

NUCLEAR WASTE CONSULTANTS INC.

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April 27, 1988

009/PM/NWC.027
RS-NMS-85-009
Communication No. 257

U.S. Nuclear Regulatory Commission
Division of Waste Management
Geotechnical Branch
MS-623-SS
Washington, DC 20555

Attention: Mr. Jeff Pohle, Project Officer
Technical Assistance in Hydrogeology - Project B (RS-NMS-85-009)

Re: WWL Cover Letter, NWC Record Inventory, and WWL Data Base Conversion

Dear Mr. Pohle:

Please find enclosed, per your request in letter dated March 30, 1988, a revised cover page for Water, Waste and Land's (WWL) Technical Report #8 which includes the authors names (Attachment A).

Also enclosed are several inventory lists of technical materials in the NWC and DBS files pertaining to the BWIP and SRPO projects, as well as other more general materials. Attachments B and C are the current bibliographies from the NWC/TTI and DBS libraries, respectively. Attachment D is a list of all correspondence to the NRC staff since the beginning of Contract No. RS-NMS-85-009. Attachment E contains contract summary materials on progress to date under the current contract. Please note that these lists do not contain the numerous Quality Assurance (QA) documents nor any of the computerized products (maintained in our QA files). Also omitted from these lists are any work-in-progress products that were terminated in midstream.

For archiving purposes, we recommend that NWC archive these files in our office for a period of twelve months after termination of Contract No. RS-NMS-85-009, after which NWC will either destroy or ship these materials to the NRC at government expense. In finalizing the BWIP and SRPO projects, NWC intends to compile a list of our QA files and submit a summary status report of the terminated work-in-progress materials. In the event that the NRC would like to store these materials, NWC recommends that we ship microfiche copies of the desired information in order to minimize cost to the government.

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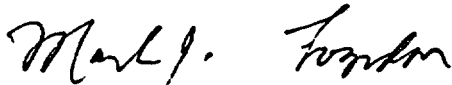
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April 27, 1988

Finally, Attachment F is a copy of the letter provided with the requested diskettes transmitted to Mr. William Ford from WWL on March 31, 1988. These diskettes contained electronic copies of the NNWSI Document Summaries Data Base in a dBaseIII format.

If you have any questions concerning this letter or these listings, please contact me immediately.

Respectfully submitted,
NUCLEAR WASTE CONSULTANTS, INC.



Mark J. Logsdon, Project Manager

Att: Bibliographies and Work Products

cc: US NRC - Director, NMSS (ATTN PSB)
HLWM(ATTN Division Director)
Edna Knox, Contract Administrator
HLTR (ATTN Branch Chief)
D. Chery, HLTR
W. Ford, HLTR

cc: L. Davis, WWL
M. Galloway, TTI

Nuclear Waste Consultants, Inc.

D 102:

w/ltt dtd 4/27/88

To: Jeff Pohlke
From: Mark J. Logsdon

ATTACHMENT A

Technical Report #8
The Use of Environmental Tracers
for the Estimation of Recharge
at Yucca Mountain: A Summary

Submitted to

Nuclear Waste Consultants

Denver, Colorado 80209

and

U.S. Nuclear Regulatory Commission

Washington, D.C. 20555

Prepared by

Thomas L. Sniff, Lyle A. Davis, and David B. McWhorter

Water, Waste and Land, Inc.

Fort Collins, Colorado 80526

February 1988

Contract No.: RS-NMS-85-009

Subtask 1.5

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APRIL 1, 1988

- , , PARTS - TABLES, FIGURES, MAPS FROM DOC. - A.B. FILE 823-2106 (82/11)
- , , ISSUES FOR SIA DEVELOPMENT RE: GROUNDWATER FLOW, A.B. FILE - 823-2106 (82/11)
- , , BOREHOLE INFORMATION AND DATA (84/01)
- , , THIRD QUARTERLY PROGRESS REPORT, PROJECT FIN NO. B8956, STOCHASTIC ANALYSIS OF SOLUTE TRANSPORT IN UNSATURATED SOILS (84/07)
- , , SKAGIT/HANFORD NUCLEAR PROJECT
SITE CHARACTERIZATION REPORT FOR THE BWIP (DRAFT), CHAPTER 13 (82/08)
- , , DRAFT AGENDA FOR JANUARY 12, 1982 MEETING (81/12)
- , , DRAFT SALT EA REFERENCES (84/01)
- , , NEPTUNIUM AND AMERICIUM SPECIATION IN SELECTED BASALT, GRANITE, SHALE, AND TUFF GROUND WATERS (83/07)
- , , CODE OF FEDERAL REGULATIONS
TITLE 10
ENERGY
PARTS 0 TO 199
(2 COPIES) (84/01)
- , , NUCLEAR WASTE POLICY ACT OF 1982
GENERAL GUIDELINES FOR THE RECOMMENDATION OF SITES FOR
THE NUCLEAR WASTE REPOSITORIES
FINAL SITING GUIDELINES PART 3 (84/12)
- , , QA COMMENTS ON BWIP ES DOCUMENTS (85/11)
- , , UNCONFINED AQUIFER MEASUREMENTS FOR THE HANFORD SITE, DECEMBER 1984
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- , , PROPOSED RULES
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VOL. 51, NO. 118
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- , , MICROFICHE: LABORATORY TESTING OF ROCK SAMPLES FOR THE DETERMINATION OF CLAY MINERALOGY FROM THE J. FRIEMEL NO. 1 (PD-6) WELL, PALO DURO BASIN, TEXAS: UNANALYZED DATA (85/06)
- , , MICROFICHE: DIRECT SHEAR TESTING ON ROCK CORE SAMPLES FROM THE ZEECK NO. 1 (PD-7) WELL, PALO DURO BASIN, TEXAS: UNANALYZED DATA (85/04)
- , , PARTS OF 10CFR60 RATIONALE (82/08)

