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SEPDB QR 1-90

# SITE AND ENGINEERING PROPERTIES DATABASE (SEPDB)

## QUARTERLY REPORT

by

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# INTRODUCTION

The Site and Engineering Properties Database (SEPDB) is being developed and maintained by the Technical Projects Division of Sandia National Laboratories for the Yucca Mountain Project. Its purpose is to provide a central location for the numeric data generated by Project participants. The types of information stored in the database are defined by the Site Characterization Plan (SCP) parameters list.

Besides the numeric data generated, the SEPDB also stores the QA level of the study and its source. All of the information is available to any project participant by request following Project Administrative Procedure 5.2Q (AP 5.2Q). Information requests from all other interested parties must be directed to the Yucca Mountain Project Manager, as per AP 5.2Q.

The SEPDB Quarterly Report lists the types of data currently in the database, explains how data can be requested from the SEPDB and provides forms for data submittals.

Appendix A of the report consists of three forms: a Data Authorization Form, Work Request Form, and a Data Information Form. Project participants interact with the SEPDB through the use of these forms.

The Data Authorization Form is used for submitting information to the database. The data submittal process is described in detail in AP 5.2Q; and, also, for Sandia personnel, in SNL DOP 3-11.

The Work Request Form is used to request information from the database. Although this form is necessary for an official database product to be generated (one that may be referenced), database retrievals can be initiated with a phone call to any of the SEPDB personnel. For QA purposes the product is issued in hardcopy form, but can also be supplied on magnetic media for ease in transport to another computer system. These files will be in ASCII format.

The Data Information Form is used to inform the Database Administrator of data that could be of interest to participants. Therefore, any participant who is aware of data they feel should be entered in the SEPDB, should use this form to notify the SEPDB staff. The SEPDB staff will do all the necessary work to see that the data are reviewed and, if appropriate, submitted to the database.

Appendix B is a listing of all new data submittals in the previous quarter.

Appendix C shows excerpts from two products. Example #1 shows how the report can correspond to the requestor's specific output requirements. In this particular product the requestor wanted the printout to match the format of an existing report. The data were retrieved from several tables and calculations were made in order to meet the requested format. Example #2 shows the ease in which data can be taken from the SEPDB and loaded into another software package. This request asked for an ASCII file that would meet the format requirements of a particular statistical package. The SEPDB staff is available to work with you to ensure the data are received in a format that meets your requirements.

The SEPDB staff:

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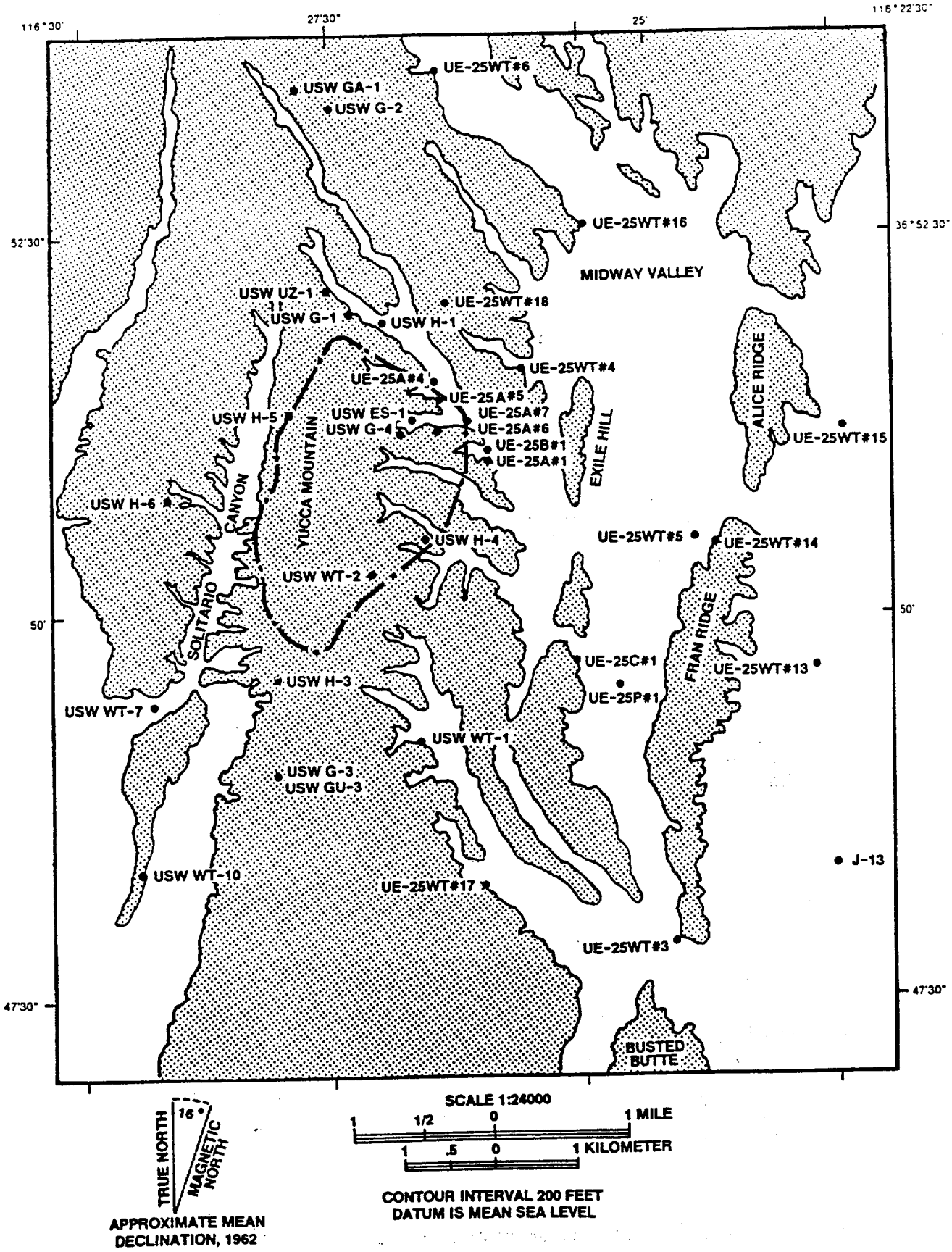
NOTE: SEPDB QR4-89 WAS NOT ISSUED




MAP OF YUCCA MOUNTAIN AND VICINITY (BEDROCK STIPPLED) SHOWING APPROXIMATE DRILL HOLE LOCATIONS AND PROPOSED REPOSITORY

## TYPES OF DATA CURRENTLY BEING STORED IN THE SEPDB

Bulk Density Values and Test Conditions
Bulk Modulus Data and Test Conditions
Compressive Strength Data and Test Conditions
Core Information, Intervals and Percent Recovery
Cross Section Locations for Predicted Floods
Drill Hole Locations, Surveys and Status
Elastic Properties (Poisson's Ratio & Young's Modulus)
Flood Predictions (100 yr, 500 yr & Regional Maximum)
Grain Density Values and Test Conditions
Hydraulic Conductivity Values and Test Conditions
Laboratory Sonic Velocity Measurements
Lithologic Unit Depths in Drill Hole
Matrix Potential Data and Test Conditions
Mineralogical Samples and Test Conditions
Natural-state Porewater Content Percentages
Nevada Plane Coordinates for Bottom of Surveyed Drill Holes
Paleomagnetic Data and Test Conditions
Parameters for Measured Floods
Percent Water Production in Drill Hole Intervals
Pore Saturation and Test Conditions
Porosity Values and Test Conditions
Relative Hydraulic Conductivity & Test Conditions
Saturation Curve-Fit Parameters and Test Conditions
Storage Coefficient Values for Well Tests
Thermal Conductivity Data and Test Conditions
Thermal/Mechanical Stratigraphic Units
Transmissivity Data and Pumping Conditions
Water Chemical Constituent Values for Drill Holes
Water Chemical Values for Springs & Non-Drill Hole Wells
Water Elevations and Depths, Dates of Measurements
Well Test Hydraulic Conductivity Measurements

## DATA TEMPORARILY NOT AVAILABLE

All WATER CHEMISTRY data are currently going through an internal review and, therefore, are not available for use in SEPDB Products.

