG	N	FE	.1200	=		70.00		J
C-1	(0.0- 0.0)	WG	N	K	2.2000	=		5000.00		J
C-1	(0.0- 0.0)	WG	N	K	2.6000	=		5000.00		J
C-1	(0.0- 0.0)	WG	N	MG	8.5000	=		300.00		J
C-1	(0.0- 0.0)	WG	N	MG	9.7000	=		300.00		J
C-1	(0.0- 0.0)	WG	N	NA	33.0000	=		300.00		J
C-1	(0.0- 0.0)	WG	N	NA	60.5000	=		300.00		J
C-1	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
C-2	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
C-2	(0.0- 0.0)	WG	N	CA	92.0000	=		100.00		J
C-2	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
C-2	(0.0- 0.0)	WG	N	CU	.0130	=		60.00		J
C-2	(0.0- 0.0)	WG	N	FE	.0190	=		70.00		J
C-2	(0.0- 0.0)	WG	N	FE	.0900	=		70.00		J
C-2	(0.0- 0.0)	WG	N	FE	.0950	=		70.00		J
C-2	(0.0- 0.0)	WG	N	K	2.3000	=		5000.00		J
C-2	(0.0- 0.0)	WG	N	K	2.5000	=		5000.00		J
C-2	(0.0- 0.0)	WG	N	K	2.7000	=		5000.00		J
C-2	(0.0- 0.0)	WG	N	MG	9.5000	=		300.00		J
C-2	(0.0- 0.0)	WG	N	MG	11.0000	=		300.00		J
C-2	(0.0- 0.0)	WG	N	MG	12.4000	=		300.00		J
C-2	(0.0- 0.0)	WG	N	MN	.0560	=		20.00		J
C-2	(0.0- 0.0)	WG	N	NA	39.0000	=		300.00		J
C-2	(0.0- 0.0)	WG	N	NA	45.0000	=		300.00		J
C-2	(0.0- 0.0)	WG	N	NA	65.1000	=		300.00		J
C-2	(0.0- 0.0)	WG	N	NI	.0070	=		150.00		J
C-2	(0.0- 0.0)	WG	N	NI	.0340	=		150.00		J
C-2	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
C-2	(0.0- 0.0)	WG	N	ZN	.0220	=		20.00		J
C-3	(0.0- 0.0)	WG	N	BA	.0800	=		20.00		J
C-3	(0.0- 0.0)	WG	N	BA	.0840	=		20.00		J
C-3	(0.0- 0.0)	WG	N	CR	.0020	=		70.00		J
C-3	(0.0- 0.0)	WG	N	FE	.0580	=		70.00		J
C-3	(0.0- 0.0)	WG	N	FE	.0880	=		70.00		J
C-3	(0.0- 0.0)	WG	N	K	2.0000	=		5000.00		J
C-3	(0.0- 0.0)	WG	N	MG	11.0000	=		300.00		J
C-3	(0.0- 0.0)	WG	N	MN	.0220	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
C-3	(0.0- 0.0)	WG	N	NA	38.0000	=		300.00		J
C-3	(0.0- 0.0)	WG	N	ZN	.0080	=		20.00		J
C-4	(0.0- 0.0)	WG	N	AG	.0040	=		70.00		J
C-4	(0.0- 0.0)	WG	N	BA	.0630	=		20.00		J
C-4	(0.0- 0.0)	WG	N	BA	.0680	=		20.00		J
C-4	(0.0- 0.0)	WG	N	BE	.0010	=		3.00		J
C-4	(0.0- 0.0)	WG	N	CD	.0040	=		40.00		J
C-4	(0.0- 0.0)	WG	N	CU	.0050	=		60.00		J
C-4	(0.0- 0.0)	WG	N	FE	.2600	=		70.00		J
C-4	(0.0- 0.0)	WG	N	K	1.9000	=		5000.00		J
C-4	(0.0- 0.0)	WG	N	MG	9.7000	=		300.00		J
C-4	(0.0- 0.0)	WG	N	MN	.0260	=		20.00		J
C-4	(0.0- 0.0)	WG	N	NA	36.0000	=		300.00		J
C-4	(0.0- 0.0)	WG	N	NI	.0040	=		150.00		J
C-4	(0.0- 0.0)	WG	N	ZN	.0120	=		20.00		J
C-5	(0.0- 0.0)	WG	N	AG	.0030	=		70.00		J
C-5	(0.0- 0.0)	WG	N	AG	.0150	=		70.00		J
C-5	(0.0- 0.0)	WG	N	AL	.2200	=		500.00		J
C-5	(0.0- 0.0)	WG	N	AS	.0030	=		600.00		J
C-5	(0.0- 0.0)	WG	N	BA	.0710	=		20.00		J
C-5	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
C-5	(0.0- 0.0)	WG	N	CA	39.0000	=		100.00		J
C-5	(0.0- 0.0)	WG	N	CA	80.0000	=		100.00		J
C-5	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
C-5	(0.0- 0.0)	WG	N	CU	.0040	=		60.00		J
C-5	(0.0- 0.0)	WG	N	CU	.0040	=		60.00		J
C-5	(0.0- 0.0)	WG	N	CU	.0160	=		60.00		J
C-5	(0.0- 0.0)	WG	N	CU	.0160	=		60.00		J
C-5	(0.0- 0.0)	WG	N	FE	.0120	=		70.00		J
C-5	(0.0- 0.0)	WG	N	FE	.0350	=		70.00		J
C-5	(0.0- 0.0)	WG	N	FE	.0840	=		70.00		J
C-5	(0.0- 0.0)	WG	N	FE	.1100	=		70.00		J
C-5	(0.0- 0.0)	WG	N	FE	.1200	=		70.00		J
C-5	(0.0- 0.0)	WG	N	FE	.3400	=		70.00		J
C-5	(0.0- 0.0)	WG	N	K	3.4000	=		5000.00		J
C-5	(0.0- 0.0)	WG	N	K	5.5000	=		5000.00		J
C-5	(0.0- 0.0)	WG	N	MG	8.4000	=		300.00		J
C-5	(0.0- 0.0)	WG	N	MG	8.5000	=		300.00		J
C-5	(0.0- 0.0)	WG	N	MN	.0010	=		20.00		J
C-5	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
C-5	(0.0- 0.0)	WG	N	MN	.0030	=		20.00		J
C-5	(0.0- 0.0)	WG	N	MN	.0060	=		20.00		J
C-5	(0.0- 0.0)	WG	N	MN	.0090	=		20.00		J