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, , APPENDIX B: STATUTORY ENVIRONMENTAL ASSESSMENT FOR POTENTIAL DEAF SMITH COUNTY
LOCATION, PALO DURO BASIN, TX
GLOSSARY, ACRONYMS, AND BRITISH/METRIC CONVERSION UNITS (84/06)

, , HYDROCOIN: PROGRESS REPORT NO. 4 (86/08)

, , RESOURCES
JUN/87, WINTER/88 (87/06)

, , EXPLORATORY SHAFT PERFORMANCE ANALYSIS STUDY (85/07)

, , DATA COMPILATION: IODINE-129 IN HANFORD GROUNDWATER (87/08)

, , DEPOSITION OF CRETACEOUS AND TERTIARY SEDIMENTS IN THE EASTERN MISSISSIPPI SALT
BASIN (WITH EMPHASIS ON THE RICHTON DOME AREA): TWO VOLUMES (87/08)

, , FOUR COURT OF APPEALS PAPERS - SUITS AGAINST THE EPA (87/08)

ABRAMS, C.S., SODIUM WASTE TECHNOLOGY A SUMMARY REPORT (87/01)

AHN, J., NUCLIDE MIGRATION THROUGH A PLANAR FISSURE WITH MATRIX DIFFUSION (85/04)

AHN, J., RADIONUCLIDE MIGRATION THROUGH FRACTURED ROCK: EFFECTS OF MULTIPLE FRACTURES
AND TWO-MEMBER DECAY CHAINS (85/09)

AHN, J., RADIONUCLIDE DISPERSION FROM MULTIPLE PATCH SOURCES INTO A ROCK FRACTURE
(86/09)

ALLARD, B., "SOLUBILITIES OF ACTINIDES IN NEUTRAL OR BASIC SOLUTIONS," FROM ACTINIDES
IN PERSPECTIVE (82/)

ALLEN, J.C., DECONTAMINATION OF THE WARM AISLES AT THE WEST VALLEY DEMONSTRATION
PROJECT
FINAL TOPICAL REPORT FOR THE PERIOD JANUARY 1985-FEBRUARY 1986 (86/06)

ALLEN, C.C., EXPERIMENTAL STUDIES OF PACKING MATERIAL STABILITY (83/11)

ALLEN, J.C., DECONTAMINATION OF THE EXTRACTION SAMPLE AISLE AT THE WEST VALLEY
DEMONSTRATION PROJECT (86/09)

ALTENHOFEN, M.K., WASTE PACKAGE HEAT-TRANSFER ANALYSIS: MODEL DEVELOPMENT AND
TEMPERATURE ESTIMATES FOR WASTE PACKAGES IN A REPOSITORY LOCATED IN BASALT (81/10)

AMES, L.L., HIGH-TEMPERATURE DETERMINATION OF RADIONUCLIDE DISTRIBUTION COEFFICIENTS
FOR COLUMBIA RIVER BASALTS (80/12)

AMES, L.L., INVESTIGATION OF BASALT-RADIONUCLIDE DISTRIBUTION COEFFICIENTS: FISCAL
YEAR 1980 ANNUAL REPORT (80/12)

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ANDREWS, R.W., TRAVEL PATH/TRAVEL TIME UNCERTAINTIES AT SALT SITES PROPOSED FOR HIGH LEVEL WASTE REPOSITORIES (85/11)

APPS, J., GEOHYDROLOGICAL STUDIES FOR NUCLEAR WASTE ISOLATION AT THE HANFORD RESERVATION, VOLUME I: EXECUTIVE SUMMARY, VOLUME II: FINAL REPORT (79/07)

APPS, J.A., STATUS OF GEOCHEMICAL PROBLEMS RELATING TO THE BURIAL OF HIGH-LEVEL RADIOACTIVE WASTE
(PARTIAL COPY) (82/10)

APTED, M.J., GEOCHEMICAL CHARACTERIZATION OF BASALT/GROUNDWATER INTERACTION FOR A NUCLEAR WASTE REPOSITORY AT THE HANFORD SITE, WASHINGTON (82/10)

APTED, M.J., LABORATORY AND FIELD DATA NEEDS FOR SITE-SPECIFIC REPOSITORY MODELING (83/11)

APTED, M.J., COMPARISON OF THE HYDROTHERMAL STABILITY OF SIMULATED SPENT FUEL AND BOROSILICATE GLASS IN A BASALTIC ENVIRONMENT (82/07)

ARNETT, R.C., RADIONUCLIDE RELEASE SCENARIO SELECTION PROCESS FOR A POSSIBLE REPOSITORY IN BASALT (80/09)

ARNETT, R.C., PASCO BASIN HYDROLOGIC MODELING AND FAR-FIELD RADIONUCLIDE MIGRATION POTENTIAL (2 COPIES) (81/06)

ARNETT, R.C., PRELIMINARY HYDROLOGIC RELEASE SCENARIOS FOR A CANDIDATE REPOSITORY SITE IN THE COLUMBIA RIVER BASALTS (80/11)

ARNETT, R.C., CALCULATION OF GROUNDWATER TRAVEL TIME: A COMPARISON OF SIMPLE, HAND METHODS WITH MORE COMPLEX DETERMINISTIC AND STOCHASTIC METHODS (84/12)