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DRILL HOLE

| HOLE | TYPE OF DATA | REFERENCE CITATION |
|---|---|---|
| J-11 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| J-12 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| J-13 | | |
| | Bulk Density Values and Test Conditions | USGS WRIR 83-4171 |
| | Grain Density Values and Test Conditions | USGS WRIR 83-4171 |
| | Hydraulic Conductivity Values and Test Conditions | USGS WRIR 83-4171 |
| | Lithologic Unit Depths in Drill Hole | USGS WRIR 83-4171 |
| | Pore Saturation and Test Conditions | USGS WRIR 83-4171 |
| | Natural-state Porewater Content Percentages | USGS WRIR 83-4171 |
| | Porosity Values and Test Conditions | USGS WRIR 83-4171 |
| | Laboratory Sonic Velocity Measurements | USGS WRIR 83-4171 |
| | Transmissivity Data and Pumping Conditions | USGS WRIR 83-4171 |
| | Well Test Hydraulic Conductivity Measurements | USGS WRIR 83-4171 |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| | Water Chemical Constituent Values for Drill Holes | USGS WRIR 83-4171 |
| UE-16d | | |
| | Water Elevations and Depths, Dates of Measurements | USGS 1543-3 |
| | Water Chemical Constituent Values for Drill Holes | USGS 1543-3 |
| UE-16f | | |
| | Water Elevations and Depths, Dates of Measurements | USGS 1543-3 |
| | Water Chemical Constituent Values for Drill Holes | USGS 1543-3 |
| UE-17a | | |
| | Water Chemical Constituent Values for Drill Holes | USGS 1543-4 |
| UE-25 WT #12 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| UE-25 WT #13 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| UE-25 WT #14 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| UE-25 WT #15 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| UE-25 WT #16 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| UE-25 WT #17 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DRILL HOLE

| HOLE | TYPE OF DATA | REFERENCE CITATION |
|---|---|---|
| UE-25 WT #3 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| UE-25 WT #4 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| UE-25 WT #6 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| UE-25a #1 | | |
| | Bulk Density Values and Test Conditions | SAND88-0811<br>USGS OFR 81-1338 |
| | Grain Density Values and Test Conditions | SAND88-0811<br>USGS OFR 81-1338 |
| | Mineralogical Samples and Test Conditions | SAND88-0882<br>USGS OFR 84-491 |
| | Porosity Values and Test Conditions | SAND88-0811<br>USGS OFR 81-1338 |
| | Laboratory Sonic Velocity Measurements | USGS OFR 81-1338 |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| UE-25a #4 | | |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| UE-25a #5 | | |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| UE-25a #6 | | |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| UE-25a #7 | | |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| UE-25b #1 | | |
| | Bulk Density Values and Test Conditions | USGS WRIR 84-4253 |
| | Grain Density Values and Test Conditions | USGS WRIR 84-4253 |
| | Hydraulic Conductivity Values and Test Conditions | USGS WRIR 84-4253 |
| | Lithologic Unit Depths in Drill Hole | USGS WRIR 84-4253 |
| | Mineralogical Samples and Test Conditions | USGS BULL-1777 |
| | Pore Saturation and Test Conditions | USGS WRIR 84-4253 |
| | Natural-state Porewater Content Percentages | USGS OFR 83-855<br>USGS WRIR 84-4253 |
| | Porosity Values and Test Conditions | USGS WRIR 84-4253 |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| | Transmissivity Data and Pumping Conditions | USGS WRIR 84-4253 |
| | Well Test Hydraulic Conductivity Measurements | USGS WRIR 84-4253 |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197<br>USGS WRIR 84-4253 |
| | Water Chemical Constituent Values for Drill Holes | USGS OFR 83-855<br>USGS WRIR 84-4253 |

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DRILL HOLE

| HOLE | TYPE OF DATA | REFERENCE CITATION |
|---|---|---|
| UE-25c #1 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| UE-25p #1 | | |
| | Lithologic Unit Depths in Drill Hole | USGS OFR 84-450 |
| | | USGS OFR 86-175 |
| | Transmissivity Data and Pumping Conditions | USGS WRIR 84-4248 |
| | Water Elevations and Depths, Dates of Measurements | USGS OFR 84-450 |
| | | USGS WRIR 84-4197 |
| | | USGS WRIR 84-4248 |
| | Water Chemical Constituent Values for Drill Holes | USGS WRIR 84-4248 |
| UE-29a #1 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS OFR 84-142 |
| | Water Chemical Constituent Values for Drill Holes | USGS OFR 84-142 |
| UE-29a #2 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS OFR 84-142 |
| | Water Chemical Constituent Values for Drill Holes | USGS OFR 84-142 |
| USW G-1 | | |
| | Bulk Density Values and Test Conditions | SAND87-2380 |
| | | SAND88-0811 |
| | | UCLR-53602 |
| | | UCLR-53645 |
| | Saturation Curve-Fit Parameters and Test Conditions | SAND87-2380 |
| | Grain Density Values and Test Conditions | SAND88-0811 |
| | | UCLR-53645 |
| | Hydraulic Conductivity Values and Test Conditions | SAND87-2380 |
| | Lithologic Unit Depths in Drill Hole | USGS OFR 81-1349 |
| | Matrix Potential Data and Test Conditions | SAND87-2380 |
| | Mineralogical Samples and Test Conditions | SAND88-0882 |
| | | USGS BULL-1777 |
| | | USGS OFR 81-1349 |
| | | USGS OFR 84-491 |
| | Porosity Values and Test Conditions | SAND88-0811 |
| | | UCLR-53602 |
| | | UCLR-53645 |
| | Thermal Conductivity Data and Test Conditions | SAND88-0624 |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| USW G-2 | | |
| | Bulk Density Values and Test Conditions | SAND88-0811 |
| | Compressive Strength Data and Test Conditions | SAND85-0703 |
| | Elastic Properties (Poisson's Ratio & Young's Modulus) | SAND85-0703 |
| | Grain Density Values and Test Conditions | SAND88-0811 |
| | Lithologic Unit Depths in Drill Hole | USGS OFR 83-732 |
| | Mineralogical Samples and Test Conditions | SAND88-0882 |
| | | USGS BULL-1777 |
| | | USGS OFR 83-732 |

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DRILL HOLE

| HOLE | TYPE OF DATA | REFERENCE CITATION |
|---|---|---|
| | | USGS OFR 84-491 |
| | Porosity Values and Test Conditions | SAND88-0811 |
| | Thermal Conductivity Data and Test Conditions | SAND88-0624 |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| USW G-3 | | |
| | Bulk Density Values and Test Conditions | USGS OFR 84-552 |
| | Grain Density Values and Test Conditions | USGS OFR 84-552 |
| | Lithologic Unit Depths in Drill Hole | USGS OFR 84-491 |
| | Mineralogical Samples and Test Conditions | USGS OFR 84-491 |
| | Porosity Values and Test Conditions | USGS OFR 84-552 |
| | Laboratory Sonic Velocity Measurements | USGS OFR 84-552 |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| USW G-4 | | |
| | Bulk Density Values and Test Conditions | SAND87-2380 |
| | | SAND88-0811 |
| | | UCLR-53795 |
| | | USGS OFR 84-552 |
| | Saturation Curve-Fit Parameters and Test Conditions | SAND87-2380 |
| | Grain Density Values and Test Conditions | SAND88-0811 |
| | | UCLR-53795 |
| | | USGS OFR 84-552 |
| | Hydraulic Conductivity Values and Test Conditions | SAND87-2380 |
| | Lithologic Unit Depths in Drill Hole | USGS OFR 84-063 |
| | Matrix Potential Data and Test Conditions | SAND87-2380 |
| | Mineralogical Samples and Test Conditions | LA-10927-MS |
| | | SAND88-0882 |
| | | USGS BULL-1777 |
| | | USGS OFR 84-789 |
| | Porosity Values and Test Conditions | SAND88-0811 |
| | | UCLR-53795 |
| | | USGS OFR 84-552 |
| | Laboratory Sonic Velocity Measurements | USGS OFR 84-552 |
| | Thermal Conductivity Data and Test Conditions | SAND88-0624 |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| | Transmissivity Data and Pumping Conditions | USGS WRIR 86-4015 |
| | Well Test Hydraulic Conductivity Measurements | USGS WRIR 86-4015 |
| | Water Elevations and Depths, Dates of Measurements | USGS OFR 84-063 |
| | | USGS WRIR 84-4197 |
| | Water Chemical Constituent Values for Drill Holes | USGS OFR 84-063 |
| | | USGS WRIR 86-4015 |
| USW GU-3 | | |
| | Bulk Density Values and Test Conditions | SAND87-2380 |
| | | SAND88-0811 |
| | | USGS OFR 84-552 |
| | Saturation Curve-Fit Parameters and Test Conditions | SAND87-2380 |
| | Grain Density Values and Test Conditions | SAND88-0811 |
| | | USGS OFR 84-552 |