Field ID	Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010									
C-5 (0.0- 0.0)	WG	N	NA	28.0000	=		300.00		J
C-5 (0.0- 0.0)	WG	N	NA	31.0000	=		300.00		J
Creek Seep (0.0- 0.0)	WG	N	CR	.0020	=		70.00		J
Creek Seep (0.0- 0.0)	WG	N	CR	.0480	=		70.00		J
Creek Seep (0.0- 0.0)	WG	N	CR	.0540	=		70.00		J
Creek Seep (0.0- 0.0)	WG	N	CR	.0790	=		70.00		J
Creek Seep (0.0- 0.0)	WG	N	CU	.0020	=		60.00		J
Creek Seep (0.0- 0.0)	WG	N	CU	.0090	=		60.00		J
Creek Seep (0.0- 0.0)	WG	N	FE	.0090	=		70.00		J
Creek Seep (0.0- 0.0)	WG	N	FE	.0580	=		70.00		J
Creek Seep (0.0- 0.0)	WG	N	FE	.0850	=		70.00		J
Creek Seep (0.0- 0.0)	WG	N	K	1.6000	=		5000.00		J
Creek Seep (0.0- 0.0)	WG	N	K	2.0000	=		5000.00		J
Creek Seep (0.0- 0.0)	WG	N	MG	9.1000	=		300.00		J
Creek Seep (0.0- 0.0)	WG	N	MG	13.0000	=		300.00		J
Creek Seep (0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
Creek Seep (0.0- 0.0)	WG	N	MN	.0040	=		20.00		J
Creek Seep (0.0- 0.0)	WG	N	NA	50.0000	=		300.00		J
Creek Seep (0.0- 0.0)	WG	N	NA	81.0000	=		300.00		J
Creek Seep (0.0- 0.0)	WG	N	ZN	.0340	=		20.00		J
Dock-17 (0.0- 0.0)	WG	N	CR	.0010	=		70.00		J
Dock-17 (0.0- 0.0)	WG	N	FE	.0180	=		70.00		J
Dock-17 (0.0- 0.0)	WG	N	FE	.3900	=		70.00		J
Dock-17 (0.0- 0.0)	WG	N	K	1.2000	=		5000.00		J
Dock-17 (0.0- 0.0)	WG	N	MG	17.0000	=		300.00		J
Dock-17 (0.0- 0.0)	WG	N	MN	.0590	=		20.00		J
Dock-17 (0.0- 0.0)	WG	N	NA	69.0000	=		300.00		J
Dock-17 (0.0- 0.0)	WG	N	NI	.0200	=		150.00		J
Dock-17 (0.0- 0.0)	WG	N	PB	.0050	=		500.00		J
Dock-17 (0.0- 0.0)	WG	N	ZN	.0360	=		20.00		J
Drain Pipe (0.0- 0.0)	WG	N	BA	.0690	=		20.00		J
Drain Pipe (0.0- 0.0)	WG	N	CR	.0370	=		70.00		J
Drain Pipe (0.0- 0.0)	WG	N	FE	3.0000	=		70.00		J
Drain Pipe (0.0- 0.0)	WG	N	MN	1.2000	=		20.00		J
Drain Pipe (0.0- 0.0)	WG	N	ZN	.0180	=		20.00		J
EPA-1 (0.0- 0.0)	WG	N	AG	.0080	=		70.00		J
EPA-1 (0.0- 0.0)	WG	N	AG	.0100	=		70.00		J
EPA-1 (0.0- 0.0)	WG	N	AL	.1100	=		500.00		J
EPA-1 (0.0- 0.0)	WG	N	AL	.1300	=		500.00		J
EPA-1 (0.0- 0.0)	WG	N	AS	.0030	=		600.00		J
EPA-1 (0.0- 0.0)	WG	N	BA	.0140	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
EPA-1	(0.0- 0.0)	WG	N	BA	.0740	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	BE	.0010	=		3.00		J
EPA-1	(0.0- 0.0)	WG	N	BE	.0020	=		3.00		J
EPA-1	(0.0- 0.0)	WG	N	CD	.0070	=		40.00		J
EPA-1	(0.0- 0.0)	WG	N	CD	.0120	=		40.00		J
EPA-1	(0.0- 0.0)	WG	N	CR	.0090	=		70.00		J
EPA-1	(0.0- 0.0)	WG	N	CR	.0120	=		70.00		J
EPA-1	(0.0- 0.0)	WG	N	CR	.0440	=		70.00		J
EPA-1	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
EPA-1	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
EPA-1	(0.0- 0.0)	WG	N	CU	.0280	=		60.00		J
EPA-1	(0.0- 0.0)	WG	N	CU	.0840	=		60.00		J
EPA-1	(0.0- 0.0)	WG	N	FE	.0720	=		70.00		J
EPA-1	(0.0- 0.0)	WG	N	FE	.0740	=		70.00		J
EPA-1	(0.0- 0.0)	WG	N	FE	.0800	=		70.00		J
EPA-1	(0.0- 0.0)	WG	N	FE	.1000	=		70.00		J
EPA-1	(0.0- 0.0)	WG	N	MN	.0080	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	MN	.0130	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	NI	.0090	=		150.00		J
EPA-1	(0.0- 0.0)	WG	N	NI	.0330	=		150.00		J
EPA-1	(0.0- 0.0)	WG	N	PB	.0160	=		500.00		J
EPA-1	(0.0- 0.0)	WG	N	ZN	.0080	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	ZN	.0220	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	ZN	.0600	=		20.00		J
EPA-1	(0.0- 0.0)	WG	N	ZN	.1100	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	AG	.0030	=		70.00		J
EPA-2	(0.0- 0.0)	WG	N	AL	.0760	=		500.00		J
EPA-2	(0.0- 0.0)	WG	N	AL	.1060	=		500.00		J
EPA-2	(0.0- 0.0)	WG	N	AL	.5800	=		500.00		J
EPA-2	(0.0- 0.0)	WG	N	AL	1.3000	=		500.00		J
EPA-2	(0.0- 0.0)	WG	N	BA	.0480	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	BA	.0790	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	BA	.0860	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	BA	.1300	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	CD	.0020	=		40.00		J
EPA-2	(0.0- 0.0)	WG	N	CR	.0030	=		70.00		J
EPA-2	(0.0- 0.0)	WG	N	CR	.0070	=		70.00		J
EPA-2	(0.0- 0.0)	WG	N	CU	.0030	=		60.00		J
EPA-2	(0.0- 0.0)	WG	N	CU	.0070	=		60.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
EPA-2	(0.0- 0.0)	WG	N	CU	.0110	=		60.00		J
EPA-2	(0.0- 0.0)	WG	N	FE	.0550	=		70.00		J
EPA-2	(0.0- 0.0)	WG	N	FE	.2300	=		70.00		J
EPA-2	(0.0- 0.0)	WG	N	FE	.2500	=		70.00		J
EPA-2	(0.0- 0.0)	WG	N	FE	.2600	=		70.00		J
EPA-2	(0.0- 0.0)	WG	N	FE	.2800	=		70.00		J
EPA-2	(0.0- 0.0)	WG	N	FE	.8300	=		70.00		J
EPA-2	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	MN	.0120	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	MN	.0260	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	MN	.0400	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	MN	.0600	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	MN	.0630	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	MN	.0650	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	MN	.1400	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	MN	.2700	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	NI	.0040	=		150.00		J
EPA-2	(0.0- 0.0)	WG	N	NI	.0070	=		150.00		J
EPA-2	(0.0- 0.0)	WG	N	ZN	.0050	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	ZN	.0290	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	ZN	.0540	=		20.00		J
EPA-2	(0.0- 0.0)	WG	N	ZN	.0650	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	AG	.0090	=		70.00		J
EPA-3	(0.0- 0.0)	WG	N	AL	.1200	=		500.00		J
EPA-3	(0.0- 0.0)	WG	N	BA	.0370	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	BE	.0010	=		3.00		J
EPA-3	(0.0- 0.0)	WG	N	CD	.0140	=		40.00		J
EPA-3	(0.0- 0.0)	WG	N	CR	.0090	=		70.00		J
EPA-3	(0.0- 0.0)	WG	N	CR	.0110	=		70.00		J
EPA-3	(0.0- 0.0)	WG	N	CU	.0080	=		60.00		J
EPA-3	(0.0- 0.0)	WG	N	CU	.0130	=		60.00		J
EPA-3	(0.0- 0.0)	WG	N	FE	.0510	=		70.00		J
EPA-3	(0.0- 0.0)	WG	N	FE	.0540	=		70.00		J
EPA-3	(0.0- 0.0)	WG	N	FE	.1000	=		70.00		J
EPA-3	(0.0- 0.0)	WG	N	MN	.0030	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	MN	.0090	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	MN	.0140	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
EPA-3	(0.0- 0.0)	WG	N	NI	.0090	=		150.00		J
EPA-3	(0.0- 0.0)	WG	N	ZN	.0070	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	ZN	.0150	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	ZN	.0170	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
EPA-3	(0.0- 0.0)	WG	N	ZN	.0460	=		20.00		J
EPA-4	(0.0- 0.0)	WG	N	MN	.8600	=		20.00		J
EPA-4	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J
F-200	(0.0- 0.0)	WG	N	BA	.1800	=		20.00		J
F-200	(0.0- 0.0)	WG	N	BA	.1900	=		20.00		J
F-200	(0.0- 0.0)	WG	N	BA	.1900	=		20.00		J
F-200	(0.0- 0.0)	WG	N	CA	64.0000	=		100.00		J
F-200	(0.0- 0.0)	WG	N	CU	.0200	=		60.00		J
F-200	(0.0- 0.0)	WG	N	K	2.4000	=		5000.00		J
F-200	(0.0- 0.0)	WG	N	K	2.6000	=		5000.00		J
F-200	(0.0- 0.0)	WG	N	MG	7.8000	=		300.00		J
F-200	(0.0- 0.0)	WG	N	MG	8.0000	=		300.00		J
F-200	(0.0- 0.0)	WG	N	MN	.6400	=		20.00		J
F-200	(0.0- 0.0)	WG	N	MN	.7300	=		20.00		J
F-200	(0.0- 0.0)	WG	N	NA	100.0000	=		300.00		J
F-200	(0.0- 0.0)	WG	N	NA	104.0000	=		300.00		J
F-201	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
F-201	(0.0- 0.0)	WG	N	BA	.1400	=		20.00		J
F-201	(0.0- 0.0)	WG	N	CA	82.0000	=		100.00		J
F-201	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
F-201	(0.0- 0.0)	WG	N	CU	.0600	=		60.00		J
F-201	(0.0- 0.0)	WG	N	K	1.2000	=		5000.00		J
F-201	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
F-201	(0.0- 0.0)	WG	N	K	1.6000	=		5000.00		J
F-201	(0.0- 0.0)	WG	N	MG	22.0000	=		300.00		J
F-201	(0.0- 0.0)	WG	N	MG	23.0000	=		300.00		J
F-201	(0.0- 0.0)	WG	N	MG	24.0000	=		300.00		J
F-201	(0.0- 0.0)	WG	N	MN	.9300	=		20.00		J
F-201	(0.0- 0.0)	WG	N	MN	1.0000	=		20.00		J
F-201	(0.0- 0.0)	WG	N	MN	1.1000	=		20.00		J
F-201	(0.0- 0.0)	WG	N	NA	53.0000	=		300.00		J
F-201	(0.0- 0.0)	WG	N	NA	53.0000	=		300.00		J
F-201	(0.0- 0.0)	WG	N	NA	54.0000	=		300.00		J
F-201	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-202	(0.0- 0.0)	WG	N	AS	.0100	=		600.00		J
F-202	(0.0- 0.0)	WG	N	AS	.0100	=		600.00		J
F-202	(0.0- 0.0)	WG	N	AS	.0100	=		600.00		J
F-202	(0.0- 0.0)	WG	N	BA	.2300	=		20.00		J
F-202	(0.0- 0.0)	WG	N	BA	.3000	=		20.00		J
F-202	(0.0- 0.0)	WG	N	BA	.3600	=		20.00		J
F-202	(0.0- 0.0)	WG	N	CA	97.0000	=		100.00		J
F-202	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
F-202	(0.0- 0.0)	WG	N	K	1.5000	=		5000.00		J
F-202	(0.0- 0.0)	WG	N	K	1.6000	=		5000.00		J
F-202	(0.0- 0.0)	WG	N	MG	18.0000	=		300.00		J
F-202	(0.0- 0.0)	WG	N	MG	18.0000	=		300.00		J
F-202	(0.0- 0.0)	WG	N	MG	19.0000	=		300.00		J
F-202	(0.0- 0.0)	WG	N	MN	1.9000	=		20.00		J
F-202	(0.0- 0.0)	WG	N	MN	2.0000	=		20.00		J
F-202	(0.0- 0.0)	WG	N	MN	2.1000	=		20.00		J
F-202	(0.0- 0.0)	WG	N	NA	70.0000	=		300.00		J
F-202	(0.0- 0.0)	WG	N	NA	75.0000	=		300.00		J
F-202	(0.0- 0.0)	WG	N	NA	77.0000	=		300.00		J
F-203	(0.0- 0.0)	WG	N	BA	.1400	=		20.00		J
F-203	(0.0- 0.0)	WG	N	BA	.1500	=		20.00		J
F-203	(0.0- 0.0)	WG	N	BA	.1800	=		20.00		J
F-203	(0.0- 0.0)	WG	N	CA	82.0000	=		100.00		J
F-203	(0.0- 0.0)	WG	N	CA	88.0000	=		100.00		J
F-203	(0.0- 0.0)	WG	N	CA	90.0000	=		100.00		J
F-203	(0.0- 0.0)	WG	N	CR	.0500	=		70.00		J
F-203	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
F-203	(0.0- 0.0)	WG	N	CR	.0700	=		70.00		J
F-203	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
F-203	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
F-203	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
F-203	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
F-203	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
F-203	(0.0- 0.0)	WG	N	MG	3.7000	=		300.00		J
F-203	(0.0- 0.0)	WG	N	MG	4.3000	=		300.00		J
F-203	(0.0- 0.0)	WG	N	MN	.0800	=		20.00		J
F-203	(0.0- 0.0)	WG	N	MN	.1400	=		20.00		J
F-203	(0.0- 0.0)	WG	N	MN	.1500	=		20.00		J
F-203	(0.0- 0.0)	WG	N	NA	115.0000	=		300.00		J
F-203	(0.0- 0.0)	WG	N	NA	117.0000	=		300.00		J
F-203	(0.0- 0.0)	WG	N	NA	119.0000	=		300.00		J
F-203	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-204	(0.0- 0.0)	WG	N	BA	.6900	=		20.00		J
F-204	(0.0- 0.0)	WG	N	BA	.9100	=		20.00		J
F-204	(0.0- 0.0)	WG	N	BA	.9700	=		20.00		J
F-204	(0.0- 0.0)	WG	N	FE	.0700	=		70.00		J
F-204	(0.0- 0.0)	WG	N	FE	6.9000	=		70.00		J
F-204	(0.0- 0.0)	WG	N	K	.9000	=		5000.00		J
F-204	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
F-204	(0.0- 0.0)	WG	N	K	3.7000	=		5000.00		J
F-204	(0.0- 0.0)	WG	N	MG	6.2000	=		300.00		J
F-204	(0.0- 0.0)	WG	N	MG	6.7000	=		300.00		J
F-204	(0.0- 0.0)	WG	N	MG	6.8000	=		300.00		J
F-204	(0.0- 0.0)	WG	N	MN	.3000	=		20.00		J
F-204	(0.0- 0.0)	WG	N	MN	.3100	=		20.00		J
F-204	(0.0- 0.0)	WG	N	MN	.3300	=		20.00		J
F-204	(0.0- 0.0)	WG	N	NA	88.0000	=		300.00		J
F-204	(0.0- 0.0)	WG	N	NA	94.0000	=		300.00		J
F-204	(0.0- 0.0)	WG	N	NA	96.0000	=		300.00		J
F-204	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-204	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-205	(0.0- 0.0)	WG	N	BA	.6300	=		20.00		J
F-205	(0.0- 0.0)	WG	N	BA	.8400	=		20.00		J
F-205	(0.0- 0.0)	WG	N	BA	1.5000	=		20.00		J
F-205	(0.0- 0.0)	WG	N	FE	.0900	=		70.00		J
F-205	(0.0- 0.0)	WG	N	FE	.5500	=		70.00		J
F-205	(0.0- 0.0)	WG	N	K	1.0000	=		5000.00		J
F-205	(0.0- 0.0)	WG	N	K	1.3000	=		5000.00		J
F-205	(0.0- 0.0)	WG	N	MG	6.4000	=		300.00		J
F-205	(0.0- 0.0)	WG	N	MG	6.6000	=		300.00		J
F-205	(0.0- 0.0)	WG	N	MN	.6600	=		20.00		J
F-205	(0.0- 0.0)	WG	N	MN	.6900	=		20.00		J
F-205	(0.0- 0.0)	WG	N	MN	.7900	=		20.00		J
F-205	(0.0- 0.0)	WG	N	NA	30.0000	=		300.00		J
F-205	(0.0- 0.0)	WG	N	NA	32.0000	=		300.00		J
F-205	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-206	(0.0- 0.0)	WG	N	BA	.6900	=		20.00		J
F-206	(0.0- 0.0)	WG	N	BA	.9200	=		20.00		J
F-206	(0.0- 0.0)	WG	N	BA	1.0000	=		20.00		J
F-206	(0.0- 0.0)	WG	N	FE	1.0000	=		70.00		J
F-206	(0.0- 0.0)	WG	N	FE	1.2000	=		70.00		J
F-206	(0.0- 0.0)	WG	N	K	2.4000	=		5000.00		J
F-206	(0.0- 0.0)	WG	N	K	2.9000	=		5000.00		J
F-206	(0.0- 0.0)	WG	N	MG	6.1000	=		300.00		J
F-206	(0.0- 0.0)	WG	N	MG	7.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-206	(0.0- 0.0)	WG	N	MN	.5900	=		20.00		J
F-206	(0.0- 0.0)	WG	N	MN	.7700	=		20.00		J
F-206	(0.0- 0.0)	WG	N	MN	.9200	=		20.00		J
F-206	(0.0- 0.0)	WG	N	NA	54.0000	=		300.00		J
F-206	(0.0- 0.0)	WG	N	NA	56.0000	=		300.00		J
F-206	(0.0- 0.0)	WG	N	PB	.0400	=		500.00		J
F-206	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-206	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
F-207	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
F-207	(0.0- 0.0)	WG	N	BA	.1300	=		20.00		J
F-207	(0.0- 0.0)	WG	N	BA	.1400	=		20.00		J
F-207	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
F-207	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
F-207	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
F-207	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
F-207	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
F-207	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
F-207	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
F-207	(0.0- 0.0)	WG	N	K	.7000	=		5000.00		J
F-207	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
F-207	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
F-207	(0.0- 0.0)	WG	N	MG	4.0000	=		300.00		J
F-207	(0.0- 0.0)	WG	N	MG	4.2000	=		300.00		J
F-207	(0.0- 0.0)	WG	N	MG	4.4000	=		300.00		J
F-207	(0.0- 0.0)	WG	N	NA	86.0000	=		300.00		J
F-207	(0.0- 0.0)	WG	N	NA	88.0000	=		300.00		J
F-207	(0.0- 0.0)	WG	N	NA	90.0000	=		300.00		J
F-207	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-208	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
F-208	(0.0- 0.0)	WG	N	CA	68.0000	=		100.00		J
F-208	(0.0- 0.0)	WG	N	CA	96.0000	=		100.00		J
F-208	(0.0- 0.0)	WG	N	K	2.7000	=		5000.00		J
F-208	(0.0- 0.0)	WG	N	K	2.9000	=		5000.00		J
F-208	(0.0- 0.0)	WG	N	MG	5.9000	=		300.00		J
F-208	(0.0- 0.0)	WG	N	MG	6.0000	=		300.00		J
F-208	(0.0- 0.0)	WG	N	NA	24.0000	=		300.00		J
F-208	(0.0- 0.0)	WG	N	NA	27.0000	=		300.00		J
F-209	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
F-209	(0.0- 0.0)	WG	N	BA	.3000	=		20.00		J
F-209	(0.0- 0.0)	WG	N	BA	.4100	=		20.00		J
F-209	(0.0- 0.0)	WG	N	FE	.2600	=		70.00		J
F-209	(0.0- 0.0)	WG	N	K	9.7000	=		5000.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-209	(0.0- 0.0)	WG	N	K	17.0000	=		5000.00		J
F-209	(0.0- 0.0)	WG	N	MG	12.0000	=		300.00		J
F-209	(0.0- 0.0)	WG	N	MG	13.0000	=		300.00		J
F-209	(0.0- 0.0)	WG	N	MN	.2700	=		20.00		J
F-209	(0.0- 0.0)	WG	N	MN	.3000	=		20.00		J
F-209	(0.0- 0.0)	WG	N	MN	.4700	=		20.00		J
F-209	(0.0- 0.0)	WG	N	NA	61.0000	=		300.00		J
F-209	(0.0- 0.0)	WG	N	NA	65.0000	=		300.00		J
F-209	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-210	(0.0- 0.0)	WG	N	AS	.0100	=		600.00		J
F-210	(0.0- 0.0)	WG	N	AS	.0100	=		600.00		J
F-210	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
F-210	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
F-210	(0.0- 0.0)	WG	N	CA	91.0000	=		100.00		J
F-210	(0.0- 0.0)	WG	N	CA	93.0000	=		100.00		J
F-210	(0.0- 0.0)	WG	N	K	1.5000	=		5000.00		J
F-210	(0.0- 0.0)	WG	N	K	1.8000	=		5000.00		J
F-210	(0.0- 0.0)	WG	N	MG	19.0000	=		300.00		J
F-210	(0.0- 0.0)	WG	N	MG	22.0000	=		300.00		J
F-210	(0.0- 0.0)	WG	N	MN	1.1000	=		20.00		J
F-210	(0.0- 0.0)	WG	N	MN	1.1000	=		20.00		J
F-210	(0.0- 0.0)	WG	N	NA	115.0000	=		300.00		J
F-210	(0.0- 0.0)	WG	N	NA	119.0000	=		300.00		J
F-210	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
F-211	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
F-211	(0.0- 0.0)	WG	N	CA	64.0000	=		100.00		J
F-211	(0.0- 0.0)	WG	N	CA	67.0000	=		100.00		J
F-211	(0.0- 0.0)	WG	N	CA	71.0000	=		100.00		J
F-211	(0.0- 0.0)	WG	N	CR	.1190	=		70.00		J
F-211	(0.0- 0.0)	WG	N	CR	.1530	=		70.00		J
F-211	(0.0- 0.0)	WG	N	CR	.2000	=		70.00		J
F-211	(0.0- 0.0)	WG	N	CR	.2000	=		70.00		J
F-211	(0.0- 0.0)	WG	N	CR	.2000	=		70.00		J
F-211	(0.0- 0.0)	WG	N	CR	.2100	=		70.00		J
F-211	(0.0- 0.0)	WG	N	CR	.2200	=		70.00		J
F-211	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
F-211	(0.0- 0.0)	WG	N	K	.9000	=		5000.00		J
F-211	(0.0- 0.0)	WG	N	K	.9000	=		5000.00		J
F-211	(0.0- 0.0)	WG	N	MG	2.3000	=		300.00		J
F-211	(0.0- 0.0)	WG	N	MG	2.4000	=		300.00		J
F-211	(0.0- 0.0)	WG	N	MG	2.5000	=		300.00		J
F-211	(0.0- 0.0)	WG	N	NA	160.0000	=		300.00		J
F-211	(0.0- 0.0)	WG	N	NA	168.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-211	(0.0- 0.0)	WG	N	NA	170.0000	=		300.00		J
F-212	(0.0- 0.0)	WG	N	K	4.3000	=		5000.00		J
F-212	(0.0- 0.0)	WG	N	K	4.4000	=		5000.00		J
F-212	(0.0- 0.0)	WG	N	K	4.4000	=		5000.00		J
F-212	(0.0- 0.0)	WG	N	MG	12.0000	=		300.00		J
F-212	(0.0- 0.0)	WG	N	MG	23.0000	=		300.00		J
F-212	(0.0- 0.0)	WG	N	MG	25.0000	=		300.00		J
F-212	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
F-212	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
F-212	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
F-212	(0.0- 0.0)	WG	N	NA	154.0000	=		300.00		J
F-212	(0.0- 0.0)	WG	N	NA	202.0000	=		300.00		J
F-212	(0.0- 0.0)	WG	N	NA	204.0000	=		300.00		J
F-213	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
F-213	(0.0- 0.0)	WG	N	K	2.3000	=		5000.00		J
F-213	(0.0- 0.0)	WG	N	MG	27.0000	=		300.00		J
F-213	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
F-213	(0.0- 0.0)	WG	N	MN	.2900	=		20.00		J
F-213	(0.0- 0.0)	WG	N	MN	.3500	=		20.00		J
F-213	(0.0- 0.0)	WG	N	NA	56.0000	=		300.00		J
F-213	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-213	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-213	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
F-214	(0.0- 0.0)	WG	N	CD	.0050	=		40.00		J
F-214	(0.0- 0.0)	WG	N	CU	.0600	=		60.00		J
F-214	(0.0- 0.0)	WG	N	FE	.0600	=		70.00		J
F-214	(0.0- 0.0)	WG	N	K	11.0000	=		5000.00		J
F-214	(0.0- 0.0)	WG	N	MG	260.0000	=		300.00		J
F-214	(0.0- 0.0)	WG	N	MN	1.9000	=		20.00		J
F-214	(0.0- 0.0)	WG	N	NI	.0600	=		150.00		J
F-214	(0.0- 0.0)	WG	N	PB	.0700	=		500.00		J
F-214	(0.0- 0.0)	WG	N	TL	.5000	=		400.00		J
F-214	(0.0- 0.0)	WG	N	ZN	.0800	=		20.00		J
F-215	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
F-215	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
F-215	(0.0- 0.0)	WG	N	BA	.1300	=		20.00		J
F-215	(0.0- 0.0)	WG	N	CA	72.0000	=		100.00		J
F-215	(0.0- 0.0)	WG	N	CR	.0800	=		70.00		J
F-215	(0.0- 0.0)	WG	N	CR	.1100	=		70.00		J
F-215	(0.0- 0.0)	WG	N	CR	.1120	=		70.00		J
F-215	(0.0- 0.0)	WG	N	CR	.1200	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-215	(0.0- 0.0)	WG	N	CR	.1300	=		70.00		J
F-215	(0.0- 0.0)	WG	N	CR	.1400	=		70.00		J
F-215	(0.0- 0.0)	WG	N	CR	.1400	=		70.00		J
F-215	(0.0- 0.0)	WG	N	CR	.1600	=		70.00		J
F-215	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
F-215	(0.0- 0.0)	WG	N	CU	.0300	=		60.00		J
F-215	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
F-215	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
F-215	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
F-215	(0.0- 0.0)	WG	N	MG	3.2000	=		300.00		J
F-215	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
F-215	(0.0- 0.0)	WG	N	MG	3.7000	=		300.00		J
F-215	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
F-215	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
F-215	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
F-215	(0.0- 0.0)	WG	N	NA	169.0000	=		300.00		J
F-215	(0.0- 0.0)	WG	N	NA	178.0000	=		300.00		J
F-215	(0.0- 0.0)	WG	N	NA	179.0000	=		300.00		J
F-216	(0.0- 0.0)	WG	N	K	1.2000	=		5000.00		J
F-216	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
F-216	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
F-216	(0.0- 0.0)	WG	N	MG	14.0000	=		300.00		J
F-216	(0.0- 0.0)	WG	N	MG	16.0000	=		300.00		J
F-216	(0.0- 0.0)	WG	N	MG	20.0000	=		300.00		J
F-216	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
F-216	(0.0- 0.0)	WG	N	MN	.1800	=		20.00		J
F-216	(0.0- 0.0)	WG	N	MN	.2200	=		20.00		J
F-216	(0.0- 0.0)	WG	N	NA	205.0000	=		300.00		J
F-216	(0.0- 0.0)	WG	N	NA	247.0000	=		300.00		J
F-216	(0.0- 0.0)	WG	N	NA	271.0000	=		300.00		J
F-217	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
F-217	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
F-217	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
F-217	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
F-217	(0.0- 0.0)	WG	N	CU	.0240	=		60.00		J
F-217	(0.0- 0.0)	WG	N	CU	.5800	=		60.00		J
F-217	(0.0- 0.0)	WG	N	K	18.0000	=		5000.00		J
F-217	(0.0- 0.0)	WG	N	K	20.0000	=		5000.00		J
F-217	(0.0- 0.0)	WG	N	K	23.0000	=		5000.00		J
F-217	(0.0- 0.0)	WG	N	MG	45.0000	=		300.00		J
F-217	(0.0- 0.0)	WG	N	MG	50.0000	=		300.00		J
F-217	(0.0- 0.0)	WG	N	MG	50.0000	=		300.00		J
F-217	(0.0- 0.0)	WG	N	MN	.2510	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-217	(0.0- 0.0)	WG	N	MN	.3300	=		20.00		J
F-217	(0.0- 0.0)	WG	N	MN	.3500	=		20.00		J
F-217	(0.0- 0.0)	WG	N	MN	.3800	=		20.00		J
F-217	(0.0- 0.0)	WG	N	MN	.3850	=		20.00		J
F-217	(0.0- 0.0)	WG	N	MN	.3900	=		20.00		J
F-217	(0.0- 0.0)	WG	N	MN	.4800	=		20.00		J
F-217	(0.0- 0.0)	WG	N	MN	.5000	=		20.00		J
F-217	(0.0- 0.0)	WG	N	NA	283.0000	=		300.00		J
F-217	(0.0- 0.0)	WG	N	NA	285.0000	=		300.00		J
F-217	(0.0- 0.0)	WG	N	PB	.0230	=		500.00		J
F-217	(0.0- 0.0)	WG	N	PB	.0300	=		500.00		J
F-217	(0.0- 0.0)	WG	N	PB	.0300	=		500.00		J
F-217	(0.0- 0.0)	WG	N	PB	.0400	=		500.00		J
F-217	(0.0- 0.0)	WG	N	PB	.0400	=		500.00		J
F-217	(0.0- 0.0)	WG	N	PB	.0600	=		500.00		J
F-217	(0.0- 0.0)	WG	N	PB	.0600	=		500.00		J
F-217	(0.0- 0.0)	WG	N	PB	.1930	=		500.00		J
F-217	(0.0- 0.0)	WG	N	SB	.1000	=		400.00		J
F-217	(0.0- 0.0)	WG	N	SB	.1500	=		400.00		J
F-217	(0.0- 0.0)	WG	N	SB	.1500	=		400.00		J
F-217	(0.0- 0.0)	WG	N	SB	.1800	=		400.00		J
F-217	(0.0- 0.0)	WG	N	SB	.1800	=		400.00		J
F-217	(0.0- 0.0)	WG	N	ZN	.0150	=		20.00		J
F-217	(0.0- 0.0)	WG	N	ZN	.0160	=		20.00		J
F-217	(0.0- 0.0)	WG	N	ZN	.0220	=		20.00		J
F-217	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
F-217	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
F-217	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
F-217	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J
F-217	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J
F-217	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J
F-218	(0.0- 0.0)	WG	N	CA	86.0000	=		100.00		J
F-218	(0.0- 0.0)	WG	N	CA	90.0000	=		100.00		J
F-218	(0.0- 0.0)	WG	N	CA	90.0000	=		100.00		J
F-218	(0.0- 0.0)	WG	N	CA	97.0000	=		100.00		J
F-218	(0.0- 0.0)	WG	N	CR	.0360	=		70.00		J
F-218	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
F-218	(0.0- 0.0)	WG	N	CR	.1400	=		70.00		J
F-218	(0.0- 0.0)	WG	N	CR	.1600	=		70.00		J
F-218	(0.0- 0.0)	WG	N	CR	.1600	=		70.00		J
F-218	(0.0- 0.0)	WG	N	CR	.1700	=		70.00		J
F-218	(0.0- 0.0)	WG	N	CR	.1700	=		70.00		J
F-218	(0.0- 0.0)	WG	N	CR	.1800	=		70.00		J
F-218	(0.0- 0.0)	WG	N	CR	.2920	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-218	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
F-218	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
F-218	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
F-218	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
F-218	(0.0- 0.0)	WG	N	MG	2.5000	=		300.00		J
F-218	(0.0- 0.0)	WG	N	MG	2.6000	=		300.00		J
F-218	(0.0- 0.0)	WG	N	MG	2.6000	=		300.00		J
F-218	(0.0- 0.0)	WG	N	MG	2.8000	=		300.00		J
F-218	(0.0- 0.0)	WG	N	NA	28.0000	=		300.00		J
F-218	(0.0- 0.0)	WG	N	NA	29.0000	=		300.00		J
F-218	(0.0- 0.0)	WG	N	NA	30.0000	=		300.00		J
F-218	(0.0- 0.0)	WG	N	NA	33.0000	=		300.00		J
F-218	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-218	(0.0- 0.0)	WG	N	ZN	.0150	=		20.00		J
F-219	(0.0- 0.0)	WG	N	K	4.5000	=		5000.00		J
F-219	(0.0- 0.0)	WG	N	K	9.9000	=		5000.00		J
F-219	(0.0- 0.0)	WG	N	K	11.0000	=		5000.00		J
F-219	(0.0- 0.0)	WG	N	K	15.0000	=		5000.00		J
F-219	(0.0- 0.0)	WG	N	MG	24.0000	=		300.00		J
F-219	(0.0- 0.0)	WG	N	MG	25.0000	=		300.00		J
F-219	(0.0- 0.0)	WG	N	MG	30.0000	=		300.00		J
F-219	(0.0- 0.0)	WG	N	MG	30.0000	=		300.00		J
F-219	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
F-219	(0.0- 0.0)	WG	N	NA	59.0000	=		300.00		J
F-219	(0.0- 0.0)	WG	N	NA	59.0000	=		300.00		J
F-219	(0.0- 0.0)	WG	N	NA	63.0000	=		300.00		J
F-219	(0.0- 0.0)	WG	N	NA	64.0000	=		300.00		J
F-219	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-219	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-220	(0.0- 0.0)	WG	N	AS	.0100	=		600.00		J
F-220	(0.0- 0.0)	WG	N	BA	.4900	=		20.00		J
F-220	(0.0- 0.0)	WG	N	BA	.5800	=		20.00		J
F-220	(0.0- 0.0)	WG	N	BA	.7200	=		20.00		J
F-220	(0.0- 0.0)	WG	N	BA	1.0510	=		20.00		J
F-220	(0.0- 0.0)	WG	N	BA	1.2000	=		20.00		J
F-220	(0.0- 0.0)	WG	N	BA	1.3000	=		20.00		J
F-220	(0.0- 0.0)	WG	N	BA	1.3200	=		20.00		J
F-220	(0.0- 0.0)	WG	N	BA	1.4600	=		20.00		J
F-220	(0.0- 0.0)	WG	N	CD	.0050	=		40.00		J
F-220	(0.0- 0.0)	WG	N	CD	.0060	=		40.00		J
F-220	(0.0- 0.0)	WG	N	CR	.0220	=		70.00		J
F-220	(0.0- 0.0)	WG	N	CR	.0220	=		70.00		J
F-220	(0.0- 0.0)	WG	N	CR	.0380	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-220	(0.0- 0.0)	WG	N	CR	.1200	=		70.00		J
F-220	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
F-220	(0.0- 0.0)	WG	N	CR	.1600	=		70.00		J
F-220	(0.0- 0.0)	WG	N	CR	.1700	=		70.00		J
F-220	(0.0- 0.0)	WG	N	CR	.5600	=		70.00		J
F-220	(0.0- 0.0)	WG	N	CR	1.5000	=		70.00		J
F-220	(0.0- 0.0)	WG	N	CR	1.6000	=		70.00		J
F-220	(0.0- 0.0)	WG	N	CR	1.7000	=		70.00		J
F-220	(0.0- 0.0)	WG	N	CU	.0290	=		60.00		J
F-220	(0.0- 0.0)	WG	N	CU	.0410	=		60.00		J
F-220	(0.0- 0.0)	WG	N	CU	.0480	=		60.00		J
F-220	(0.0- 0.0)	WG	N	CU	.0800	=		60.00		J
F-220	(0.0- 0.0)	WG	N	CU	.0900	=		60.00		J
F-220	(0.0- 0.0)	WG	N	CU	.1900	=		60.00		J
F-220	(0.0- 0.0)	WG	N	CU	.1900	=		60.00		J
F-220	(0.0- 0.0)	WG	N	CU	.2200	=		60.00		J
F-220	(0.0- 0.0)	WG	N	FE	.3030	=		70.00		J
F-220	(0.0- 0.0)	WG	N	FE	.5000	=		70.00		J
F-220	(0.0- 0.0)	WG	N	FE	.5040	=		70.00		J
F-220	(0.0- 0.0)	WG	N	FE	.7400	=		70.00		J
F-220	(0.0- 0.0)	WG	N	FE	.7500	=		70.00		J
F-220	(0.0- 0.0)	WG	N	FE	.9000	=		70.00		J
F-220	(0.0- 0.0)	WG	N	FE	1.0000	=		70.00		J
F-220	(0.0- 0.0)	WG	N	FE	1.0000	=		70.00		J
F-220	(0.0- 0.0)	WG	N	K	5.7000	=		5000.00		J
F-220	(0.0- 0.0)	WG	N	K	6.3000	=		5000.00		J
F-220	(0.0- 0.0)	WG	N	K	6.9000	=		5000.00		J
F-220	(0.0- 0.0)	WG	N	MG	48.0000	=		300.00		J
F-220	(0.0- 0.0)	WG	N	MG	54.0000	=		300.00		J
F-220	(0.0- 0.0)	WG	N	MG	59.0000	=		300.00		J
F-220	(0.0- 0.0)	WG	N	MN	.2400	=		20.00		J
F-220	(0.0- 0.0)	WG	N	MN	.2900	=		20.00		J
F-220	(0.0- 0.0)	WG	N	MN	.3500	=		20.00		J
F-220	(0.0- 0.0)	WG	N	MN	.4480	=		20.00		J
F-220	(0.0- 0.0)	WG	N	MN	.5000	=		20.00		J
F-220	(0.0- 0.0)	WG	N	MN	.5700	=		20.00		J
F-220	(0.0- 0.0)	WG	N	MN	.5830	=		20.00		J
F-220	(0.0- 0.0)	WG	N	MN	.6830	=		20.00		J
F-220	(0.0- 0.0)	WG	N	MO	.1580	=		80.00		J
F-220	(0.0- 0.0)	WG	N	MO	.2100	=		80.00		J
F-220	(0.0- 0.0)	WG	N	MO	.2230	=		80.00		J
F-220	(0.0- 0.0)	WG	N	MO	.4100	=		80.00		J
F-220	(0.0- 0.0)	WG	N	MO	.4300	=		80.00		J
F-220	(0.0- 0.0)	WG	N	MO	.5800	=		80.00		J
F-220	(0.0- 0.0)	WG	N	MO	.6800	=		80.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-220	(0.0- 0.0)	WG	N	MO	.6800	=		80.00		J
F-220	(0.0- 0.0)	WG	N	NI	.0770	=		150.00		J
F-220	(0.0- 0.0)	WG	N	NI	.0960	=		150.00		J
F-220	(0.0- 0.0)	WG	N	NI	.1000	=		150.00		J
F-220	(0.0- 0.0)	WG	N	NI	.1200	=		150.00		J
F-220	(0.0- 0.0)	WG	N	NI	.1270	=		150.00		J
F-220	(0.0- 0.0)	WG	N	NI	.1300	=		150.00		J
F-220	(0.0- 0.0)	WG	N	NI	.1600	=		150.00		J
F-220	(0.0- 0.0)	WG	N	ZN	.0110	=		20.00		J
F-220	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
F-220	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
F-220	(0.0- 0.0)	WG	N	ZN	.1300	=		20.00		J
F-220	(0.0- 0.0)	WG	N	ZN	3.6000	=		20.00		J
F-221	(0.0- 0.0)	WG	N	BA	.1500	=		20.00		J
F-221	(0.0- 0.0)	WG	N	BA	.1600	=		20.00		J
F-221	(0.0- 0.0)	WG	N	BA	.1800	=		20.00		J
F-221	(0.0- 0.0)	WG	N	CU	.2200	=		60.00		J
F-221	(0.0- 0.0)	WG	N	K	.6000	=		5000.00		J
F-221	(0.0- 0.0)	WG	N	K	.7000	=		5000.00		J
F-221	(0.0- 0.0)	WG	N	K	.7000	=		5000.00		J
F-221	(0.0- 0.0)	WG	N	MG	5.1000	=		300.00		J
F-221	(0.0- 0.0)	WG	N	MG	5.1000	=		300.00		J
F-221	(0.0- 0.0)	WG	N	MG	5.3000	=		300.00		J
F-221	(0.0- 0.0)	WG	N	MN	.0400	=		20.00		J
F-221	(0.0- 0.0)	WG	N	MN	.8600	=		20.00		J
F-221	(0.0- 0.0)	WG	N	MN	.8900	=		20.00		J
F-221	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
F-221	(0.0- 0.0)	WG	N	NA	46.0000	=		300.00		J
F-221	(0.0- 0.0)	WG	N	NA	48.0000	=		300.00		J
F-221	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-222	(0.0- 0.0)	WG	N	AS	.0100	=		600.00		J
F-222	(0.0- 0.0)	WG	N	BA	.5900	=		20.00		J
F-222	(0.0- 0.0)	WG	N	BA	.9100	=		20.00		J
F-222	(0.0- 0.0)	WG	N	BA	1.0500	=		20.00		J
F-222	(0.0- 0.0)	WG	N	CA	92.0000	=		100.00		J
F-222	(0.0- 0.0)	WG	N	CA	92.0000	=		100.00		J
F-222	(0.0- 0.0)	WG	N	CA	94.0000	=		100.00		J
F-222	(0.0- 0.0)	WG	N	CU	.5500	=		60.00		J
F-222	(0.0- 0.0)	WG	N	FE	.4100	=		70.00		J
F-222	(0.0- 0.0)	WG	N	K	.6000	=		5000.00		J
F-222	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
F-222	(0.0- 0.0)	WG	N	K	1.0000	=		5000.00		J
F-222	(0.0- 0.0)	WG	N	MG	20.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
F-222	(0.0- 0.0)	WG	N	MG	20.0000	=		300.00		J
F-222	(0.0- 0.0)	WG	N	MG	21.0000	=		300.00		J
F-222	(0.0- 0.0)	WG	N	MN	.3800	=		20.00		J
F-222	(0.0- 0.0)	WG	N	MN	.3800	=		20.00		J
F-222	(0.0- 0.0)	WG	N	MN	.4400	=		20.00		J
F-222	(0.0- 0.0)	WG	N	NA	90.0000	=		300.00		J
F-222	(0.0- 0.0)	WG	N	NA	92.0000	=		300.00		J
F-222	(0.0- 0.0)	WG	N	NA	92.0000	=		300.00		J
F-222	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
F-222	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
F-223	(0.0- 0.0)	WG	N	AS	.0110	=		600.00		J
F-223	(0.0- 0.0)	WG	N	AS	.0200	=		600.00		J
F-223	(0.0- 0.0)	WG	N	AS	.0300	=		600.00		J
F-223	(0.0- 0.0)	WG	N	BA	.1500	=		20.00		J
F-223	(0.0- 0.0)	WG	N	BA	.1600	=		20.00		J
F-223	(0.0- 0.0)	WG	N	BA	.1800	=		20.00		J
F-223	(0.0- 0.0)	WG	N	CA	85.0000	=		100.00		J
F-223	(0.0- 0.0)	WG	N	CA	88.0000	=		100.00		J
F-223	(0.0- 0.0)	WG	N	FE	.6700	=		70.00		J
F-223	(0.0- 0.0)	WG	N	K	1.0000	=		5000.00		J
F-223	(0.0- 0.0)	WG	N	K	1.2000	=		5000.00		J
F-223	(0.0- 0.0)	WG	N	MG	29.0000	=		300.00		J
F-223	(0.0- 0.0)	WG	N	MG	32.0000	=		300.00		J
F-223	(0.0- 0.0)	WG	N	MN	.3300	=		20.00		J
F-223	(0.0- 0.0)	WG	N	MN	.4700	=		20.00		J
F-223	(0.0- 0.0)	WG	N	MN	.8800	=		20.00		J
F-223	(0.0- 0.0)	WG	N	NA	127.0000	=		300.00		J
F-223	(0.0- 0.0)	WG	N	NA	131.0000	=		300.00		J
F-223	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
FRDRN#2	(0.0- 0.0)	WG	N	AL	.0500	=		500.00		J
FRDRN#2	(0.0- 0.0)	WG	N	BA	.0670	=		20.00		J
FRDRN#2	(0.0- 0.0)	WG	N	CU	.0610	=		60.00		J
FRDRN#2	(0.0- 0.0)	WG	N	MN	.1490	=		20.00		J
FRDRN#2	(0.0- 0.0)	WG	N	ZN	.2010	=		20.00		J
GD RAIN	(0.0- 0.0)	WG	N	CA	4.1000	=		100.00		J
GD RAIN	(0.0- 0.0)	WG	N	K	2.8000	=		5000.00		J
GD RAIN	(0.0- 0.0)	WG	N	MG	.1300	=		300.00		J
GD RAIN	(0.0- 0.0)	WG	N	NA	6.0000	=		300.00		J
HM-1	(0.0- 0.0)	WG	N	AG	.0200	=		70.00		J
HM-1	(0.0- 0.0)	WG	N	AS	.2800	=		600.00		J
HM-1	(0.0- 0.0)	WG	N	AS	.3100	=		600.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-1	(0.0- 0.0)	WG	N	AS	.4300	=		600.00		J
HM-1	(0.0- 0.0)	WG	N	BE	.0020	=		3.00		J
HM-1	(0.0- 0.0)	WG	N	BE	.0020	=		3.00		J
HM-1	(0.0- 0.0)	WG	N	CA	2.9000	=		100.00		J
HM-1	(0.0- 0.0)	WG	N	CA	3.5300	=		100.00		J
HM-1	(0.0- 0.0)	WG	N	CD	.0050	=		40.00		J
HM-1	(0.0- 0.0)	WG	N	CD	.0150	=		40.00		J
HM-1	(0.0- 0.0)	WG	N	CR	37.0000	=		70.00		J
HM-1	(0.0- 0.0)	WG	N	CR	44.9000	=		70.00		J
HM-1	(0.0- 0.0)	WG	N	CR	45.7000	=		70.00		J
HM-1	(0.0- 0.0)	WG	N	CU	.6700	=		60.00		J
HM-1	(0.0- 0.0)	WG	N	CU	.7500	=		60.00		J
HM-1	(0.0- 0.0)	WG	N	CU	.7800	=		60.00		J
HM-1	(0.0- 0.0)	WG	N	FE	1.5400	=		70.00		J
HM-1	(0.0- 0.0)	WG	N	FE	1.8300	=		70.00		J
HM-1	(0.0- 0.0)	WG	N	FE	2.0000	=		70.00		J
HM-1	(0.0- 0.0)	WG	N	K	6.8000	=		5000.00		J
HM-1	(0.0- 0.0)	WG	N	K	7.4000	=		5000.00		J
HM-1	(0.0- 0.0)	WG	N	MG	.7000	=		300.00		J
HM-1	(0.0- 0.0)	WG	N	MG	1.5800	=		300.00		J
HM-1	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-1	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-1	(0.0- 0.0)	WG	N	MN	.0260	=		20.00		J
HM-1	(0.0- 0.0)	WG	N	NI	.0700	=		150.00		J
HM-1	(0.0- 0.0)	WG	N	NI	.1300	=		150.00		J
HM-1	(0.0- 0.0)	WG	N	NI	.3600	=		150.00		J
HM-1	(0.0- 0.0)	WG	N	SB	.4400	=		400.00		J
HM-1	(0.0- 0.0)	WG	N	SB	.6200	=		400.00		J
HM-1	(0.0- 0.0)	WG	N	SE	.0300	=		800.00		J
HM-1	(0.0- 0.0)	WG	N	SE	.0800	=		800.00		J
HM-1	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-1	(0.0- 0.0)	WG	N	ZN	.0380	=		20.00		J
HM-1	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
HM-10	(0.0- 0.0)	WG	N	CD	.0150	=		40.00		J
HM-10	(0.0- 0.0)	WG	N	CR	.0050	=		70.00		J
HM-10	(0.0- 0.0)	WG	N	CR	.0190	=		70.00		J
HM-10	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-10	(0.0- 0.0)	WG	N	CR	.0420	=		70.00		J
HM-10	(0.0- 0.0)	WG	N	CR	.0440	=		70.00		J
HM-10	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
HM-10	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
HM-10	(0.0- 0.0)	WG	N	CU	.0360	=		60.00		J
HM-10	(0.0- 0.0)	WG	N	FE	.0280	=		70.00		J
HM-10	(0.0- 0.0)	WG	N	FE	.0580	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-10	(0.0- 0.0)	WG	N	FE	.0900	=		70.00		J
HM-10	(0.0- 0.0)	WG	N	K	5.0000	=		5000.00		J
HM-10	(0.0- 0.0)	WG	N	K	8.7000	=		5000.00		J
HM-10	(0.0- 0.0)	WG	N	K	27.0000	=		5000.00		J
HM-10	(0.0- 0.0)	WG	N	MG	18.0000	=		300.00		J
HM-10	(0.0- 0.0)	WG	N	MG	23.0000	=		300.00		J
HM-10	(0.0- 0.0)	WG	N	MG	144.0000	=		300.00		J
HM-10	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-10	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