ASME, , QUALITY ASSURANCE PROGRAM REQUIREMENTS FOR NUCLEAR FACILITIES (83/07)

BACA, R.G., PERFORMANCE ASSESSMENT FOR A REPOSITORY IN BASALT: A SUMMARY OF PRELIMINARY RESULTS (82/09)

BACA, R.G., PERFORMANCE ANALYSIS OF A NUCLEAR WASTE REPOSITORY IN A BASALT GEOLOGY (82/11)

BACA, R.G., MODELING FLUID FLOW IN FRACTURED-POROUS ROCK MASSES BY FINITE-ELEMENT TECHNIQUES (83/04)

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- BACA, R.G., COUPLED GEOMECHANICAL/HYDROLOGICAL MODELING: AN OVERVIEW OF BASALT WASTE ISOLATION PROJECT STUDIES (81/01)
- BACA, R.G., ANALYSIS OF FRACTURE FLOW AND TRANSPORT IN THE NEAR-FIELD OF A NUCLEAR WASTE REPOSITORY (81/01)
- BACHMAN, G.O., KARST IN EVAPORITES IN SOUTHEASTERN NEW MEXICO (87/09)
- BAILEY, C.E., PARAMETRIC STUDY OF GEOHYDROLOGIC PERFORMANCE CHARACTERISTICS FOR GEOLOGIC WASTE REPOSITORIES (80/11)
- BAIR, E.S., HYDROGEOLOGIC INVESTIGATIONS BASED ON DRILL-STEM TEST DATA: PALO DURO BASIN AREA, TEXAS AND NEW MEXICO (85/02)
- BAKER, R.S., DEVELOPMENT OF A CERAMIC-BASED WASTE FORM TO IMMOBILIZE ICPP HLW (86/09)
- BAKER, S.M., A PRELIMINARY ASSESSMENT OF WATER INFLOW INTO PROPOSED EXCAVATIONS IN THE COHASSETT FLOW INTERIOR (85/05)
- BALON, J.E., ERG REVIEW OF SALT CONSTITUTIVE LAW, SALT STRESS DETERMINATIONS, AND SALT CORROSION AND MODELING STUDIES (86/03)
- BARNES, S.M., REFERENCE VITRIFICATION PROCESS AND EQUIPMENT DESCRIPTION WITH RESULTS FROM CHECKOUT TESTING (86/11)
- BARNEY, G.S., RADIONUCLIDE SORPTION AND DESORPTION MECHANISMS IN INTERBED-GROUNDWATER SYSTEMS OF THE COLUMBIA RIVER BASALTS (82/10)
- BARNEY, G.S., IDENTIFICATION OF KEY RADIONUCLIDES IN A NUCLEAR WASTE REPOSITORY IN BASALT (80/05)
- BARNEY, G.S., RADIONUCLIDE REACTIONS WITH GROUNDWATER AND BASALTS FROM COLUMBIA RIVER BASALTS (81/06)
- BARNEY, G.S., RADIONUCLIDE SORPTION KINETICS AND COLUMN SORPTION STUDIES WITH COLUMBIA RIVER BASALTS (83/09)
- BASAN, F., THE TUFF REACTION VESSEL EXPERIMENT (86/06)
- BATES (ED.), J.K., SCIENTIFIC BASIS FOR NUCLEAR WASTE MANAGEMENT X - VOL. 84 (87/)
- BECHTEL--SF, CA., PARADOX AREA CHARACTERIZATION SUMMARY AND LOCATION RECOMMENDATION REPORT (82/08)
- BELA, J., ANNOTATED BIBLIOGRAPHY OF THE GEOLOGY OF THE COLUMBIA PLATEAU (COLUMBIA RIVER BASALT) AND ADJACENT AREAS OF OREGON (79/01)

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BELL, P., SCIENTIFIC TIMESHARING COURSE T5
INTRODUCTION TO THE CDC CYBER-176 COMPUTER SYSTEM AT THE IDAHO NATIONAL ENGINEERING LAB
PARTS ONE AND TWO (85/09)

BENSON, L.V., BASALT ALTERATION AND BASALT-WASTE INTERACTION IN THE PASCO BASIN OF WASHINGTON STATE (78/09)

BENSON, L.V., "DIAGENESIS OF BASALTS FROM THE PASCO BASIN, WASHINGTON - I.
DISTRIBUTION AND COMPOSITION OF SECONDARY MINERAL PHASES" (82/06)

BENTLEY, R.D., STRATIGRAPHY OF THE YAKIMA BASALTS AND STRUCTURAL EVOLUTION OF THE YAKIMA RIDGES IN THE WESTERN COLUMBIA PLATEAU (76/01)

BERAUN, R., THERMAL ANALYSIS OF THE WIPP IN SITU ROOM A1 DHLW PACKAGE EXPERIMENTS (87/05)

BERGSTROM, K.A., PRELIMINARY INTERPRETATION OF THE TECTONIC STABILITY OF THE REFERENCE REPOSITORY LOCATION, COLD CREEK SYNCLINE, HANFORD SITE (83/03)

BERNREUTER, D.L., SEISMIC HAZARD CHARACTERIZATION OF THE EASTERN UNITED STATES: METHODOLOGY AND PRELIMINARY RESULTS FOR TEN SITES (PRELIMINARY) (84/02)

BERRETH, J.R., INVENTORIES AND PROPERTIES OF ICPP CALCINED HIGH-LEVEL WASTE (88/02)