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DRILL HOLE

| HOLE | TYPE OF DATA | REFERENCE CITATION |
|---|---|---|
| | Hydraulic Conductivity Values and Test Conditions | SAND87-2380 |
| | Lithologic Unit Depths in Drill Hole | USGS OFR 84-491 |
| | Matrix Potential Data and Test Conditions | SAND87-2380 |
| | Mineralogical Samples and Test Conditions | SAND88-0882 |
| | | USGS OFR 84-491 |
| | Paleomagnetic Data and Test Conditions | USGS OFR 85-48 |
| | Porosity Values and Test Conditions | SAND88-0811 |
| | | USGS OFR 84-552 |
| | Laboratory Sonic Velocity Measurements | USGS OFR 84-552 |
| | Thermal Conductivity Data and Test Conditions | SAND88-0624 |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| USW H-1 | | |
| | Bulk Density Values and Test Conditions | USGS WRIR 84-4032 |
| | | USGS WRIR 84-4193 |
| | Grain Density Values and Test Conditions | USGS WRIR 84-4032 |
| | | USGS WRIR 84-4193 |
| | Hydraulic Conductivity Values and Test Conditions | USGS WRIR 84-4032 |
| | Lithologic Unit Depths in Drill Hole | USGS WRIR 84-4032 |
| | Matrix Potential Data and Test Conditions | USGS WRIR 84-4193 |
| | Pore Saturation and Test Conditions | USGS WRIR 84-4032 |
| | Natural-state Porewater Content Percentages | USGS WRIR 84-4032 |
| | Porosity Values and Test Conditions | USGS WRIR 84-4032 |
| | | USGS WRIR 84-4193 |
| | Relative Hydraulic Conductivity & Test Conditions | USGS WRIR 84-4193 |
| | Storage Coefficient Values for Well Tests | USGS WRIR 84-4032 |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| | Transmissivity Data and Pumping Conditions | USGS WRIR 84-4032 |
| | Well Test Hydraulic Conductivity Measurements | USGS WRIR 84-4032 |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4032 |
| | | USGS WRIR 84-4197 |
| | Water Chemical Constituent Values for Drill Holes | USGS WRIR 84-4032 |
| USW H-3 | | |
| | Lithologic Unit Depths in Drill Hole | USGS WRIR 84-4272 |
| | Storage Coefficient Values for Well Tests | USGS WRIR 84-4272 |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| | Transmissivity Data and Pumping Conditions | USGS WRIR 84-4272 |
| | Well Test Hydraulic Conductivity Measurements | USGS WRIR 84-4272 |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| USW H-4 | | |
| | Lithologic Unit Depths in Drill Hole | USGS WRIR 85-4030 |
| | Percent Water Production in Drill Hole Intervals | USGS WRIR 85-4030 |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| | Transmissivity Data and Pumping Conditions | USGS WRIR 85-4030 |
| | Well Test Hydraulic Conductivity Measurements | USGS WRIR 85-4030 |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| | | USGS WRIR 85-4030 |
| | Water Chemical Constituent Values for Drill Holes | USGS WRIR 85-4030 |

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DRILL HOLE

| HOLE | TYPE OF DATA | REFERENCE CITATION |
|---|---|---|
| USW H-5 | | |
| | Lithologic Unit Depths in Drill Hole | USGS OFR 83-853 |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| | Water Elevations and Depths, Dates of Measurements | USGS OFR 83-853 |
| | | USGS WRIR 83-4171 |
| | | USGS WRIR 84-4197 |
| | Water Chemical Constituent Values for Drill Holes | USGS OFR 83-853 |
| USW H-6 | | |
| | Thermal/Mechanical Stratigraphic Units | SAND84-1076 |
| | Water Elevations and Depths, Dates of Measurements | USGS OFR 83-856 |
| | | USGS WRIR 84-4197 |
| | Water Chemical Constituent Values for Drill Holes | USGS OFR 83-856 |
| USW VH-1 | | |
| | Lithologic Unit Depths in Drill Hole | USGS OFR 82-457 |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| | Water Chemical Constituent Values for Drill Holes | USGS WRIR 86-4359 |
| USW VH-2 | | |
| | Lithologic Unit Depths in Drill Hole | USGS OFR 85-475 |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| USW WT-1 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| USW WT-10 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| USW WT-11 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| USW WT-2 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |
| USW WT-7 | | |
| | Water Elevations and Depths, Dates of Measurements | USGS WRIR 84-4197 |

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB FOR NON-CORE SAMPLES

| TYPE OF DATA | REFERENCE CITATION |
|---|---|
| Bulk Density Values and Test Conditions | SAND88-0811 |
| Bulk Modulus Data and Test Conditions | SAND86-1131 |
| Compressive Strength Data and Test Conditions | SAND86-1131 |
| Elastic Properties (Poisson's Ratio & Young's Modulus) | SAND86-1131 |
| Parameters for Measured Floods | USGS WRIR 83-4001 |
| Cross Section Locations for Predicted Floods | USGS WRIR 83-4001 |
| Flood Predictions (100 yr, 500 yr & Regional Maximum) | USGS WRIR 83-4001 |
| Grain Density Values and Test Conditions | SAND88-0811 |
| Mineralogical Samples and Test Conditions | SAND86-1131<br>SAND88-0882<br>USGS OFR 84-491 |
| Paleomagnetic Data and Test Conditions | USGS OFR 85-48 |
| Porosity Values and Test Conditions | SAND88-0811 |
| Water Chemical Values for Springs & Non-Drill Hole Wells | USGS WRIR 84-4267 |

## TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DATA TYPE

(Arranged by Drill Hole and Reference Citation)

Bulk Density Values and Test Conditions:

| | |
|---|---|
| non-core samples | SAND88-0811 |
| J-13 | USGS WRIR 83-4171 |
| UE-25a #1 | SAND88-0811 |
| | USGS OFR 81-1338 |
| UE-25b #1 | USGS WRIR 84-4253 |
| USW G-1 | SAND87-2380 |
| | SAND88-0811 |
| | UCLR-53602 |
| | UCLR-53645 |
| USW G-2 | SAND88-0811 |
| USW G-3 | USGS OFR 84-552 |
| USW G-4 | SAND87-2380 |
| | SAND88-0811 |
| | UCLR-53795 |
| | USGS OFR 84-552 |
| USW GU-3 | SAND87-2380 |
| | SAND88-0811 |
| | USGS OFR 84-552 |
| USW H-1 | USGS WRIR 84-4032 |
| | USGS WRIR 84-4193 |

Bulk Modulus Data and Test Conditions:

| | |
|---|---|
| non-core samples | SAND86-1131 |

Compressive Strength Data and Test Conditions:

| | |
|---|---|
| non-core samples | SAND86-1131 |
| USW G-2 | SAND85-0703 |

Cross Section Locations for Predicted Floods:

| | |
|---|---|
| non-core samples | USGS WRIR 83-4001 |

Elastic Properties (Poisson's Ratio & Young's Modulus):

| | |
|---|---|
| non-core samples | SAND86-1131 |
| USW G-2 | SAND85-0703 |

Flood Predictions (100 yr, 500 yr & Regional Maximum):

| | |
|---|---|
| non-core samples | USGS WRIR 83-4001 |

Grain Density Values and Test Conditions:

| | |
|---|---|
| non-core samples | SAND88-0811 |
| J-13 | USGS WRIR 83-4171 |
| UE-25a #1 | SAND88-0811 |
| | USGS OFR 81-1338 |

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DATA TYPE

(Arranged by Drill Hole and Reference Citation)

| | |
|---|---|
| UE-25b #1 | USGS WRIR 84-4253 |
| USW G-1 | SAND88-0811 |
| | UCLR-53645 |
| USW G-2 | SAND88-0811 |
| USW G-3 | USGS OFR 84-552 |
| USW G-4 | SAND88-0811 |
| | UCLR-53795 |
| | USGS OFR 84-552 |
| USW GU-3 | SAND88-0811 |
| | USGS OFR 84-552 |
| USW H-1 | USGS WRIR 84-4032 |
| | USGS WRIR 84-4193 |

Hydraulic Conductivity Values and Test Conditions:

| | |
|---|---|
| J-13 | USGS WRIR 83-4171 |
| UE-25b #1 | USGS WRIR 84-4253 |
| USW G-1 | SAND87-2380 |
| USW G-4 | SAND87-2380 |
| USW GU-3 | SAND87-2380 |
| USW H-1 | USGS WRIR 84-4032 |

