LIST OF REQUESTED DATA SETS FROM UNSATURATED-ZONE FIELD TESTS
(Please also include readme files associated with any of the data sets below.)

Alcove 8/Niche 3

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| GS000808312242.005 | Physical properties of borehole samples, 7/5/00 to 7/13/00. |
| GS000808312242.007 | Physical properties of borehole samples, 7/10/00 to 7/19/00. |
| GS010608312242.002 | Small-plot infiltration, 8/28/00 to 12/14/00. |
| GS010608312242.004 | Small-plot seepage, 8/9/00 to 8/21/00. |
| GS020508312242.001 | Trench-fault infiltration, 3/5/01 to 6/1/01. |
| GS020908312242.002 | Trench-fault infiltration, 6/1/01 to 3/26/02. |
| GS030108314224.001 | Geotechnical data for Alcove 8 and Niche 3: Full-periphery map (Drawing OA-46-356). |
| GS030208312242.003 | Trench-fault infiltration, 3/26/02 to 8/20/02. |
| GS030508312242.004 | Photographs during construction of Niche 3, construction water. |
| GS030608312242.005 | Large-plot infiltration, 11/19/02 to 3/24/03. |
| GS031008312242.007 | Large-plot infiltration, 8/20/02 to 11/19/02. |
| GS040308312242.001 | Large-plot infiltration in Alcove 8 using permeameters in Plot 2 and Plot 12 from 3/24/03 to 8/4/03. |
| GS040308312242.002 | Large-plot evaporation-pan data, 9/18/02 to 1/8/04. |
| GS040308312242.004 | Developed daily rates of application for trenches 1-4, 3/6/01 to 5/1/01. |
| GS040608312242.005 | Neutron logging and calibration curves 1997 to 2003. |
| GS040308312242.006 | Trench-fault tensiometer, 2/11/02 to 1/28/03. |
| GS050408312242.002 | Surface infiltration of tracer water in a large plot in Alcove 8 from 3/1/04 to 3/17/04 (Plots 3 thru 9) and 3/1/04, 4/13/04 (Plots 1, 2, 10, 11, and 12). |
| GS050608312242.003 | Surface infiltration in a large plot in Alcove 8, using permeameters from 8/28/03 to 3/1/04. |
| GS050608312242.004 | Surface infiltration of water in a large plot in Alcove 8, from |

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| | 3/17/04 (Plots 3 thru 9) and 4/13/04 (Plots 1, 2, 10, 11, and 12) to 10/18/04. |
| GS050708312242.005 | Large-plot evaporation-pan data, 1/9/04 to 10/18/04. |
| GS050808312242.006 | Temperature, relative humidity, and barometric pressure, 11/12/03 to 10/20/04. |
| GS051008312242.007 | Heat-dissipation probe and temperature in boreholes surrounding large-plot test in Alcove 8, 6/20/01 to 10/19/04. |
| GS051008312242.008 | Heat-dissipation probe and temperature in boreholes near trench of Alcove 8, 2/14/02 to 10/20/04. |
| LB0110A8N3GPRB.001 | Pre-testing ground-penetrating radar-baseline tomography using borehole array. |
| LB0110A8N3LIQR.001 | Preliminary fault-seepage data from borehole injections, 12/6/00 to 6/18/01. |
| LB0204A8N3LIQR.001 | Fault seepage, 6/26/01 to 1/14/02. |
| LB0204NICH3TRC.001 | Fault-infiltration-test tracer sampling for chemistry, 4/01 to 3/02. |
| LB0208UZDSCPLI.002 | Drift-scale calibrated property sets. Lower-infiltration data summary. |
| LB0210AMRU0035.002 | Model validation and parameter uncertainty: Data summary. |
| LB0301A8N3LIQR.001 | Fault seepage, 1/16/02 to 4/15/02. |
| LB0301N3SURDAT.001 | Measurements and elevations used for grid generation. |
| LB0302ALC8AIRK.001 | Air-permeability testing in boreholes around Alcove 8. |
| LB0303A8N3LIQR.001 | Compilation of wetting-front arrival, tracer breakthrough, and seepage-rate data. |
| LB0303A8N3MDLG.001 | Alcove 8 - Niche 3 seepage modeling: Simulations. |
| LB0304NICH3ISO.001 | Isotopes and pH chemistry for seepage water test, 1/17/02 to 1/23/03. |
| LB0306A8N3LIQR.001 | Fault seepage, 9/18/02 to 10/16/02. |
| LB0308A8N3SEEP.001 | Niche 3 Seepage (10/16/02 to 04/02/03). |
| LB0308A8N3TRTM.001 | Seepage travel times in Niche 3 (9/4/02 to 3/29/03). |