BETANCOURT, J.L., PRELIMINARY ASSESSMENT OF LATE QUATERNARY VEGETATION AND CLIMATE OF SOUTHEASTERN UTAH BASED ON ANALYSES OF PACKRAT MIDDENS (85/06)

BETCHER, R.N., HYDROGEOLOGICAL RESEARCH FOR THE CANADIAN NUCLEAR FUEL WASTE MANAGEMENT PROGRAM (82/05)

BIERSCHENK, W.H., AQUIFER CHARACTERISTICS AND GROUND-WATER MOVEMENT AT HANFORD (59/06)

BIGGAR, N., QUATERNARY STUDIES IN THE PARADOX BASIN, SOUTHEASTERN UTAH (87/07)

BINNALL, E.P., CRITICAL PARAMETERS FOR A HIGH-LEVEL WASTE REPOSITORY VOLUME 2: TUFF DRAFT (86/02)

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BISH, D.L., MINERALOGY OF DRILL HOLES J-13, UE-25A#1, AND USW G-1 AT YUCCA MOUNTAIN, NEVADA (86/09)

BJORNSTAD, B.N., SEDIMENTOLOGY AND DEPOSITIONAL ENVIRONMENT OF THE TOUCHET BEDS, WALLA WALLA RIVER BASIN, WASHINGTON (80/06)

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BLACIC, J.D., EFFECTS OF LONG-TERM EXPOSURE OF TUFFS TO HIGH-LEVEL NUCLEAR WASTE REPOSITORY CONDITIONS: FINAL REPORT (86/08)

BLACK, R.F., CLASTIC DIKES OF THE PASCO BASIN, SOUTHEASTERN WASHINGTON (79/01)

BLANKENNAGEL, R.K., HYDRAULIC TESTING TECHNIQUES OF DEEP DRILL HOLES AT PAHUTE MESA NEVADA TEST SITE (67/)

BMI, , PREFERRED USAGE GUIDE
NWTs-RELATED WORDS AND ABBREVIATIONS (83/01)

BMI/ONWI, , SALT REPOSITORY PROJECT TECHNICAL PROGRESS REPORT FOR THE QUARTER 1 APRIL - 30 JUNE, 1985 (85/06)

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BONANO, E.J., TREATMENT OF UNCERTAINTIES IN THE PERFORMANCE ASSESSMENT OF GEOLOGIC HIGH-LEVEL RADIOACTIVE WASTE REPOSITORIES (87/)

BONDIETTI, E.A., "GEOLOGIC MIGRATION POTENTIALS OF TECHNETIUM-99 AND NEPTUNIUM-237" (79/03)

BOORE, W.G., RADIOACTIVE WASTE SPILL AND CLEANUP ON STORAGE TANK AT THE SAVANNAH RIVER PLANT (86/03)

BORISCH, R.R., SUPERNATANT TREATMENT OF THE FINAL DECONTAMINATION METHOD FOR THE SUPERNATANT TREATMENT SYSTEM (87/02)

BOWER, D.R., TIDAL OBSERVATIONS IN PIEZOMETERS AT THE SITE OF CANADA'S UNDERGROUND RESERCH LABORATORY (86/11)

BRAITHWAITE, J.W., THE POTENTIAL EFFECT OF WATER INFLUX ON THE DISSOLUTION RATE OF UO₂ IN SPENT FUEL AT THE YUCCA MOUNTAIN, NEVADA SITE (2 COPIES) (85/12)

BRAS, R.L., A GEOSTATISTICAL APPROACH TO GROUND-WATER TRAVEL TIME CALCULATIONS, OVERHEAD SLIDES (87/)

BRIDENBAKER, W.A., DECONTAMINATION OF THE SCRAP REMOVAL ROOM AT THE WEST VALLEY DEMONSTRATION PLANT (87/02)

BROOKINS, D.G., RETENTION OF TRANSURANIC AND ACTINIDE ELEMENTS AND BISMUTH AT THE OKLO NATURAL REACTOR, GABON: APPLICATION OF Eh/pH DIAGRAMS (78/)

BROOKINS, D.G., Eh/pH DIAGRAMS FOR ELEMENTS FROM Z=40 TO Z=52: APPLICATION TO THE OKLO NATURAL RECTOR, GABON (78/)

BROOKS, D.J., VISIT TO THE BASALT WASTE ISOLATION PROJECT (BWIP) HANFORD, WASHINGTON (2 COPIES) (81/11)

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BROWN, A., MEMORANDUM TO NRC RE: SCENARIOS FOR GROUNDWATER FLOW MODELING AT BWIP
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AND SOUTHERN PARTS OF THE PASCO BASIN (79/09)

BROWN, R.E., THE SURFACE OF THE BASALT SERIES IN THE PASCO BASIN, WASHINGTON (59/04)

BROWN, R.E., DESIRABLE NEW GEOLOGIC RESEARCH IN SUPPORT OF RADIOACTIVE WASTE DISPOSAL
AS INDICATED BY HANFORD EXPERIENCE (59/)

BROWN, R.E., REPORTED FAULTING IN THE PASCO BASIN (68/03)

BROWN, R.E., SOME SUGGESTED RATES OF DEFORMATION OF THE BASALTS IN THE PASCO BASIN,
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BROWN, A., ONWI DATA TRIP
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ATTACHMENT C