HM-10	(0.0- 0.0)	WG	N	MN	.2500	=		20.00		J
HM-10	(0.0- 0.0)	WG	N	MN	.3450	=		20.00		J
HM-10	(0.0- 0.0)	WG	N	MN	.4100	=		20.00		J
HM-10	(0.0- 0.0)	WG	N	NA	45.0000	=		300.00		J
HM-10	(0.0- 0.0)	WG	N	NA	91.1000	=		300.00		J
HM-10	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
HM-10	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
HM-10	(0.0- 0.0)	WG	N	NI	.0190	=		150.00		J
HM-10	(0.0- 0.0)	WG	N	NI	.0560	=		150.00		J
HM-10	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
HM-10	(0.0- 0.0)	WG	N	ZN	.1500	=		20.00		J
HM-10	(0.0- 0.0)	WG	N	ZN	.2700	=		20.00		J
HM-100	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
HM-100	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
HM-100	(0.0- 0.0)	WG	N	CU	.0300	=		60.00		J
HM-100	(0.0- 0.0)	WG	N	K	.6000	=		5000.00		J
HM-100	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
HM-100	(0.0- 0.0)	WG	N	K	1.0000	=		5000.00		J
HM-100	(0.0- 0.0)	WG	N	MG	3.1000	=		300.00		J
HM-100	(0.0- 0.0)	WG	N	MG	3.2000	=		300.00		J
HM-100	(0.0- 0.0)	WG	N	MG	3.3000	=		300.00		J
HM-100	(0.0- 0.0)	WG	N	NA	30.0000	=		300.00		J
HM-100	(0.0- 0.0)	WG	N	NA	32.0000	=		300.00		J
HM-100	(0.0- 0.0)	WG	N	NA	34.0000	=		300.00		J
HM-101	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
HM-101	(0.0- 0.0)	WG	N	CU	.0400	=		60.00		J
HM-101	(0.0- 0.0)	WG	N	K	4.1000	=		5000.00		J
HM-101	(0.0- 0.0)	WG	N	K	4.9000	=		5000.00		J
HM-101	(0.0- 0.0)	WG	N	K	5.1000	=		5000.00		J
HM-101	(0.0- 0.0)	WG	N	MG	20.0000	=		300.00		J
HM-101	(0.0- 0.0)	WG	N	MG	23.0000	=		300.00		J
HM-101	(0.0- 0.0)	WG	N	MG	25.0000	=		300.00		J
HM-101	(0.0- 0.0)	WG	N	MN	.0900	=		20.00		J
HM-101	(0.0- 0.0)	WG	N	NA	20.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-101	(0.0- 0.0)	WG	N	NA	22.0000	=		300.00		J
HM-101	(0.0- 0.0)	WG	N	NA	24.0000	=		300.00		J
HM-102	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
HM-102	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
HM-102	(0.0- 0.0)	WG	N	BA	.1500	=		20.00		J
HM-102	(0.0- 0.0)	WG	N	CU	.0700	=		60.00		J
HM-102	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
HM-102	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
HM-102	(0.0- 0.0)	WG	N	K	1.6000	=		5000.00		J
HM-102	(0.0- 0.0)	WG	N	MG	4.4000	=		300.00		J
HM-102	(0.0- 0.0)	WG	N	MG	4.5000	=		300.00		J
HM-102	(0.0- 0.0)	WG	N	MG	5.1000	=		300.00		J
HM-102	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
HM-102	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-102	(0.0- 0.0)	WG	N	MN	.0900	=		20.00		J
HM-102	(0.0- 0.0)	WG	N	NA	14.0000	=		300.00		J
HM-102	(0.0- 0.0)	WG	N	NA	14.0000	=		300.00		J
HM-102	(0.0- 0.0)	WG	N	NA	14.0000	=		300.00		J
HM-103	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
HM-103	(0.0- 0.0)	WG	N	CU	.0200	=		60.00		J
HM-103	(0.0- 0.0)	WG	N	CU	.0400	=		60.00		J
HM-103	(0.0- 0.0)	WG	N	K	1.7000	=		5000.00		J
HM-103	(0.0- 0.0)	WG	N	K	1.9000	=		5000.00		J
HM-103	(0.0- 0.0)	WG	N	K	2.2000	=		5000.00		J
HM-103	(0.0- 0.0)	WG	N	MG	3.9000	=		300.00		J
HM-103	(0.0- 0.0)	WG	N	MG	4.2000	=		300.00		J
HM-103	(0.0- 0.0)	WG	N	MG	4.2000	=		300.00		J
HM-103	(0.0- 0.0)	WG	N	NA	20.0000	=		300.00		J
HM-103	(0.0- 0.0)	WG	N	NA	21.0000	=		300.00		J
HM-103	(0.0- 0.0)	WG	N	NA	22.0000	=		300.00		J
HM-103	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-104	(0.0- 0.0)	WG	N	K	5.1000	=		5000.00		J
HM-104	(0.0- 0.0)	WG	N	K	8.3000	=		5000.00		J
HM-104	(0.0- 0.0)	WG	N	K	9.9000	=		5000.00		J
HM-104	(0.0- 0.0)	WG	N	MG	26.0000	=		300.00		J
HM-104	(0.0- 0.0)	WG	N	MG	28.0000	=		300.00		J
HM-104	(0.0- 0.0)	WG	N	MG	28.0000	=		300.00		J
HM-104	(0.0- 0.0)	WG	N	NA	78.0000	=		300.00		J
HM-104	(0.0- 0.0)	WG	N	NA	87.0000	=		300.00		J
HM-104	(0.0- 0.0)	WG	N	NA	91.0000	=		300.00		J
HM-104	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-105	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
HM-105	(0.0- 0.0)	WG	N	CA	82.0000	=		100.00		J
HM-105	(0.0- 0.0)	WG	N	CA	83.0000	=		100.00		J
HM-105	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
HM-105	(0.0- 0.0)	WG	N	K	.2000	=		5000.00		J
HM-105	(0.0- 0.0)	WG	N	K	.6000	=		5000.00		J
HM-105	(0.0- 0.0)	WG	N	MG	16.0000	=		300.00		J
HM-105	(0.0- 0.0)	WG	N	MG	16.0000	=		300.00		J
HM-105	(0.0- 0.0)	WG	N	MN	.0500	=		20.00		J
HM-105	(0.0- 0.0)	WG	N	MN	.4600	=		20.00		J
HM-105	(0.0- 0.0)	WG	N	MN	.6100	=		20.00		J
HM-105	(0.0- 0.0)	WG	N	NA	70.0000	=		300.00		J
HM-105	(0.0- 0.0)	WG	N	NA	76.0000	=		300.00		J
HM-107	(0.0- 0.0)	WG	N	BA	.1700	=		20.00		J
HM-107	(0.0- 0.0)	WG	N	BA	.2100	=		20.00		J
HM-107	(0.0- 0.0)	WG	N	BA	.2400	=		20.00		J
HM-107	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
HM-107	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
HM-107	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
HM-107	(0.0- 0.0)	WG	N	K	1.5000	=		5000.00		J
HM-107	(0.0- 0.0)	WG	N	MG	11.0000	=		300.00		J
HM-107	(0.0- 0.0)	WG	N	MG	11.0000	=		300.00		J
HM-107	(0.0- 0.0)	WG	N	MG	13.0000	=		300.00		J
HM-107	(0.0- 0.0)	WG	N	MN	.0600	=		20.00		J
HM-107	(0.0- 0.0)	WG	N	MN	.2000	=		20.00		J
HM-107	(0.0- 0.0)	WG	N	MN	.5300	=		20.00		J
HM-107	(0.0- 0.0)	WG	N	NA	40.0000	=		300.00		J
HM-107	(0.0- 0.0)	WG	N	NA	46.0000	=		300.00		J
HM-107	(0.0- 0.0)	WG	N	NA	46.0000	=		300.00		J
HM-108	(0.0- 0.0)	WG	N	BA	.1400	=		20.00		J
HM-108	(0.0- 0.0)	WG	N	BA	.1600	=		20.00		J
HM-108	(0.0- 0.0)	WG	N	K	2.1000	=		5000.00		J
HM-108	(0.0- 0.0)	WG	N	MG	11.0000	=		300.00		J
HM-108	(0.0- 0.0)	WG	N	MN	.0600	=		20.00		J
HM-108	(0.0- 0.0)	WG	N	MN	.0700	=		20.00		J
HM-108	(0.0- 0.0)	WG	N	NA	28.0000	=		300.00		J
HM-108	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-108	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-11	(0.0- 0.0)	WG	N	AL	.5800	=		500.00		J
HM-11	(0.0- 0.0)	WG	N	CD	.0040	=		40.00		J
HM-11	(0.0- 0.0)	WG	N	CD	.0060	=		40.00		J
HM-11	(0.0- 0.0)	WG	N	CU	.7500	=		60.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-112	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
HM-112	(0.0- 0.0)	WG	N	CD	.0310	=		40.00		J
HM-112	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
HM-112	(0.0- 0.0)	WG	N	CR	.0320	=		70.00		J
HM-112	(0.0- 0.0)	WG	N	CR	.0370	=		70.00		J
HM-112	(0.0- 0.0)	WG	N	CR	.0380	=		70.00		J
HM-112	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-112	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-112	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-112	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-112	(0.0- 0.0)	WG	N	CU	.0300	=		60.00		J
HM-112	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
HM-112	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
HM-112	(0.0- 0.0)	WG	N	K	.9000	=		5000.00		J
HM-112	(0.0- 0.0)	WG	N	MG	4.0000	=		300.00		J
HM-112	(0.0- 0.0)	WG	N	MG	4.1000	=		300.00		J
HM-112	(0.0- 0.0)	WG	N	MG	4.1000	=		300.00		J
HM-112	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
HM-112	(0.0- 0.0)	WG	N	NA	31.0000	=		300.00		J
HM-112	(0.0- 0.0)	WG	N	NA	32.0000	=		300.00		J
HM-112	(0.0- 0.0)	WG	N	NA	33.0000	=		300.00		J
HM-112	(0.0- 0.0)	WG	N	ZN	.0900	=		20.00		J
HM-112	(0.0- 0.0)	WG	N	ZN	.4800	=		20.00		J
HM-112	(0.0- 0.0)	WG	N	ZN	1.7000	=		20.00		J
HM-113	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-113	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-113	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-113	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
HM-113	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-113	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-113	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
HM-113	(0.0- 0.0)	WG	N	K	.9000	=		5000.00		J
HM-113	(0.0- 0.0)	WG	N	K	1.0000	=		5000.00		J
HM-113	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-113	(0.0- 0.0)	WG	N	MG	3.9000	=		300.00		J
HM-113	(0.0- 0.0)	WG	N	MG	4.0000	=		300.00		J
HM-113	(0.0- 0.0)	WG	N	NA	23.0000	=		300.00		J
HM-113	(0.0- 0.0)	WG	N	NA	24.0000	=		300.00		J
HM-113	(0.0- 0.0)	WG	N	NA	25.0000	=		300.00		J
HM-113	(0.0- 0.0)	WG	N	ZN	.5100	=		20.00		J
HM-113	(0.0- 0.0)	WG	N	ZN	.8200	=		20.00		J
HM-113	(0.0- 0.0)	WG	N	ZN	.9400	=		20.00		J
HM-113	(0.0- 0.0)	WG	N	ZN	1.1300	=		20.00		J
HM-113	(0.0- 0.0)	WG	N	ZN	1.3000	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-11	(0.0- 0.0)	WG	N	FE	.0300	=		70.00		J
HM-11	(0.0- 0.0)	WG	N	FE	.0450	=		70.00		J
HM-11	(0.0- 0.0)	WG	N	FE	.2500	=		70.00		J
HM-11	(0.0- 0.0)	WG	N	FE	.3300	=		70.00		J
HM-11	(0.0- 0.0)	WG	N	FE	.7000	=		70.00		J
HM-11	(0.0- 0.0)	WG	N	K	4.4000	=		5000.00		J
HM-11	(0.0- 0.0)	WG	N	MG	5.4000	=		300.00		J
HM-11	(0.0- 0.0)	WG	N	MN	.0060	=		20.00		J
HM-11	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-11	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-11	(0.0- 0.0)	WG	N	MN	.0280	=		20.00		J
HM-11	(0.0- 0.0)	WG	N	NA	9.2000	=		300.00		J
HM-11	(0.0- 0.0)	WG	N	PB	.0300	=		500.00		J
HM-11	(0.0- 0.0)	WG	N	ZN	.0800	=		20.00		J
HM-11	(0.0- 0.0)	WG	N	ZN	.1400	=		20.00		J
HM-11	(0.0- 0.0)	WG	N	ZN	2.3000	=		20.00		J
HM-110	(0.0- 0.0)	WG	N	K	.7000	=		5000.00		J
HM-110	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
HM-110	(0.0- 0.0)	WG	N	K	.9000	=		5000.00		J
HM-110	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-110	(0.0- 0.0)	WG	N	MG	3.8000	=		300.00		J
HM-110	(0.0- 0.0)	WG	N	MG	3.8000	=		300.00		J
HM-110	(0.0- 0.0)	WG	N	NA	16.0000	=		300.00		J
HM-110	(0.0- 0.0)	WG	N	NA	17.0000	=		300.00		J
HM-110	(0.0- 0.0)	WG	N	NA	18.0000	=		300.00		J
HM-110	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-110	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-110	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
HM-111	(0.0- 0.0)	WG	N	K	.7000	=		5000.00		J
HM-111	(0.0- 0.0)	WG	N	K	.9000	=		5000.00		J
HM-111	(0.0- 0.0)	WG	N	K	.9000	=		5000.00		J
HM-111	(0.0- 0.0)	WG	N	MG	3.1000	=		300.00		J
HM-111	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-111	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-111	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
HM-111	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-111	(0.0- 0.0)	WG	N	NA	18.0000	=		300.00		J
HM-111	(0.0- 0.0)	WG	N	NA	21.0000	=		300.00		J
HM-111	(0.0- 0.0)	WG	N	NA	21.0000	=		300.00		J
HM-111	(0.0- 0.0)	WG	N	ZN	.2900	=		20.00		J
HM-111	(0.0- 0.0)	WG	N	ZN	.3700	=		20.00		J
HM-111	(0.0- 0.0)	WG	N	ZN	1.2000	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-114	(0.0- 0.0)	WG	N	BA	.1020	=		20.00		J
HM-114	(0.0- 0.0)	WG	N	CR	.0440	=		70.00		J
HM-114	(0.0- 0.0)	WG	N	CR	.0470	=		70.00		J
HM-114	(0.0- 0.0)	WG	N	CR	.0490	=		70.00		J
HM-114	(0.0- 0.0)	WG	N	CR	.0530	=		70.00		J
HM-114	(0.0- 0.0)	WG	N	CR	50.0000	=		70.00		J
HM-114	(0.0- 0.0)	WG	N	K	1.8000	=		5000.00		J
HM-114	(0.0- 0.0)	WG	N	MG	3.8000	=		300.00		J
HM-114	(0.0- 0.0)	WG	N	NA	20.0000	=		300.00		J
HM-115	(0.0- 0.0)	WG	N	BA	.1390	=		20.00		J
HM-115	(0.0- 0.0)	WG	N	CR	.0110	=		70.00		J
HM-115	(0.0- 0.0)	WG	N	CR	.0120	=		70.00		J
HM-115	(0.0- 0.0)	WG	N	CR	.0140	=		70.00		J
HM-115	(0.0- 0.0)	WG	N	CR	.0140	=		70.00		J
HM-115	(0.0- 0.0)	WG	N	CR	10.0000	=		70.00		J
HM-115	(0.0- 0.0)	WG	N	K	2.4000	=		5000.00		J
HM-115	(0.0- 0.0)	WG	N	MG	4.4000	=		300.00		J
HM-115	(0.0- 0.0)	WG	N	NA	24.0000	=		300.00		J
HM-116	(0.0- 0.0)	WG	N	BA	.1520	=		20.00		J
HM-116	(0.0- 0.0)	WG	N	CR	.0370	=		70.00		J
HM-116	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-116	(0.0- 0.0)	WG	N	K	1.9000	=		5000.00		J
HM-116	(0.0- 0.0)	WG	N	MG	4.8000	=		300.00		J
HM-116	(0.0- 0.0)	WG	N	NA	52.0000	=		300.00		J
HM-117	(0.0- 0.0)	WG	N	BA	.1520	=		20.00		J
HM-117	(0.0- 0.0)	WG	N	CR	.0480	=		70.00		J
HM-117	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-117	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-117	(0.0- 0.0)	WG	N	CR	.0730	=		70.00		J
HM-117	(0.0- 0.0)	WG	N	CR	.0840	=		70.00		J
HM-117	(0.0- 0.0)	WG	N	K	1.8000	=		5000.00		J
HM-117	(0.0- 0.0)	WG	N	MG	4.4000	=		300.00		J
HM-117	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
HM-117	(0.0- 0.0)	WG	N	NA	98.0000	=		300.00		J
HM-117	(0.0- 0.0)	WG	N	ZN	.0220	=		20.00		J
HM-118	(0.0- 0.0)	WG	N	BA	.3360	=		20.00		J
HM-118	(0.0- 0.0)	WG	N	K	1.6000	=		5000.00		J
HM-118	(0.0- 0.0)	WG	N	MG	8.4000	=		300.00		J
HM-118	(0.0- 0.0)	WG	N	MN	.0220	=		20.00		J
HM-118	(0.0- 0.0)	WG	N	NA	160.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-118	(0.0- 0.0)	WG	N	ZN	.0140	=		20.00		J
HM-119	(0.0- 0.0)	WG	N	BA	.1280	=		20.00		J
HM-119	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
HM-119	(0.0- 0.0)	WG	N	MG	6.5000	=		300.00		J
HM-119	(0.0- 0.0)	WG	N	NA	81.0000	=		300.00		J
HM-12	(0.0- 0.0)	WG	N	AG	.0100	=		70.00		J
HM-12	(0.0- 0.0)	WG	N	AL	.1900	=		500.00		J
HM-12	(0.0- 0.0)	WG	N	AL	.2400	=		500.00		J
HM-12	(0.0- 0.0)	WG	N	AL	.3200	=		500.00		J
HM-12	(0.0- 0.0)	WG	N	CD	.0070	=		40.00		J
HM-12	(0.0- 0.0)	WG	N	CR	.0190	=		70.00		J
HM-12	(0.0- 0.0)	WG	N	CU	.0130	=		60.00		J
HM-12	(0.0- 0.0)	WG	N	CU	.0500	=		60.00		J
HM-12	(0.0- 0.0)	WG	N	FE	.0200	=		70.00		J
HM-12	(0.0- 0.0)	WG	N	FE	.0220	=		70.00		J
HM-12	(0.0- 0.0)	WG	N	FE	.0360	=		70.00		J
HM-12	(0.0- 0.0)	WG	N	FE	.0540	=		70.00		J
HM-12	(0.0- 0.0)	WG	N	FE	.1400	=		70.00		J
HM-12	(0.0- 0.0)	WG	N	FE	.2400	=		70.00		J
HM-12	(0.0- 0.0)	WG	N	K	3.6000	=		5000.00		J
HM-12	(0.0- 0.0)	WG	N	MG	2.3000	=		300.00		J
HM-12	(0.0- 0.0)	WG	N	MN	.0110	=		20.00		J
HM-12	(0.0- 0.0)	WG	N	MN	.0180	=		20.00		J
HM-12	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-12	(0.0- 0.0)	WG	N	MN	.0340	=		20.00		J
HM-12	(0.0- 0.0)	WG	N	MN	.0500	=		20.00		J
HM-12	(0.0- 0.0)	WG	N	NA	59.8000	=		300.00		J
HM-12	(0.0- 0.0)	WG	N	NI	.0040	=		150.00		J
HM-12	(0.0- 0.0)	WG	N	NI	.0480	=		150.00		J
HM-12	(0.0- 0.0)	WG	N	PB	.0020	=		500.00		J
HM-12	(0.0- 0.0)	WG	N	PB	.0700	=		500.00		J
HM-12	(0.0- 0.0)	WG	N	ZN	.0460	=		20.00		J
HM-12	(0.0- 0.0)	WG	N	ZN	.2300	=		20.00		J
HM-12	(0.0- 0.0)	WG	N	ZN	.3200	=		20.00		J
HM-120	(0.0- 0.0)	WG	N	K	4.0000	=		5000.00		J
HM-120	(0.0- 0.0)	WG	N	MG	30.0000	=		300.00		J
HM-120	(0.0- 0.0)	WG	N	MN	.0970	=		20.00		J
HM-120	(0.0- 0.0)	WG	N	NA	282.0000	=		300.00		J
HM-120	(0.0- 0.0)	WG	N	ZN	.0270	=		20.00		J
HM-121	(0.0- 0.0)	WG	N	BA	.2440	=		20.00		J
HM-121	(0.0- 0.0)	WG	N	K	1.5000	=		5000.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-121	(0.0- 0.0)	WG	N	MG	7.1000	=		300.00		J
HM-121	(0.0- 0.0)	WG	N	NA	14.0000	=		300.00		J
HM-122	(0.0- 0.0)	WG	N	BA	.5860	=		20.00		J
HM-122	(0.0- 0.0)	WG	N	CR	.0140	=		70.00		J
HM-122	(0.0- 0.0)	WG	N	CU	.0520	=		60.00		J
HM-122	(0.0- 0.0)	WG	N	FE	.1020	=		70.00		J
HM-122	(0.0- 0.0)	WG	N	K	2.0000	=		5000.00		J
HM-122	(0.0- 0.0)	WG	N	MG	6.2000	=		300.00		J
HM-122	(0.0- 0.0)	WG	N	MN	.3160	=		20.00		J
HM-122	(0.0- 0.0)	WG	N	NA	8.0000	=		300.00		J
HM-122	(0.0- 0.0)	WG	N	ZN	.3420	=		20.00		J
HM-123	(0.0- 0.0)	WG	N	BA	.1040	=		20.00		J
HM-123	(0.0- 0.0)	WG	N	K	1.0000	=		5000.00		J
HM-123	(0.0- 0.0)	WG	N	MG	5.7000	=		300.00		J
HM-123	(0.0- 0.0)	WG	N	NA	26.0000	=		300.00		J
HM-123	(0.0- 0.0)	WG	N	ZN	.0180	=		20.00		J
HM-125	(0.0- 0.0)	WG	N	K	2.9000	=		5000.00		J
HM-125	(0.0- 0.0)	WG	N	MG	7.6000	=		300.00		J
HM-125	(0.0- 0.0)	WG	N	NA	39.0000	=		300.00		J
HM-126	(0.0- 0.0)	WG	N	CR	.0130	=		70.00		J
HM-126	(0.0- 0.0)	WG	N	CR	.0170	=		70.00		J
HM-126	(0.0- 0.0)	WG	N	CR	.0170	=		70.00		J
HM-126	(0.0- 0.0)	WG	N	CR	.0180	=		70.00		J
HM-126	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-126	(0.0- 0.0)	WG	N	FE	.0590	=		70.00		J
HM-126	(0.0- 0.0)	WG	N	K	.6000	=		5000.00		J
HM-126	(0.0- 0.0)	WG	N	MG	3.9000	=		300.00		J
HM-126	(0.0- 0.0)	WG	N	NA	21.0000	=		300.00		J
HM-126	(0.0- 0.0)	WG	N	ZN	.0110	=		20.00		J
HM-127	(0.0- 0.0)	WG	N	K	.5000	=		5000.00		J
HM-127	(0.0- 0.0)	WG	N	MG	7.3000	=		300.00		J
HM-127	(0.0- 0.0)	WG	N	NA	33.0000	=		300.00		J
HM-127	(0.0- 0.0)	WG	N	ZN	.0120	=		20.00		J
HM-13	(0.0- 0.0)	WG	N	AG	.0080	=		70.00		J
HM-13	(0.0- 0.0)	WG	N	AL	.1400	=		500.00		J
HM-13	(0.0- 0.0)	WG	N	CA	98.6000	=		100.00		J
HM-13	(0.0- 0.0)	WG	N	CR	.0010	=		70.00		J
HM-13	(0.0- 0.0)	WG	N	CR	.0080	=		70.00		J
HM-13	(0.0- 0.0)	WG	N	CR	.2500	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-13	(0.0- 0.0)	WG	N	CU	.0130	=		60.00		J
HM-13	(0.0- 0.0)	WG	N	FE	.0150	=		70.00		J
HM-13	(0.0- 0.0)	WG	N	FE	.0200	=		70.00		J
HM-13	(0.0- 0.0)	WG	N	FE	.0420	=		70.00		J
HM-13	(0.0- 0.0)	WG	N	FE	1.2000	=		70.00		J
HM-13	(0.0- 0.0)	WG	N	K	1.0000	=		5000.00		J
HM-13	(0.0- 0.0)	WG	N	MG	5.0000	=		300.00		J
HM-13	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
HM-13	(0.0- 0.0)	WG	N	MN	.0380	=		20.00		J
HM-13	(0.0- 0.0)	WG	N	MN	.0600	=		20.00		J
HM-13	(0.0- 0.0)	WG	N	NA	14.2000	=		300.00		J
HM-13	(0.0- 0.0)	WG	N	NI	.0150	=		150.00		J
HM-13	(0.0- 0.0)	WG	N	NI	.2400	=		150.00		J
HM-13	(0.0- 0.0)	WG	N	ZN	.0460	=		20.00		J
HM-13	(0.0- 0.0)	WG	N	ZN	.2100	=		20.00		J
HM-130	(0.0- 0.0)	WG	N	AS	.0380	=		600.00		J
HM-130	(0.0- 0.0)	WG	N	CR	.0260	=		70.00		J
HM-130	(0.0- 0.0)	WG	N	CU	.6810	=		60.00		J
HM-130	(0.0- 0.0)	WG	N	K	.1000	=		5000.00		J
HM-130	(0.0- 0.0)	WG	N	NA	1.4000	=		300.00		J
HM-130	(0.0- 0.0)	WG	N	PB	.0390	=		500.00		J
HM-14	(0.0- 0.0)	WG	N	CD	.0040	=		40.00		J
HM-14	(0.0- 0.0)	WG	N	CD	.0040	=		40.00		J
HM-14	(0.0- 0.0)	WG	N	FE	.0300	=		70.00		J
HM-14	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-14	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
HM-14	(0.0- 0.0)	WG	N	MN	.0800	=		20.00		J
HM-14	(0.0- 0.0)	WG	N	NA	43.5000	=		300.00		J
HM-14	(0.0- 0.0)	WG	N	NI	.0420	=		150.00		J
HM-14	(0.0- 0.0)	WG	N	ZN	.0220	=		20.00		J
HM-14	(0.0- 0.0)	WG	N	ZN	.2100	=		20.00		J
HM-15	(0.0- 0.0)	WG	N	BA	.0480	=		20.00		J
HM-15	(0.0- 0.0)	WG	N	CR	.0820	=		70.00		J
HM-15	(0.0- 0.0)	WG	N	CR	.0920	=		70.00		J
HM-15	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-15	(0.0- 0.0)	WG	N	ZN	.0900	=		20.00		J
HM-16	(0.0- 0.0)	WG	N	AL	.1040	=		500.00		J
HM-16	(0.0- 0.0)	WG	N	CA	60.5000	=		100.00		J
HM-16	(0.0- 0.0)	WG	N	CD	.0030	=		40.00		J
HM-16	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
HM-16	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-16	(0.0- 0.0)	WG	N	CR	.1000	=		70.00		J
HM-16	(0.0- 0.0)	WG	N	CR	.1620	=		70.00		J
HM-16	(0.0- 0.0)	WG	N	CR	.2640	=		70.00		J
HM-16	(0.0- 0.0)	WG	N	CU	.0190	=		60.00		J
HM-16	(0.0- 0.0)	WG	N	CU	.1200	=		60.00		J
HM-16	(0.0- 0.0)	WG	N	FE	.0300	=		70.00		J
HM-16	(0.0- 0.0)	WG	N	FE	.1900	=		70.00		J
HM-16	(0.0- 0.0)	WG	N	FE	4.0000	=		70.00		J
HM-16	(0.0- 0.0)	WG	N	K	5.0000	=		5000.00		J
HM-16	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-16	(0.0- 0.0)	WG	N	MN	.0220	=		20.00		J
HM-16	(0.0- 0.0)	WG	N	MN	.0360	=		20.00		J
HM-16	(0.0- 0.0)	WG	N	MN	.0700	=		20.00		J
HM-16	(0.0- 0.0)	WG	N	MN	.0800	=		20.00		J
HM-16	(0.0- 0.0)	WG	N	MN	.2000	=		20.00		J
HM-16	(0.0- 0.0)	WG	N	NA	172.0000	=		300.00		J
HM-16	(0.0- 0.0)	WG	N	NI	.0080	=		150.00		J
HM-16	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
HM-16	(0.0- 0.0)	WG	N	NI	.0420	=		150.00		J
HM-16	(0.0- 0.0)	WG	N	PB	.0020	=		500.00		J
HM-16	(0.0- 0.0)	WG	N	PB	.0500	=		500.00		J
HM-16	(0.0- 0.0)	WG	N	SE	.0010	=		800.00		J
HM-16	(0.0- 0.0)	WG	N	ZN	.0340	=		20.00		J
HM-16	(0.0- 0.0)	WG	N	ZN	.2300	=		20.00		J
HM-16	(0.0- 0.0)	WG	N	ZN	2.3000	=		20.00		J
HM-17	(0.0- 0.0)	WG	N	AG	.0080	=		70.00		J
HM-17	(0.0- 0.0)	WG	N	AG	.0180	=		70.00		J
HM-17	(0.0- 0.0)	WG	N	AL	.0500	=		500.00		J
HM-17	(0.0- 0.0)	WG	N	AL	.0990	=		500.00		J
HM-17	(0.0- 0.0)	WG	N	CD	.0080	=		40.00		J
HM-17	(0.0- 0.0)	WG	N	CU	.0130	=		60.00		J
HM-17	(0.0- 0.0)	WG	N	CU	.0900	=		60.00		J
HM-17	(0.0- 0.0)	WG	N	FE	.1000	=		70.00		J
HM-17	(0.0- 0.0)	WG	N	FE	.2400	=		70.00		J
HM-17	(0.0- 0.0)	WG	N	FE	.6600	=		70.00		J
HM-17	(0.0- 0.0)	WG	N	K	1.8000	=		5000.00		J
HM-17	(0.0- 0.0)	WG	N	K	4.2000	=		5000.00		J
HM-17	(0.0- 0.0)	WG	N	MG	5.9000	=		300.00		J
HM-17	(0.0- 0.0)	WG	N	MG	7.2000	=		300.00		J
HM-17	(0.0- 0.0)	WG	N	MN	.0030	=		20.00		J
HM-17	(0.0- 0.0)	WG	N	MN	.0130	=		20.00		J
HM-17	(0.0- 0.0)	WG	N	MN	.0400	=		20.00		J
HM-17	(0.0- 0.0)	WG	N	MN	.0900	=		20.00		J
HM-17	(0.0- 0.0)	WG	N	NA	13.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-17	(0.0- 0.0)	WG	N	NA	16.0000	=		300.00		J
HM-17	(0.0- 0.0)	WG	N	NI	.0560	=		150.00		J
HM-17	(0.0- 0.0)	WG	N	PB	.0300	=		500.00		J
HM-17	(0.0- 0.0)	WG	N	PB	.0320	=		500.00		J
HM-17	(0.0- 0.0)	WG	N	ZN	.2000	=		20.00		J
HM-17	(0.0- 0.0)	WG	N	ZN	.2200	=		20.00		J
HM-17	(0.0- 0.0)	WG	N	ZN	1.7000	=		20.00		J
HM-18	(0.0- 0.0)	WG	N	AL	.0810	=		500.00		J
HM-18	(0.0- 0.0)	WG	N	CD	.0060	=		40.00		J
HM-18	(0.0- 0.0)	WG	N	CR	.0080	=		70.00		J
HM-18	(0.0- 0.0)	WG	N	FE	.0500	=		70.00		J
HM-18	(0.0- 0.0)	WG	N	FE	.0760	=		70.00		J
HM-18	(0.0- 0.0)	WG	N	FE	.5700	=		70.00		J
HM-18	(0.0- 0.0)	WG	N	K	3.6000	=		5000.00		J
HM-18	(0.0- 0.0)	WG	N	MG	6.4000	=		300.00		J
HM-18	(0.0- 0.0)	WG	N	MN	.0120	=		20.00		J
HM-18	(0.0- 0.0)	WG	N	MN	.2300	=		20.00		J
HM-18	(0.0- 0.0)	WG	N	NA	94.2000	=		300.00		J
HM-18	(0.0- 0.0)	WG	N	NI	.0160	=		150.00		J
HM-18	(0.0- 0.0)	WG	N	NI	.0200	=		150.00		J
HM-18	(0.0- 0.0)	WG	N	NI	.0480	=		150.00		J
HM-18	(0.0- 0.0)	WG	N	PB	.3100	=		500.00		J
HM-18	(0.0- 0.0)	WG	N	ZN	.0320	=		20.00		J
HM-18	(0.0- 0.0)	WG	N	ZN	.0760	=		20.00		J
HM-19	(0.0- 0.0)	WG	N	AG	.0070	=		70.00		J
HM-19	(0.0- 0.0)	WG	N	CD	.0050	=		40.00		J
HM-19	(0.0- 0.0)	WG	N	CR	.0190	=		70.00		J
HM-19	(0.0- 0.0)	WG	N	CU	.0130	=		60.00		J
HM-19	(0.0- 0.0)	WG	N	FE	.3300	=		70.00		J
HM-19	(0.0- 0.0)	WG	N	FE	.4900	=		70.00		J
HM-19	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
HM-19	(0.0- 0.0)	WG	N	K	4.5000	=		5000.00		J
HM-19	(0.0- 0.0)	WG	N	MG	19.0000	=		300.00		J
HM-19	(0.0- 0.0)	WG	N	MG	21.0000	=		300.00		J
HM-19	(0.0- 0.0)	WG	N	MN	.1800	=		20.00		J
HM-19	(0.0- 0.0)	WG	N	MN	.2400	=		20.00		J
HM-19	(0.0- 0.0)	WG	N	MN	.6000	=		20.00		J
HM-19	(0.0- 0.0)	WG	N	NA	110.0000	=		300.00		J
HM-19	(0.0- 0.0)	WG	N	NA	125.0000	=		300.00		J
HM-19	(0.0- 0.0)	WG	N	NI	.0150	=		150.00		J
HM-19	(0.0- 0.0)	WG	N	NI	.0420	=		150.00		J
HM-19	(0.0- 0.0)	WG	N	PB	.0050	=		500.00		J
HM-19	(0.0- 0.0)	WG	N	PB	.0200	=		500.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-19	(0.0- 0.0)	WG	N	ZN	.0720	=		20.00		J
HM-19	(0.0- 0.0)	WG	N	ZN	.1500	=		20.00		J
HM-2	(0.0- 0.0)	WG	N	AS	.1000	=		600.00		J
HM-2	(0.0- 0.0)	WG	N	AS	.1300	=		600.00		J
HM-2	(0.0- 0.0)	WG	N	CA	85.9000	=		100.00		J
HM-2	(0.0- 0.0)	WG	N	CA	93.9000	=		100.00		J
HM-2	(0.0- 0.0)	WG	N	FE	.0330	=		70.00		J
HM-2	(0.0- 0.0)	WG	N	FE	.0800	=		70.00		J
HM-2	(0.0- 0.0)	WG	N	K	1.8000	=		5000.00		J
HM-2	(0.0- 0.0)	WG	N	K	18.0000	=		5000.00		J
HM-2	(0.0- 0.0)	WG	N	MG	4.1000	=		300.00		J
HM-2	(0.0- 0.0)	WG	N	MG	4.4300	=		300.00		J
HM-2	(0.0- 0.0)	WG	N	MN	.0040	=		20.00		J
HM-2	(0.0- 0.0)	WG	N	MN	.0700	=		20.00		J
HM-2	(0.0- 0.0)	WG	N	NA	107.0000	=		300.00		J
HM-2	(0.0- 0.0)	WG	N	NA	124.0000	=		300.00		J
HM-2	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
HM-2	(0.0- 0.0)	WG	N	PB	.0700	=		500.00		J
HM-2	(0.0- 0.0)	WG	N	ZN	.0220	=		20.00		J
HM-2	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
HM-2	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	AG	.0030	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	AG	.0140	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	AL	.1800	=		500.00		J
HM-20	(0.0- 0.0)	WG	N	BA	.1500	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	BA	.1570	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	CA	90.0000	=		100.00		J
HM-20	(0.0- 0.0)	WG	N	CD	.0040	=		40.00		J
HM-20	(0.0- 0.0)	WG	N	CD	.0140	=		40.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.0360	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.0480	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.0500	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.0960	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.1700	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.1900	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.2100	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.2400	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CR	.2500	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	CU	.0040	=		60.00		J
HM-20	(0.0- 0.0)	WG	N	CU	.0150	=		60.00		J
HM-20	(0.0- 0.0)	WG	N	CU	.0190	=		60.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-20	(0.0- 0.0)	WG	N	CU	.0200	=		60.00		J
HM-20	(0.0- 0.0)	WG	N	FE	.0200	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	FE	.0500	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	FE	.0840	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	FE	.0990	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	FE	.1600	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	FE	.2000	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	FE	.6700	=		70.00		J
HM-20	(0.0- 0.0)	WG	N	K	.4300	=		5000.00		J
HM-20	(0.0- 0.0)	WG	N	K	1.5000	=		5000.00		J
HM-20	(0.0- 0.0)	WG	N	K	1.5000	=		5000.00		J
HM-20	(0.0- 0.0)	WG	N	K	1.8000	=		5000.00		J
HM-20	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-20	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-20	(0.0- 0.0)	WG	N	MG	4.0000	=		300.00		J
HM-20	(0.0- 0.0)	WG	N	MG	4.4000	=		300.00		J
HM-20	(0.0- 0.0)	WG	N	MG	5.3000	=		300.00		J
HM-20	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	MN	.1100	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	MN	.1200	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	MN	.5500	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	NA	130.0000	=		300.00		J
HM-20	(0.0- 0.0)	WG	N	NA	150.0000	=		300.00		J
HM-20	(0.0- 0.0)	WG	N	NA	180.0000	=		300.00		J
HM-20	(0.0- 0.0)	WG	N	NA	180.0000	=		300.00		J
HM-20	(0.0- 0.0)	WG	N	NA	180.0000	=		300.00		J
HM-20	(0.0- 0.0)	WG	N	NI	.0030	=		150.00		J
HM-20	(0.0- 0.0)	WG	N	NI	.0760	=		150.00		J
HM-20	(0.0- 0.0)	WG	N	NI	.1900	=		150.00		J
HM-20	(0.0- 0.0)	WG	N	PB	.0040	=		500.00		J
HM-20	(0.0- 0.0)	WG	N	SE	.0030	=		800.00		J
HM-20	(0.0- 0.0)	WG	N	SE	.0090	=		800.00		J
HM-20	(0.0- 0.0)	WG	N	SE	.0130	=		800.00		J
HM-20	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	ZN	.0560	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	ZN	.2500	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	ZN	.2700	=		20.00		J
HM-20	(0.0- 0.0)	WG	N	ZN	.5300	=		20.00		J
HM-21	(0.0- 0.0)	WG	N	AL	.0880	=		500.00		J
HM-21	(0.0- 0.0)	WG	N	AL	.1200	=		500.00		J
HM-21	(0.0- 0.0)	WG	N	AL	.4900	=		500.00		J
HM-21	(0.0- 0.0)	WG	N	CD	.0060	=		40.00		J
HM-21	(0.0- 0.0)	WG	N	CD	.0190	=		40.00		J
HM-21	(0.0- 0.0)	WG	N	CR	.0170	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-21	(0.0- 0.0)	WG	N	CR	.0220	=		70.00		J
HM-21	(0.0- 0.0)	WG	N	CU	.0190	=		60.00		J
HM-21	(0.0- 0.0)	WG	N	FE	.0150	=		70.00		J
HM-21	(0.0- 0.0)	WG	N	FE	.0380	=		70.00		J
HM-21	(0.0- 0.0)	WG	N	FE	.1200	=		70.00		J
HM-21	(0.0- 0.0)	WG	N	FE	.5600	=		70.00		J
HM-21	(0.0- 0.0)	WG	N	K	6.5000	=		5000.00		J
HM-21	(0.0- 0.0)	WG	N	MG	17.6000	=		300.00		J
HM-21	(0.0- 0.0)	WG	N	MN	.0880	=		20.00		J
HM-21	(0.0- 0.0)	WG	N	MN	.1800	=		20.00		J
HM-21	(0.0- 0.0)	WG	N	MN	.2600	=		20.00		J
HM-21	(0.0- 0.0)	WG	N	MN	.5000	=		20.00		J
HM-21	(0.0- 0.0)	WG	N	NA	224.0000	=		300.00		J
HM-21	(0.0- 0.0)	WG	N	NI	.0300	=		150.00		J
HM-21	(0.0- 0.0)	WG	N	NI	.0820	=		150.00		J
HM-21	(0.0- 0.0)	WG	N	ZN	.1000	=		20.00		J
HM-21	(0.0- 0.0)	WG	N	ZN	.2700	=		20.00		J
HM-21	(0.0- 0.0)	WG	N	ZN	3.0000	=		20.00		J
HM-22	(0.0- 0.0)	WG	N	AL	1.1000	=		500.00		J
HM-22	(0.0- 0.0)	WG	N	AL	1.4000	=		500.00		J
HM-22	(0.0- 0.0)	WG	N	BA	.0900	=		20.00		J
HM-22	(0.0- 0.0)	WG	N	BA	.1700	=		20.00		J
HM-22	(0.0- 0.0)	WG	N	BE	.0090	=		3.00		J
HM-22	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-22	(0.0- 0.0)	WG	N	CU	.0140	=		60.00		J
HM-22	(0.0- 0.0)	WG	N	CU	.2400	=		60.00		J
HM-22	(0.0- 0.0)	WG	N	FE	.1300	=		70.00		J
HM-22	(0.0- 0.0)	WG	N	K	2.0000	=		5000.00		J
HM-22	(0.0- 0.0)	WG	N	K	4.5000	=		5000.00		J
HM-22	(0.0- 0.0)	WG	N	MG	58.0000	=		300.00		J
HM-22	(0.0- 0.0)	WG	N	MG	120.0000	=		300.00		J
HM-22	(0.0- 0.0)	WG	N	MN	.0470	=		20.00		J
HM-22	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
HM-22	(0.0- 0.0)	WG	N	NA	56.0000	=		300.00		J
HM-22	(0.0- 0.0)	WG	N	NI	.0800	=		150.00		J
HM-22	(0.0- 0.0)	WG	N	ZN	.0370	=		20.00		J
HM-22	(0.0- 0.0)	WG	N	ZN	.1100	=		20.00		J
HM-23	(0.0- 0.0)	WG	N	AG	.0200	=		70.00		J
HM-23	(0.0- 0.0)	WG	N	AG	.0220	=		70.00		J
HM-23	(0.0- 0.0)	WG	N	AG	.1800	=		70.00		J
HM-23	(0.0- 0.0)	WG	N	BE	.0010	=		3.00		J
HM-23	(0.0- 0.0)	WG	N	BE	.0010	=		3.00		J
HM-23	(0.0- 0.0)	WG	N	CD	.0030	=		40.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-23	(0.0- 0.0)	WG	N	CR	.0040	=		70.00		J
HM-23	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
HM-23	(0.0- 0.0)	WG	N	CU	.0120	=		60.00		J
HM-23	(0.0- 0.0)	WG	N	FE	.0860	=		70.00		J
HM-23	(0.0- 0.0)	WG	N	FE	.0970	=		70.00		J
HM-23	(0.0- 0.0)	WG	N	FE	.2000	=		70.00		J
HM-23	(0.0- 0.0)	WG	N	FE	.5000	=		70.00		J
HM-23	(0.0- 0.0)	WG	N	K	.2900	=		5000.00		J
HM-23	(0.0- 0.0)	WG	N	K	1.6000	=		5000.00		J
HM-23	(0.0- 0.0)	WG	N	MG	3.3000	=		300.00		J
HM-23	(0.0- 0.0)	WG	N	MG	4.3000	=		300.00		J
HM-23	(0.0- 0.0)	WG	N	MN	.0030	=		20.00		J
HM-23	(0.0- 0.0)	WG	N	MN	.0050	=		20.00		J
HM-23	(0.0- 0.0)	WG	N	MN	.0630	=		20.00		J
HM-23	(0.0- 0.0)	WG	N	NA	22.0000	=		300.00		J
HM-23	(0.0- 0.0)	WG	N	NA	25.0000	=		300.00		J
HM-23	(0.0- 0.0)	WG	N	NI	.0080	=		150.00		J
HM-23	(0.0- 0.0)	WG	N	NI	.0080	=		150.00		J
HM-23	(0.0- 0.0)	WG	N	ZN	.1300	=		20.00		J
HM-23	(0.0- 0.0)	WG	N	ZN	.1600	=		20.00		J
HM-24	(0.0- 0.0)	WG	N	AG	.0120	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	AG	.0160	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	AG	.0170	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	AG	.0200	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	AG	.0900	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	CD	.0080	=		40.00		J
HM-24	(0.0- 0.0)	WG	N	CD	.0110	=		40.00		J
HM-24	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	CR	.0270	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	FE	.0530	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	FE	.0940	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	FE	.6400	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	FE	1.0000	=		70.00		J
HM-24	(0.0- 0.0)	WG	N	K	4.0000	=		5000.00		J
HM-24	(0.0- 0.0)	WG	N	MG	.1400	=		300.00		J
HM-24	(0.0- 0.0)	WG	N	MG	35.0000	=		300.00		J
HM-24	(0.0- 0.0)	WG	N	MN	.0310	=		20.00		J
HM-24	(0.0- 0.0)	WG	N	MN	.0390	=		20.00		J
HM-24	(0.0- 0.0)	WG	N	MN	.0550	=		20.00		J
HM-24	(0.0- 0.0)	WG	N	MN	.1300	=		20.00		J
HM-24	(0.0- 0.0)	WG	N	MN	.2800	=		20.00		J
HM-24	(0.0- 0.0)	WG	N	NA	43.0000	=		300.00		J
HM-24	(0.0- 0.0)	WG	N	NA	100.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-24	(0.0- 0.0)	WG	N	NI	.0140	=		150.00		J
HM-24	(0.0- 0.0)	WG	N	NI	.0200	=		150.00		J
HM-24	(0.0- 0.0)	WG	N	NI	.2700	=		150.00		J
HM-24	(0.0- 0.0)	WG	N	PB	.0500	=		500.00		J
HM-24	(0.0- 0.0)	WG	N	ZN	.2100	=		20.00		J
HM-24	(0.0- 0.0)	WG	N	ZN	1.1000	=		20.00		J
HM-24	(0.0- 0.0)	WG	N	ZN	18.0000	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	AG	.0150	=		70.00		J
HM-25	(0.0- 0.0)	WG	N	AG	.0210	=		70.00		J
HM-25	(0.0- 0.0)	WG	N	AS	.2300	=		600.00		J
HM-25	(0.0- 0.0)	WG	N	BA	.6000	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
HM-25	(0.0- 0.0)	WG	N	FE	.0490	=		70.00		J
HM-25	(0.0- 0.0)	WG	N	FE	.1500	=		70.00		J
HM-25	(0.0- 0.0)	WG	N	FE	.4700	=		70.00		J
HM-25	(0.0- 0.0)	WG	N	FE	1.2000	=		70.00		J
HM-25	(0.0- 0.0)	WG	N	FE	8.1000	=		70.00		J
HM-25	(0.0- 0.0)	WG	N	K	.4100	=		5000.00		J
HM-25	(0.0- 0.0)	WG	N	K	.4300	=		5000.00		J
HM-25	(0.0- 0.0)	WG	N	K	1.8000	=		5000.00		J
HM-25	(0.0- 0.0)	WG	N	MG	6.1000	=		300.00		J
HM-25	(0.0- 0.0)	WG	N	MG	8.1000	=		300.00		J
HM-25	(0.0- 0.0)	WG	N	MG	8.5000	=		300.00		J
HM-25	(0.0- 0.0)	WG	N	MN	.1700	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	MN	.3600	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	MN	.6600	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	MN	1.2000	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	MN	2.2000	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	MN	2.4000	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	NA	3.7000	=		300.00		J
HM-25	(0.0- 0.0)	WG	N	NA	31.0000	=		300.00		J
HM-25	(0.0- 0.0)	WG	N	NA	40.0000	=		300.00		J
HM-25	(0.0- 0.0)	WG	N	NI	.0050	=		150.00		J
HM-25	(0.0- 0.0)	WG	N	NI	.0180	=		150.00		J
HM-25	(0.0- 0.0)	WG	N	PB	.0130	=		500.00		J
HM-25	(0.0- 0.0)	WG	N	PB	.0400	=		500.00		J
HM-25	(0.0- 0.0)	WG	N	PB	.0500	=		500.00		J
HM-25	(0.0- 0.0)	WG	N	ZN	.0240	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	ZN	.0540	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	ZN	.3900	=		20.00		J
HM-25	(0.0- 0.0)	WG	N	ZN	.6400	=		20.00		J
HM-26	(0.0- 0.0)	WG	N	AG	.0080	=		70.00		J
HM-26	(0.0- 0.0)	WG	N	AG	.0150	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-26	(0.0- 0.0)	WG	N	CR	.0260	=		70.00		J
HM-26	(0.0- 0.0)	WG	N	FE	.0090	=		70.00		J
HM-26	(0.0- 0.0)	WG	N	FE	.0100	=		70.00		J
HM-26	(0.0- 0.0)	WG	N	FE	.1600	=		70.00		J
HM-26	(0.0- 0.0)	WG	N	FE	.8700	=		70.00		J
HM-26	(0.0- 0.0)	WG	N	K	20.0000	=		5000.00		J
HM-26	(0.0- 0.0)	WG	N	K	23.0000	=		5000.00		J
HM-26	(0.0- 0.0)	WG	N	MG	35.0000	=		300.00		J
HM-26	(0.0- 0.0)	WG	N	MG	46.0000	=		300.00		J
HM-26	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-26	(0.0- 0.0)	WG	N	MN	.1200	=		20.00		J
HM-26	(0.0- 0.0)	WG	N	MN	.1200	=		20.00		J
HM-26	(0.0- 0.0)	WG	N	MN	.1500	=		20.00		J
HM-26	(0.0- 0.0)	WG	N	MN	.1700	=		20.00		J
HM-26	(0.0- 0.0)	WG	N	NA	200.0000	=		300.00		J
HM-26	(0.0- 0.0)	WG	N	NA	210.0000	=		300.00		J