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| LB0312A8N3MDLG.001 | Pre-Test Prediction Results for Alcove 8 /Niche 3: Simulations. |
| LB0406ESFNH2OP.001 | Water-potential measurements in 3 niches, 5/9/97 to 1/8/98. |
| LB0507A8N3SEEP.001 | Niche 3 Seepage (03/26/03 to 01/29/04). |
| LB0507A8N3SEEP.002 | Niche 3 Seepage (01/29/04 to 09/22/04). |
| LB0507A8N3SEEP.003 | Niche 3 Seepage (9/22/04 to 1/07/05). |
| LB0602A8N3FTR0.001 | Output data, from ANL-NBS-HS-000056 REV00. |
| MO0002COV00064.000 | Boreholes and niche as built. |
| MO0002GSC00064.000 | Coverage for Niche 3 boreholes, point features. |
| MO0003GSC00103.000 | Niche 3 profile alignment. |
| MO0003COV00096.000 | Coverage for Niche 3 profile alignment. |
| MO0006GSC00241.001 | Alcove 8 profile alignment. |
| MO0007COV00241.000 | Coverage for Alcove 8 profile alignment. |
| MO0008GSC00269.000 | As-built Alcove 8, boreholes # 1-7. |
| MO0008COV00269.000 | Coverage for Alcove 8, boreholes # 1-7. |
| MO0112ECRBCOA8.002 | Construction-water-balance summary. |
| MO0205UCC009IF.001 | Penta-Fluorobenzoic Acid (PFBA) tracer in seepage, 9/27/01 to 3/25/02. |
| MO0205UCC009IF.002 | Bromide tracer in seepage, 9/27/01 to 3/25/02. |
| MO0210UCC035IF.001 | PFBA and bromide tracers in seepage, 4/8/02 to 6/10/02. |
| MO0307UCC035IF.002 | Dyes, PFBA, Br, F, Cl, NO3, and SO4 tracers in seepage samples, 6/20/02 to 2/24/03. |
| MO0307UCC035TJ.001 | Major cations in seepage, 9/24/02 to 2/11/03. |
| MO0310UCC035IF.003 | Precision data set for tracers (dyes and PFBA), 6/20/02 to 2/24/03. |
| MO0506AL8NEU01.000 | Neutron logs of boreholes from Alcove 8, 1/8/04 to 4/1/05. |
| MO0511UCC011JB.002 | Fluoride, Bromide, Iodide, Difluorobenzoic acid (2,6 DFBA), 2,5 Difluorobenzoic acid (2,5 DFBA), and 2,4,5 Trifluorobenzoic acid (2,4,5 TFBA) concentration data for the Alcove 8/Niche 3 tracer |

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| | test for samples collected 10/03 through 12/04. |
| MO0511UCC011TJ.002 | Major cations from water samples from Alcove 8/Niche 3, 8/5/03 to 1/5/05. |
| MO0511UCC011JB.001 | Cations and anions in background samples, 5/04 to 10/04. |

Alcove 6

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| GS970208312231.003 | Physical properties, water content, tension from borehole samples. |
| GS970283122410.002 | Gas and water chemistry for several boreholes. |
| GS980908312242.029 | Physical and hydrological properties from 2 boreholes. |
| LB990901233124.001 | Breakthrough data, seepage data, measurement locations. |
| LB990901233124.002 | Flow, electrical resistance, water injection, intake rate, tension. |
| LB990901233124.004 | Air permeability, cross-hole connectivity, for several niches. |
| MO0312SEPSDBTV.000 | Statistics of type-curve analysis for cross-hole injection testing. |
| MO9901COV98641.000 | ArcView archive of coverage containing point features. |

Alcove 1

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| GS000308312242.002 | Phase 1 of water collection in Alcove 1, from 5/5/98 to 8/27/98. |
| GS000399991221.003 | Preliminary Alcove 1 infiltration experimental data. |
| GS000708312231.008 | Temperature and relative humidity for Alcove 1 surface station 10/13/98 to 12/31/99. |
| GS000708312231.009 | Temperature, relative humidity, and barometric pressure measured in Alcove 1 from 10/13/98 to 12/31/99. |
| GS000808312242.006 | Pulse-flow-meter data for the Alcove 1 infiltration experiment, from 2/19/99 to 6/20/00. |
| GS000808312242.008 | Temperature and relative humidity for Alcove 1 surface station, 1/1/00 to 7/9/00. |
| GS001108312242.009 | Tracer data for the Alcove 1 infiltration experiment, Phase II 5/09/99 to 7/05/00. |
| GS040108312232.001 | Shut-in pressure monitoring data from the radial boreholes in |

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| | Alcove 1, 4/95; and Tritium data from borehole ESF-AL#2-HPF#1, in Alcove 2. |
| GS990108312242.004 | Temperature, relative humidity, and barometric pressure measured in Alcove 1 from 11/20/97 to 12/12/98. |
| GS990108312242.006 | Pulse-flow-meter data for the Alcove 1 infiltration experiment, from 3/8/98 to 12/4/98. |
| GS990908312242.009 | Temperature and relative humidity for surface Alcove 1, 3/98-10/98. |
| MO0005GSC00216.000 | Alcove 1, Profile alignment. |
| MO0006COV00216.000 | Coverage: ESFA1PROFS. |
| MO0109HYMXPROP.000 | Data qualification report: Matrix hydrologic properties and Alcove 1 infiltration-rate data for use on the Yucca Mountain project. |
| MO0312SEPSDAPM.000 | Statistical summaries of air-permeability data by lithostratigraphic and hydrogeologic unit, and for the bow ridge fault. |
| SN0409T0507804.005 | Input permeabilities for the submodel denoted H104. |

<u>ESF Tunnel</u>

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| GS030808312231.004 | Temperature, relative humidity, and wind speed at 5 locations in Tunnel, 8/00 through 7/02. |