CORRESPONDANCE TO NUCLEAR REGULATORY COMMISSION

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4	Nov 25 85	Resume Information	
5	Dec 9 85	Voucher - Nov, 1985	
6	Dec 9 85	Monthly Progress Report - Nov 1985	
7	Dec 13 85	GWTT and DZ Reviews	
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9	Dec 20 85	Trip Report - Richland WA	
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18	Jan 28 86	NNWSI Trip Report	
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20	Jan 31 86	Terra Therma Site Familiarization	
21	Jan 31 86	Exploratory Shaft Test Plan Doc. Rev.	
22	Feb 5 86	NNWSI Issues Hierarchy Review	
23	Feb 11 86	Vaucher Jan, 1986	
24	Feb 11 86	Monthly Progress Report - Jan, 1986	
25	Feb 13 86	Trip Rpt. - NWC Team Meetings Jan., 1986	
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27	Feb 21 86	BWIP Site Familiarization - Microfiche DMB	
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29	Mar 3 86	Contract Modification No. Two	
30	Mar 3 86	BWIP 2.2 Report	
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33	Mar 7 86	Voucher No. 5 - Feb	
34	Mar 10 86	WWL Data Inventory and Management Rpt., 3.	
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37	Mar 13 86	Monthly Progress Report - Feb., 1986	
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52	Apr 30 86	BWIP Conceptual Model Evaluation Report	
53	May 2 86	SALT Data Inventory and Mgmt. Rpt - Subtas	
54	Apr 30 86	DWM - 1.4 Report - Microfiche	
55	Apr 30 86	DTIDC - 1.4 Report - Microfiche	
56	May 9 86	Voucher No. 7 - Apr, 1986	
57	May 12 86	Monthly Progress Report - April, 1986	
58	May 19 86	DWM - 2.4 and 3.2 Reports - Microfiche	
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65	Jun 13 86	GWTT Review	
66	Jun 16 86	Review of EPA Standards	
67	Jun 26 86	GWTT Corrections	
68	Jun 18 86	NNWSI 1.5 Report	
69	Jul 1 86	INEL Request for forms	
70	Jul 8 86	WWL Reviews	
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72	Jul 14 86	Monthly Progress Report - June, 1986	
73	Jul 11 86	Yeh/Stephens Review of NUREG/CR3964	
74	Jul 15 86	Trip Report - Hydrogeology of Sedimentary	
75	Jul 15 86	Comments on Salt Final Environmental Asses	
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77	Jul 21 86	Comments on BWIP Final Environmental Asses	
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79	Jul 30 86	DWM 3.4 Report Distribution - Microfiche	
80	Jul 30 86	DTIDC - 1.5, 3.4 Rpt. Distribution - Micro	
81	Jul 23 86	Quality Assurance Final Manual	
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83	Aug 12 86	July, 1986 Inv. - Voucher No. 10	
84	Aug 12 86	Monthly Progress Report - July, 1986	
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87	Aug 15 86	Comments on Proposed Rev. to 10 CFR Part 6	
88	Aug 18 86	Salt Site Numerical 3.5 Report No. 1	
89	Aug 18 86	2nd International Conference - Manitoba	
90	Aug 20 86	Yeh Citations for Comm. No. 73 Review Doc.	
91	Aug 26 86	List of Data Topics for BWIP Data Rev-Sub	
92	Aug 27 86	Summary of FY86 Activities	
93	Sep 3 86	BWIP Data Inventory.....Update 2.2 - TTI -	
94	Sep 12 86	August, 1986 Invoice	
95	Sep 12 86	Trip Report - Theory and Use of SWIFT II C	009/N.5/.002
96	Sep 15 86	Monthly Progress Report - August, 1986	
97	Sep 18 86	Weber - Database Lists	009/2.2/TTI.003
98	Sep 23 86	Cost - Accrual Memo/Lts. 009/PM/Contract	009/PM/Contract