Laboratory Sonic Velocity Measurements:

| | |
|---|---|
| J-13 | USGS WRIR 83-4171 |
| UE-25a #1 | USGS OFR 81-1338 |
| USW G-3 | USGS OFR 84-552 |
| USW G-4 | USGS OFR 84-552 |
| USW GU-3 | USGS OFR 84-552 |

Lithologic Unit Depths in Drill Hole:

| | |
|---|---|
| J-13 | USGS WRIR 83-4171 |
| UE-25b #1 | USGS WRIR 84-4253 |
| UE-25p #1 | USGS OFR 84-450 |
| | USGS OFR 86-175 |
| USW G-1 | USGS OFR 81-1349 |
| USW G-2 | USGS OFR 83-732 |
| USW G-3 | USGS OFR 84-491 |
| USW G-4 | USGS OFR 84-063 |
| USW GU-3 | USGS OFR 84-491 |
| USW H-1 | USGS WRIR 84-4032 |
| USW H-3 | USGS WRIR 84-4272 |
| USW H-4 | USGS WRIR 85-4030 |
| USW H-5 | USGS OFR 83-853 |
| USW VH-1 | USGS OFR 82-457 |
| USW VH-2 | USGS OFR 85-475 |

## TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DATA TYPE

(Arranged by Drill Hole and Reference Citation)

### Matrix Potential Data and Test Conditions:

| | |
|---|---|
| USW G-1 | SAND87-2380 |
| USW G-4 | SAND87-2380 |
| USW GU-3 | SAND87-2380 |
| USW H-1 | USGS WRIR 84-4193 |

### Mineralogical Samples and Test Conditions:

| | |
|---|---|
| non-core samples | SAND86-1131 |
| non-core samples | SAND88-0882 |
| non-core samples | USGS OFR 84-491 |
| UE-25a #1 | SAND88-0882 |
| | USGS OFR 84-491 |
| UE-25b #1 | USGS BULL-1777 |
| USW G-1 | SAND88-0882 |
| | USGS BULL-1777 |
| | USGS OFR 81-1349 |
| | USGS OFR 84-491 |
| USW G-2 | SAND88-0882 |
| | USGS BULL-1777 |
| | USGS OFR 83-732 |
| | USGS OFR 84-491 |
| USW G-3 | USGS OFR 84-491 |
| USW G-4 | LA-10927-MS |
| | SAND88-0882 |
| | USGS BULL-1777 |
| | USGS OFR 84-789 |
| USW GU-3 | SAND88-0882 |
| | USGS OFR 84-491 |

### Natural-state Porewater Content Percentages:

| | |
|---|---|
| J-13 | USGS WRIR 83-4171 |
| UE-25b #1 | USGS OFR 83-855 |
| | USGS WRIR 84-4253 |
| USW H-1 | USGS WRIR 84-4032 |

### Paleomagnetic Data and Test Conditions:

| | |
|---|---|
| non-core samples | USGS OFR 85-48 |
| USW GU-3 | USGS OFR 85-48 |

### Parameters for Measured Floods:

| | |
|---|---|
| non-core samples | USGS WRIR 83-4001 |

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DATA TYPE

(Arranged by Drill Hole and Reference Citation)

Percent Water Production in Drill Hole Intervals:

| | |
|---|---|
| USW H-4 | USGS WRIR 85-4030 |

Pore Saturation and Test Conditions:

| | |
|---|---|
| J-13 | USGS WRIR 83-4171 |
| UE-25b #1 | USGS WRIR 84-4253 |
| USW H-1 | USGS WRIR 84-4032 |

Porosity Values and Test Conditions:

| | |
|---|---|
| non-core samples | SAND88-0811 |
| J-13 | USGS WRIR 83-4171 |
| UE-25a #1 | SAND88-0811 |
| | USGS OFR 81-1338 |
| UE-25b #1 | USGS WRIR 84-4253 |
| USW G-1 | SAND88-0811 |
| | UCLR-53602 |
| | UCLR-53645 |
| USW G-2 | SAND88-0811 |
| USW G-3 | USGS OFR 84-552 |
| USW G-4 | SAND88-0811 |
| | UCLR-53795 |
| | USGS OFR 84-552 |
| USW GU-3 | SAND88-0811 |
| | USGS OFR 84-552 |
| USW H-1 | USGS WRIR 84-4032 |
| | USGS WRIR 84-4193 |

Relative Hydraulic Conductivity & Test Conditions:

| | |
|---|---|
| USW H-1 | USGS WRIR 84-4193 |

Saturation Curve-Fit Parameters and Test Conditions:

| | |
|---|---|
| USW G-1 | SAND87-2380 |
| USW G-4 | SAND87-2380 |
| USW GU-3 | SAND87-2380 |

Storage Coefficient Values for Well Tests:

| | |
|---|---|
| USW H-1 | USGS WRIR 84-4032 |
| USW H-3 | USGS WRIR 84-4272 |

Thermal Conductivity Data and Test Conditions:

| | |
|---|---|
| USW G-1 | SAND88-0624 |
| USW G-2 | SAND88-0624 |
| USW G-4 | SAND88-0624 |
| USW GU-3 | SAND88-0624 |

## TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DATA TYPE

(Arranged by Drill Hole and Reference Citation)

Thermal/Mechanical Stratigraphic Units:

| | |
|---|---|
| UE-25a #1 | SAND84-1076 |
| UE-25a #4 | SAND84-1076 |
| UE-25a #5 | SAND84-1076 |
| UE-25a #6 | SAND84-1076 |
| UE-25a #7 | SAND84-1076 |
| UE-25b #1 | SAND84-1076 |
| USW G-1 | SAND84-1076 |
| USW G-2 | SAND84-1076 |
| USW G-4 | SAND84-1076 |
| USW GU-3 | SAND84-1076 |
| USW H-1 | SAND84-1076 |
| USW H-3 | SAND84-1076 |
| USW H-4 | SAND84-1076 |
| USW H-5 | SAND84-1076 |
| USW H-6 | SAND84-1076 |

Transmissivity Data and Pumping Conditions:

| | |
|---|---|
| J-13 | USGS WRIR 83-4171 |
| UE-25b #1 | USGS WRIR 84-4253 |
| UE-25p #1 | USGS WRIR 84-4248 |
| USW G-4 | USGS WRIR 86-4015 |
| USW H-1 | USGS WRIR 84-4032 |
| USW H-3 | USGS WRIR 84-4272 |
| USW H-4 | USGS WRIR 85-4030 |

Water Chemical Constituent Values for Drill Holes:

| | |
|---|---|
| J-13 | USGS WRIR 83-4171 |
| UE-16d | USGS 1543-3 |
| UE-16f | USGS 1543-3 |
| UE-17a | USGS 1543-4 |
| UE-25b #1 | USGS OFR 83-855 |
| | USGS WRIR 84-4253 |
| UE-25p #1 | USGS WRIR 84-4248 |
| UE-29a #1 | USGS OFR 84-142 |
| UE-29a #2 | USGS OFR 84-142 |
| USW G-4 | USGS OFR 84-063 |
| | USGS WRIR 86-4015 |
| USW H-1 | USGS WRIR 84-4032 |
| USW H-4 | USGS WRIR 85-4030 |
| USW H-5 | USGS OFR 83-853 |
| USW H-6 | USGS OFR 83-856 |
| USW VH-1 | USGS WRIR 86-4359 |

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DATA TYPE

(Arranged by Drill Hole and Reference Citation)