HM-26	(0.0- 0.0)	WG	N	PB	.0040	=		500.00		J
HM-26	(0.0- 0.0)	WG	N	PB	.0370	=		500.00		J
HM-26	(0.0- 0.0)	WG	N	ZN	.0310	=		20.00		J
HM-27	(0.0- 0.0)	WG	N	AG	.0110	=		70.00		J
HM-27	(0.0- 0.0)	WG	N	AG	.0170	=		70.00		J
HM-27	(0.0- 0.0)	WG	N	CR	.0070	=		70.00		J
HM-27	(0.0- 0.0)	WG	N	CR	.0070	=		70.00		J
HM-27	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
HM-27	(0.0- 0.0)	WG	N	FE	.0180	=		70.00		J
HM-27	(0.0- 0.0)	WG	N	FE	.0370	=		70.00		J
HM-27	(0.0- 0.0)	WG	N	FE	.2400	=		70.00		J
HM-27	(0.0- 0.0)	WG	N	FE	.6100	=		70.00		J
HM-27	(0.0- 0.0)	WG	N	K	16.0000	=		5000.00		J
HM-27	(0.0- 0.0)	WG	N	K	18.0000	=		5000.00		J
HM-27	(0.0- 0.0)	WG	N	MG	48.0000	=		300.00		J
HM-27	(0.0- 0.0)	WG	N	MG	68.0000	=		300.00		J
HM-27	(0.0- 0.0)	WG	N	MN	.0800	=		20.00		J
HM-27	(0.0- 0.0)	WG	N	MN	.1300	=		20.00		J
HM-27	(0.0- 0.0)	WG	N	MN	.1600	=		20.00		J
HM-27	(0.0- 0.0)	WG	N	MN	.2800	=		20.00		J
HM-27	(0.0- 0.0)	WG	N	NA	260.0000	=		300.00		J
HM-27	(0.0- 0.0)	WG	N	NA	290.0000	=		300.00		J
HM-27	(0.0- 0.0)	WG	N	NI	.0070	=		150.00		J
HM-27	(0.0- 0.0)	WG	N	NI	.0070	=		150.00		J
HM-27	(0.0- 0.0)	WG	N	PB	.0240	=		500.00		J
HM-27	(0.0- 0.0)	WG	N	ZN	.0710	=		20.00		J
HM-28	(0.0- 0.0)	WG	N	AG	.0030	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-28	(0.0- 0.0)	WG	N	AG	.0110	=		70.00		J
HM-28	(0.0- 0.0)	WG	N	AG	.0130	=		70.00		J
HM-28	(0.0- 0.0)	WG	N	CR	.0280	=		70.00		J
HM-28	(0.0- 0.0)	WG	N	CR	.0800	=		70.00		J
HM-28	(0.0- 0.0)	WG	N	CR	.1150	=		70.00		J
HM-28	(0.0- 0.0)	WG	N	CR	.2200	=		70.00		J
HM-28	(0.0- 0.0)	WG	N	FE	.0100	=		70.00		J
HM-28	(0.0- 0.0)	WG	N	FE	.0200	=		70.00		J
HM-28	(0.0- 0.0)	WG	N	FE	.1100	=		70.00		J
HM-28	(0.0- 0.0)	WG	N	FE	.8500	=		70.00		J
HM-28	(0.0- 0.0)	WG	N	K	.3900	=		5000.00		J
HM-28	(0.0- 0.0)	WG	N	K	2.3000	=		5000.00		J
HM-28	(0.0- 0.0)	WG	N	MG	6.5000	=		300.00		J
HM-28	(0.0- 0.0)	WG	N	MG	27.0000	=		300.00		J
HM-28	(0.0- 0.0)	WG	N	MN	.0080	=		20.00		J
HM-28	(0.0- 0.0)	WG	N	MN	.0820	=		20.00		J
HM-28	(0.0- 0.0)	WG	N	MN	.1200	=		20.00		J
HM-28	(0.0- 0.0)	WG	N	MN	.2400	=		20.00		J
HM-28	(0.0- 0.0)	WG	N	MN	.3100	=		20.00		J
HM-28	(0.0- 0.0)	WG	N	NA	39.0000	=		300.00		J
HM-28	(0.0- 0.0)	WG	N	NA	52.0000	=		300.00		J
HM-28	(0.0- 0.0)	WG	N	NI	.0090	=		150.00		J
HM-28	(0.0- 0.0)	WG	N	NI	.0500	=		150.00		J
HM-28	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-28	(0.0- 0.0)	WG	N	ZN	.0230	=		20.00		J
HM-28	(0.0- 0.0)	WG	N	ZN	.0530	=		20.00		J
HM-28	(0.0- 0.0)	WG	N	ZN	.1600	=		20.00		J
HM-29	(0.0- 0.0)	WG	N	AG	.0060	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	AG	.0190	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	AG	.1900	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	BE	.0010	=		3.00		J
HM-29	(0.0- 0.0)	WG	N	CA	80.0000	=		100.00		J
HM-29	(0.0- 0.0)	WG	N	CD	.0030	=		40.00		J
HM-29	(0.0- 0.0)	WG	N	CD	.0080	=		40.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.0790	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.1060	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.1100	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.1100	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.1530	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.1700	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.2520	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.3100	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.3100	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.3800	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-29	(0.0- 0.0)	WG	N	CR	.4000	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	CR	.4200	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	FE	.0290	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	FE	.1800	=		70.00		J
HM-29	(0.0- 0.0)	WG	N	K	.2100	=		5000.00		J
HM-29	(0.0- 0.0)	WG	N	K	1.6000	=		5000.00		J
HM-29	(0.0- 0.0)	WG	N	MG	2.6000	=		300.00		J
HM-29	(0.0- 0.0)	WG	N	MG	3.9000	=		300.00		J
HM-29	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
HM-29	(0.0- 0.0)	WG	N	MN	.0040	=		20.00		J
HM-29	(0.0- 0.0)	WG	N	MN	.1500	=		20.00		J
HM-29	(0.0- 0.0)	WG	N	NA	220.0000	=		300.00		J
HM-29	(0.0- 0.0)	WG	N	NA	230.0000	=		300.00		J
HM-29	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
HM-29	(0.0- 0.0)	WG	N	ZN	.0040	=		20.00		J
HM-29	(0.0- 0.0)	WG	N	ZN	.0470	=		20.00		J
HM-30	(0.0- 0.0)	WG	N	AG	.0020	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	AG	.0080	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	AG	.0150	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	AL	.0840	=		500.00		J
HM-30	(0.0- 0.0)	WG	N	BE	.0010	=		3.00		J
HM-30	(0.0- 0.0)	WG	N	CD	.0030	=		40.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.0080	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.0150	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.0220	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.1100	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.1800	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.1800	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.3100	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.5900	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.8300	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	.8620	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CR	1.4000	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	CU	.0210	=		60.00		J
HM-30	(0.0- 0.0)	WG	N	FE	.0340	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	FE	.0380	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	FE	.1200	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	FE	.4000	=		70.00		J
HM-30	(0.0- 0.0)	WG	N	K	.4000	=		5000.00		J
HM-30	(0.0- 0.0)	WG	N	K	2.0000	=		5000.00		J
HM-30	(0.0- 0.0)	WG	N	MG	3.1000	=		300.00		J
HM-30	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-30	(0.0- 0.0)	WG	N	MG	4.4000	=		300.00		J
HM-30	(0.0- 0.0)	WG	N	MN	.0370	=		20.00		J
HM-30	(0.0- 0.0)	WG	N	NA	28.0000	=		300.00		J
HM-30	(0.0- 0.0)	WG	N	NA	34.0000	=		300.00		J
HM-30	(0.0- 0.0)	WG	N	NA	38.0000	=		300.00		J
HM-30	(0.0- 0.0)	WG	N	NI	.0070	=		150.00		J
HM-30	(0.0- 0.0)	WG	N	NI	.0090	=		150.00		J
HM-30	(0.0- 0.0)	WG	N	NI	.0160	=		150.00		J
HM-30	(0.0- 0.0)	WG	N	NI	.0480	=		150.00		J
HM-30	(0.0- 0.0)	WG	N	PB	.0050	=		500.00		J
HM-30	(0.0- 0.0)	WG	N	ZN	.0350	=		20.00		J
HM-30	(0.0- 0.0)	WG	N	ZN	.1400	=		20.00		J
HM-30	(0.0- 0.0)	WG	N	ZN	.4400	=		20.00		J
HM-31	(0.0- 0.0)	WG	N	AG	.0180	=		70.00		J
HM-31	(0.0- 0.0)	WG	N	CR	.0010	=		70.00		J
HM-31	(0.0- 0.0)	WG	N	CR	.0030	=		70.00		J
HM-31	(0.0- 0.0)	WG	N	CR	.3900	=		70.00		J
HM-31	(0.0- 0.0)	WG	N	CU	.0070	=		60.00		J
HM-31	(0.0- 0.0)	WG	N	CU	.0500	=		60.00		J
HM-31	(0.0- 0.0)	WG	N	FE	.0130	=		70.00		J
HM-31	(0.0- 0.0)	WG	N	FE	.0970	=		70.00		J
HM-31	(0.0- 0.0)	WG	N	FE	.9200	=		70.00		J
HM-31	(0.0- 0.0)	WG	N	FE	1.0000	=		70.00		J
HM-31	(0.0- 0.0)	WG	N	K	1.3000	=		5000.00		J
HM-31	(0.0- 0.0)	WG	N	K	3.5000	=		5000.00		J
HM-31	(0.0- 0.0)	WG	N	MG	8.8000	=		300.00		J
HM-31	(0.0- 0.0)	WG	N	MG	12.0000	=		300.00		J
HM-31	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
HM-31	(0.0- 0.0)	WG	N	MN	.0110	=		20.00		J
HM-31	(0.0- 0.0)	WG	N	MN	.0970	=		20.00		J
HM-31	(0.0- 0.0)	WG	N	MN	.1200	=		20.00		J
HM-31	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
HM-31	(0.0- 0.0)	WG	N	NA	66.0000	=		300.00		J
HM-31	(0.0- 0.0)	WG	N	PB	.0100	=		500.00		J
HM-31	(0.0- 0.0)	WG	N	PB	.0200	=		500.00		J
HM-31	(0.0- 0.0)	WG	N	PB	.0590	=		500.00		J
HM-31	(0.0- 0.0)	WG	N	ZN	.0810	=		20.00		J
HM-31	(0.0- 0.0)	WG	N	ZN	.1600	=		20.00		J
HM-31	(0.0- 0.0)	WG	N	ZN	.7900	=		20.00		J
HM-32	(0.0- 0.0)	WG	N	AL	.0790	=		500.00		J
HM-32	(0.0- 0.0)	WG	N	AL	.1000	=		500.00		J
HM-32	(0.0- 0.0)	WG	N	AS	.0060	=		600.00		J
HM-32	(0.0- 0.0)	WG	N	BA	.0740	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-32	(0.0- 0.0)	WG	N	CR	.0030	=		70.00		J
HM-32	(0.0- 0.0)	WG	N	CU	.0030	=		60.00		J
HM-32	(0.0- 0.0)	WG	N	CU	.0420	=		60.00		J
HM-32	(0.0- 0.0)	WG	N	FE	.0350	=		70.00		J
HM-32	(0.0- 0.0)	WG	N	K	.5200	=		5000.00		J
HM-32	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-32	(0.0- 0.0)	WG	N	MN	.0050	=		20.00		J
HM-32	(0.0- 0.0)	WG	N	MN	.0060	=		20.00		J
HM-32	(0.0- 0.0)	WG	N	NA	42.0000	=		300.00		J
HM-33	(0.0- 0.0)	WG	N	AL	.5000	=		500.00		J
HM-33	(0.0- 0.0)	WG	N	FE	.1900	=		70.00		J
HM-34	(0.0- 0.0)	WG	N	FE	.0190	=		70.00		J
HM-34	(0.0- 0.0)	WG	N	K	2.2000	=		5000.00		J
HM-34	(0.0- 0.0)	WG	N	MG	9.3000	=		300.00		J
HM-34	(0.0- 0.0)	WG	N	NA	19.0000	=		300.00		J
HM-35	(0.0- 0.0)	WG	N	AL	.1700	=		500.00		J
HM-35	(0.0- 0.0)	WG	N	FE	.0550	=		70.00		J
HM-35	(0.0- 0.0)	WG	N	K	2.4000	=		5000.00		J
HM-35	(0.0- 0.0)	WG	N	MG	7.6000	=		300.00		J
HM-35	(0.0- 0.0)	WG	N	MN	.0690	=		20.00		J
HM-35	(0.0- 0.0)	WG	N	NA	37.0000	=		300.00		J
HM-35	(0.0- 0.0)	WG	N	ZN	.0440	=		20.00		J
HM-36	(0.0- 0.0)	WG	N	AS	.0030	=		600.00		J
HM-36	(0.0- 0.0)	WG	N	CR	.0260	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	CR	.0270	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	CR	.0460	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	CR	.0480	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	CR	.0510	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	CR	.0570	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	FE	.0420	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	FE	2.6000	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	FE	3.7000	=		70.00		J
HM-36	(0.0- 0.0)	WG	N	K	2.4000	=		5000.00		J
HM-36	(0.0- 0.0)	WG	N	MG	10.0000	=		300.00		J
HM-36	(0.0- 0.0)	WG	N	MN	.0030	=		20.00		J
HM-36	(0.0- 0.0)	WG	N	MN	.0050	=		20.00		J
HM-36	(0.0- 0.0)	WG	N	MN	.0500	=		20.00		J
HM-36	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
HM-36	(0.0- 0.0)	WG	N	NI	.0050	=		150.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-36	(0.0- 0.0)	WG	N	PB	.0030	=		500.00		J
HM-36	(0.0- 0.0)	WG	N	PB	.0070	=		500.00		J
HM-36	(0.0- 0.0)	WG	N	SE	.0050	=		800.00		J
HM-36	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-36	(0.0- 0.0)	WG	N	ZN	.0650	=		20.00		J
HM-37	(0.0- 0.0)	WG	N	FE	.0520	=		70.00		J
HM-37	(0.0- 0.0)	WG	N	FE	1.2000	=		70.00		J
HM-37	(0.0- 0.0)	WG	N	K	10.0000	=		5000.00		J
HM-37	(0.0- 0.0)	WG	N	MG	54.0000	=		300.00		J
HM-37	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
HM-37	(0.0- 0.0)	WG	N	MN	1.3000	=		20.00		J
HM-37	(0.0- 0.0)	WG	N	NA	230.0000	=		300.00		J
HM-37	(0.0- 0.0)	WG	N	PB	.0200	=		500.00		J
HM-37	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
HM-38	(0.0- 0.0)	WG	N	AS	.0100	=		600.00		J
HM-38	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-38	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
HM-38	(0.0- 0.0)	WG	N	FE	1.0000	=		70.00		J
HM-38	(0.0- 0.0)	WG	N	MN	1.1000	=		20.00		J
HM-38	(0.0- 0.0)	WG	N	PB	2.6000	=		500.00		J
HM-38	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J
HM-39	(0.0- 0.0)	WG	N	AL	.9000	=		500.00		J
HM-39	(0.0- 0.0)	WG	N	FE	.0710	=		70.00		J
HM-39	(0.0- 0.0)	WG	N	MG	52.0000	=		300.00		J
HM-39	(0.0- 0.0)	WG	N	MN	.0570	=		20.00		J
HM-39	(0.0- 0.0)	WG	N	NA	260.0000	=		300.00		J
HM-39	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J
HM-3A	(0.0- 0.0)	WG	N	AS	.0250	=		600.00		J
HM-3A	(0.0- 0.0)	WG	N	CD	.0090	=		40.00		J
HM-3A	(0.0- 0.0)	WG	N	CR	.0130	=		70.00		J
HM-3A	(0.0- 0.0)	WG	N	CU	.0280	=		60.00		J
HM-3A	(0.0- 0.0)	WG	N	FE	.0400	=		70.00		J
HM-3A	(0.0- 0.0)	WG	N	FE	.0660	=		70.00		J
HM-3A	(0.0- 0.0)	WG	N	K	3.6000	=		5000.00		J
HM-3A	(0.0- 0.0)	WG	N	MG	17.1000	=		300.00		J
HM-3A	(0.0- 0.0)	WG	N	MN	.1900	=		20.00		J
HM-3A	(0.0- 0.0)	WG	N	MN	.2100	=		20.00		J
HM-3A	(0.0- 0.0)	WG	N	NA	34.3000	=		300.00		J
HM-3A	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
HM-3A	(0.0- 0.0)	WG	N	NI	.0760	=		150.00		J
HM-3A	(0.0- 0.0)	WG	N	ZN	.0320	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-3A	(0.0- 0.0)	WG	N	ZN	.0700	=		20.00		J
HM-3B	(0.0- 0.0)	WG	N	AS	.0200	=		600.00		J
HM-3B	(0.0- 0.0)	WG	N	AS	.1300	=		600.00		J
HM-3B	(0.0- 0.0)	WG	N	CD	.0110	=		40.00		J
HM-3B	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
HM-3B	(0.0- 0.0)	WG	N	CR	.0260	=		70.00		J
HM-3B	(0.0- 0.0)	WG	N	CU	.0180	=		60.00		J
HM-3B	(0.0- 0.0)	WG	N	CU	.0190	=		60.00		J
HM-3B	(0.0- 0.0)	WG	N	FE	.0920	=		70.00		J
HM-3B	(0.0- 0.0)	WG	N	FE	.1700	=		70.00		J
HM-3B	(0.0- 0.0)	WG	N	FE	.1900	=		70.00		J
HM-3B	(0.0- 0.0)	WG	N	K	12.3000	=		5000.00		J
HM-3B	(0.0- 0.0)	WG	N	MG	15.5000	=		300.00		J
HM-3B	(0.0- 0.0)	WG	N	MN	.0120	=		20.00		J
HM-3B	(0.0- 0.0)	WG	N	MN	.2900	=		20.00		J
HM-3B	(0.0- 0.0)	WG	N	MN	.3800	=		20.00		J
HM-3B	(0.0- 0.0)	WG	N	NI	.0200	=		150.00		J
HM-3B	(0.0- 0.0)	WG	N	NI	.0760	=		150.00		J
HM-3B	(0.0- 0.0)	WG	N	SE	.0350	=		800.00		J
HM-3B	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J
HM-3B	(0.0- 0.0)	WG	N	ZN	.1000	=		20.00		J
HM-3B	(0.0- 0.0)	WG	N	ZN	.1800	=		20.00		J
HM-40	(0.0- 0.0)	WG	N	AL	.0770	=		500.00		J
HM-40	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
HM-40	(0.0- 0.0)	WG	N	K	2.1000	=		5000.00		J
HM-40	(0.0- 0.0)	WG	N	MG	3.2000	=		300.00		J
HM-40	(0.0- 0.0)	WG	N	MG	4.2000	=		300.00		J
HM-40	(0.0- 0.0)	WG	N	NA	20.0000	=		300.00		J
HM-40	(0.0- 0.0)	WG	N	NA	27.0000	=		300.00		J
HM-41	(0.0- 0.0)	WG	N	AL	.1500	=		500.00		J
HM-41	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
HM-41	(0.0- 0.0)	WG	N	CD	.0070	=		40.00		J
HM-41	(0.0- 0.0)	WG	N	CR	.0020	=		70.00		J
HM-41	(0.0- 0.0)	WG	N	CR	.0170	=		70.00		J
HM-41	(0.0- 0.0)	WG	N	CR	.1000	=		70.00		J
HM-41	(0.0- 0.0)	WG	N	CU	.0050	=		60.00		J
HM-41	(0.0- 0.0)	WG	N	CU	.0140	=		60.00		J
HM-41	(0.0- 0.0)	WG	N	FE	.1500	=		70.00		J
HM-41	(0.0- 0.0)	WG	N	K	.6300	=		5000.00		J
HM-41	(0.0- 0.0)	WG	N	MG	4.0000	=		300.00		J
HM-41	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
HM-41	(0.0- 0.0)	WG	N	MN	.0120	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-41	(0.0- 0.0)	WG	N	NA	55.0000	=		300.00		J
HM-41	(0.0- 0.0)	WG	N	ZN	.0090	=		20.00		J
HM-42	(0.0- 0.0)	WG	N	AG	.0050	=		70.00		J
HM-42	(0.0- 0.0)	WG	N	AL	.2600	=		500.00		J
HM-42	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-42	(0.0- 0.0)	WG	N	CU	.0350	=		60.00		J
HM-42	(0.0- 0.0)	WG	N	FE	.0390	=		70.00		J
HM-42	(0.0- 0.0)	WG	N	K	1.8000	=		5000.00		J
HM-42	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-42	(0.0- 0.0)	WG	N	NA	14.0000	=		300.00		J
HM-42	(0.0- 0.0)	WG	N	NI	.0290	=		150.00		J
HM-42	(0.0- 0.0)	WG	N	PB	.0130	=		500.00		J
HM-42	(0.0- 0.0)	WG	N	ZN	.0270	=		20.00		J
HM-42	(0.0- 0.0)	WG	N	ZN	.0830	=		20.00		J
HM-43	(0.0- 0.0)	WG	N	K	1.5000	=		5000.00		J
HM-43	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-43	(0.0- 0.0)	WG	N	NA	10.0000	=		300.00		J
HM-44	(0.0- 0.0)	WG	N	K	1.3000	=		5000.00		J
HM-44	(0.0- 0.0)	WG	N	MG	2.9000	=		300.00		J
HM-44	(0.0- 0.0)	WG	N	NA	17.0000	=		300.00		J
HM-45	(0.0- 0.0)	WG	N	AG	.0090	=		70.00		J
HM-45	(0.0- 0.0)	WG	N	AL	.1700	=		500.00		J
HM-45	(0.0- 0.0)	WG	N	CR	.0030	=		70.00		J
HM-45	(0.0- 0.0)	WG	N	CR	.0090	=		70.00		J
HM-45	(0.0- 0.0)	WG	N	CR	.0120	=		70.00		J
HM-45	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
HM-45	(0.0- 0.0)	WG	N	CR	.0500	=		70.00		J
HM-45	(0.0- 0.0)	WG	N	CR	.2690	=		70.00		J
HM-45	(0.0- 0.0)	WG	N	CU	.0120	=		60.00		J
HM-45	(0.0- 0.0)	WG	N	FE	.0100	=		70.00		J
HM-45	(0.0- 0.0)	WG	N	K	1.3000	=		5000.00		J
HM-45	(0.0- 0.0)	WG	N	MG	11.0000	=		300.00		J
HM-45	(0.0- 0.0)	WG	N	NA	30.0000	=		300.00		J
HM-45	(0.0- 0.0)	WG	N	NI	.0070	=		150.00		J
HM-45	(0.0- 0.0)	WG	N	NI	.0280	=		150.00		J
HM-45	(0.0- 0.0)	WG	N	ZN	.0740	=		20.00		J
HM-46	(0.0- 0.0)	WG	N	AG	.0070	=		70.00		J
HM-46	(0.0- 0.0)	WG	N	AL	.1300	=		500.00		J
HM-46	(0.0- 0.0)	WG	N	CR	.0050	=		70.00		J
HM-46	(0.0- 0.0)	WG	N	CU	.0150	=		60.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-46	(0.0- 0.0)	WG	N	FE	.0100	=		70.00		J
HM-46	(0.0- 0.0)	WG	N	K	2.6000	=		5000.00		J
HM-46	(0.0- 0.0)	WG	N	MG	4.6000	=		300.00		J
HM-46	(0.0- 0.0)	WG	N	NA	23.0000	=		300.00		J
HM-46	(0.0- 0.0)	WG	N	NI	.0240	=		150.00		J
HM-46	(0.0- 0.0)	WG	N	ZN	.0180	=		20.00		J
HM-47	(0.0- 0.0)	WG	N	AL	.0750	=		500.00		J
HM-47	(0.0- 0.0)	WG	N	BA	.2880	=		20.00		J
HM-47	(0.0- 0.0)	WG	N	BA	.4100	=		20.00		J
HM-47	(0.0- 0.0)	WG	N	CA	89.0000	=		100.00		J
HM-47	(0.0- 0.0)	WG	N	FE	.0120	=		70.00		J
HM-47	(0.0- 0.0)	WG	N	FE	.0240	=		70.00		J
HM-47	(0.0- 0.0)	WG	N	K	1.0000	=		5000.00		J
HM-47	(0.0- 0.0)	WG	N	MG	3.2000	=		300.00		J
HM-47	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-47	(0.0- 0.0)	WG	N	MN	.1900	=		20.00		J
HM-47	(0.0- 0.0)	WG	N	MN	.2550	=		20.00		J
HM-47	(0.0- 0.0)	WG	N	MN	.4500	=		20.00		J
HM-47	(0.0- 0.0)	WG	N	MN	.4900	=		20.00		J
HM-47	(0.0- 0.0)	WG	N	NA	13.0000	=		300.00		J
HM-47	(0.0- 0.0)	WG	N	NA	23.0000	=		300.00		J
HM-47	(0.0- 0.0)	WG	N	NI	.0110	=		150.00		J
HM-47	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-47	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-47	(0.0- 0.0)	WG	N	ZN	.4600	=		20.00		J
HM-48	(0.0- 0.0)	WG	N	AG	.0040	=		70.00		J
HM-48	(0.0- 0.0)	WG	N	AL	.6000	=		500.00		J
HM-48	(0.0- 0.0)	WG	N	BA	.0450	=		20.00		J
HM-48	(0.0- 0.0)	WG	N	BE	.0020	=		3.00		J
HM-48	(0.0- 0.0)	WG	N	CA	66.0000	=		100.00		J
HM-48	(0.0- 0.0)	WG	N	CA	66.0000	=		100.00		J
HM-48	(0.0- 0.0)	WG	N	CD	.0450	=		40.00		J
HM-48	(0.0- 0.0)	WG	N	CR	.0110	=		70.00		J
HM-48	(0.0- 0.0)	WG	N	CR	.0230	=		70.00		J
HM-48	(0.0- 0.0)	WG	N	CR	.0580	=		70.00		J
HM-48	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-48	(0.0- 0.0)	WG	N	CU	.0130	=		60.00		J
HM-48	(0.0- 0.0)	WG	N	CU	.0200	=		60.00		J
HM-48	(0.0- 0.0)	WG	N	CU	.0340	=		60.00		J
HM-48	(0.0- 0.0)	WG	N	FE	.0100	=		70.00		J
HM-48	(0.0- 0.0)	WG	N	FE	.0990	=		70.00		J
HM-48	(0.0- 0.0)	WG	N	FE	.2000	=		70.00		J
HM-48	(0.0- 0.0)	WG	N	FE	.2800	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-48	(0.0- 0.0)	WG	N	K	3.6000	=		5000.00		J
HM-48	(0.0- 0.0)	WG	N	K	4.1000	=		5000.00		J
HM-48	(0.0- 0.0)	WG	N	K	4.4000	=		5000.00		J
HM-48	(0.0- 0.0)	WG	N	MG	3.0000	=		300.00		J
HM-48	(0.0- 0.0)	WG	N	MG	6.3000	=		300.00		J
HM-48	(0.0- 0.0)	WG	N	MG	7.1000	=		300.00		J
HM-48	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
HM-48	(0.0- 0.0)	WG	N	MN	.0130	=		20.00		J
HM-48	(0.0- 0.0)	WG	N	MN	.0150	=		20.00		J
HM-48	(0.0- 0.0)	WG	N	NA	16.0000	=		300.00		J
HM-48	(0.0- 0.0)	WG	N	NA	25.0000	=		300.00		J
HM-48	(0.0- 0.0)	WG	N	NA	31.0000	=		300.00		J
HM-48	(0.0- 0.0)	WG	N	NI	.0110	=		150.00		J
HM-48	(0.0- 0.0)	WG	N	NI	.0140	=		150.00		J
HM-48	(0.0- 0.0)	WG	N	PB	.0020	=		500.00		J
HM-48	(0.0- 0.0)	WG	N	PB	.0100	=		500.00		J
HM-48	(0.0- 0.0)	WG	N	ZN	.0040	=		20.00		J
HM-48	(0.0- 0.0)	WG	N	ZN	.1000	=		20.00		J
HM-48	(0.0- 0.0)	WG	N	ZN	.3800	=		20.00		J
HM-49	(0.0- 0.0)	WG	N	AG	.0040	=		70.00		J
HM-49	(0.0- 0.0)	WG	N	FE	.0900	=		70.00		J
HM-49	(0.0- 0.0)	WG	N	K	2.5000	=		5000.00		J
HM-49	(0.0- 0.0)	WG	N	MG	29.0000	=		300.00		J
HM-49	(0.0- 0.0)	WG	N	MN	.1200	=		20.00		J
HM-49	(0.0- 0.0)	WG	N	NA	66.0000	=		300.00		J
HM-49	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
HM-4A	(0.0- 0.0)	WG	N	AG	.0100	=		70.00		J
HM-4A	(0.0- 0.0)	WG	N	AS	.0010	=		600.00		J
HM-4A	(0.0- 0.0)	WG	N	CD	.0050	=		40.00		J
HM-4A	(0.0- 0.0)	WG	N	CD	.0100	=		40.00		J
HM-4A	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-4A	(0.0- 0.0)	WG	N	CR	.2500	=		70.00		J
HM-4A	(0.0- 0.0)	WG	N	CU	.0200	=		60.00		J
HM-4A	(0.0- 0.0)	WG	N	CU	.0300	=		60.00		J
HM-4A	(0.0- 0.0)	WG	N	FE	.1100	=		70.00		J
HM-4A	(0.0- 0.0)	WG	N	FE	.4400	=		70.00		J
HM-4A	(0.0- 0.0)	WG	N	FE	2.6000	=		70.00		J
HM-4A	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
HM-4A	(0.0- 0.0)	WG	N	MN	.3200	=		20.00		J
HM-4A	(0.0- 0.0)	WG	N	MN	.7200	=		20.00		J
HM-4A	(0.0- 0.0)	WG	N	NI	.3200	=		150.00		J
HM-4A	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
HM-4A	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-4A	(0.0- 0.0)	WG	N	ZN	.0720	=		20.00		J
HM-4B	(0.0- 0.0)	WG	N	AG	.0200	=		70.00		J
HM-4B	(0.0- 0.0)	WG	N	AG	.0300	=		70.00		J
HM-4B	(0.0- 0.0)	WG	N	AS	.0070	=		600.00		J
HM-4B	(0.0- 0.0)	WG	N	AS	.1400	=		600.00		J
HM-4B	(0.0- 0.0)	WG	N	CD	.0100	=		40.00		J
HM-4B	(0.0- 0.0)	WG	N	CD	.0260	=		40.00		J
HM-4B	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
HM-4B	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
HM-4B	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-4B	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
HM-4B	(0.0- 0.0)	WG	N	CU	.0200	=		60.00		J
HM-4B	(0.0- 0.0)	WG	N	CU	.0740	=		60.00		J
HM-4B	(0.0- 0.0)	WG	N	FE	.0800	=		70.00		J
HM-4B	(0.0- 0.0)	WG	N	FE	1.1000	=		70.00		J
HM-4B	(0.0- 0.0)	WG	N	FE	10.7400	=		70.00		J
HM-4B	(0.0- 0.0)	WG	N	K	6.1000	=		5000.00		J
HM-4B	(0.0- 0.0)	WG	N	MG	70.7000	=		300.00		J
HM-4B	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
HM-4B	(0.0- 0.0)	WG	N	MN	7.1500	=		20.00		J
HM-4B	(0.0- 0.0)	WG	N	MN	8.5000	=		20.00		J
HM-4B	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
HM-4B	(0.0- 0.0)	WG	N	NI	.0200	=		150.00		J
HM-4B	(0.0- 0.0)	WG	N	NI	.2700	=		150.00		J
HM-4B	(0.0- 0.0)	WG	N	PB	.0600	=		500.00		J
HM-4B	(0.0- 0.0)	WG	N	PB	.1200	=		500.00		J
HM-4B	(0.0- 0.0)	WG	N	SE	.1500	=		800.00		J
HM-4B	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
HM-4B	(0.0- 0.0)	WG	N	ZN	.0600	=		20.00		J
HM-4B	(0.0- 0.0)	WG	N	ZN	.3800	=		20.00		J
HM-5	(0.0- 0.0)	WG	N	AL	.0670	=		500.00		J
HM-5	(0.0- 0.0)	WG	N	AL	.5700	=		500.00		J
HM-5	(0.0- 0.0)	WG	N	AL	.5900	=		500.00		J
HM-5	(0.0- 0.0)	WG	N	AS	.1100	=		600.00		J
HM-5	(0.0- 0.0)	WG	N	CD	.0080	=		40.00		J
HM-5	(0.0- 0.0)	WG	N	CD	.0230	=		40.00		J
HM-5	(0.0- 0.0)	WG	N	CU	.0140	=		60.00		J
HM-5	(0.0- 0.0)	WG	N	FE	.0240	=		70.00		J
HM-5	(0.0- 0.0)	WG	N	FE	.0310	=		70.00		J
HM-5	(0.0- 0.0)	WG	N	FE	.1000	=		70.00		J
HM-5	(0.0- 0.0)	WG	N	K	2.6000	=		5000.00		J
HM-5	(0.0- 0.0)	WG	N	K	4.0000	=		5000.00		J
HM-5	(0.0- 0.0)	WG	N	MG	35.4000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-5	(0.0- 0.0)	WG	N	MG	36.1000	=		300.00		J
HM-5	(0.0- 0.0)	WG	N	MN	.0040	=		20.00		J
HM-5	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-5	(0.0- 0.0)	WG	N	MN	.0410	=		20.00		J
HM-5	(0.0- 0.0)	WG	N	MN	.1200	=		20.00		J
HM-5	(0.0- 0.0)	WG	N	MN	.2000	=		20.00		J
HM-5	(0.0- 0.0)	WG	N	MN	.2000	=		20.00		J
HM-5	(0.0- 0.0)	WG	N	MN	.2700	=		20.00		J
HM-5	(0.0- 0.0)	WG	N	NA	34.9000	=		300.00		J
HM-5	(0.0- 0.0)	WG	N	NA	58.4000	=		300.00		J
HM-5	(0.0- 0.0)	WG	N	NI	.0040	=		150.00		J
HM-5	(0.0- 0.0)	WG	N	NI	.0420	=		150.00		J
HM-5	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-5	(0.0- 0.0)	WG	N	ZN	.0800	=		20.00		J
HM-50	(0.0- 0.0)	WG	N	CR	.0070	=		70.00		J
HM-50	(0.0- 0.0)	WG	N	FE	.0860	=		70.00		J
HM-50	(0.0- 0.0)	WG	N	MN	.2100	=		20.00		J
HM-50	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
HM-50	(0.0- 0.0)	WG	N	ZN	.0490	=		20.00		J
HM-51	(0.0- 0.0)	WG	N	BA	.1300	=		20.00		J
HM-51	(0.0- 0.0)	WG	N	CD	.0100	=		40.00		J
HM-51	(0.0- 0.0)	WG	N	FE	.0220	=		70.00		J
HM-51	(0.0- 0.0)	WG	N	FE	.1300	=		70.00		J
HM-51	(0.0- 0.0)	WG	N	K	5.3000	=		5000.00		J
HM-51	(0.0- 0.0)	WG	N	MG	120.0000	=		300.00		J
HM-51	(0.0- 0.0)	WG	N	MN	.4300	=		20.00		J
HM-51	(0.0- 0.0)	WG	N	MN	.5600	=		20.00		J
HM-51	(0.0- 0.0)	WG	N	MN	.7800	=		20.00		J
HM-51	(0.0- 0.0)	WG	N	NI	.0130	=		150.00		J
HM-51	(0.0- 0.0)	WG	N	ZN	.0840	=		20.00		J
HM-52	(0.0- 0.0)	WG	N	AL	.0750	=		500.00		J
HM-52	(0.0- 0.0)	WG	N	AL	.1500	=		500.00		J
HM-52	(0.0- 0.0)	WG	N	BA	.0600	=		20.00		J
HM-52	(0.0- 0.0)	WG	N	CA	86.0000	=		100.00		J
HM-52	(0.0- 0.0)	WG	N	CR	.0030	=		70.00		J
HM-52	(0.0- 0.0)	WG	N	CR	.0030	=		70.00		J
HM-52	(0.0- 0.0)	WG	N	CR	.0640	=		70.00		J
HM-52	(0.0- 0.0)	WG	N	FE	.0260	=		70.00		J
HM-52	(0.0- 0.0)	WG	N	FE	.1400	=		70.00		J
HM-52	(0.0- 0.0)	WG	N	K	3.1000	=		5000.00		J
HM-52	(0.0- 0.0)	WG	N	MG	3.1000	=		300.00		J
HM-52	(0.0- 0.0)	WG	N	MN	.0180	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-52	(0.0- 0.0)	WG	N	MN	.0270	=		20.00		J
HM-52	(0.0- 0.0)	WG	N	NA	16.0000	=		300.00		J
HM-52	(0.0- 0.0)	WG	N	PB	.0110	=		500.00		J
HM-53	(0.0- 0.0)	WG	N	AS	.0080	=		600.00		J
HM-53	(0.0- 0.0)	WG	N	BA	.3740	=		20.00		J
HM-53	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
HM-53	(0.0- 0.0)	WG	N	FE	.0160	=		70.00		J
HM-53	(0.0- 0.0)	WG	N	K	2.8000	=		5000.00		J
HM-53	(0.0- 0.0)	WG	N	MG	6.1000	=		300.00		J
HM-53	(0.0- 0.0)	WG	N	MG	7.1000	=		300.00		J
HM-53	(0.0- 0.0)	WG	N	MN	.2510	=		20.00		J
HM-53	(0.0- 0.0)	WG	N	MN	.6100	=		20.00		J
HM-53	(0.0- 0.0)	WG	N	MN	.8100	=		20.00		J
HM-53	(0.0- 0.0)	WG	N	NA	30.0000	=		300.00		J
HM-53	(0.0- 0.0)	WG	N	NA	35.0000	=		300.00		J
HM-53	(0.0- 0.0)	WG	N	NI	.0130	=		150.00		J
HM-53	(0.0- 0.0)	WG	N	PB	.0050	=		500.00		J
HM-53	(0.0- 0.0)	WG	N	ZN	.0060	=		20.00		J
HM-54	(0.0- 0.0)	WG	N	BA	.0270	=		20.00		J
HM-54	(0.0- 0.0)	WG	N	K	2.2000	=		5000.00		J
HM-54	(0.0- 0.0)	WG	N	MG	7.2000	=		300.00		J
HM-54	(0.0- 0.0)	WG	N	MN	.0290	=		20.00		J
HM-54	(0.0- 0.0)	WG	N	NA	20.0000	=		300.00		J
HM-55	(0.0- 0.0)	WG	N	AL	.2500	=		500.00		J
HM-55	(0.0- 0.0)	WG	N	CR	.0030	=		70.00		J
HM-55	(0.0- 0.0)	WG	N	FE	.0870	=		70.00		J
HM-55	(0.0- 0.0)	WG	N	K	2.7000	=		5000.00		J
HM-55	(0.0- 0.0)	WG	N	MG	3.6000	=		300.00		J
HM-55	(0.0- 0.0)	WG	N	MN	.0070	=		20.00		J
HM-55	(0.0- 0.0)	WG	N	NA	50.0000	=		300.00		J
HM-55	(0.0- 0.0)	WG	N	NI	.0110	=		150.00		J
HM-55	(0.0- 0.0)	WG	N	NI	.0140	=		150.00		J
HM-55	(0.0- 0.0)	WG	N	ZN	.0910	=		20.00		J
HM-56	(0.0- 0.0)	WG	N	FE	.0080	=		70.00		J
HM-56	(0.0- 0.0)	WG	N	K	1.9000	=		5000.00		J
HM-56	(0.0- 0.0)	WG	N	K	2.3000	=		5000.00		J
HM-56	(0.0- 0.0)	WG	N	MG	6.7000	=		300.00		J
HM-56	(0.0- 0.0)	WG	N	MG	9.3000	=		300.00		J
HM-56	(0.0- 0.0)	WG	N	MN	.0180	=		20.00		J
HM-56	(0.0- 0.0)	WG	N	NA	47.0000	=		300.00		J
HM-56	(0.0- 0.0)	WG	N	NA	48.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-56	(0.0- 0.0)	WG	N	NI	.0150	=		150.00		J
HM-56	(0.0- 0.0)	WG	N	NI	.0160	=		150.00		J
HM-56	(0.0- 0.0)	WG	N	PB	.0140	=		500.00		J
HM-57	(0.0- 0.0)	WG	N	AL	.2700	=		500.00		J
HM-57	(0.0- 0.0)	WG	N	CU	.0060	=		60.00		J
HM-57	(0.0- 0.0)	WG	N	FE	.0400	=		70.00		J
HM-57	(0.0- 0.0)	WG	N	K	3.1000	=		5000.00		J
HM-57	(0.0- 0.0)	WG	N	K	3.5000	=		5000.00		J
HM-57	(0.0- 0.0)	WG	N	MG	13.0000	=		300.00		J
HM-57	(0.0- 0.0)	WG	N	MG	18.0000	=		300.00		J
HM-57	(0.0- 0.0)	WG	N	MN	.0060	=		20.00		J
HM-57	(0.0- 0.0)	WG	N	NA	42.0000	=		300.00		J
HM-57	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
HM-57	(0.0- 0.0)	WG	N	NI	.0220	=		150.00		J
HM-57	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-58	(0.0- 0.0)	WG	N	AL	.1300	=		500.00		J
HM-58	(0.0- 0.0)	WG	N	CR	.0050	=		70.00		J
HM-58	(0.0- 0.0)	WG	N	FE	.0190	=		70.00		J
HM-58	(0.0- 0.0)	WG	N	K	4.3000	=		5000.00		J
HM-58	(0.0- 0.0)	WG	N	MG	19.0000	=		300.00		J
HM-58	(0.0- 0.0)	WG	N	MN	.0050	=		20.00		J
HM-58	(0.0- 0.0)	WG	N	NA	110.0000	=		300.00		J
HM-58	(0.0- 0.0)	WG	N	NI	.0030	=		150.00		J
HM-58	(0.0- 0.0)	WG	N	NI	.0120	=		150.00		J
HM-58	(0.0- 0.0)	WG	N	ZN	.0150	=		20.00		J
HM-59	(0.0- 0.0)	WG	N	AL	.6700	=		500.00		J
HM-59	(0.0- 0.0)	WG	N	FE	.1900	=		70.00		J
HM-59	(0.0- 0.0)	WG	N	K	3.4000	=		5000.00		J
HM-59	(0.0- 0.0)	WG	N	K	4.1000	=		5000.00		J
HM-59	(0.0- 0.0)	WG	N	MG	13.0000	=		300.00		J
HM-59	(0.0- 0.0)	WG	N	MG	15.0000	=		300.00		J
HM-59	(0.0- 0.0)	WG	N	NA	52.0000	=		300.00		J
HM-59	(0.0- 0.0)	WG	N	NA	82.0000	=		300.00		J
HM-59	(0.0- 0.0)	WG	N	ZN	.1000	=		20.00		J
HM-6	(0.0- 0.0)	WG	N	AS	.1300	=		600.00		J
HM-6	(0.0- 0.0)	WG	N	AS	.1600	=		600.00		J
HM-6	(0.0- 0.0)	WG	N	AS	.2800	=		600.00		J
HM-6	(0.0- 0.0)	WG	N	CD	.0110	=		40.00		J
HM-6	(0.0- 0.0)	WG	N	CR	.0260	=		70.00		J
HM-6	(0.0- 0.0)	WG	N	CU	.0220	=		60.00		J
HM-6	(0.0- 0.0)	WG	N	FE	.0720	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-6	(0.0- 0.0)	WG	N	FE	.1200	=		70.00		J
HM-6	(0.0- 0.0)	WG	N	FE	.3500	=		70.00		J
HM-6	(0.0- 0.0)	WG	N	K	19.0000	=		5000.00		J
HM-6	(0.0- 0.0)	WG	N	MG	34.2000	=		300.00		J
HM-6	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
HM-6	(0.0- 0.0)	WG	N	MN	.3600	=		20.00		J
HM-6	(0.0- 0.0)	WG	N	MN	1.2000	=		20.00		J
HM-6	(0.0- 0.0)	WG	N	NA	206.0000	=		300.00		J
HM-6	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
HM-6	(0.0- 0.0)	WG	N	NI	.0300	=		150.00		J
HM-6	(0.0- 0.0)	WG	N	NI	.1300	=		150.00		J
HM-6	(0.0- 0.0)	WG	N	PB	.0700	=		500.00		J
HM-6	(0.0- 0.0)	WG	N	PB	.0800	=		500.00		J
HM-6	(0.0- 0.0)	WG	N	PB	.1200	=		500.00		J
HM-6	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-6	(0.0- 0.0)	WG	N	ZN	.1600	=		20.00		J
HM-6	(0.0- 0.0)	WG	N	ZN	.7300	=		20.00		J
HM-60	(0.0- 0.0)	WG	N	AL	.1300	=		500.00		J
HM-60	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
HM-60	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
HM-60	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
HM-60	(0.0- 0.0)	WG	N	CR	.0210	=		70.00		J
HM-60	(0.0- 0.0)	WG	N	CR	.0230	=		70.00		J
HM-60	(0.0- 0.0)	WG	N	CR	.0340	=		70.00		J
HM-60	(0.0- 0.0)	WG	N	CU	.0090	=		60.00		J
HM-60	(0.0- 0.0)	WG	N	FE	.0310	=		70.00		J
HM-60	(0.0- 0.0)	WG	N	K	1.3000	=		5000.00		J
HM-60	(0.0- 0.0)	WG	N	MG	3.5000	=		300.00		J
HM-60	(0.0- 0.0)	WG	N	MN	.0180	=		20.00		J
HM-60	(0.0- 0.0)	WG	N	NA	37.0000	=		300.00		J
HM-60	(0.0- 0.0)	WG	N	ZN	.0060	=		20.00		J
HM-60	(0.0- 0.0)	WG	N	ZN	.0360	=		20.00		J
HM-61	(0.0- 0.0)	WG	N	AG	.0020	=		70.00		J
HM-61	(0.0- 0.0)	WG	N	AL	.2100	=		500.00		J
HM-61	(0.0- 0.0)	WG	N	AS	.0020	=		600.00		J
HM-61	(0.0- 0.0)	WG	N	CR	.0020	=		70.00		J
HM-61	(0.0- 0.0)	WG	N	CU	.0020	=		60.00		J
HM-61	(0.0- 0.0)	WG	N	FE	.0500	=		70.00		J
HM-61	(0.0- 0.0)	WG	N	K	2.2000	=		5000.00		J
HM-61	(0.0- 0.0)	WG	N	MG	8.6000	=		300.00		J
HM-61	(0.0- 0.0)	WG	N	MN	.0040	=		20.00		J
HM-61	(0.0- 0.0)	WG	N	NA	18.0000	=		300.00		J
HM-61	(0.0- 0.0)	WG	N	NI	.0170	=		150.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-61	(0.0- 0.0)	WG	N	ZN	.1500	=		20.00		J
HM-62	(0.0- 0.0)	WG	N	CR	.0260	=		70.00		J
HM-62	(0.0- 0.0)	WG	N	CR	.0270	=		70.00		J
HM-62	(0.0- 0.0)	WG	N	FE	.0130	=		70.00		J
HM-62	(0.0- 0.0)	WG	N	K	.8500	=		5000.00		J
HM-62	(0.0- 0.0)	WG	N	MG	5.0000	=		300.00		J
HM-62	(0.0- 0.0)	WG	N	MN	.0080	=		20.00		J
HM-62	(0.0- 0.0)	WG	N	NA	80.0000	=		300.00		J
HM-62	(0.0- 0.0)	WG	N	NI	.0110	=		150.00		J
HM-62	(0.0- 0.0)	WG	N	NI	.0110	=		150.00		J
HM-62	(0.0- 0.0)	WG	N	ZN	.0220	=		20.00		J
HM-63	(0.0- 0.0)	WG	N	AL	.0650	=		500.00		J
HM-63	(0.0- 0.0)	WG	N	FE	.0360	=		70.00		J
HM-63	(0.0- 0.0)	WG	N	MN	.2600	=		20.00		J
HM-63	(0.0- 0.0)	WG	N	NI	.0130	=		150.00		J
HM-63	(0.0- 0.0)	WG	N	NI	.0180	=		150.00		J
HM-63	(0.0- 0.0)	WG	N	PB	.0020	=		500.00		J
HM-63	(0.0- 0.0)	WG	N	ZN	.0180	=		20.00		J
HM-64	(0.0- 0.0)	WG	N	AS	.0040	=		600.00		J
HM-64	(0.0- 0.0)	WG	N	BA	.0170	=		20.00		J
HM-64	(0.0- 0.0)	WG	N	CA	57.0000	=		100.00		J
HM-64	(0.0- 0.0)	WG	N	CA	61.0000	=		100.00		J
HM-64	(0.0- 0.0)	WG	N	CA	65.0000	=		100.00		J
HM-64	(0.0- 0.0)	WG	N	K	.5200	=		5000.00		J
HM-64	(0.0- 0.0)	WG	N	K	1.6000	=		5000.00		J
HM-64	(0.0- 0.0)	WG	N	K	2.0000	=		5000.00		J
HM-64	(0.0- 0.0)	WG	N	MG	4.6000	=		300.00		J
HM-64	(0.0- 0.0)	WG	N	MG	4.9000	=		300.00		J
HM-64	(0.0- 0.0)	WG	N	MG	5.5000	=		300.00		J
HM-64	(0.0- 0.0)	WG	N	NA	34.0000	=		300.00		J
HM-64	(0.0- 0.0)	WG	N	NA	142.0000	=		300.00		J
HM-64	(0.0- 0.0)	WG	N	NA	220.0000	=		300.00		J
HM-65	(0.0- 0.0)	WG	N	AG	.0460	=		70.00		J
HM-65	(0.0- 0.0)	WG	N	AL	.9000	=		500.00		J
HM-65	(0.0- 0.0)	WG	N	CD	.0040	=		40.00		J
HM-65	(0.0- 0.0)	WG	N	CR	.0280	=		70.00		J
HM-65	(0.0- 0.0)	WG	N	CU	.0290	=		60.00		J
HM-65	(0.0- 0.0)	WG	N	FE	.0980	=		70.00		J
HM-65	(0.0- 0.0)	WG	N	FE	.4200	=		70.00		J
HM-65	(0.0- 0.0)	WG	N	K	2.4000	=		5000.00		J
HM-65	(0.0- 0.0)	WG	N	MG	62.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-65	(0.0- 0.0)	WG	N	MN	.0170	=		20.00		J
HM-65	(0.0- 0.0)	WG	N	MN	.1700	=		20.00		J
HM-65	(0.0- 0.0)	WG	N	NA	210.0000	=		300.00		J
HM-65	(0.0- 0.0)	WG	N	NI	.0270	=		150.00		J
HM-65	(0.0- 0.0)	WG	N	PB	.0040	=		500.00		J
HM-65	(0.0- 0.0)	WG	N	ZN	.0410	=		20.00		J
HM-65	(0.0- 0.0)	WG	N	ZN	.0550	=		20.00		J
HM-66	(0.0- 0.0)	WG	N	AL	.7200	=		500.00		J
HM-66	(0.0- 0.0)	WG	N	CD	.0210	=		40.00		J
HM-66	(0.0- 0.0)	WG	N	CU	.0740	=		60.00		J
HM-66	(0.0- 0.0)	WG	N	K	.7600	=		5000.00		J
HM-66	(0.0- 0.0)	WG	N	MG	15.0000	=		300.00		J
HM-66	(0.0- 0.0)	WG	N	MN	.0110	=		20.00		J
HM-66	(0.0- 0.0)	WG	N	NA	60.0000	=		300.00		J
HM-66	(0.0- 0.0)	WG	N	NI	.0470	=		150.00		J
HM-66	(0.0- 0.0)	WG	N	ZN	.0600	=		20.00		J
HM-68	(0.0- 0.0)	WG	N	CR	.0210	=		70.00		J
HM-68	(0.0- 0.0)	WG	N	K	.5600	=		5000.00		J
HM-68	(0.0- 0.0)	WG	N	MG	3.2000	=		300.00		J
HM-68	(0.0- 0.0)	WG	N	MN	.0190	=		20.00		J
HM-68	(0.0- 0.0)	WG	N	NA	6.2000	=		300.00		J
HM-68	(0.0- 0.0)	WG	N	PB	.0020	=		500.00		J
HM-68	(0.0- 0.0)	WG	N	PB	.0020	=		500.00		J
HM-68	(0.0- 0.0)	WG	N	PB	.0380	=		500.00		J
HM-68	(0.0- 0.0)	WG	N	PB	.1200	=		500.00		J
HM-68	(0.0- 0.0)	WG	N	ZN	.0270	=		20.00		J
HM-68	(0.0- 0.0)	WG	N	ZN	.0320	=		20.00		J
HM-69	(0.0- 0.0)	WG	N	AG	.0070	=		70.00		J
HM-69	(0.0- 0.0)	WG	N	AL	.3000	=		500.00		J
HM-69	(0.0- 0.0)	WG	N	AS	.0020	=		600.00		J
HM-69	(0.0- 0.0)	WG	N	AS	.0040	=		600.00		J
HM-69	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
HM-69	(0.0- 0.0)	WG	N	FE	.1200	=		70.00		J
HM-69	(0.0- 0.0)	WG	N	FE	1.4000	=		70.00		J
HM-69	(0.0- 0.0)	WG	N	FE	5.5000	=		70.00		J
HM-69	(0.0- 0.0)	WG	N	K	1.3000	=		5000.00		J
HM-69	(0.0- 0.0)	WG	N	MG	6.3000	=		300.00		J
HM-69	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
HM-69	(0.0- 0.0)	WG	N	MN	.1000	=		20.00		J
HM-69	(0.0- 0.0)	WG	N	NA	12.0000	=		300.00		J
HM-69	(0.0- 0.0)	WG	N	PB	.0030	=		500.00		J
HM-69	(0.0- 0.0)	WG	N	PB	.0230	=		500.00		J