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COM#	DATE	COMMENTS	ID #
99	Oct 3 86	Williams and Associates Reviews	009/Task5/NWC.007
100	Oct 6 86	INEL User Registration	009/NWC/PM/INEL
101	Oct 9 86	September, 1986 Invoice	009/INV/SEPT '86
102	Oct 14 86	Monthly Progress Report - September, 1986	
103	Oct 13 86	DWM - Docket Control Ctr.	
104	Oct 13 86	DTI - Microfiche	
105	Oct 14 86	Semi-Annual Update of NNWSI Con. Model Rpt	009/1.4/WWL.002
106	Oct 29 86	Salt Data Inventory and Mgmt. Rpt. Update	009/3.2/DBS.002
107	Oct 31 86	BWIP Shaft Flow Review - TTI 2.3	009/2.3/TTI.008
108	Oct 31 86	Semi-Annual Update of BWIP Conceptual Mode	009/2.4/TTI.002
109	Oct 31 86	WWL Doc. Review of Sinnock et al., 1986	009/1.3/WWL.006
110	Nov 13 86	October, 1986 Invoice	009/INV/Oct 86
111	Nov 19 86	Trip Rpt. on Uncertainty in Hydrogeologic	009/N.5/.003
112	Nov 19 86	Trip Report - BWIP Hydrology	009/2.3/TTI.009
113	Nov 14 86	Monthly Progress Report - October, 1986	
114	Nov 17 86	DWM - DCC Microfiche - 2.4.2, 3.2.2, 1.4.2	
115	Nov 17 86	DTI -Microfiche	
116	Nov 18 86	NEW/W&A Progress Report	009/Task 5/NWC.00
117	Nov 18 86	DBS Semi-Annual Update of Salt Conceptual	009/3.4/DBS.002
118	Dec 10 86	GWIT Review Extention	009/2.3/TTI.010
119	Dec 10 86	November, 1986 Invoice	009/INV/Nov 86
120	Dec 12 86	Monthly Progress Report - November, 1986	
121	Dec 22 86	TTI Trip Report	009/2.3/TTI.011
122	Dec 29 86	NNWSI 1.5 - Mini - Reports (3)	009/1.5/WWL.002
123	Dec 30 86	Micro - DCC Salt 3.4 No. 2	
124	Dec 30 86	NNWSI 1.2 No. 2	
125	Dec 29 86	Topical Reports on Uncertainty	009/Task/NWC.009
126	Jan 8 87	Semi-Annual Update of BWIP Numerical Evalu	009/2.5/TTI.002
127	Jan 12 87	December, 1986 Invoice	009/INV.15/Dec 86
128	Jan 14 86	Monthly Progress Report - December, 1986	009/PM/Monthly .0
129	Jan 15 87	NWC Re-Review of Clifton's BWIP GWTT Analy	009/2.3/NWC .002
130	Jan 23 87	Merkhofer Letter GWTT	009/2.3/NWC .003
131	Jan 30 87	DWM - DCC Microfiche 1.5.2, 2.5.2	
132	Jan 30 87	DTIDC - DMB Microfiche 1.5.2, 2.5.2	
133	Feb 5 87	Trip Report	009/2.3/NWC .004
134	Feb 5 87	Waste Management 1987 Request	009/1.3/WWL .007
135	Feb 5 87	SALT - 3.5 Update	009/3.5/DBS.002
136	Feb 5 87	NNWSI Data Management Update	009/1.2/WWL.003
137	Feb 10 87	January, 1987 Invoice	009/INV.16/Jan 87
138	Feb 12 86	Monthly Progress Report - January, 1987	009/PM/Monthly.01
139	Mar 11 87	February, 1987 Invoice	009/INV.17/Feb 87
140	Mar 9 87	Monthly Progress Report - February, 1987	009/PM/Monthly.01
141	Mar 11 87	BWIP Data Update 2.2	009/2.2/TTI.003
142	Mar 20 87	March, 1987 Cover Letter	009/1.3/WWL.008
143	Mar 25 87	PM Trip Report	009/PM/NWL.006
144	Mar 25 87	Document Review of Groundwater Drawdown	009/2.3/TTI.012
145	Apr 7 87	Conversation Records	009/PM/NRC.007
146	Apr 8 87	Wiggins - Overdue Invoices	009/PM/NWC.008
147	Apr 15 87	Trip Report No. 6	009/2.3/NWC.005

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COM#	DATE	COMMENTS	ID #
148	Apr 12 86	March, 1987 Invoice	009/INV.18/Mar 87
149	Apr 14 87	Monthly Progress Report - March, 1987	
150	Apr 13 87	DWM - Docket Control Center 1.2.3.,2.2.3,3	
151	Apr 13 87	DTI - Report Distribution	
152	Apr 15 87	WWL CM Update No. 3	009/1.4/WWL.003
153	Apr 25 87	GWT Library Holdings	009/PM/NWC.009
154	May 4 87	SALT Data Mgmt Update 3	009/3.2/DBS.003
155	May 13 87	TTI - BWIP CM Update 3	009/2.4/TTI.003
156	May 4 87	Cover to Puhle	009/PM/NWC.010
157	May 8 87	DBS/TTU Short Course Req.	009/PM/NWC.011
158	May 11 87	April, 1987 Invoice	009/INV/Apr 87
159	May 14 87	Monthly Progress Report - April, 1987	009/PM/Monthly.01
160	May 15 87	Conv. Record W/J. Hope WSIPP	009/PM/NWC.012
161	May 21 87	DWM - Docket Control Micro. 1.4.3,2.4.3.,3	
162	May 21 87	DTI Microfiche	
163	Jun 12 87	DBS - SALT CM Update 3	009/3.4/DBS.003
164	Jun 12 87	Letters For Verma (NRC) on Vert. L.	009/2.3/TTI.013
165	Jun 12 87	TTI - BWIP Num. Eval. Update 3	009/2.5/TTI.003
166	Jun 12 87	May, 1987 Invoice	009/INV.20/May 87
167	Jun 15 87	Monthly Progress Report - May, 1987	009/PM/Monthly.02
168	Jun 19 87	Short Course - Reminder	009/PM/NWC.013
169	Jun 19 87	QA Cover Letter	009/PM/NW.014
170	Jun 19 87	Corr. to May, 1987 Invoice	009/INV/May 87
171	Jun 24 87	TTI - TDS's	009/2.5/TTI.004
172	Jun 24 87	SALT TD Summaries 3.5	009/3.5/DBS.003
173	Jun 24 87	NNWSI Tech. Des. Summaries 1.5	009/1.5/WWL.004
174	Jun 24 87	WWL - Tech. Rpt. 08	009/1.5/WWL.004
175	Jun 24 87	DBS - Tech. Rpts. 9,10	009/3.5/DBS.004
176	Jul 8 87	June, 1987 Invoice	009/INV.21/June 8
177	Jul 9 87	Monthly Progress Rpt. - June, 87	009/PM/Monthly.02
178	Jul 9 87	WWL - Trip Report	009/1.5/WWL.005
179	Jul 10 87	BWIP Doc. Rev. (was not sent see #185)	009/2.3/NWC.006
180	Jul 10 87	DWM - DCC 2.5, 3.4	
181	Jul 10 87	DTI -DMB 2.5, 3.4	
182	Jul 12 87	Document Request	009/2.3/NWC.007
183	Jul 21 87	DWM - DCC 3.5.3, 1.5.3	
184	Jul 21 87	DTI - DMB 3.5.3, 1.5.3	
185	Jul 22 87	BWIP Document Review PD-017	009/2.3/NWC.008
186	Jul 22 87	Task 5 - DBS Proposal to Code11	009/PM/NRC.015
187	Jul 22 87	GWT Trip Report	009//5/NWC.008
188	Aug 11 87	Trip Reports for TRAFRAP	009/PM/NWC.016
189	Aug 11 87	DBS's TDS 19-21	009/3.5/DBS.005
190	Aug 11 87	DBS 3.5 Update	009/3.5/DBS.006
191	Aug 11 87	WWL 1.2 Update	009/1.2/WWL.004
192	Aug 11 87	July 1987 Invoice	009/INV.22/Jul 87
193	Aug 14 87	Monthly Progress Rpt. July, 1987	009/PM/Monthly.02
194	Sep 1 87	WWL Document Review	009/1.3/WWL.009
195	Sep 3 87	NWC Qualifications	009/PM/NWC.017
196	Sep 9 87	TTI 2.2 Update Report	009/2.2/TTI.004