Water Chemical Constituent Values for Spring & Non-Drill Hole Wells:

| | |
|---|---|
| non-core samples | USGS WRIR 84-4267 |

Water Elevations and Depths, Dates of Measurements:

| | |
|---|---|
| J-11 | USGS WRIR 84-4197 |
| J-12 | USGS WRIR 84-4197 |
| J-13 | USGS WRIR 84-4197 |
| UE-16d | USGS 1543-3 |
| UE-16f | USGS 1543-3 |
| UE-25 WT #12 | USGS WRIR 84-4197 |
| UE-25 WT #13 | USGS WRIR 84-4197 |
| UE-25 WT #14 | USGS WRIR 84-4197 |
| UE-25 WT #15 | USGS WRIR 84-4197 |
| UE-25 WT #16 | USGS WRIR 84-4197 |
| UE-25 WT #17 | USGS WRIR 84-4197 |
| UE-25 WT #3 | USGS WRIR 84-4197 |
| UE-25 WT #4 | USGS WRIR 84-4197 |
| UE-25 WT #6 | USGS WRIR 84-4197 |
| UE-25b #1 | USGS WRIR 84-4197 |
| | USGS WRIR 84-4253 |
| UE-25c #1 | USGS WRIR 84-4197 |
| UE-25p #1 | USGS OFR 84-450 |
| | USGS WRIR 84-4197 |
| | USGS WRIR 84-4248 |
| UE-29a #1 | USGS OFR 84-142 |
| UE-29a #2 | USGS OFR 84-142 |
| USW G-1 | USGS WRIR 84-4197 |
| USW G-2 | USGS WRIR 84-4197 |
| USW G-3 | USGS WRIR 84-4197 |
| USW G-4 | USGS OFR 84-063 |
| | USGS WRIR 84-4197 |
| USW H-1 | USGS WRIR 84-4032 |
| | USGS WRIR 84-4197 |
| USW H-3 | USGS WRIR 84-4197 |
| USW H-4 | USGS WRIR 84-4197 |
| | USGS WRIR 85-4030 |
| USW H-5 | USGS OFR 83-853 |
| | USGS WRIR 83-4171 |
| | USGS WRIR 84-4197 |
| USW H-6 | USGS OFR 83-856 |
| | USGS WRIR 84-4197 |
| USW VH-1 | USGS WRIR 84-4197 |
| USW VH-2 | USGS WRIR 84-4197 |
| USW WT-1 | USGS WRIR 84-4197 |
| USW WT-10 | USGS WRIR 84-4197 |
| USW WT-11 | USGS WRIR 84-4197 |
| USW WT-2 | USGS WRIR 84-4197 |
| USW WT-7 | USGS WRIR 84-4197 |

TYPE OF DATA CURRENTLY AVAILABLE IN THE SEPDB ORGANIZED BY DATA TYPE

(Arranged by Drill Hole and Reference Citation)

Well Test Hydraulic Conductivity Measurements:

| | |
|---|---|
| J-13 | USGS WRIR 83-4171 |
| UE-25b #1 | USGS WRIR 84-4253 |
| USW G-4 | USGS WRIR 86-4015 |
| USW H-1 | USGS WRIR 84-4032 |
| USW H-3 | USGS WRIR 84-4272 |
| USW H-4 | USGS WRIR 85-4030 |

LIST OF DRILL HOLES FOR WHICH COORDINATES ARE AVAILABLE IN THE SEPDB

| USW Holes | UE Holes | Seismic Holes | Other Holes |
|---|---|---|---|
| * USW ES-1 | UE-16d | U-25 Seismic #1 | J-11 |
| * USW ES-2 | UE-16f | U-25 Seismic #10 | J-12 |
| USW G-1 | UE-17a | U-25 Seismic #11 | J-13 |
| USW G-2 | * UE-25 G-5 | U-25 Seismic #12 | PS CAROLYN |
| USW G-3 | UE-25 RF #1 | U-25 Seismic #13 | PS SANDY |
| USW G-4 | UE-25 RF #10 | U-25 Seismic #14 | * Test Hole #1 |
| USW GA-1 | UE-25 RF #11 | U-25 Seismic #15 | * Test Hole #10 |
| USW GU-3 | UE-25 RF #2 | U-25 Seismic #16 | * Test Hole #11 |
| * USW GX | UE-25 RF #3 | U-25 Seismic #17 | * Test Hole #12 |
| * USW GY | UE-25 RF #3B | U-25 Seismic #18 | * Test Hole #13 |
| USW H-1 | UE-25 RF #4 | U-25 Seismic #19 | * Test Hole #14 |
| USW H-3 | UE-25 RF #5 | U-25 Seismic #2 | * Test Hole #15 |
| USW H-4 | * UE-25 RF #6 | U-25 Seismic #20 | * Test Hole #2 |
| USW H-5 | UE-25 RF #7 | U-25 Seismic #21 | * Test Hole #3 |
| USW H-6 | UE-25 RF #7A | U-25 Seismic #22 | * Test Hole #4 |
| * USW H-WEST | UE-25 RF #8 | U-25 Seismic #23 | * Test Hole #5 |
| USW SP 5A | UE-25 RF #9 | U-25 Seismic #24 | * Test Hole #6 |
| USW SP 5B | UE-25 TC #1 | U-25 Seismic #3 | * Test Hole #7 |
| USW UZ-1 | UE-25 TC #2 | U-25 Seismic #4 | * Test Hole #8 |
| USW UZ-13 | UE-25 TC #3 | U-25 Seismic #5 | * Test Pit #1 |
| * USW UZ-2 | UE-25 TC #4 | U-25 Seismic #6 | * Test Pit #2 |
| * USW UZ-3 | UE-25 TCi #1 | U-25 Seismic #7 | * Test Pit #3 |
| * USW UZ-4 | UE-25 TCi #2 | U-25 Seismic #8 | * Test Pit #6 |
| * USW UZ-5 | UE-25 TCi #3 | U-25 Seismic #9 | |
| USW UZ-6 | UE-25 TCi #4 | U-26 Seismic #1 | |
| * USW UZ-6a | UE-25 UZ #4 | U-29 Seismic #1 | |
| USW UZ-6s | UE-25 UZ #5 | U-30 Seismic #1 | |
| USW UZ-7 | UE-25 UZN #1 | U-30 Seismic #2 | |
| USW UZ-8 | UE-25 UZN #10 | U-5 Seismic #1 | |
| * USW UZ-N1 | UE-25 UZN #12 | U-5 Seismic #2 | |
| USW UZ-N24 | UE-25 UZN #13 | US-25 Seismic #1 | |
| USW UZ-N25 | UE-25 UZN #14 | US-25 Seismic #10 | |
| USW UZ-N26 | UE-25 UZN #18 | US-25 Seismic #11 | |
| * USW UZ-N3 | UE-25 UZN #19 | US-25 Seismic #12 | |
| USW UZ-N40 | UE-25 UZN #2 | US-25 Seismic #13 | |
| USW UZ-N41 | UE-25 UZN #20 | US-25 Seismic #14 | |
| USW UZ-N42 | UE-25 UZN #21 | US-25 Seismic #15 | |
| USW UZ-N43 | UE-25 UZN #22 | US-25 Seismic #16 | |
| USW UZ-N44 | UE-25 UZN #23 | US-25 Seismic #17 | |
| USW UZ-N45 | UE-25 UZN #28 | US-25 Seismic #18 | |
| USW UZ-N46 | UE-25 UZN #29 | US-25 Seismic #19 | |
| USW UZ-N47 | UE-25 UZN #3 | US-25 Seismic #2 | |
| USW UZ-N48 | UE-25 UZN #30 | US-25 Seismic #20 | |
| USW UZ-N49 | UE-25 UZN #4 | US-25 Seismic #21 | |
| USW UZ-N50 | UE-25 UZN #5 | US-25 Seismic #3 | |
| USW UZ-N51 | UE-25 UZN #56 | US-25 Seismic #4 | |
| USW UZ-N52 | UE-25 UZN #6 | US-25 Seismic #5 | |
| USW UZ-N65 | UE-25 UZN #60 | US-25 Seismic #6 | |
| USW UZ-N66 | UE-25 UZN #7 | US-25 Seismic #7 | |

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* Layout Drill-hole

LIST OF DRILL HOLES FOR WHICH COORDINATES ARE AVAILABLE IN THE SEPDB

| USW Holes | UE Holes | Seismic Holes | Other Holes |
|---|---|---|---|
| USW UZ-N67 | UE-25 UZN #8 | US-25 Seismic #8 | |
| USW UZ-N68 | UE-25 UZN #85 | US-25 Seismic #9 | |
| USW UZ-N69 | UE-25 UZN #9 | | |
| USW UZ-N70 | UE-25 UZN #97 | | |
| USW UZ-N71 | UE-25 UZNC #1 | | |
| USW UZ-N72 | UE-25 UZNC #2 | | |
| USW UZ-N73 | UE-25 WT #12 | | |
| USW UZ-N74 | UE-25 WT #13 | | |
| USW UZ-N75 | UE-25 WT #14 | | |
| USW UZ-N76 | UE-25 WT #15 | | |
| USW UZ-N77 | UE-25 WT #16 | | |
| USW UZ-N78 | UE-25 WT #17 | | |
| USW UZ-N79 | UE-25 WT #18 | | |
| USW UZ-N80 | * UE-25 WT #19 | | |
| USW UZ-N81 | * UE-25 WT #20 | | |
| USW UZ-N82 | UE-25 WT #3 | | |
| USW UZ-N83 | UE-25 WT #4 | | |
| USW UZ-N84 | UE-25 WT #5 | | |
| USW UZ-N86 | UE-25 WT #6 | | |
| USW UZ-N87 | UE-25a #1 | | |
| USW UZ-N88 | * UE-25a #2 | | |
| USW UZ-N89 | UE-25a #3 | | |
| USW UZ-N90 | UE-25a #4 | | |
| USW UZ-N93 | UE-25a #5 | | |
| USW UZ-N94 | UE-25a #6 | | |
| USW UZ-N95 | UE-25a #7 | | |
| USW UZ-N96 | UE-25b #1 | | |
| USW UZ-N98 | * UE-25b #2 | | |
| * USW UZ4N-2 | UE-25c #1 | | |
| * USW UZ4N-4 | UE-25c #2 | | |
| * USW UZ4N-5 | UE-25c #3 | | |
| USW VH-1 | UE-25h #1 | | |
| USW VH-2 | UE-25p #1 | | |
| * USW VH-3 | * UE-25pa #1A | | |
| USW WT-1 | * UE-25pa #1B | | |
| USW WT-10 | UE-29 UZN #91 | | |
| USW WT-11 | UE-29 UZN #92 | | |
| USW WT-2 | UE-29a #1 | | |
| * USW WT-21 | UE-29a #2 | | |
| * USW WT-22 | | | |
| USW WT-7 | | | |
| * USW WT-8 | | | |
| * USW WT-9 | | | |