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Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-69	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-69	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
HM-69	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	AS	.0800	=		600.00		J
HM-7	(0.0- 0.0)	WG	N	CD	.0030	=		40.00		J
HM-7	(0.0- 0.0)	WG	N	CD	.0050	=		40.00		J
HM-7	(0.0- 0.0)	WG	N	CR	.0160	=		70.00		J
HM-7	(0.0- 0.0)	WG	N	FE	.0620	=		70.00		J
HM-7	(0.0- 0.0)	WG	N	FE	.2300	=		70.00		J
HM-7	(0.0- 0.0)	WG	N	FE	.2400	=		70.00		J
HM-7	(0.0- 0.0)	WG	N	FE	3.6000	=		70.00		J
HM-7	(0.0- 0.0)	WG	N	FE	13.0000	=		70.00		J
HM-7	(0.0- 0.0)	WG	N	FE	14.0000	=		70.00		J
HM-7	(0.0- 0.0)	WG	N	FE	15.0000	=		70.00		J
HM-7	(0.0- 0.0)	WG	N	K	22.8000	=		5000.00		J
HM-7	(0.0- 0.0)	WG	N	K	27.0000	=		5000.00		J
HM-7	(0.0- 0.0)	WG	N	MG	70.0000	=		300.00		J
HM-7	(0.0- 0.0)	WG	N	MG	72.5000	=		300.00		J
HM-7	(0.0- 0.0)	WG	N	MN	.4320	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	MN	.6900	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	MN	.7740	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	MN	.8100	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	MN	.8900	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	MN	.9100	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	MN	1.0500	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	NA	149.0000	=		300.00		J
HM-7	(0.0- 0.0)	WG	N	NA	209.0000	=		300.00		J
HM-7	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
HM-7	(0.0- 0.0)	WG	N	NI	.0620	=		150.00		J
HM-7	(0.0- 0.0)	WG	N	PB	.0030	=		500.00		J
HM-7	(0.0- 0.0)	WG	N	ZN	.0030	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	ZN	.0520	=		20.00		J
HM-7	(0.0- 0.0)	WG	N	ZN	.1300	=		20.00		J
HM-70	(0.0- 0.0)	WG	N	AL	.6700	=		500.00		J
HM-70	(0.0- 0.0)	WG	N	CR	.0500	=		70.00		J
HM-70	(0.0- 0.0)	WG	N	CR	.0560	=		70.00		J
HM-70	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-70	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-70	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-70	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-70	(0.0- 0.0)	WG	N	CR	.0650	=		70.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-70	(0.0- 0.0)	WG	N	CR	.1100	=		70.00		J
HM-70	(0.0- 0.0)	WG	N	CR	.1360	=		70.00		J
HM-70	(0.0- 0.0)	WG	N	CR	.1400	=		70.00		J
HM-70	(0.0- 0.0)	WG	N	FE	.3200	=		70.00		J
HM-70	(0.0- 0.0)	WG	N	K	.2900	=		5000.00		J
HM-70	(0.0- 0.0)	WG	N	K	.6000	=		5000.00		J
HM-70	(0.0- 0.0)	WG	N	MG	2.9000	=		300.00		J
HM-70	(0.0- 0.0)	WG	N	MG	3.3000	=		300.00		J
HM-70	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
HM-70	(0.0- 0.0)	WG	N	NA	37.0000	=		300.00		J
HM-70	(0.0- 0.0)	WG	N	NA	40.0000	=		300.00		J
HM-70	(0.0- 0.0)	WG	N	NI	.0060	=		150.00		J
HM-70	(0.0- 0.0)	WG	N	ZN	.0270	=		20.00		J
HM-70	(0.0- 0.0)	WG	N	ZN	.0350	=		20.00		J
HM-71	(0.0- 0.0)	WG	N	AL	.3100	=		500.00		J
HM-71	(0.0- 0.0)	WG	N	AS	.0030	=		600.00		J
HM-71	(0.0- 0.0)	WG	N	CA	89.0000	=		100.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.0450	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.0490	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.0540	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.0700	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.1000	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.1100	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.1300	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	CR	.1600	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	FE	.1800	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	FE	.2000	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	FE	1.1000	=		70.00		J
HM-71	(0.0- 0.0)	WG	N	K	.5900	=		5000.00		J
HM-71	(0.0- 0.0)	WG	N	MG	2.6000	=		300.00		J
HM-71	(0.0- 0.0)	WG	N	MN	.0040	=		20.00		J
HM-71	(0.0- 0.0)	WG	N	MN	.0420	=		20.00		J
HM-71	(0.0- 0.0)	WG	N	NA	160.0000	=		300.00		J
HM-71	(0.0- 0.0)	WG	N	NI	.0080	=		150.00		J
HM-71	(0.0- 0.0)	WG	N	PB	.0030	=		500.00		J
HM-71	(0.0- 0.0)	WG	N	SE	.0040	=		800.00		J
HM-71	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-71	(0.0- 0.0)	WG	N	ZN	.0260	=		20.00		J
HM-72	(0.0- 0.0)	WG	N	AG	.1100	=		70.00		J
HM-72	(0.0- 0.0)	WG	N	AL	1.8000	=		500.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-72	(0.0- 0.0)	WG	N	CD	.0180	=		40.00		J
HM-72	(0.0- 0.0)	WG	N	CR	.0580	=		70.00		J
HM-72	(0.0- 0.0)	WG	N	CU	.0700	=		60.00		J
HM-72	(0.0- 0.0)	WG	N	FE	.0830	=		70.00		J
HM-72	(0.0- 0.0)	WG	N	FE	.4700	=		70.00		J
HM-72	(0.0- 0.0)	WG	N	K	3.7000	=		5000.00		J
HM-72	(0.0- 0.0)	WG	N	MG	12.5000	=		300.00		J
HM-72	(0.0- 0.0)	WG	N	MN	.0120	=		20.00		J
HM-72	(0.0- 0.0)	WG	N	MN	.0450	=		20.00		J
HM-72	(0.0- 0.0)	WG	N	NA	100.0000	=		300.00		J
HM-72	(0.0- 0.0)	WG	N	NI	.0470	=		150.00		J
HM-72	(0.0- 0.0)	WG	N	ZN	.0260	=		20.00		J
HM-72	(0.0- 0.0)	WG	N	ZN	.0340	=		20.00		J
HM-73	(0.0- 0.0)	WG	N	AG	.1900	=		70.00		J
HM-73	(0.0- 0.0)	WG	N	AL	2.4000	=		500.00		J
HM-73	(0.0- 0.0)	WG	N	AS	.0030	=		600.00		J
HM-73	(0.0- 0.0)	WG	N	CD	.0320	=		40.00		J
HM-73	(0.0- 0.0)	WG	N	CR	.0110	=		70.00		J
HM-73	(0.0- 0.0)	WG	N	CR	.0130	=		70.00		J
HM-73	(0.0- 0.0)	WG	N	CR	.1100	=		70.00		J
HM-73	(0.0- 0.0)	WG	N	CU	.1200	=		60.00		J
HM-73	(0.0- 0.0)	WG	N	FE	.4200	=		70.00		J
HM-73	(0.0- 0.0)	WG	N	FE	.6500	=		70.00		J
HM-73	(0.0- 0.0)	WG	N	FE	.6800	=		70.00		J
HM-73	(0.0- 0.0)	WG	N	K	5.5000	=		5000.00		J
HM-73	(0.0- 0.0)	WG	N	MG	94.0000	=		300.00		J
HM-73	(0.0- 0.0)	WG	N	MN	.1500	=		20.00		J
HM-73	(0.0- 0.0)	WG	N	MN	.2200	=		20.00		J
HM-73	(0.0- 0.0)	WG	N	NA	150.0000	=		300.00		J
HM-73	(0.0- 0.0)	WG	N	NI	.0840	=		150.00		J
HM-73	(0.0- 0.0)	WG	N	PB	.0030	=		500.00		J
HM-73	(0.0- 0.0)	WG	N	SE	.0110	=		800.00		J
HM-73	(0.0- 0.0)	WG	N	ZN	.0570	=		20.00		J
HM-73	(0.0- 0.0)	WG	N	ZN	.0720	=		20.00		J
HM-74	(0.0- 0.0)	WG	N	AG	.2100	=		70.00		J
HM-74	(0.0- 0.0)	WG	N	AL	2.0000	=		500.00		J
HM-74	(0.0- 0.0)	WG	N	CD	.0370	=		40.00		J
HM-74	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
HM-74	(0.0- 0.0)	WG	N	CR	.1100	=		70.00		J
HM-74	(0.0- 0.0)	WG	N	CU	.1400	=		60.00		J
HM-74	(0.0- 0.0)	WG	N	FE	.1300	=		70.00		J
HM-74	(0.0- 0.0)	WG	N	FE	.3800	=		70.00		J
HM-74	(0.0- 0.0)	WG	N	K	6.4000	=		5000.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-74	(0.0- 0.0)	WG	N	MG	29.0000	=		300.00		J
HM-74	(0.0- 0.0)	WG	N	MN	.1200	=		20.00		J
HM-74	(0.0- 0.0)	WG	N	MN	.2000	=		20.00		J
HM-74	(0.0- 0.0)	WG	N	NI	.0840	=		150.00		J
HM-74	(0.0- 0.0)	WG	N	PB	.0030	=		500.00		J
HM-74	(0.0- 0.0)	WG	N	ZN	.0260	=		20.00		J
HM-74	(0.0- 0.0)	WG	N	ZN	.0470	=		20.00		J
HM-75	(0.0- 0.0)	WG	N	AG	.0200	=		70.00		J
HM-75	(0.0- 0.0)	WG	N	AL	.2900	=		500.00		J
HM-75	(0.0- 0.0)	WG	N	CR	.0180	=		70.00		J
HM-75	(0.0- 0.0)	WG	N	FE	.1700	=		70.00		J
HM-75	(0.0- 0.0)	WG	N	K	6.7000	=		5000.00		J
HM-75	(0.0- 0.0)	WG	N	MG	36.0000	=		300.00		J
HM-75	(0.0- 0.0)	WG	N	MN	.0140	=		20.00		J
HM-75	(0.0- 0.0)	WG	N	MN	.2100	=		20.00		J
HM-75	(0.0- 0.0)	WG	N	NA	160.0000	=		300.00		J
HM-75	(0.0- 0.0)	WG	N	NI	.0300	=		150.00		J
HM-75	(0.0- 0.0)	WG	N	ZN	.0240	=		20.00		J
HM-75	(0.0- 0.0)	WG	N	ZN	.0630	=		20.00		J
HM-76	(0.0- 0.0)	WG	N	AG	.2400	=		70.00		J
HM-76	(0.0- 0.0)	WG	N	AL	2.6000	=		500.00		J
HM-76	(0.0- 0.0)	WG	N	CD	.0440	=		40.00		J
HM-76	(0.0- 0.0)	WG	N	CR	.0110	=		70.00		J
HM-76	(0.0- 0.0)	WG	N	CR	.1300	=		70.00		J
HM-76	(0.0- 0.0)	WG	N	CU	.0070	=		60.00		J
HM-76	(0.0- 0.0)	WG	N	CU	.1700	=		60.00		J
HM-76	(0.0- 0.0)	WG	N	FE	.0520	=		70.00		J
HM-76	(0.0- 0.0)	WG	N	FE	.4500	=		70.00		J
HM-76	(0.0- 0.0)	WG	N	K	6.2000	=		5000.00		J
HM-76	(0.0- 0.0)	WG	N	MG	32.0000	=		300.00		J
HM-76	(0.0- 0.0)	WG	N	MN	.0370	=		20.00		J
HM-76	(0.0- 0.0)	WG	N	MN	.0390	=		20.00		J
HM-76	(0.0- 0.0)	WG	N	NA	67.0000	=		300.00		J
HM-76	(0.0- 0.0)	WG	N	NI	.1100	=		150.00		J
HM-76	(0.0- 0.0)	WG	N	ZN	.0680	=		20.00		J
HM-76	(0.0- 0.0)	WG	N	ZN	.1100	=		20.00		J
HM-77	(0.0- 0.0)	WG	N	AG	.2400	=		70.00		J
HM-77	(0.0- 0.0)	WG	N	AL	1.4000	=		500.00		J
HM-77	(0.0- 0.0)	WG	N	BA	.1110	=		20.00		J
HM-77	(0.0- 0.0)	WG	N	BA	.1280	=		20.00		J
HM-77	(0.0- 0.0)	WG	N	BA	.1400	=		20.00		J
HM-77	(0.0- 0.0)	WG	N	CD	.0440	=		40.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-77	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-77	(0.0- 0.0)	WG	N	CR	.1300	=		70.00		J
HM-77	(0.0- 0.0)	WG	N	CU	.0210	=		60.00		J
HM-77	(0.0- 0.0)	WG	N	CU	.0300	=		60.00		J
HM-77	(0.0- 0.0)	WG	N	CU	.1600	=		60.00		J
HM-77	(0.0- 0.0)	WG	N	FE	.0160	=		70.00		J
HM-77	(0.0- 0.0)	WG	N	FE	.1500	=		70.00		J
HM-77	(0.0- 0.0)	WG	N	K	.4000	=		5000.00		J
HM-77	(0.0- 0.0)	WG	N	K	4.8000	=		5000.00		J
HM-77	(0.0- 0.0)	WG	N	MG	3.1000	=		300.00		J
HM-77	(0.0- 0.0)	WG	N	MG	5.1000	=		300.00		J
HM-77	(0.0- 0.0)	WG	N	MN	.0250	=		20.00		J
HM-77	(0.0- 0.0)	WG	N	NA	34.0000	=		300.00		J
HM-77	(0.0- 0.0)	WG	N	NA	37.0000	=		300.00		J
HM-77	(0.0- 0.0)	WG	N	NI	.0920	=		150.00		J
HM-77	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-77	(0.0- 0.0)	WG	N	ZN	.0110	=		20.00		J
HM-77	(0.0- 0.0)	WG	N	ZN	.0130	=		20.00		J
HM-77	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J
HM-78	(0.0- 0.0)	WG	N	AG	.0300	=		70.00		J
HM-78	(0.0- 0.0)	WG	N	AL	8.0000	=		500.00		J
HM-78	(0.0- 0.0)	WG	N	AS	.0180	=		600.00		J
HM-78	(0.0- 0.0)	WG	N	AS	.0240	=		600.00		J
HM-78	(0.0- 0.0)	WG	N	CD	.0040	=		40.00		J
HM-78	(0.0- 0.0)	WG	N	CR	.0420	=		70.00		J
HM-78	(0.0- 0.0)	WG	N	CU	.0300	=		60.00		J
HM-78	(0.0- 0.0)	WG	N	FE	.4100	=		70.00		J
HM-78	(0.0- 0.0)	WG	N	FE	8.2000	=		70.00		J
HM-78	(0.0- 0.0)	WG	N	K	4.3000	=		5000.00		J
HM-78	(0.0- 0.0)	WG	N	MG	21.0000	=		300.00		J
HM-78	(0.0- 0.0)	WG	N	MN	.0670	=		20.00		J
HM-78	(0.0- 0.0)	WG	N	MN	.2900	=		20.00		J
HM-78	(0.0- 0.0)	WG	N	NA	130.0000	=		300.00		J
HM-78	(0.0- 0.0)	WG	N	NI	.0140	=		150.00		J
HM-78	(0.0- 0.0)	WG	N	PB	.0120	=		500.00		J
HM-78	(0.0- 0.0)	WG	N	SE	.0040	=		800.00		J
HM-78	(0.0- 0.0)	WG	N	ZN	.0050	=		20.00		J
HM-78	(0.0- 0.0)	WG	N	ZN	.0840	=		20.00		J
HM-79	(0.0- 0.0)	WG	N	K	.1200	=		5000.00		J
HM-79	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
HM-79	(0.0- 0.0)	WG	N	MG	4.3000	=		300.00		J
HM-79	(0.0- 0.0)	WG	N	MG	4.9000	=		300.00		J
HM-79	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-79	(0.0- 0.0)	WG	N	NA	67.0000	=		300.00		J
HM-79	(0.0- 0.0)	WG	N	NA	71.0000	=		300.00		J
HM-79	(0.0- 0.0)	WG	N	NI	71.0000	=		150.00		J
HM-79	(0.0- 0.0)	WG	N	ZN	.0210	=		20.00		J
HM-79	(0.0- 0.0)	WG	N	ZN	.0330	=		20.00		J
HM-8	(0.0- 0.0)	WG	N	AS	.0800	=		600.00		J
HM-8	(0.0- 0.0)	WG	N	AS	.1600	=		600.00		J
HM-8	(0.0- 0.0)	WG	N	FE	.0390	=		70.00		J
HM-8	(0.0- 0.0)	WG	N	FE	.1000	=		70.00		J
HM-8	(0.0- 0.0)	WG	N	K	1.4000	=		5000.00		J
HM-8	(0.0- 0.0)	WG	N	K	16.0000	=		5000.00		J
HM-8	(0.0- 0.0)	WG	N	MG	3.1000	=		300.00		J
HM-8	(0.0- 0.0)	WG	N	MG	3.8200	=		300.00		J
HM-8	(0.0- 0.0)	WG	N	MN	.0030	=		20.00		J
HM-8	(0.0- 0.0)	WG	N	MN	.0120	=		20.00		J
HM-8	(0.0- 0.0)	WG	N	MN	.1100	=		20.00		J
HM-8	(0.0- 0.0)	WG	N	NA	13.3000	=		300.00		J
HM-8	(0.0- 0.0)	WG	N	NA	31.6000	=		300.00		J
HM-8	(0.0- 0.0)	WG	N	PB	.0700	=		500.00		J
HM-8	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
HM-80	(0.0- 0.0)	WG	N	AG	.2700	=		70.00		J
HM-80	(0.0- 0.0)	WG	N	AL	1.8000	=		500.00		J
HM-80	(0.0- 0.0)	WG	N	CD	.0500	=		40.00		J
HM-80	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-80	(0.0- 0.0)	WG	N	CU	.1800	=		60.00		J
HM-80	(0.0- 0.0)	WG	N	FE	.1700	=		70.00		J
HM-80	(0.0- 0.0)	WG	N	FE	.7600	=		70.00		J
HM-80	(0.0- 0.0)	WG	N	K	6.6000	=		5000.00		J
HM-80	(0.0- 0.0)	WG	N	MG	19.0000	=		300.00		J
HM-80	(0.0- 0.0)	WG	N	MN	.0830	=		20.00		J
HM-80	(0.0- 0.0)	WG	N	MN	.1500	=		20.00		J
HM-80	(0.0- 0.0)	WG	N	NA	130.0000	=		300.00		J
HM-80	(0.0- 0.0)	WG	N	NI	.1100	=		150.00		J
HM-80	(0.0- 0.0)	WG	N	ZN	.0240	=		20.00		J
HM-80	(0.0- 0.0)	WG	N	ZN	.0490	=		20.00		J
HM-81	(0.0- 0.0)	WG	N	AG	.2800	=		70.00		J
HM-81	(0.0- 0.0)	WG	N	AL	2.1000	=		500.00		J
HM-81	(0.0- 0.0)	WG	N	CD	.0500	=		40.00		J
HM-81	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-81	(0.0- 0.0)	WG	N	CU	.1900	=		60.00		J
HM-81	(0.0- 0.0)	WG	N	FE	.2800	=		70.00		J
HM-81	(0.0- 0.0)	WG	N	K	5.2000	=		5000.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-81	(0.0- 0.0)	WG	N	MG	18.0000	=		300.00		J
HM-81	(0.0- 0.0)	WG	N	MN	.0010	=		20.00		J
HM-81	(0.0- 0.0)	WG	N	MN	.0240	=		20.00		J
HM-81	(0.0- 0.0)	WG	N	NA	60.0000	=		300.00		J
HM-81	(0.0- 0.0)	WG	N	NI	.1100	=		150.00		J
HM-81	(0.0- 0.0)	WG	N	PB	.0020	=		500.00		J
HM-81	(0.0- 0.0)	WG	N	ZN	.0350	=		20.00		J
HM-81	(0.0- 0.0)	WG	N	ZN	.0460	=		20.00		J
HM-82	(0.0- 0.0)	WG	N	AL	1.3000	=		500.00		J
HM-82	(0.0- 0.0)	WG	N	AS	.0060	=		600.00		J
HM-82	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
HM-82	(0.0- 0.0)	WG	N	BA	.1210	=		20.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.2700	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.2800	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.2970	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.3200	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.3310	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.3400	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.3400	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.3600	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.3600	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.3700	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.3800	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.3800	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.3800	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.4100	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.4100	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	CR	.4300	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	FE	.6300	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	FE	2.0000	=		70.00		J
HM-82	(0.0- 0.0)	WG	N	K	2.1000	=		5000.00		J
HM-82	(0.0- 0.0)	WG	N	K	2.5000	=		5000.00		J
HM-82	(0.0- 0.0)	WG	N	MG	4.0000	=		300.00		J
HM-82	(0.0- 0.0)	WG	N	MG	4.4000	=		300.00		J
HM-82	(0.0- 0.0)	WG	N	MN	.0050	=		20.00		J
HM-82	(0.0- 0.0)	WG	N	NA	23.0000	=		300.00		J
HM-82	(0.0- 0.0)	WG	N	NA	29.0000	=		300.00		J
HM-82	(0.0- 0.0)	WG	N	NI	.0060	=		150.00		J
HM-82	(0.0- 0.0)	WG	N	PB	.0020	=		500.00		J
HM-82	(0.0- 0.0)	WG	N	PB	.0090	=		500.00		J
HM-82	(0.0- 0.0)	WG	N	ZN	.0190	=		20.00		J
HM-82	(0.0- 0.0)	WG	N	ZN	.0230	=		20.00		J
HM-83	(0.0- 0.0)	WG	N	AS	.0050	=		600.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-83	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
HM-83	(0.0- 0.0)	WG	N	CU	.0110	=		60.00		J
HM-83	(0.0- 0.0)	WG	N	FE	.0700	=		70.00		J
HM-83	(0.0- 0.0)	WG	N	FE	6.0000	=		70.00		J
HM-83	(0.0- 0.0)	WG	N	FE	9.9000	=		70.00		J
HM-83	(0.0- 0.0)	WG	N	K	1.3000	=		5000.00		J
HM-83	(0.0- 0.0)	WG	N	MG	17.0000	=		300.00		J
HM-83	(0.0- 0.0)	WG	N	MN	.8400	=		20.00		J
HM-83	(0.0- 0.0)	WG	N	NA	89.0000	=		300.00		J
HM-83	(0.0- 0.0)	WG	N	PB	.0050	=		500.00		J
HM-83	(0.0- 0.0)	WG	N	SE	.0060	=		800.00		J
HM-83	(0.0- 0.0)	WG	N	SE	.0080	=		800.00		J
HM-84	(0.0- 0.0)	WG	N	AS	.0030	=		600.00		J
HM-84	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
HM-84	(0.0- 0.0)	WG	N	FE	.2900	=		70.00		J
HM-84	(0.0- 0.0)	WG	N	FE	4.5000	=		70.00		J
HM-84	(0.0- 0.0)	WG	N	FE	6.0000	=		70.00		J
HM-84	(0.0- 0.0)	WG	N	K	1.7000	=		5000.00		J
HM-84	(0.0- 0.0)	WG	N	MG	14.0000	=		300.00		J
HM-84	(0.0- 0.0)	WG	N	MN	.1600	=		20.00		J
HM-84	(0.0- 0.0)	WG	N	NA	210.0000	=		300.00		J
HM-84	(0.0- 0.0)	WG	N	PB	.0030	=		500.00		J
HM-84	(0.0- 0.0)	WG	N	SE	.0100	=		800.00		J
HM-84	(0.0- 0.0)	WG	N	SE	.0130	=		800.00		J
HM-84	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-85	(0.0- 0.0)	WG	N	AG	.0040	=		70.00		J
HM-85	(0.0- 0.0)	WG	N	AS	.0030	=		600.00		J
HM-85	(0.0- 0.0)	WG	N	CR	.0090	=		70.00		J
HM-85	(0.0- 0.0)	WG	N	CR	.4800	=		70.00		J
HM-85	(0.0- 0.0)	WG	N	CU	.0040	=		60.00		J
HM-85	(0.0- 0.0)	WG	N	FE	.0300	=		70.00		J
HM-85	(0.0- 0.0)	WG	N	FE	.3700	=		70.00		J
HM-85	(0.0- 0.0)	WG	N	FE	5.0000	=		70.00		J
HM-85	(0.0- 0.0)	WG	N	K	2.7000	=		5000.00		J
HM-85	(0.0- 0.0)	WG	N	MG	13.0000	=		300.00		J
HM-85	(0.0- 0.0)	WG	N	MN	.1000	=		20.00		J
HM-85	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
HM-85	(0.0- 0.0)	WG	N	PB	.0040	=		500.00		J
HM-85	(0.0- 0.0)	WG	N	PB	.0100	=		500.00		J
HM-85	(0.0- 0.0)	WG	N	SE	.0100	=		800.00		J
HM-85	(0.0- 0.0)	WG	N	ZN	.0500	=		20.00		J
HM-86	(0.0- 0.0)	WG	N	CA	83.0000	=		100.00		J