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COM#	DATE	COMMENTS	ID #
197	Sep 11 87	August, 1987 Invoice	009/INV.23/Aug 87
198	Sep 14 87	Monthly Progress Rpt. August, 1987	009/PM/Monthly.02
199	Sep 14 87	DWM - DCC 3.5, 1.2	
200	Sep 14 87	DTI - DMB 3.5, 1.2	
201	Sep 25 87	DBS 3.2 Update Report	009/3.2/DBS.004
202	Sep 25 87	Meeting of Sandia Staff on Hydrocoin	009/PM/NWC.018
203	Oct 13 87	September Invoice	009/INV.24/Sept 8
204	Oct 14 87	Monthly Report Septmeber	009/PM/Montly.024
205	Oct 14 87	Shaft Sinking Ltr/Rpt/Article to Pohle	009/2.3/NWC.009
206	Oct 14 87	WWL 1.4 Update	009/1.4/WWL.004
207	Oct 19 87	NWC/DBS Codeillo Modeling	009/5/NRC.009
208	Oct 22 87	Trip Report - SCP Briefing	009/PM/NWC,.019
209	Oct 23 87	QA Update	009/PM/QA.003
210	Oct 23 87	Summary of FY87 Activities	009/PM/NWC.020
211	Oct 23 87	GW Project	009/5/NRC.010
212	Oct 23 87	Address Change - Pohle	009/PM/NWC.021
213	Oct 23 87	Address Change - Little	009/PM/NWC.021
214	Oct 23 87	Address Change - Wiggins	009/PM/NWC.021
215	Oct 23 87	Address Change - Gov/Com Accts (Inv.)	009/PM/NWC.021
216	Oct 23 87	Address Change - C. Berry, Cashier	009/PM/NWC.021
217	Nov 2 87	WWL TR#7 - Recharge	009/1.5/WWL.006
218	Nov 6 87	DBS Conceptual Model Report #4	009/3.4/DBS.004
219	Nov 6 87	DBS TBEG Core Workshop - Trip Rpt.	009/3.3/dbs.004
220	Nov 11 87	October, 1987 Invoice	009/Inv.25/Oct 87
221	Nov 12 87	Oct, 87 Monthly Rpt.	009/PM/Monthly.02
222	Nov 13 87	BWIP 2.4 Update	009/2.4/TTI.004
223	Nov 16 87	DWM - DCC	
224	Nov 16 87	DMB	
225	Nov 17 87	Voucher Change 40.19/7.10	009/PM/NWC.022
226	Nov 18 87	2.3 Sandia Doc. Rev.	009/2.3/NWC.010
227	Nov 23 87	2.5 Reprioritization of TR's	009/2.5/TTI.005
228	Nov 30 87	Fixed Fee Balance Due	009/PM/NWC.023
229	Dec 8 87	November, 87 Invoice	009/Inv.26/Nov.87
230	Dec 14 87	NNWSI Staff Letter	009/1.3/WWL.010
231	Dec 15 87	Nov, 87 Monthly Report	009/PM/Monthly.02
332	Dec 21 87	Trip Report - Sandia - Addendum	009/3.3/DBS.005
233	Dec 31 87	NNWSI Weather - Doc Rev.	009/1.3/WWL.011
234	Dec 3 87	DBS - Spec. Sources	009/3.3/dbs.006
235	Dec 3 87	Levels for Rpts	009/PM/NWC.024
236	Jan 1 88	DBS 3.5 Update	009/3.5/DBS.007
237	Jan 13 88	Dec, 1987 Invoice	009/Inv.27/Dec.87
238	Jan 17 88	Dec, 1987 Monthly Report	009/PM/Monthly.27
239	Feb 11 88	Jan, 1988 Invoice	009/Inv.28/Jan.88
240	Feb 12 88	NWC/WWL1.6 Comments	009/1.6/NWC-WWL.0
241	Feb 16 88	Jan, 1988 Monthly Report	009/PM/Monthly 28
242	Mar 7 88	1988 Extension Prop.	009/PM/NWC.025
243	Mar 8 88	WWL 1.2 Update 5	009/1.2/WWL.005
244	Mar 8 88	WWL 1.6 Follow	009/1.6/WWL.002
245	Mar 8 88	WWL 1.5 TR8	009/1.6/WWL.007