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* Layout Drill-hole

BOTTOM-HOLE INFORMATION AVAILABLE FOR THE FOLLOWING HOLES

| USW Holes | UE Holes | Seismic Holes | Other Holes |
|---|---|---|---|
| USW G-1 | UE-16d | U-25 Seismic #1 | |
| USW G-2 | UE-16f | U-25 Seismic #10 | |
| USW G-3 | UE-17a | U-25 Seismic #11 | |
| USW G-4 | UE-25 RF #1 | U-25 Seismic #12 | |
| USW GA-1 | UE-25 RF #10 | U-25 Seismic #13 | |
| USW GU-3 | UE-25 RF #11 | U-25 Seismic #14 | |
| USW H-1 | UE-25 RF #2 | U-25 Seismic #15 | |
| USW H-3 | UE-25 RF #3 | U-25 Seismic #16 | |
| USW H-4 | UE-25 RF #3B | U-25 Seismic #17 | |
| USW H-5 | UE-25 RF #4 | U-25 Seismic #18 | |
| USW H-6 | UE-25 RF #5 | U-25 Seismic #19 | |
| USW UZ-1 | UE-25 RF #7 | U-25 Seismic #2 | |
| USW UZ-13 | UE-25 RF #7A | U-25 Seismic #20 | |
| USW UZ-6 | UE-25 RF #8 | U-25 Seismic #21 | |
| USW UZ-6s | UE-25 RF #9 | U-25 Seismic #22 | |
| USW UZ-7 | UE-25 UZ #4 | U-25 Seismic #23 | |
| USW UZ-8 | UE-25 UZ #5 | U-25 Seismic #24 | |
| USW UZ-N24 | UE-25 UZN #1 | U-25 Seismic #3 | |
| USW UZ-N25 | UE-25 UZN #10 | U-25 Seismic #4 | |
| USW UZ-N26 | UE-25 UZN #12 | U-25 Seismic #5 | |
| USW UZ-N40 | UE-25 UZN #13 | U-25 Seismic #6 | |
| USW UZ-N41 | UE-25 UZN #14 | U-25 Seismic #7 | |
| USW UZ-N42 | UE-25 UZN #18 | U-25 Seismic #8 | |
| USW UZ-N43 | UE-25 UZN #19 | U-25 Seismic #9 | |
| USW UZ-N44 | UE-25 UZN #2 | U-26 Seismic #1 | |
| USW UZ-N45 | UE-25 UZN #20 | U-29 Seismic #1 | |
| USW UZ-N46 | UE-25 UZN #21 | U-30 Seismic #1 | |
| USW UZ-N47 | UE-25 UZN #22 | U-30 Seismic #2 | |
| USW UZ-N48 | UE-25 UZN #23 | U-5 Seismic #1 | |
| USW UZ-N49 | UE-25 UZN #28 | U-5 Seismic #2 | |
| USW UZ-N50 | UE-25 UZN #29 | US-25 Seismic #1 | |
| USW UZ-N51 | UE-25 UZN #3 | US-25 Seismic #10 | |
| USW UZ-N52 | UE-25 UZN #30 | US-25 Seismic #11 | |
| USW UZ-N65 | UE-25 UZN #4 | US-25 Seismic #12 | |
| USW UZ-N66 | UE-25 UZN #5 | US-25 Seismic #13 | |
| USW UZ-N67 | UE-25 UZN #56 | US-25 Seismic #14 | |
| USW UZ-N68 | UE-25 UZN #6 | US-25 Seismic #15 | |
| USW UZ-N69 | UE-25 UZN #60 | US-25 Seismic #16 | |
| USW UZ-N70 | UE-25 UZN #7 | US-25 Seismic #17 | |
| USW UZ-N71 | UE-25 UZN #8 | US-25 Seismic #18 | |
| USW UZ-N72 | UE-25 UZN #85 | US-25 Seismic #19 | |
| USW UZ-N73 | UE-25 UZN #9 | US-25 Seismic #2 | |
| USW UZ-N74 | UE-25 UZN #97 | US-25 Seismic #20 | |
| USW UZ-N75 | UE-25 UZNC #1 | US-25 Seismic #21 | |
| USW UZ-N76 | UE-25 UZNC #2 | US-25 Seismic #3 | |
| USW UZ-N77 | UE-25 WT #12 | US-25 Seismic #4 | |
| USW UZ-N78 | UE-25 WT #13 | US-25 Seismic #5 | |
| USW UZ-N79 | UE-25 WT #14 | US-25 Seismic #6 | |
| USW UZ-N80 | UE-25 WT #15 | US-25 Seismic #7 | |
| USW UZ-N81 | UE-25 WT #16 | US-25 Seismic #8 | |
| USW UZ-N82 | UE-25 WT #17 | US-25 Seismic #9 | |

BOTTOM-HOLE INFORMATION AVAILABLE FOR THE FOLLOWING HOLES

| USW Holes | UE Holes | Seismic Holes | Other Holes |
|---|---|---|---|
| USW UZ-N83 | UE-25 WT #18 | | |
| USW UZ-N84 | UE-25 WT #3 | | |
| USW UZ-N86 | UE-25 WT #4 | | |
| USW UZ-N87 | UE-25 WT #5 | | |
| USW UZ-N88 | UE-25 WT #6 | | |
| USW UZ-N89 | UE-25a #1 | | |
| USW UZ-N90 | UE-25a #3 | | |
| USW UZ-N93 | UE-25a #4 | | |
| USW UZ-N94 | UE-25a #5 | | |
| USW UZ-N95 | UE-25a #6 | | |
| USW UZ-N96 | UE-25a #7 | | |
| USW UZ-N98 | UE-25b #1 | | |
| USW VH-1 | UE-25c #1 | | |
| USW VH-2 | UE-25c #2 | | |
| USW WT-1 | UE-25c #3 | | |
| USW WT-10 | UE-25h #1 | | |
| USW WT-11 | UE-25p #1 | | |
| USW WT-2 | UE-29 UZN #91 | | |
| USW WT-7 | UE-29 UZN #92 | | |
| | UE-29a #1 | | |
| | UE-29a #2 | | |