258592

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-86	(0.0- 0.0)	WG	N	CA	89.0000	=		100.00		J
HM-86	(0.0- 0.0)	WG	N	CA	96.0000	=		100.00		J
HM-86	(0.0- 0.0)	WG	N	CU	.0400	=		60.00		J
HM-86	(0.0- 0.0)	WG	N	K	3.1000	=		5000.00		J
HM-86	(0.0- 0.0)	WG	N	K	3.5000	=		5000.00		J
HM-86	(0.0- 0.0)	WG	N	K	4.9000	=		5000.00		J
HM-86	(0.0- 0.0)	WG	N	MG	2.9000	=		300.00		J
HM-86	(0.0- 0.0)	WG	N	MG	3.4000	=		300.00		J
HM-86	(0.0- 0.0)	WG	N	MG	3.4000	=		300.00		J
HM-86	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
HM-86	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-86	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
HM-86	(0.0- 0.0)	WG	N	NA	25.0000	=		300.00		J
HM-86	(0.0- 0.0)	WG	N	NA	25.0000	=		300.00		J
HM-86	(0.0- 0.0)	WG	N	NA	27.0000	=		300.00		J
HM-86	(0.0- 0.0)	WG	N	ZN	.1600	=		20.00		J
HM-86	(0.0- 0.0)	WG	N	ZN	.1600	=		20.00		J
HM-86	(0.0- 0.0)	WG	N	ZN	.2200	=		20.00		J
HM-87	(0.0- 0.0)	WG	N	FE	.0500	=		70.00		J
HM-87	(0.0- 0.0)	WG	N	K	2.7000	=		5000.00		J
HM-87	(0.0- 0.0)	WG	N	MG	3.6000	=		300.00		J
HM-87	(0.0- 0.0)	WG	N	NA	12.0000	=		300.00		J
HM-87	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
HM-88	(0.0- 0.0)	WG	N	CR	.0840	=		70.00		J
HM-88	(0.0- 0.0)	WG	N	CR	.0900	=		70.00		J
HM-88	(0.0- 0.0)	WG	N	CR	.0900	=		70.00		J
HM-88	(0.0- 0.0)	WG	N	CR	.0930	=		70.00		J
HM-88	(0.0- 0.0)	WG	N	CR	.1000	=		70.00		J
HM-88	(0.0- 0.0)	WG	N	CR	.1400	=		70.00		J
HM-88	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-88	(0.0- 0.0)	WG	N	K	1.2000	=		5000.00		J
HM-88	(0.0- 0.0)	WG	N	MG	3.6000	=		300.00		J
HM-88	(0.0- 0.0)	WG	N	NA	32.0000	=		300.00		J
HM-89	(0.0- 0.0)	WG	N	BA	.1900	=		20.00		J
HM-89	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
HM-89	(0.0- 0.0)	WG	N	CR	.0110	=		70.00		J
HM-89	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-89	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-89	(0.0- 0.0)	WG	N	K	.8000	=		5000.00		J
HM-89	(0.0- 0.0)	WG	N	MG	3.7000	=		300.00		J
HM-89	(0.0- 0.0)	WG	N	MN	.3100	=		20.00		J
HM-89	(0.0- 0.0)	WG	N	NA	38.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-89	(0.0- 0.0)	WG	N	ZN	.1900	=		20.00		J
HM-9	(0.0- 0.0)	WG	N	CD	.0040	=		40.00		J
HM-9	(0.0- 0.0)	WG	N	CD	.0090	=		40.00		J
HM-9	(0.0- 0.0)	WG	N	CR	.0220	=		70.00		J
HM-9	(0.0- 0.0)	WG	N	CU	.0100	=		60.00		J
HM-9	(0.0- 0.0)	WG	N	CU	.0180	=		60.00		J
HM-9	(0.0- 0.0)	WG	N	FE	.0330	=		70.00		J
HM-9	(0.0- 0.0)	WG	N	FE	.0420	=		70.00		J
HM-9	(0.0- 0.0)	WG	N	FE	.1100	=		70.00		J
HM-9	(0.0- 0.0)	WG	N	K	8.7000	=		5000.00		J
HM-9	(0.0- 0.0)	WG	N	K	11.0000	=		5000.00		J
HM-9	(0.0- 0.0)	WG	N	MG	135.0000	=		300.00		J
HM-9	(0.0- 0.0)	WG	N	MG	149.0000	=		300.00		J
HM-9	(0.0- 0.0)	WG	N	MN	.0210	=		20.00		J
HM-9	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
HM-9	(0.0- 0.0)	WG	N	MN	.3900	=		20.00		J
HM-9	(0.0- 0.0)	WG	N	MN	.5700	=		20.00		J
HM-9	(0.0- 0.0)	WG	N	MN	1.2000	=		20.00		J
HM-9	(0.0- 0.0)	WG	N	NA	180.0000	=		300.00		J
HM-9	(0.0- 0.0)	WG	N	NA	232.0000	=		300.00		J
HM-9	(0.0- 0.0)	WG	N	NI	.0620	=		150.00		J
HM-9	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-9	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-9	(0.0- 0.0)	WG	N	ZN	.0520	=		20.00		J
HM-90	(0.0- 0.0)	WG	N	BA	.1300	=		20.00		J
HM-90	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
HM-90	(0.0- 0.0)	WG	N	K	3.6000	=		5000.00		J
HM-90	(0.0- 0.0)	WG	N	MG	4.3000	=		300.00		J
HM-90	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
HM-91	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
HM-91	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-91	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-91	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-91	(0.0- 0.0)	WG	N	CR	.0270	=		70.00		J
HM-91	(0.0- 0.0)	WG	N	CR	.0330	=		70.00		J
HM-91	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-91	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-91	(0.0- 0.0)	WG	N	K	1.5000	=		5000.00		J
HM-91	(0.0- 0.0)	WG	N	MG	4.4000	=		300.00		J
HM-91	(0.0- 0.0)	WG	N	NA	54.0000	=		300.00		J
HM-91	(0.0- 0.0)	WG	N	ZN	.2800	=		20.00		J

258584

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-92	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
HM-92	(0.0- 0.0)	WG	N	K	2.0000	=		5000.00		J
HM-92	(0.0- 0.0)	WG	N	MG	3.8000	=		300.00		J
HM-92	(0.0- 0.0)	WG	N	NA	61.0000	=		300.00		J
HM-92	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
HM-93	(0.0- 0.0)	WG	N	K	4.4000	=		5000.00		J
HM-93	(0.0- 0.0)	WG	N	MG	23.0000	=		300.00		J
HM-93	(0.0- 0.0)	WG	N	MN	.0400	=		20.00		J
HM-93	(0.0- 0.0)	WG	N	NA	55.0000	=		300.00		J
HM-93	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-94	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
HM-94	(0.0- 0.0)	WG	N	CR	.1200	=		70.00		J
HM-94	(0.0- 0.0)	WG	N	CR	.2500	=		70.00		J
HM-94	(0.0- 0.0)	WG	N	CR	.3200	=		70.00		J
HM-94	(0.0- 0.0)	WG	N	CR	.3200	=		70.00		J
HM-94	(0.0- 0.0)	WG	N	CR	.3260	=		70.00		J
HM-94	(0.0- 0.0)	WG	N	CR	.3290	=		70.00		J
HM-94	(0.0- 0.0)	WG	N	CR	.3510	=		70.00		J
HM-94	(0.0- 0.0)	WG	N	K	2.3000	=		5000.00		J
HM-94	(0.0- 0.0)	WG	N	MG	4.6000	=		300.00		J
HM-94	(0.0- 0.0)	WG	N	NA	28.0000	=		300.00		J
HM-94	(0.0- 0.0)	WG	N	ZN	.1700	=		20.00		J
HM-95	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
HM-95	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
HM-95	(0.0- 0.0)	WG	N	CR	.0500	=		70.00		J
HM-95	(0.0- 0.0)	WG	N	CR	.0500	=		70.00		J
HM-95	(0.0- 0.0)	WG	N	CR	.0530	=		70.00		J
HM-95	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-95	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-95	(0.0- 0.0)	WG	N	CR	.0600	=		70.00		J
HM-95	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
HM-95	(0.0- 0.0)	WG	N	MG	3.8000	=		300.00		J
HM-95	(0.0- 0.0)	WG	N	NA	27.0000	=		300.00		J
HM-96	(0.0- 0.0)	WG	N	BA	.2100	=		20.00		J
HM-96	(0.0- 0.0)	WG	N	CR	.1500	=		70.00		J
HM-96	(0.0- 0.0)	WG	N	CR	.1650	=		70.00		J
HM-96	(0.0- 0.0)	WG	N	CR	.1700	=		70.00		J
HM-96	(0.0- 0.0)	WG	N	CR	.1700	=		70.00		J
HM-96	(0.0- 0.0)	WG	N	CR	.1700	=		70.00		J
HM-96	(0.0- 0.0)	WG	N	CR	.1700	=		70.00		J
HM-96	(0.0- 0.0)	WG	N	CR	.1760	=		70.00		J

258585

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
HM-96	(0.0- 0.0)	WG	N	CR	.1790	=		70.00		J
HM-96	(0.0- 0.0)	WG	N	K	2.7000	=		5000.00		J
HM-96	(0.0- 0.0)	WG	N	MG	5.0000	=		300.00		J
HM-96	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
HM-96	(0.0- 0.0)	WG	N	NA	99.0000	=		300.00		J
HM-97	(0.0- 0.0)	WG	N	BA	.1800	=		20.00		J
HM-97	(0.0- 0.0)	WG	N	CR	.0150	=		70.00		J
HM-97	(0.0- 0.0)	WG	N	CR	.0170	=		70.00		J
HM-97	(0.0- 0.0)	WG	N	K	1.7000	=		5000.00		J
HM-97	(0.0- 0.0)	WG	N	MG	4.7000	=		300.00		J
HM-97	(0.0- 0.0)	WG	N	NA	58.0000	=		300.00		J
HM-97	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-98	(0.0- 0.0)	WG	N	BA	.1700	=		20.00		J
HM-98	(0.0- 0.0)	WG	N	BA	.1700	=		20.00		J
HM-98	(0.0- 0.0)	WG	N	BA	.1800	=		20.00		J
HM-98	(0.0- 0.0)	WG	N	K	.9000	=		5000.00		J
HM-98	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
HM-98	(0.0- 0.0)	WG	N	K	1.3000	=		5000.00		J
HM-98	(0.0- 0.0)	WG	N	MG	6.0000	=		300.00		J
HM-98	(0.0- 0.0)	WG	N	MG	6.3000	=		300.00		J
HM-98	(0.0- 0.0)	WG	N	MG	6.4000	=		300.00		J
HM-98	(0.0- 0.0)	WG	N	MN	.0400	=		20.00		J
HM-98	(0.0- 0.0)	WG	N	MN	.1100	=		20.00		J
HM-98	(0.0- 0.0)	WG	N	MN	.2100	=		20.00		J
HM-98	(0.0- 0.0)	WG	N	NA	96.0000	=		300.00		J
HM-98	(0.0- 0.0)	WG	N	NA	97.0000	=		300.00		J
HM-98	(0.0- 0.0)	WG	N	NA	99.0000	=		300.00		J
HM-98	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
HM-98	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-98	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
HM-99	(0.0- 0.0)	WG	N	BA	.1300	=		20.00		J
HM-99	(0.0- 0.0)	WG	N	BA	.1400	=		20.00		J
HM-99	(0.0- 0.0)	WG	N	BA	.1400	=		20.00		J
HM-99	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-99	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
HM-99	(0.0- 0.0)	WG	N	CR	.0240	=		70.00		J
HM-99	(0.0- 0.0)	WG	N	CR	.0290	=		70.00		J
HM-99	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
HM-99	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
HM-99	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
HM-99	(0.0- 0.0)	WG	N	CR	.0300	=		70.00		J
HM-99	(0.0- 0.0)	WG	N	K	2.2000	=		5000.00		J

Field ID	Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010									
HM-99 (0.0- 0.0)	WG	N	K	2.4000	=		5000.00		J
HM-99 (0.0- 0.0)	WG	N	K	2.6000	=		5000.00		J
HM-99 (0.0- 0.0)	WG	N	MG	4.0000	=		300.00		J
HM-99 (0.0- 0.0)	WG	N	MG	4.1000	=		300.00		J
HM-99 (0.0- 0.0)	WG	N	MG	4.3000	=		300.00		J
HM-99 (0.0- 0.0)	WG	N	NA	34.0000	=		300.00		J
HM-99 (0.0- 0.0)	WG	N	NA	42.0000	=		300.00		J
HM-99 (0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
LAKE WORTH (0.0- 0.0)	WG	N	CA	42.0000	=		100.00		J
LAKE WORTH (0.0- 0.0)	WG	N	K	5.0000	=		5000.00		J
LAKE WORTH (0.0- 0.0)	WG	N	MG	5.9000	=		300.00		J
LAKE WORTH (0.0- 0.0)	WG	N	NA	13.0000	=		300.00		J
OUT#3 (0.0- 0.0)	WG	N	AG	.0040	=		70.00		J
OUT#3 (0.0- 0.0)	WG	N	CR	.0130	=		70.00		J
OUT#4 (0.0- 0.0)	WG	N	CA	47.0000	=		100.00		J
OUT#4 (0.0- 0.0)	WG	N	K	3.6000	=		5000.00		J
OUT#4 (0.0- 0.0)	WG	N	MG	7.8000	=		300.00		J
OUT#4 (0.0- 0.0)	WG	N	NA	26.0000	=		300.00		J
P-1 (0.0- 0.0)	WG	N	AG	.0170	=		70.00		J
P-1 (0.0- 0.0)	WG	N	AG	.0420	=		70.00		J
P-1 (0.0- 0.0)	WG	N	AS	.0060	=		600.00		J
P-1 (0.0- 0.0)	WG	N	BA	.0770	=		20.00		J
P-1 (0.0- 0.0)	WG	N	BA	.0900	=		20.00		J
P-1 (0.0- 0.0)	WG	N	CA	51.7000	=		100.00		J
P-1 (0.0- 0.0)	WG	N	FE	.0080	=		70.00		J
P-1 (0.0- 0.0)	WG	N	FE	.0190	=		70.00		J
P-1 (0.0- 0.0)	WG	N	FE	.0270	=		70.00		J
P-1 (0.0- 0.0)	WG	N	FE	.0580	=		70.00		J
P-1 (0.0- 0.0)	WG	N	FE	.0810	=		70.00		J
P-1 (0.0- 0.0)	WG	N	K	.0100	=		5000.00		J
P-1 (0.0- 0.0)	WG	N	MG	20.4000	=		300.00		J
P-1 (0.0- 0.0)	WG	N	MN	.0040	=		20.00		J
P-1 (0.0- 0.0)	WG	N	MN	.0040	=		20.00		J
P-1 (0.0- 0.0)	WG	N	MN	.0150	=		20.00		J
P-1 (0.0- 0.0)	WG	N	MN	.0160	=		20.00		J
P-1 (0.0- 0.0)	WG	N	MN	.0170	=		20.00		J
P-1 (0.0- 0.0)	WG	N	MN	.0180	=		20.00		J
P-1 (0.0- 0.0)	WG	N	MN	.0230	=		20.00		J
P-1 (0.0- 0.0)	WG	N	NA	45.2000	=		300.00		J
P-1 (0.0- 0.0)	WG	N	NI	.0280	=		150.00		J
P-1 (0.0- 0.0)	WG	N	SE	.0020	=		800.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-1	(0.0- 0.0)	WG	N	SE	.0090	=		800.00		J
P-1	(0.0- 0.0)	WG	N	ZN	.0790	=		20.00		J
P-1	(0.0- 0.0)	WG	N	ZN	.1300	=		20.00		J
P-1	(0.0- 0.0)	WG	N	ZN	.1400	=		20.00		J
P-1	(0.0- 0.0)	WG	N	ZN	.2000	=		20.00		J
P-10M	(0.0- 0.0)	WG	N	CA	82.0000	=		100.00		J
P-10M	(0.0- 0.0)	WG	N	K	4.6000	=		5000.00		J
P-10M	(0.0- 0.0)	WG	N	MG	23.0000	=		300.00		J
P-10M	(0.0- 0.0)	WG	N	NA	23.0000	=		300.00		J
P-10U	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
P-10U	(0.0- 0.0)	WG	N	FE	.0840	=		70.00		J
P-10U	(0.0- 0.0)	WG	N	MN	3.4000	=		20.00		J
P-10U	(0.0- 0.0)	WG	N	PB	.0040	=		500.00		J
P-10U	(0.0- 0.0)	WG	N	ZN	1.5000	=		20.00		J
P-11M	(0.0- 0.0)	WG	N	CA	54.0000	=		100.00		J
P-11M	(0.0- 0.0)	WG	N	FE	.0280	=		70.00		J
P-11M	(0.0- 0.0)	WG	N	K	5.6000	=		5000.00		J
P-11M	(0.0- 0.0)	WG	N	MG	20.0000	=		300.00		J
P-11M	(0.0- 0.0)	WG	N	NA	57.0000	=		300.00		J
P-12U	(0.0- 0.0)	WG	N	AG	.0050	=		70.00		J
P-12U	(0.0- 0.0)	WG	N	AS	.0240	=		600.00		J
P-12U	(0.0- 0.0)	WG	N	AS	.0300	=		600.00		J
P-12U	(0.0- 0.0)	WG	N	CA	41.0000	=		100.00		J
P-12U	(0.0- 0.0)	WG	N	CR	.0060	=		70.00		J
P-12U	(0.0- 0.0)	WG	N	CR	.1800	=		70.00		J
P-12U	(0.0- 0.0)	WG	N	CU	.0120	=		60.00		J
P-12U	(0.0- 0.0)	WG	N	CU	.0930	=		60.00		J
P-12U	(0.0- 0.0)	WG	N	FE	.1700	=		70.00		J
P-12U	(0.0- 0.0)	WG	N	FE	1.6000	=		70.00		J
P-12U	(0.0- 0.0)	WG	N	K	6.5000	=		5000.00		J
P-12U	(0.0- 0.0)	WG	N	K	12.0000	=		5000.00		J
P-12U	(0.0- 0.0)	WG	N	MG	13.0000	=		300.00		J
P-12U	(0.0- 0.0)	WG	N	MG	38.0000	=		300.00		J
P-12U	(0.0- 0.0)	WG	N	MN	.0600	=		20.00		J
P-12U	(0.0- 0.0)	WG	N	MN	.0760	=		20.00		J
P-12U	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
P-12U	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
P-12U	(0.0- 0.0)	WG	N	PB	.0070	=		500.00		J
P-12U	(0.0- 0.0)	WG	N	PB	.1000	=		500.00		J
P-12U	(0.0- 0.0)	WG	N	SE	.0160	=		800.00		J
P-12U	(0.0- 0.0)	WG	N	ZN	.4100	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-12U	(0.0- 0.0)	WG	N	ZN	1.5000	=		20.00		J
P-12UN	(0.0- 0.0)	WG	N	CA	41.0000	=		100.00		J
P-12UN	(0.0- 0.0)	WG	N	K	11.0000	=		5000.00		J
P-12UN	(0.0- 0.0)	WG	N	MG	.0300	=		300.00		J
P-12UN	(0.0- 0.0)	WG	N	NA	41.0000	=		300.00		J
P-12UN	(0.0- 0.0)	WG	N	ZN	.0700	=		20.00		J
P-12US	(0.0- 0.0)	WG	N	CR	.0290	=		70.00		J
P-12US	(0.0- 0.0)	WG	N	CR	.0500	=		70.00		J
P-12US	(0.0- 0.0)	WG	N	ZN	.0230	=		20.00		J
P-13M	(0.0- 0.0)	WG	N	CA	58.0000	=		100.00		J
P-13M	(0.0- 0.0)	WG	N	CA	59.0000	=		100.00		J
P-13M	(0.0- 0.0)	WG	N	K	7.1000	=		5000.00		J
P-13M	(0.0- 0.0)	WG	N	K	9.7000	=		5000.00		J
P-13M	(0.0- 0.0)	WG	N	MG	26.0000	=		300.00		J
P-13M	(0.0- 0.0)	WG	N	MG	27.0000	=		300.00		J
P-13M	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
P-13M	(0.0- 0.0)	WG	N	NA	37.0000	=		300.00		J
P-13M	(0.0- 0.0)	WG	N	NA	38.0000	=		300.00		J
P-13M	(0.0- 0.0)	WG	N	ZN	.1500	=		20.00		J
P-13U	(0.0- 0.0)	WG	N	CA	88.0000	=		100.00		J
P-13U	(0.0- 0.0)	WG	N	CU	.0200	=		60.00		J
P-13U	(0.0- 0.0)	WG	N	CU	.1400	=		60.00		J
P-13U	(0.0- 0.0)	WG	N	FE	.1600	=		70.00		J
P-13U	(0.0- 0.0)	WG	N	FE	.6400	=		70.00		J
P-13U	(0.0- 0.0)	WG	N	K	15.0000	=		5000.00		J
P-13U	(0.0- 0.0)	WG	N	K	20.0000	=		5000.00		J
P-13U	(0.0- 0.0)	WG	N	K	21.0000	=		5000.00		J
P-13U	(0.0- 0.0)	WG	N	MG	.0300	=		300.00		J
P-13U	(0.0- 0.0)	WG	N	MG	.0800	=		300.00		J
P-13U	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
P-13U	(0.0- 0.0)	WG	N	MN	.0600	=		20.00		J
P-13U	(0.0- 0.0)	WG	N	NA	69.0000	=		300.00		J
P-13U	(0.0- 0.0)	WG	N	NA	78.0000	=		300.00		J
P-13U	(0.0- 0.0)	WG	N	NA	81.0000	=		300.00		J
P-13U	(0.0- 0.0)	WG	N	PB	.0380	=		500.00		J
P-13U	(0.0- 0.0)	WG	N	PB	.0600	=		500.00		J
P-13U	(0.0- 0.0)	WG	N	PB	.1700	=		500.00		J
P-13U	(0.0- 0.0)	WG	N	ZN	.2100	=		20.00		J
P-13U	(0.0- 0.0)	WG	N	ZN	1.4000	=		20.00		J
P-13U	(0.0- 0.0)	WG	N	ZN	4.4000	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-14US	(0.0- 0.0)	WG	N	BA	.2600	=		20.00		J
P-14US	(0.0- 0.0)	WG	N	BA	.2600	=		20.00		J
P-14US	(0.0- 0.0)	WG	N	BA	.3900	=		20.00		J
P-14US	(0.0- 0.0)	WG	N	K	30.0000	=		5000.00		J
P-14US	(0.0- 0.0)	WG	N	K	30.0000	=		5000.00		J
P-14US	(0.0- 0.0)	WG	N	K	39.0000	=		5000.00		J
P-14US	(0.0- 0.0)	WG	N	MG	.0100	=		300.00		J
P-14US	(0.0- 0.0)	WG	N	MG	.0200	=		300.00		J
P-14US	(0.0- 0.0)	WG	N	MG	.0400	=		300.00		J
P-14US	(0.0- 0.0)	WG	N	NA	43.0000	=		300.00		J
P-14US	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
P-14US	(0.0- 0.0)	WG	N	NA	49.0000	=		300.00		J
P-15U	(0.0- 0.0)	WG	N	CA	24.0000	=		100.00		J
P-15U	(0.0- 0.0)	WG	N	K	15.0000	=		5000.00		J
P-15U	(0.0- 0.0)	WG	N	MG	6.5000	=		300.00		J
P-15U	(0.0- 0.0)	WG	N	NA	58.0000	=		300.00		J
P-15US	(0.0- 0.0)	WG	N	CA	8.3000	=		100.00		J
P-15US	(0.0- 0.0)	WG	N	K	16.0000	=		5000.00		J
P-15US	(0.0- 0.0)	WG	N	MG	1.2000	=		300.00		J
P-15US	(0.0- 0.0)	WG	N	NA	51.0000	=		300.00		J
P-16US	(0.0- 0.0)	WG	N	CA	7.7000	=		100.00		J
P-16US	(0.0- 0.0)	WG	N	K	19.0000	=		5000.00		J
P-16US	(0.0- 0.0)	WG	N	MG	.2900	=		300.00		J
P-16US	(0.0- 0.0)	WG	N	NA	45.0000	=		300.00		J
P-18US	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
P-18US	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
P-18US	(0.0- 0.0)	WG	N	CA	89.0000	=		100.00		J
P-18US	(0.0- 0.0)	WG	N	CA	90.0000	=		100.00		J
P-18US	(0.0- 0.0)	WG	N	K	3.2000	=		5000.00		J
P-18US	(0.0- 0.0)	WG	N	K	3.5000	=		5000.00		J
P-18US	(0.0- 0.0)	WG	N	MG	10.0000	=		300.00		J
P-18US	(0.0- 0.0)	WG	N	MG	11.0000	=		300.00		J
P-18US	(0.0- 0.0)	WG	N	MN	.0100	=		20.00		J
P-18US	(0.0- 0.0)	WG	N	NA	31.0000	=		300.00		J
P-18US	(0.0- 0.0)	WG	N	NA	34.0000	=		300.00		J
P-18US	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
P-2	(0.0- 0.0)	WG	N	AG	.0050	=		70.00		J
P-2	(0.0- 0.0)	WG	N	AG	.0060	=		70.00		J
P-2	(0.0- 0.0)	WG	N	AG	.0160	=		70.00		J
P-2	(0.0- 0.0)	WG	N	BA	.0580	=		20.00		J

253590

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-2	(0.0- 0.0)	WG	N	BA	.0890	=		20.00		J
P-2	(0.0- 0.0)	WG	N	BE	.0020	=		3.00		J
P-2	(0.0- 0.0)	WG	N	CA	55.0000	=		100.00		J
P-2	(0.0- 0.0)	WG	N	CD	.0030	=		40.00		J
P-2	(0.0- 0.0)	WG	N	CR	.0130	=		70.00		J
P-2	(0.0- 0.0)	WG	N	CU	.0230	=		60.00		J
P-2	(0.0- 0.0)	WG	N	FE	.0150	=		70.00		J
P-2	(0.0- 0.0)	WG	N	FE	.0700	=		70.00		J
P-2	(0.0- 0.0)	WG	N	FE	.0770	=		70.00		J
P-2	(0.0- 0.0)	WG	N	K	4.6000	=		5000.00		J
P-2	(0.0- 0.0)	WG	N	MG	21.0000	=		300.00		J
P-2	(0.0- 0.0)	WG	N	MN	.0140	=		20.00		J
P-2	(0.0- 0.0)	WG	N	MN	.0190	=		20.00		J
P-2	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
P-2	(0.0- 0.0)	WG	N	MN	.0240	=		20.00		J
P-2	(0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
P-2	(0.0- 0.0)	WG	N	MN	.0420	=		20.00		J
P-2	(0.0- 0.0)	WG	N	NA	37.0000	=		300.00		J
P-2	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
P-2	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
P-2	(0.0- 0.0)	WG	N	SB	.0510	=		400.00		J
P-2	(0.0- 0.0)	WG	N	ZN	.0800	=		20.00		J
P-2	(0.0- 0.0)	WG	N	ZN	.0820	=		20.00		J
P-2	(0.0- 0.0)	WG	N	ZN	.0870	=		20.00		J
P-2	(0.0- 0.0)	WG	N	ZN	.2700	=		20.00		J
P-20M	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
P-20M	(0.0- 0.0)	WG	N	CA	53.0000	=		100.00		J
P-20M	(0.0- 0.0)	WG	N	CA	55.0000	=		100.00		J
P-20M	(0.0- 0.0)	WG	N	CA	56.0000	=		100.00		J
P-20M	(0.0- 0.0)	WG	N	CU	.0400	=		60.00		J
P-20M	(0.0- 0.0)	WG	N	K	6.7000	=		5000.00		J
P-20M	(0.0- 0.0)	WG	N	K	6.9000	=		5000.00		J
P-20M	(0.0- 0.0)	WG	N	K	7.0000	=		5000.00		J
P-20M	(0.0- 0.0)	WG	N	MG	22.0000	=		300.00		J
P-20M	(0.0- 0.0)	WG	N	MG	23.0000	=		300.00		J
P-20M	(0.0- 0.0)	WG	N	MG	24.0000	=		300.00		J
P-20M	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
P-20M	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
P-20M	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
P-20M	(0.0- 0.0)	WG	N	NA	31.0000	=		300.00		J
P-20M	(0.0- 0.0)	WG	N	NA	33.0000	=		300.00		J
P-20M	(0.0- 0.0)	WG	N	NA	34.0000	=		300.00		J
P-20M	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-21U	(0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
P-21U	(0.0- 0.0)	WG	N	CA	48.0000	=		100.00		J
P-21U	(0.0- 0.0)	WG	N	CA	49.0000	=		100.00		J
P-21U	(0.0- 0.0)	WG	N	CA	50.0000	=		100.00		J
P-21U	(0.0- 0.0)	WG	N	K	6.0000	=		5000.00		J
P-21U	(0.0- 0.0)	WG	N	K	6.2000	=		5000.00		J
P-21U	(0.0- 0.0)	WG	N	K	6.2000	=		5000.00		J
P-21U	(0.0- 0.0)	WG	N	MG	19.0000	=		300.00		J
P-21U	(0.0- 0.0)	WG	N	MG	19.0000	=		300.00		J
P-21U	(0.0- 0.0)	WG	N	MG	21.0000	=		300.00		J
P-21U	(0.0- 0.0)	WG	N	MN	.0400	=		20.00		J
P-21U	(0.0- 0.0)	WG	N	MN	.0600	=		20.00		J
P-21U	(0.0- 0.0)	WG	N	MN	.0600	=		20.00		J
P-21U	(0.0- 0.0)	WG	N	MO	.1000	=		80.00		J
P-21U	(0.0- 0.0)	WG	N	NA	41.0000	=		300.00		J
P-21U	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
P-21U	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
P-21U	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
P-21U	(0.0- 0.0)	WG	N	ZN	.0800	=		20.00		J
P-22U	(0.0- 0.0)	WG	N	BA	.2700	=		20.00		J
P-22U	(0.0- 0.0)	WG	N	CA	64.0000	=		100.00		J
P-22U	(0.0- 0.0)	WG	N	K	4.9000	=		5000.00		J
P-22U	(0.0- 0.0)	WG	N	K	5.0000	=		5000.00		J
P-22U	(0.0- 0.0)	WG	N	K	5.0000	=		5000.00		J
P-22U	(0.0- 0.0)	WG	N	K	5.6000	=		5000.00		J
P-22U	(0.0- 0.0)	WG	N	K	6.2000	=		5000.00		J
P-22U	(0.0- 0.0)	WG	N	MG	22.0000	=		300.00		J
P-22U	(0.0- 0.0)	WG	N	MG	23.0000	=		300.00		J
P-22U	(0.0- 0.0)	WG	N	MG	25.0000	=		300.00		J
P-22U	(0.0- 0.0)	WG	N	MG	26.0000	=		300.00		J
P-22U	(0.0- 0.0)	WG	N	MG	28.0000	=		300.00		J
P-22U	(0.0- 0.0)	WG	N	MN	.0400	=		20.00		J
P-22U	(0.0- 0.0)	WG	N	MN	.1500	=		20.00		J
P-22U	(0.0- 0.0)	WG	N	MN	.1600	=		20.00		J
P-22U	(0.0- 0.0)	WG	N	MN	.1600	=		20.00		J
P-22U	(0.0- 0.0)	WG	N	NA	24.0000	=		300.00		J
P-22U	(0.0- 0.0)	WG	N	NA	53.0000	=		300.00		J
P-22U	(0.0- 0.0)	WG	N	NA	53.0000	=		300.00		J
P-22U	(0.0- 0.0)	WG	N	NA	54.0000	=		300.00		J
P-22U	(0.0- 0.0)	WG	N	NA	56.0000	=		300.00		J
P-22U	(0.0- 0.0)	WG	N	ZN	.1400	=		20.00		J
P-22U	(0.0- 0.0)	WG	N	ZN	.1600	=		20.00		J
P-22U	(0.0- 0.0)	WG	N	ZN	.1700	=		20.00		J
P-22U	(0.0- 0.0)	WG	N	ZN	.1800	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-23U	(0.0- 0.0)	WG	N	CU	.0300	=		60.00		J
P-23U	(0.0- 0.0)	WG	N	FE	.4200	=		70.00		J
P-23U	(0.0- 0.0)	WG	N	FE	2.1000	=		70.00		J
P-23U	(0.0- 0.0)	WG	N	FE	3.2000	=		70.00		J
P-23U	(0.0- 0.0)	WG	N	K	31.0000	=		5000.00		J
P-23U	(0.0- 0.0)	WG	N	K	38.0000	=		5000.00		J
P-23U	(0.0- 0.0)	WG	N	K	43.0000	=		5000.00		J
P-23U	(0.0- 0.0)	WG	N	MG	5.0000	=		300.00		J
P-23U	(0.0- 0.0)	WG	N	MG	5.2000	=		300.00		J
P-23U	(0.0- 0.0)	WG	N	MG	5.3000	=		300.00		J
P-23U	(0.0- 0.0)	WG	N	MN	.1700	=		20.00		J
P-23U	(0.0- 0.0)	WG	N	MN	.1700	=		20.00		J
P-23U	(0.0- 0.0)	WG	N	MN	.2000	=		20.00		J
P-23U	(0.0- 0.0)	WG	N	NA	36.0000	=		300.00		J
P-23U	(0.0- 0.0)	WG	N	NA	38.0000	=		300.00		J
P-23U	(0.0- 0.0)	WG	N	NA	39.0000	=		300.00		J
P-23U	(0.0- 0.0)	WG	N	ZN	.0400	=		20.00		J
P-23U	(0.0- 0.0)	WG	N	ZN	.0700	=		20.00		J
P-23U	(0.0- 0.0)	WG	N	ZN	.0800	=		20.00		J
P-24M	(0.0- 0.0)	WG	N	BA	.2400	=		20.00		J
P-24M	(0.0- 0.0)	WG	N	CA	83.0000	=		100.00		J
P-24M	(0.0- 0.0)	WG	N	K	4.0000	=		5000.00		J
P-24M	(0.0- 0.0)	WG	N	MG	19.0000	=		300.00		J
P-24M	(0.0- 0.0)	WG	N	MN	.3900	=		20.00		J
P-24M	(0.0- 0.0)	WG	N	NA	28.0000	=		300.00		J
P-24M	(0.0- 0.0)	WG	N	ZN	.4700	=		20.00		J
P-24U	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
P-24U	(0.0- 0.0)	WG	N	CU	.0300	=		60.00		J
P-24U	(0.0- 0.0)	WG	N	K	3.8000	=		5000.00		J
P-24U	(0.0- 0.0)	WG	N	K	3.9000	=		5000.00		J
P-24U	(0.0- 0.0)	WG	N	MG	8.8000	=		300.00		J
P-24U	(0.0- 0.0)	WG	N	MG	11.0000	=		300.00		J
P-24U	(0.0- 0.0)	WG	N	MN	.4500	=		20.00		J
P-24U	(0.0- 0.0)	WG	N	NA	45.0000	=		300.00		J
P-24U	(0.0- 0.0)	WG	N	NA	46.0000	=		300.00		J
P-24U	(0.0- 0.0)	WG	N	ZN	.4500	=		20.00		J
P-25M	(0.0- 0.0)	WG	N	CA	47.0000	=		100.00		J
P-25M	(0.0- 0.0)	WG	N	K	10.0000	=		5000.00		J
P-25M	(0.0- 0.0)	WG	N	MG	26.0000	=		300.00		J
P-25M	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
P-25M	(0.0- 0.0)	WG	N	NA	35.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-25M	(0.0- 0.0)	WG	N	ZN	.0200	=		20.00		J
P-25U	(0.0- 0.0)	WG	N	CA	46.0000	=		100.00		J
P-25U	(0.0- 0.0)	WG	N	CU	.0600	=		60.00		J
P-25U	(0.0- 0.0)	WG	N	K	6.6000	=		5000.00		J
P-25U	(0.0- 0.0)	WG	N	MG	17.0000	=		300.00		J
P-25U	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
P-25U	(0.0- 0.0)	WG	N	NA	44.0000	=		300.00		J
P-25U	(0.0- 0.0)	WG	N	ZN	.2400	=		20.00		J
P-26M	(0.0- 0.0)	WG	N	CA	48.0000	=		100.00		J
P-26M	(0.0- 0.0)	WG	N	K	5.4000	=		5000.00		J
P-26M	(0.0- 0.0)	WG	N	MG	22.0000	=		300.00		J
P-26M	(0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
P-26M	(0.0- 0.0)	WG	N	NA	48.0000	=		300.00		J
P-26M	(0.0- 0.0)	WG	N	ZN	.2300	=		20.00		J
P-3	(0.0- 0.0)	WG	N	AG	.0190	=		70.00		J
P-3	(0.0- 0.0)	WG	N	BA	.0550	=		20.00		J
P-3	(0.0- 0.0)	WG	N	BA	.0850	=		20.00		J
P-3	(0.0- 0.0)	WG	N	CD	.0070	=		40.00		J
P-3	(0.0- 0.0)	WG	N	FE	.0150	=		70.00		J
P-3	(0.0- 0.0)	WG	N	FE	.0260	=		70.00		J
P-3	(0.0- 0.0)	WG	N	FE	.0440	=		70.00		J
P-3	(0.0- 0.0)	WG	N	FE	.5900	=		70.00		J
P-3	(0.0- 0.0)	WG	N	K	4.2000	=		5000.00		J
P-3	(0.0- 0.0)	WG	N	MG	24.0000	=		300.00		J
P-3	(0.0- 0.0)	WG	N	MN	.0250	=		20.00		J
P-3	(0.0- 0.0)	WG	N	MN	.0280	=		20.00		J
P-3	(0.0- 0.0)	WG	N	MN	.0610	=		20.00		J
P-3	(0.0- 0.0)	WG	N	MN	.0700	=		20.00		J
P-3	(0.0- 0.0)	WG	N	MN	.0900	=		20.00		J
P-3	(0.0- 0.0)	WG	N	NA	28.0000	=		300.00		J
P-3	(0.0- 0.0)	WG	N	NI	.0110	=		150.00		J
P-3	(0.0- 0.0)	WG	N	ZN	.0130	=		20.00		J
P-3	(0.0- 0.0)	WG	N	ZN	.0210	=		20.00		J
P-3	(0.0- 0.0)	WG	N	ZN	.3700	=		20.00		J
P-4	(0.0- 0.0)	WG	N	AG	.0060	=		70.00		J
P-4	(0.0- 0.0)	WG	N	AG	.0090	=		70.00		J
P-4	(0.0- 0.0)	WG	N	AG	.0160	=		70.00		J
P-4	(0.0- 0.0)	WG	N	AL	.1200	=		500.00		J
P-4	(0.0- 0.0)	WG	N	AL	.3500	=		500.00		J
P-4	(0.0- 0.0)	WG	N	BA	.0280	=		20.00		J
P-4	(0.0- 0.0)	WG	N	BA	.0440	=		20.00		J