LIST OF DRILL HOLES FOR WHICH CORE INFORMATION IS AVAILABLE IN THE SEPDB

(CORE INTERVALS, PERCENT AND RECOVERY DATA)

| USW Holes | UE Holes | Seismic Holes | Other Holes |
|---|---|---|---|
| USW G-1 | UE-25 RF #1 | | |
| USW G-2 | UE-25 RF #10 | | |
| USW G-3 | UE-25 RF #11 | | |
| USW G-4 | UE-25 RF #2 | | |
| USW GA-1 | UE-25 RF #3 | | |
| USW GU-3 | UE-25 RF #3B | | |
| USW H-1 | UE-25 RF #4 | | |
| USW H-3 | UE-25 RF #5 | | |
| USW H-4 | UE-25 RF #7 | | |
| USW H-5 | UE-25 RF #7A | | |
| USW H-6 | UE-25 RF #8 | | |
| USW UZ-1 | UE-25 RF #9 | | |
| USW UZ-13 | UE-25 UZ #4 | | |
| USW UZ-6 | UE-25 UZ #5 | | |
| USW UZ-6s | UE-25 UZN #1 | | |
| USW UZ-7 | UE-25 UZN #10 | | |
| USW UZ-8 | UE-25 UZN #19 | | |
| USW UZ-N24 | UE-25 UZN #21 | | |
| USW UZ-N25 | UE-25 UZN #22 | | |
| USW UZ-N26 | UE-25 UZN #23 | | |
| USW UZ-N40 | UE-25 UZN #28 | | |
| USW UZ-N41 | UE-25 UZN #29 | | |
| USW UZ-N42 | UE-25 UZN #30 | | |
| USW UZ-N43 | UE-25 UZN #85 | | |
| USW UZ-N44 | UE-25 UZN #97 | | |
| USW UZ-N45 | UE-25 WT #12 | | |
| USW UZ-N46 | UE-25 WT #13 | | |
| USW UZ-N47 | UE-25 WT #14 | | |
| USW UZ-N48 | UE-25 WT #15 | | |
| USW UZ-N49 | UE-25 WT #16 | | |
| USW UZ-N70 | UE-25 WT #18 | | |
| USW UZ-N74 | UE-25 WT #3 | | |
| USW UZ-N75 | UE-25 WT #4 | | |
| USW UZ-N90 | UE-25 WT #6 | | |
| USW UZ-N98 | UE-25a #4 | | |
| USW VH-1 | UE-25a #5 | | |
| USW VH-2 | UE-25a #6 | | |
| USW WT-1 | UE-25a #7 | | |
| USW WT-10 | UE-25b #1 | | |
| USW WT-11 | UE-25c #1 | | |
| USW WT-2 | UE-25c #2 | | |
| USW WT-7 | UE-25c #3 | | |
| | UE-25h #1 | | |
| | UE-25p #1 | | |
| | UE-29 UZN #91 | | |
| | UE-29 UZN #92 | | |
| | UE-29a #1 | | |
| | UE-29a #2 | | |

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NNWSI Hole Histories UE-25 RF #1, UE-25 RF #2, UE-25 RF #3, UE-25 RF #3B, UE-25 RF #4, UE-25 RF #5, UE-25 RF #7, UE-25 RF #7A, UE-25 RF #8, UE-25 RF #9, UE-25 RF #10, UE-25 RF #11, DOE/NV/10322-11

NNWSI Hole Histories UE-29a #1, UE-29a #2, DOE/NV/10322-12

NNWSI Hole History UE-25b #1, DOE/NV/10322-13

NNWSI Hole Histories UE-25c #1, UE-25c #2, UE-25c #3, DOE/NV/10322-14

NNWSI Hole History UE-25h #1, DOE/NV/10322-15

NNWSI Hole History UE-25p #1, DOE/NV/10322-16

NNWSI Hole Histories USW VH-1, USW VH-2, DOE/NV/10322-17

NNWSI Hole Histories USW H-1, USW H-3, USW H-4, USW H-5, USW H-6, DOE/NV/10322-18

NNWSI Hole Histories USW G-1, USW G-2, USW G-3, USW G-4, USW GA-1, USW GU-3, DOE/NV/10322-19

NNWSI Hole Histories USW UZ-1, UE-25 UZ#4, UE-25 UZ #5, USW UZ-6, USW US-6s, USW UZ-7, USW UZ-8, USW UZ-13, DOE/NV/10322-20

NNWSI Hole Histories, Unsaturated Zone - Neutron Holes, 76 Boreholes drilled between May 1984 and February 1986, DOE/NV/10322-21

NNWSI 51 Seismic Hole Histories, DOE/NV/10322-25

NNWSI Hole Histories UE-25a #1, UE-25a #3, UE-25a #4, UE-25a #5, UE-25a #6, UE-25a#7, DOE/NV/10322-9

Appendix A

# DATA NEEDS/EMPHASIS FOR FOLLOWING QUARTER

CALCITE/SILICATE

VOLCANISM

FAULTING

HYDROLOGIC

DATA FORMALLY SUBMITTED TO THE TECHNICAL DATA BASE DURING THE PREVIOUS QUARTER

| Participant | Description of Data | DA Number |
|---|---|---|
| H&N | Soils Data - Borrow Pit Material Evaluation, NTS:TEC:MTL:89-72 | DA0052 |
| LANL | Mineralogy, LA-11497-MS | DA0053 |
| F&S | Drilling and Mining Summary, DOE/NV/10322-24 | DA0054 |
| SNL | Permeability and Porosity, SAND89-2270 | DA0055 |

Appendix B

DATA AUTHORIZATION FORM
YMP SITE & ENGINEERING PROPERTIES DATA BASE (SEPDB)

Send to: SEPDB Data Base Administrator
Technical Projects Division, 6316
Sandia National Laboratories
P. O. Box 5800
Albuquerque, New Mexico 87185 Telephone: (505 or FTS) 846-0304/846-8178

==========

QA Level _____ of data-gathering activity. WBS: _____

Brief description of type of data submitted. _____

_____

_____

Format of document containing submitted data (e.g., magnetic tape, floppy disk, etc.) Please attach any remarks regarding special storage format or data organization that might be required. NOTE: A hardcopy of the submitted data is required.

_____

Number of attached pages containing data: _____

Identification number(s) or Local Record Center (LRC) code(s) on each submitted document:

_____

Is submitted data published? YES NO Published Reference: _____

_____

If submittal includes a modification (additions, corrections, etc.) to a previous submittal indicate the previous Data Authorization number(s). Also indicate which data are to be removed or superceded, the data and information as it should be in the data base, and the reason for such removal (include attachments if necessary).

_____

==========

The name and address of the person making the submittal and the submittal date.

_____ Date: _____

==========

The attached data were collected for the Yucca Mountain Project (YMP), and they are hereby authorized for inclusion in the YMP SEPDB. All appropriate reviews and Quality Assurance requirements have been met.

TPO Signature: _____ Date: _____

Organization: _____

==========

DATA AUTHORIZATION FORM NUMBER: _____ _____ Signature of SEPDB Administrator _____ Date

==========

DAF:2/90

Appendix B

# WORK REQUEST

## YMP SITE & ENGINEERING PROPERTIES DATA BASE (SEPDB)

Send to:
SEPDB Data Base Administrator
Sandia National Laboratories
Technical Projects Division, 6316
P. O. Box 5800
Albuquerque, NM 87185
Telephone: (505 or FTS) 846-0304 or 846-8178

Request Number: _____
Date Received: _____
Product QA Level: _____
Data QA Level: _____

==========

TO BE COMPLETED BY REQUESTOR:

Name: _____ Signature: _____

Organization: _____ Date: _____

Address: _____ Telephone: _____

Work Requested - Attach additional explanations, sketches, and example listing, if appropriate:

Requested Data QA Level: _____

==========

TO BE COMPLETED BY DATA BASE PERSONNEL

Type: Data Entry _____ Product Request _____ Other _____

Accepted By: _____ Date: _____
Assigned To: _____ Date: _____
Verified By: _____ Date: _____
Approved By: _____ Date: _____

Product Numbers, or Accession Numbers:

==========

File - 6310 41/12131/1.4/

Number of attachments: _____

WORK:1/90

Appendix B

# DATA INFORMATION FORM
# FOR SUGGESTED ENTRIES INTO THE
# YMP SITE & ENGINEERING PROPERTIES DATA BASE (SEPDB)

If you are aware of any data generated by Yucca Mountain Project activities that could benefit you, your colleagues, or other YMP participants; please indicate how we might contact someone in order to include that data in the Project data base.

Send to:
SEPDB Data Base Administrator
Technical Projects Division, 6316
Sandia National Laboratories
P. O. Box 5800
Albuquerque, New Mexico 87185 Telephone: (505 or FTS) 846-0304/846-8178

==========

Type of data: _____

_____

Technical Contact: _____

Address: _____

Phone Number: _____

Participant: _____

If suggested data is contained in a report, please give the title, document reference number, and the year published if known.

Title: _____

_____

Reference Number: _____ Date: _____

Reason why this data should be entered: _____

_____

==========

Your name: _____

Address: _____

Phone: _____

==========

DIF:1/90

Appendix C

# REPORT EXAMPLE #1

## REQUESTOR REQUIRED A SPECIFIC OUTPUT FORMAT

SEP0049
Data QA Level: TBD

| Hole or well number | Location North (ft) | Location East (ft) | Hole depth (m) | Land surface altitude (m) | Depth correction (m) | Date measured | Water level (corrected) Interval (m) | Water level (corrected) Depth to water (m) | Water level (corrected) Altitude (m) |
|---|---|---|---|---|---|---|---|---|---|
| UE-25 WT #12 | 739725.9 | 567011.0 | 398.548 | 1074.555 | 0.20 | 10/31/83 | composite | 345.400 | 729.155 |
| UE-25 WT #13 | 756715.0 | 578756.7 | 353.452 | 1031.714 | 0.01 | 10/31/83 | composite | 303.300 | 728.414 |
| UE-25 WT #14 | 761650.6 | 575210.1 | 399.157 | 1075.561 | 0.09 | 11/07/83 | composite | 346.200 | 729.361 |
| UE-25 WT #15 | 766116.6 | 579805.7 | 414.392 | 1082.447 | 0.19 | 12/01/83 | composite | 354.200 | 728.247 |
| UE-25 WT #16 | 774419.7 | 570394.9 | 521.037 | 1210.086 | 0.06 | 12/01/83 | composite | 472.700 | 737.386 |
| UE-25 WT #17 | 748419.6 | 566211.9 | 442.729 | 1123.886 | 0.48 | 11/07/83 | composite | 394.600 | 729.286 |
| UE-25 WT #3 | 745995.1 | 573384.4 | 347.967 | 1029.734 | 0.27 | 10/31/83 | composite | 300.500 | 729.234 |
| UE-25 WT #4 | 768511.8 | 568040.2 | 481.426 | 1168.403 | 0.46 | 11/01/83 | composite | 438.900 | 729.503 |
| UE-25 WT #6 | 780575.8 | 564523.9 | 382.856 | 1313.958 | 0.24 | 10/31/83 | composite | 283.900 | 1030.058 |
| UE-25b #1 | 765243.4 | 566416.4 | 1219.409 | 1200.213 | 0.00 | 06/08/82 | 546.00 - 583.00 | 471.020 | 729.193 |
| UE-25b #1 | 765243.4 | 566416.4 | 1219.409 | 1200.213 | 0.00 | 06/09/82 | 585.00 - 622.00 | 471.030 | 729.183 |
| UE-25b #1 | 765243.4 | 566416.4 | 1219.409 | 1200.213 | 0.00 | 06/09/82 | 848.00 - 884.00 | 471.430 | 728.783 |
| UE-25b #1 | 765243.4 | 566416.4 | 1219.409 | 1200.213 | 0.00 | 06/09/82 | 789.00 - 826.00 | 471.500 | 728.713 |
| UE-25b #1 | 765243.4 | 566416.4 | 1219.409 | 1200.213 | 0.25 | 08/01/83 | 471.00 - 1199.00 | 470.300 | 729.913 |
| UE-25b #1 | 765243.4 | 566416.4 | 1219.409 | 1200.213 | 0.25 | 08/01/83 | 1199.00 - 1220.00 | 472.200 | 728.013 |
| UE-25b #1 | 765243.4 | 566416.4 | 1219.409 | 1200.213 | 0.25 | 12/03/83 | composite | 470.600 | 729.613 |
| UE-25c #1 | 757095.9 | 569680.4 | 914.100 | 1130.041 | 0.06 | 11/07/83 | composite | 400.300 | 729.741 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.00 | 01/03/83 | 99.00 - 913.00 | 383.000 | 730.557 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.00 | 01/17/83 | 99.00 - 1301.00 | 382.000 | 731.557 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.00 | 01/26/83 | 99.00 - 1193.00 | 382.000 | 731.557 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 1180.00 - 1301.00 | 355.000 | 758.557 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 1117.00 - 1301.00 | 360.500 | 753.057 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 1110.00 - 1180.00 | 361.700 | 751.857 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 1044.00 - 1114.00 | 379.400 | 734.157 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 974.00 - 1044.00 | 380.900 | 732.657 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 834.00 - 904.00 | 381.100 | 732.457 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 904.00 - 974.00 | 382.200 | 731.357 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 764.00 - 834.00 | 383.100 | 730.457 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 739.00 - 789.00 | 383.300 | 730.257 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 500.00 - 550.00 | 383.500 | 730.057 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 02/01/83 | 383.00 - 500.00 | 383.900 | 729.657 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.00 | 02/06/83 | 99.00 - 1193.00 | 383.000 | 730.557 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.00 | 02/07/83 | 99.00 - 1193.00 | 382.000 | 731.557 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.00 | 02/11/83 | 99.00 - 1193.00 | 380.800 | 732.757 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1643.00 - 1689.00 | 360.000 | 753.557 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1297.00 - 1308.00 | 362.000 | 751.557 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1297.00 - 1338.00 | 362.300 | 751.257 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1341.00 - 1381.00 | 362.300 | 751.257 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1381.00 - 1420.00 | 362.400 | 751.157 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1463.00 - 1509.00 | 362.400 | 751.157 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1423.00 - 1463.00 | 362.500 | 751.057 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1509.00 - 1585.00 | 362.500 | 751.057 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1597.00 - 1643.00 | 362.700 | 750.857 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1780.00 - 1805.00 | 363.000 | 750.557 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 05/01/83 | 1734.00 - 1780.00 | 363.100 | 750.457 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.00 | 05/07/83 | 1297.00 - 1805.00 | 361.500 | 752.057 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.00 | 05/13/83 | 1297.00 - 1805.00 | 361.000 | 752.557 |
| UE-25p #1 | 756171.2 | 571484.5 | 1804.738 | 1113.557 | 0.02 | 11/07/83 | composite | 364.700 | 748.857 |
| USW G-1 | 770500.2 | 561000.5 | 1828.200 | 1325.018 | 0.67 | 03/23/82 | composite | 571.700 | 753.318 |
| USW G-2 | 778824.2 | 560503.9 | 1830.028 | 1553.482 | 0.16 | 09/17/82 | composite | 524.900 | 1028.582 |
| USW G-3 | 752779.8 | 558483.1 | 1532.946 | 1479.776 | 0.57 | 11/30/83 | composite | 750.300 | 729.476 |
| USW G-4 | 765807.1 | 563081.6 | 915.014 | 1269.654 | 0.00 | 11/22/82 | 12.00 - 915.00 | 538.000 | 731.654 |

REPORT EXAMPLE #2

OUTPUT FROM THE SITE & ENGINEERING PROPERTIES DATABASE
FOR USE IN GEOSTATISTICAL PROGRAM

SEP0053
Data QA Level: TBD

| Drill Hole | East/North Coordinates | | Collar Elevation | Azimuth | Dip | Number of rows in data set |
|---|---|---|---|---|---|---|
| UE-25b #1 | 566416.40 | 765243.40 | 3939.00 | 0.0 | -90.0 | 13 |

| East/North Coordinates | | Sample Elevation | Sample Depth | Average Porosity | Average Dry Bulk Density | Average Hydraulic Conductivity |
|---|---|---|---|---|---|---|
| 566416.40 | 765243.40 | 3198.25 | 740.747 | 11.700 | 2.250 | 0.0000012150 |
| 566416.40 | 765243.40 | 2365.94 | 1573.063 | 26.650 | 1.750 | 0.0001035000 |
| 566416.40 | 765243.40 | 1885.12 | 2053.876 | 24.500 | 1.730 | 0.0000420000 |
| 566416.40 | 765243.40 | 1708.88 | 2230.119 | 11.850 | 2.090 | 0.0000012650 |
| 566416.40 | 765243.40 | 1468.64 | 2470.361 | 23.150 | 2.010 | 0.0005800000 |
| 566416.40 | 765243.40 | 1349.83 | 2589.170 | 21.450 | 2.060 | 0.0000695000 |
| 566416.40 | 765243.40 | 1267.12 | 2671.876 | 22.200 | 2.040 | 0.0000500000 |
| 566416.40 | 765243.40 | 1170.63 | 2768.367 | 22.900 | 2.020 | 0.0000050000 |
| 566416.40 | 765243.40 | 906.76 | 3032.240 | 19.400 | 2.110 | 0.0000305000 |
| 566416.40 | 765243.40 | 825.04 | 3113.962 | 18.550 | 2.140 | 0.0000190000 |
| 566416.40 | 765243.40 | 192.93 | 3746.075 | 14.800 | 2.240 | 0.0003100000 |
| 566416.40 | 765243.40 | 95.78 | 3843.222 | 12.400 | 2.320 | 0.0002250000 |
| 566416.40 | 765243.40 | -5.31 | 3944.308 | 10.850 | 2.420 | 0.0000785000 |

* The elements have been labeled for this example -- they were not included in the actual product.

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If you are interested (or know of other Project participants who would be interested) in being added to the distribution list for the Site & Engineering Properties Database (SEPDB) Quarterly Report, please contact Paula Adams (FTS 846-8178) or Mary Gonzales (FTS 846-0304) or complete and return the following form.

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