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Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-4	(0.0- 0.0)	WG	N	BE	.0010	=		3.00		J
P-4	(0.0- 0.0)	WG	N	CA	96.0000	=		100.00		J
P-4	(0.0- 0.0)	WG	N	CR	.0010	=		70.00		J
P-4	(0.0- 0.0)	WG	N	CR	.0030	=		70.00		J
P-4	(0.0- 0.0)	WG	N	CU	.0030	=		60.00		J
P-4	(0.0- 0.0)	WG	N	CU	.0140	=		60.00		J
P-4	(0.0- 0.0)	WG	N	FE	.0270	=		70.00		J
P-4	(0.0- 0.0)	WG	N	FE	.0590	=		70.00		J
P-4	(0.0- 0.0)	WG	N	FE	.0830	=		70.00		J
P-4	(0.0- 0.0)	WG	N	FE	.1170	=		70.00		J
P-4	(0.0- 0.0)	WG	N	FE	.1600	=		70.00		J
P-4	(0.0- 0.0)	WG	N	K	4.9000	=		5000.00		J
P-4	(0.0- 0.0)	WG	N	MG	22.0000	=		300.00		J
P-4	(0.0- 0.0)	WG	N	MN	.0650	=		20.00		J
P-4	(0.0- 0.0)	WG	N	MN	.1200	=		20.00		J
P-4	(0.0- 0.0)	WG	N	MN	.1600	=		20.00		J
P-4	(0.0- 0.0)	WG	N	MN	.2100	=		20.00		J
P-4	(0.0- 0.0)	WG	N	MN	.2100	=		20.00		J
P-4	(0.0- 0.0)	WG	N	MN	.3100	=		20.00		J
P-4	(0.0- 0.0)	WG	N	NA	27.0000	=		300.00		J
P-4	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
P-4	(0.0- 0.0)	WG	N	ZN	.0180	=		20.00		J
P-4	(0.0- 0.0)	WG	N	ZN	.0940	=		20.00		J
P-4	(0.0- 0.0)	WG	N	ZN	.1000	=		20.00		J
P-4	(0.0- 0.0)	WG	N	ZN	.1100	=		20.00		J
P-5M	(0.0- 0.0)	WG	N	AL	.2400	=		500.00		J
P-5M	(0.0- 0.0)	WG	N	AS	.0050	=		600.00		J
P-5M	(0.0- 0.0)	WG	N	BA	.0780	=		20.00		J
P-5M	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
P-5M	(0.0- 0.0)	WG	N	CA	56.0000	=		100.00		J
P-5M	(0.0- 0.0)	WG	N	CR	.0030	=		70.00		J
P-5M	(0.0- 0.0)	WG	N	CU	.0020	=		60.00		J
P-5M	(0.0- 0.0)	WG	N	K	6.7000	=		5000.00		J
P-5M	(0.0- 0.0)	WG	N	MG	29.0000	=		300.00		J
P-5M	(0.0- 0.0)	WG	N	MN	.0140	=		20.00		J
P-5M	(0.0- 0.0)	WG	N	MN	.0310	=		20.00		J
P-5M	(0.0- 0.0)	WG	N	MN	.0370	=		20.00		J
P-5M	(0.0- 0.0)	WG	N	NA	28.0000	=		300.00		J
P-5M	(0.0- 0.0)	WG	N	NI	.2500	=		150.00		J
P-5M	(0.0- 0.0)	WG	N	SE	.0050	=		800.00		J
P-5M	(0.0- 0.0)	WG	N	TL	.0030	=		400.00		J
P-5M	(0.0- 0.0)	WG	N	ZN	.0060	=		20.00		J
P-5M	(0.0- 0.0)	WG	N	ZN	.2000	=		20.00		J

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Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-5U	(0.0- 0.0)	WG	N	BA	.0780	=		20.00		J
P-5U	(0.0- 0.0)	WG	N	CA	52.0000	=		100.00		J
P-5U	(0.0- 0.0)	WG	N	CR	.0020	=		70.00		J
P-5U	(0.0- 0.0)	WG	N	CU	.0030	=		60.00		J
P-5U	(0.0- 0.0)	WG	N	CU	.0040	=		60.00		J
P-5U	(0.0- 0.0)	WG	N	FE	.0550	=		70.00		J
P-5U	(0.0- 0.0)	WG	N	FE	.3900	=		70.00		J
P-5U	(0.0- 0.0)	WG	N	K	25.0000	=		5000.00		J
P-5U	(0.0- 0.0)	WG	N	MG	12.0000	=		300.00		J
P-5U	(0.0- 0.0)	WG	N	MN	.0050	=		20.00		J
P-5U	(0.0- 0.0)	WG	N	MN	.1400	=		20.00		J
P-5U	(0.0- 0.0)	WG	N	MN	.1600	=		20.00		J
P-5U	(0.0- 0.0)	WG	N	NA	67.0000	=		300.00		J
P-5U	(0.0- 0.0)	WG	N	NI	.2400	=		150.00		J
P-5U	(0.0- 0.0)	WG	N	ZN	.0220	=		20.00		J
P-5U	(0.0- 0.0)	WG	N	ZN	.3500	=		20.00		J
P-6M	(0.0- 0.0)	WG	N	AG	.0050	=		70.00		J
P-6M	(0.0- 0.0)	WG	N	AL	.3000	=		500.00		J
P-6M	(0.0- 0.0)	WG	N	AS	.0070	=		600.00		J
P-6M	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
P-6M	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
P-6M	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
P-6M	(0.0- 0.0)	WG	N	CA	96.0000	=		100.00		J
P-6M	(0.0- 0.0)	WG	N	CD	.0030	=		40.00		J
P-6M	(0.0- 0.0)	WG	N	CD	.0080	=		40.00		J
P-6M	(0.0- 0.0)	WG	N	CR	.0030	=		70.00		J
P-6M	(0.0- 0.0)	WG	N	CR	.0050	=		70.00		J
P-6M	(0.0- 0.0)	WG	N	CU	.0060	=		60.00		J
P-6M	(0.0- 0.0)	WG	N	FE	.0110	=		70.00		J
P-6M	(0.0- 0.0)	WG	N	FE	.0130	=		70.00		J
P-6M	(0.0- 0.0)	WG	N	FE	.0670	=		70.00		J
P-6M	(0.0- 0.0)	WG	N	K	4.1000	=		5000.00		J
P-6M	(0.0- 0.0)	WG	N	K	5.9000	=		5000.00		J
P-6M	(0.0- 0.0)	WG	N	MG	36.0000	=		300.00		J
P-6M	(0.0- 0.0)	WG	N	MG	38.0000	=		300.00		J
P-6M	(0.0- 0.0)	WG	N	MN	.0370	=		20.00		J
P-6M	(0.0- 0.0)	WG	N	MN	.0420	=		20.00		J
P-6M	(0.0- 0.0)	WG	N	MN	.0490	=		20.00		J
P-6M	(0.0- 0.0)	WG	N	MN	.3800	=		20.00		J
P-6M	(0.0- 0.0)	WG	N	NA	35.0000	=		300.00		J
P-6M	(0.0- 0.0)	WG	N	NA	35.0000	=		300.00		J
P-6M	(0.0- 0.0)	WG	N	NI	.2300	=		150.00		J
P-6M	(0.0- 0.0)	WG	N	SE	.0060	=		800.00		J
P-6M	(0.0- 0.0)	WG	N	TL	.0040	=		400.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-6M	(0.0- 0.0)	WG	N	TL	.0150	=		400.00		J
P-6M	(0.0- 0.0)	WG	N	ZN	.0180	=		20.00		J
P-6M	(0.0- 0.0)	WG	N	ZN	.0980	=		20.00		J
P-6M	(0.0- 0.0)	WG	N	ZN	.1200	=		20.00		J
P-6U	(0.0- 0.0)	WG	N	AL	.4900	=		500.00		J
P-6U	(0.0- 0.0)	WG	N	AL	.7100	=		500.00		J
P-6U	(0.0- 0.0)	WG	N	BA	.2600	=		20.00		J
P-6U	(0.0- 0.0)	WG	N	BA	.7400	=		20.00		J
P-6U	(0.0- 0.0)	WG	N	CR	.0010	=		70.00		J
P-6U	(0.0- 0.0)	WG	N	CR	.0040	=		70.00		J
P-6U	(0.0- 0.0)	WG	N	CR	.0080	=		70.00		J
P-6U	(0.0- 0.0)	WG	N	CR	.0230	=		70.00		J
P-6U	(0.0- 0.0)	WG	N	CR	.0400	=		70.00		J
P-6U	(0.0- 0.0)	WG	N	CU	.0040	=		60.00		J
P-6U	(0.0- 0.0)	WG	N	CU	.0160	=		60.00		J
P-6U	(0.0- 0.0)	WG	N	CU	.0480	=		60.00		J
P-6U	(0.0- 0.0)	WG	N	CU	.1900	=		60.00		J
P-6U	(0.0- 0.0)	WG	N	FE	.0150	=		70.00		J
P-6U	(0.0- 0.0)	WG	N	FE	.0460	=		70.00		J
P-6U	(0.0- 0.0)	WG	N	FE	.0780	=		70.00		J
P-6U	(0.0- 0.0)	WG	N	K	48.0000	=		5000.00		J
P-6U	(0.0- 0.0)	WG	N	K	200.0000	=		5000.00		J
P-6U	(0.0- 0.0)	WG	N	MG	.0800	=		300.00		J
P-6U	(0.0- 0.0)	WG	N	MG	.1500	=		300.00		J
P-6U	(0.0- 0.0)	WG	N	MN	.0020	=		20.00		J
P-6U	(0.0- 0.0)	WG	N	MN	.0050	=		20.00		J
P-6U	(0.0- 0.0)	WG	N	MN	.0190	=		20.00		J
P-6U	(0.0- 0.0)	WG	N	NA	61.0000	=		300.00		J
P-6U	(0.0- 0.0)	WG	N	NA	99.0000	=		300.00		J
P-6U	(0.0- 0.0)	WG	N	NI	.0040	=		150.00		J
P-6U	(0.0- 0.0)	WG	N	NI	.0060	=		150.00		J
P-6U	(0.0- 0.0)	WG	N	NI	.0100	=		150.00		J
P-6U	(0.0- 0.0)	WG	N	PB	.1200	=		500.00		J
P-6U	(0.0- 0.0)	WG	N	PB	.1300	=		500.00		J
P-6U	(0.0- 0.0)	WG	N	PB	.1400	=		500.00		J
P-6U	(0.0- 0.0)	WG	N	PB	.1600	=		500.00		J
P-6U	(0.0- 0.0)	WG	N	PB	.2500	=		500.00		J
P-6U	(0.0- 0.0)	WG	N	PB	.3400	=		500.00		J
P-6U	(0.0- 0.0)	WG	N	ZN	.6500	=		20.00		J
P-6U	(0.0- 0.0)	WG	N	ZN	1.4000	=		20.00		J
P-6U	(0.0- 0.0)	WG	N	ZN	1.7000	=		20.00		J
P-7M	(0.0- 0.0)	WG	N	AS	.0060	=		600.00		J
P-7M	(0.0- 0.0)	WG	N	BA	.0730	=		20.00		J

Field ID	Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010									
P-7M (0.0- 0.0)	WG	N	CR	.0040	=		70.00		J
P-7M (0.0- 0.0)	WG	N	FE	.0630	=		70.00		J
P-7M (0.0- 0.0)	WG	N	K	7.8000	=		5000.00		J
P-7M (0.0- 0.0)	WG	N	MG	28.0000	=		300.00		J
P-7M (0.0- 0.0)	WG	N	NA	21.0000	=		300.00		J
P-7M (0.0- 0.0)	WG	N	NI	.0040	=		150.00		J
P-7U (0.0- 0.0)	WG	N	FE	.0570	=		70.00		J
P-7U (0.0- 0.0)	WG	N	MN	.0120	=		20.00		J
P-7U (0.0- 0.0)	WG	N	ZN	2.9000	=		20.00		J
P-8M (0.0- 0.0)	WG	N	AG	.0050	=		70.00		J
P-8M (0.0- 0.0)	WG	N	AL	.2700	=		500.00		J
P-8M (0.0- 0.0)	WG	N	AS	.0030	=		600.00		J
P-8M (0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
P-8M (0.0- 0.0)	WG	N	BA	.1000	=		20.00		J
P-8M (0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
P-8M (0.0- 0.0)	WG	N	BA	.1120	=		20.00		J
P-8M (0.0- 0.0)	WG	N	CA	38.0000	=		100.00		J
P-8M (0.0- 0.0)	WG	N	CA	47.0000	=		100.00		J
P-8M (0.0- 0.0)	WG	N	CA	60.0000	=		100.00		J
P-8M (0.0- 0.0)	WG	N	CU	.0050	=		60.00		J
P-8M (0.0- 0.0)	WG	N	CU	.0200	=		60.00		J
P-8M (0.0- 0.0)	WG	N	FE	.1200	=		70.00		J
P-8M (0.0- 0.0)	WG	N	K	6.3000	=		5000.00		J
P-8M (0.0- 0.0)	WG	N	K	6.6000	=		5000.00		J
P-8M (0.0- 0.0)	WG	N	K	6.6000	=		5000.00		J
P-8M (0.0- 0.0)	WG	N	MG	19.0000	=		300.00		J
P-8M (0.0- 0.0)	WG	N	MG	19.0000	=		300.00		J
P-8M (0.0- 0.0)	WG	N	MG	23.0000	=		300.00		J
P-8M (0.0- 0.0)	WG	N	MN	.0160	=		20.00		J
P-8M (0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
P-8M (0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
P-8M (0.0- 0.0)	WG	N	MN	.0200	=		20.00		J
P-8M (0.0- 0.0)	WG	N	MN	.0260	=		20.00		J
P-8M (0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
P-8M (0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
P-8M (0.0- 0.0)	WG	N	MN	.0300	=		20.00		J
P-8M (0.0- 0.0)	WG	N	MN	.5100	=		20.00		J
P-8M (0.0- 0.0)	WG	N	NA	29.0000	=		300.00		J
P-8M (0.0- 0.0)	WG	N	NA	29.0000	=		300.00		J
P-8M (0.0- 0.0)	WG	N	NA	69.0000	=		300.00		J
P-8M (0.0- 0.0)	WG	N	NI	.0140	=		150.00		J
P-8M (0.0- 0.0)	WG	N	ZN	.0830	=		20.00		J
P-8M (0.0- 0.0)	WG	N	ZN	.1600	=		20.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-8M	(0.0- 0.0)	WG	N	ZN	.1800	=		20.00		J
P-8M	(0.0- 0.0)	WG	N	ZN	.1850	=		20.00		J
P-8M	(0.0- 0.0)	WG	N	ZN	.1900	=		20.00		J
P-8M	(0.0- 0.0)	WG	N	ZN	.2100	=		20.00		J
P-8M	(0.0- 0.0)	WG	N	ZN	.2400	=		20.00		J
P-8M	(0.0- 0.0)	WG	N	ZN	.2600	=		20.00		J
P-8M	(0.0- 0.0)	WG	N	ZN	.5200	=		20.00		J
P-8U	(0.0- 0.0)	WG	N	K	3.2000	=		5000.00		J
P-8U	(0.0- 0.0)	WG	N	MG	9.8000	=		300.00		J
P-8U	(0.0- 0.0)	WG	N	MN	.0130	=		20.00		J
P-8U	(0.0- 0.0)	WG	N	NA	22.0000	=		300.00		J
P-8U	(0.0- 0.0)	WG	N	NI	.0040	=		150.00		J
P-8U	(0.0- 0.0)	WG	N	PB	.0220	=		500.00		J
P-8U	(0.0- 0.0)	WG	N	ZN	5.6000	=		20.00		J
P-8UN	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
P-8UN	(0.0- 0.0)	WG	N	K	17.0000	=		5000.00		J
P-8UN	(0.0- 0.0)	WG	N	K	27.0000	=		5000.00		J
P-8UN	(0.0- 0.0)	WG	N	K	35.0000	=		5000.00		J
P-8UN	(0.0- 0.0)	WG	N	MG	.0100	=		300.00		J
P-8UN	(0.0- 0.0)	WG	N	NA	42.0000	=		300.00		J
P-8UN	(0.0- 0.0)	WG	N	NA	43.0000	=		300.00		J
P-8UN	(0.0- 0.0)	WG	N	NA	46.0000	=		300.00		J
P-8UN	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
P-8US	(0.0- 0.0)	WG	N	BA	.1100	=		20.00		J
P-8US	(0.0- 0.0)	WG	N	BA	.1200	=		20.00		J
P-8US	(0.0- 0.0)	WG	N	CA	71.0000	=		100.00		J
P-8US	(0.0- 0.0)	WG	N	CA	91.0000	=		100.00		J
P-8US	(0.0- 0.0)	WG	N	CU	.0200	=		60.00		J
P-8US	(0.0- 0.0)	WG	N	FE	.0600	=		70.00		J
P-8US	(0.0- 0.0)	WG	N	K	21.0000	=		5000.00		J
P-8US	(0.0- 0.0)	WG	N	K	37.0000	=		5000.00		J
P-8US	(0.0- 0.0)	WG	N	K	41.0000	=		5000.00		J
P-8US	(0.0- 0.0)	WG	N	MG	.0300	=		300.00		J
P-8US	(0.0- 0.0)	WG	N	NA	63.0000	=		300.00		J
P-8US	(0.0- 0.0)	WG	N	NA	79.0000	=		300.00		J
P-8US	(0.0- 0.0)	WG	N	NA	99.0000	=		300.00		J
P-8US	(0.0- 0.0)	WG	N	ZN	.0300	=		20.00		J
P-9M	(0.0- 0.0)	WG	N	CA	61.0000	=		100.00		J
P-9M	(0.0- 0.0)	WG	N	K	5.5000	=		5000.00		J
P-9M	(0.0- 0.0)	WG	N	K	13.0000	=		5000.00		J
P-9M	(0.0- 0.0)	WG	N	MG	28.0000	=		300.00		J

Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
P-9M	(0.0- 0.0)	WG	N	NA	21.0000	=		300.00		J
P-9M	(0.0- 0.0)	WG	N	NA	42.0000	=		300.00		J
P-9U	(0.0- 0.0)	WG	N	BA	.0840	=		20.00		J
P-9U	(0.0- 0.0)	WG	N	CA	45.0000	=		100.00		J
P-9U	(0.0- 0.0)	WG	N	FE	.0370	=		70.00		J
P-9U	(0.0- 0.0)	WG	N	K	11.0000	=		5000.00		J
P-9U	(0.0- 0.0)	WG	N	MG	18.0000	=		300.00		J
P-9U	(0.0- 0.0)	WG	N	NA	59.0000	=		300.00		J
P-9U	(0.0- 0.0)	WG	N	NI	.0090	=		150.00		J
P-9US	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
P-9US	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
P-9US	(0.0- 0.0)	WG	N	CR	.0100	=		70.00		J
P-9US	(0.0- 0.0)	WG	N	CR	.0200	=		70.00		J
P-9US	(0.0- 0.0)	WG	N	CR	.0550	=		70.00		J
P-9US	(0.0- 0.0)	WG	N	K	3.2000	=		5000.00		J
P-9US	(0.0- 0.0)	WG	N	MG	7.6000	=		300.00		J
P-9US	(0.0- 0.0)	WG	N	NA	23.0000	=		300.00		J
P-9US	(0.0- 0.0)	WG	N	ZN	.0100	=		20.00		J
POTBL WTR	(0.0- 0.0)	WG	N	CA	43.0000	=		100.00		J
POTBL WTR	(0.0- 0.0)	WG	N	K	5.3000	=		5000.00		J
POTBL WTR	(0.0- 0.0)	WG	N	MG	5.7000	=		300.00		J
POTBL WTR	(0.0- 0.0)	WG	N	NA	12.0000	=		300.00		J
RADRANGE	(0.0- 0.0)	WG	N	AG	.2100	=		70.00		J
RADRANGE	(0.0- 0.0)	WG	N	AL	1.2000	=		500.00		J
RADRANGE	(0.0- 0.0)	WG	N	CD	.0410	=		40.00		J
RADRANGE	(0.0- 0.0)	WG	N	CR	.1280	=		70.00		J
RADRANGE	(0.0- 0.0)	WG	N	CU	.1400	=		60.00		J
RADRANGE	(0.0- 0.0)	WG	N	FE	.1100	=		70.00		J
RADRANGE	(0.0- 0.0)	WG	N	K	1.1000	=		5000.00		J
RADRANGE	(0.0- 0.0)	WG	N	MG	3.8000	=		300.00		J
RADRANGE	(0.0- 0.0)	WG	N	MN	.0180	=		20.00		J
RADRANGE	(0.0- 0.0)	WG	N	NA	17.0000	=		300.00		J
RADRANGE	(0.0- 0.0)	WG	N	NI	.0850	=		150.00		J
RADRANGE	(0.0- 0.0)	WG	N	PB	.0250	=		500.00		J
RADRANGE	(0.0- 0.0)	WG	N	ZN	.2300	=		20.00		J
SO DITCH R	(0.0- 0.0)	WG	N	CA	18.0000	=		100.00		J
SO DITCH R	(0.0- 0.0)	WG	N	K	1.2000	=		5000.00		J
SO DITCH R	(0.0- 0.0)	WG	N	MG	.3600	=		300.00		J
SO DITCH R	(0.0- 0.0)	WG	N	NA	.8000	=		300.00		J

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Field ID		Mx	Sac	Parlabel	Parval	Parvq	Labdl	PRL	Units	PRL Flag
Method: SW6010										
SOUTHEND	(0.0- 0.0)	WG	N	CA	46.0000	=		100.00		J
SOUTHEND	(0.0- 0.0)	WG	N	K	5.3000	=		5000.00		J
SOUTHEND	(0.0- 0.0)	WG	N	MG	5.4000	=		300.00		J
SOUTHEND	(0.0- 0.0)	WG	N	NA	13.0000	=		300.00		J
ST5	(0.0- 0.0)	WG	N	AG	.1500	=		70.00		J
ST5	(0.0- 0.0)	WG	N	AL	.2200	=		500.00		J
ST5	(0.0- 0.0)	WG	N	BA	.0010	=		20.00		J
ST5	(0.0- 0.0)	WG	N	CR	.0150	=		70.00		J
ST5	(0.0- 0.0)	WG	N	FE	.1400	=		70.00		J
ST5	(0.0- 0.0)	WG	N	K	6.7000	=		5000.00		J
ST5	(0.0- 0.0)	WG	N	MG	16.0000	=		300.00		J
ST5	(0.0- 0.0)	WG	N	MN	.0140	=		20.00		J
ST5	(0.0- 0.0)	WG	N	MN	.0420	=		20.00		J
ST5	(0.0- 0.0)	WG	N	NA	59.0000	=		300.00		J
ST5	(0.0- 0.0)	WG	N	NI	.0140	=		150.00		J
ST5	(0.0- 0.0)	WG	N	NI	.0210	=		150.00		J
UZP-7	(0.0- 0.0)	WG	N	BA	.1800	=		20.00		J
UZP-7	(0.0- 0.0)	WG	N	FE	.0150	=		70.00		J
UZP-7	(0.0- 0.0)	WG	N	K	2.6000	=		5000.00		J
UZP-7	(0.0- 0.0)	WG	N	MG	14.0000	=		300.00		J
UZP-7	(0.0- 0.0)	WG	N	MN	.0240	=		20.00		J
UZP-7	(0.0- 0.0)	WG	N	NA	230.0000	=		300.00		J
UZP-7	(0.0- 0.0)	WG	N	NI	.0090	=		150.00		J
WS-1	(0.0- 0.0)	WG	N	AG	.0040	=		70.00		J
WS-1	(0.0- 0.0)	WG	N	AG	.0170	=		70.00		J
WS-1	(0.0- 0.0)	WG	N	AL	.0950	=		500.00		J
WS-1	(0.0- 0.0)	WG	N	AL	.2800	=		500.00		J
WS-1	(0.0- 0.0)	WG	N	BA	.0510	=		20.00		J
WS-1	(0.0- 0.0)	WG	N	BA	.0900	=		20.00		J
WS-1	(0.0- 0.0)	WG	N	CA	45.0000	=		100.00		J
WS-1	(0.0- 0.0)	WG	N	CA	64.0000	=		100.00		J
WS-1	(0.0- 0.0)	WG	N	CU	.0030	=		60.00		J
WS-1	(0.0- 0.0)	WG	N	CU	.0110	=		60.00		J
WS-1	(0.0- 0.0)	WG	N	FE	.0300	=		70.00		J
WS-1	(0.0- 0.0)	WG	N	FE	.0650	=		70.00		J
WS-1	(0.0- 0.0)	WG	N	FE	.1270	=		70.00		J
WS-1	(0.0- 0.0)	WG	N	FE	.1400	=		70.00		J
WS-1	(0.0- 0.0)	WG	N	FE	.1800	=		70.00		J
WS-1	(0.0- 0.0)	WG	N	K	4.9000	=		5000.00		J
WS-1	(0.0- 0.0)	WG	N	K	6.3000	=		5000.00		J
WS-1	(0.0- 0.0)	WG	N	MG	20.0000	=		300.00		J
WS-1	(0.0- 0.0)	WG	N	MG	24.0000	=		300.00		J