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COM# DATE COMMENTS

ID #

246 Mar 15 88 Feb, 1988 Invoice

009/Inv.29/Feb 88

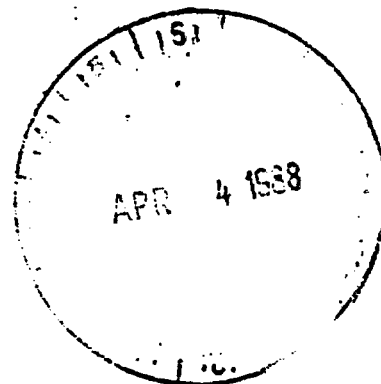
247 Mar 16 88 Feb, 1988 Monthly Report

009/PM/Monthly.28

ATTACHMENT D



Water, Waste & Land, Inc.
CONSULTING ENGINEERS & SCIENTISTS



March 31, 1988

Mr. William Ford
Hydrology Section, Technical Review Branch
Division of High-Level Waste Management
U.S. Nuclear Regulatory Commission
Mail Stop 4H3
Washington, D.C. 20555

Dear Bill:

Per instructions in a letter from Jeff Pohle to Mark Logsdon dated March 15, 1988, we have completed the conversion of the NNWSI Document Summaries Data Base from Knowledgeman (KMAN) format to dBaseIII format. Enclosed are diskettes which contain the dBaseIII Data Base. The Quantitative Data Base, in Lotus 1-2-3 format, is also enclosed as directed in Mr. Pohle's letter. All of the diskettes are double sided, double density (360K) diskettes written by an IBM compatible computer.

QUANTITATIVE DATA BASE

The Quantitative Data Base consists of five Lotus 1-2-3 (Version 2) data files (WK1 suffix) on one diskette. The contents of each of the files have been identified in previous Task 1.2 submittals to the NRC. Nonetheless, I have also enclosed a page which summarizes the file contents for your convenience. This diskette was created by using the DOS COPY command so you can read the files directly or use the DOS COPY command to move the files to your hard disk.

DOCUMENT SUMMARIES DATA BASE

The Document Summaries Data Base consists of a single dBaseIII file (DBF suffix) and 316 summary files (SUM suffix). This approach was utilized since the document summaries in the KMAN data file were alphanumeric string fields with a length of 1600 characters. Unfortunately, dBaseIII limits string fields to a maximum length of 254 characters. Further, after discussions with dBaseIII programmers, it became apparent that it would be difficult, if not impossible, to APPEND the data into dBaseIII memo fields which do not have the 254 character limitation. To tie the data base file to the individual summaries in the SUM files, a field was added to the data base. This field consists of the file name of the DOS (ASCII) text file which contains the summary.

As our previous Task 1.2 report submittals have shown, the Document data base contains a field called WVLNUM which is used to locate the hard copy of the document in our files. This field was also used as the basis for the file name of the document summary by adding 1000 to the WVLNUM and preceding the resulting number with an S and following the resulting string with the ".SUM" suffix. For example, the summary for the document with a WVLNUM of 2 would be in the DOS text (ASCII) file "S1002.SUM" while the summary for a document with a WVLNUM of 315 would reside in a file named "S1315.SUM". The dBaseIII field named SUMFILE for each record contains the name of the file which contains the summary.

While the dBaseIII file can be browsed and queried using normal dBaseIII commands, some special steps are required to view (or print) the document summary. While looking at the record for the document, the user needs to note the name of the file in the SUMFILE field. Then to view the summary, the user needs to issue the dBaseIII command

MODIFY COMMAND sumfile

where sumfile is replaced by the file name contained in the SUMFILE field (S1002.SUM for example). This command loads the dBaseIII editor along with the appropriate summary. Next the user must issue the editor command ^KB (press the CONTROL Key and the K and B keys simultaneously) to reformat the text so that it is readable.

The structure of the dBaseIII file, LITREV.DBF, is virtually identical to that described for the KMAN file, LITREV.ITB, in previous Task 1.2 reports although some of the fields are shorter and the SUMFILE field has been added as discussed previously. For your convenience, I have attached a page which describes the structure of the dBaseIII file.

Because of the large size of this data base, it was necessary to use the DOS BACKUP command to transfer the data from our hard disk to diskette. Therefore, you will need to use the DOS RESTORE command to transfer the data from diskette to your hard disk prior to using it on your system. Since we have had some difficulties using RESTORE for diskettes created with the BACKUP command from other systems, we have also enclosed a copy of the RESTORE.COM from the version of DOS (Compaq DOS 3.1) which we used to BACKUP the files. If you have difficulties with your version of RESTORE, the enclosed version may allow you to complete the restoration of the files.

Before using the BACKUP command, all of the files were placed in a subdirectory called /WVL/ on drive D:. We then changed into that subdirectory using the CD command. The following command was issued to initiate the backup process:

BACKUP D: A:

The BACKUP of the data base is contained on the enclosed four (4) diskettes.

SUMMARY


While the conversion of the Document Summaries Data Base from KMAN to dBaseIII presented some problems, we have developed an approach that allows the conversion to be completed. According to dBaseIII experts with whom I have

spoken, the approach which we have utilized is superior to putting the summaries in MEMO fields. In the future, we will attempt to use dBaseIII to maintain the data base and plan to develop procedures to allow data input and printing information contained in the data base. Presuming that we are able to achieve these goals, future submittals of the data base will include any procedures which are developed.

This submittal should meet the requirements of the Mr. Pohle's March 15, 1987, letter. If you have questions and/or comments or if you have any difficulty in converting the data bases to your system, please do not hesitate to contact me.

Sincerely,

WATER, WASTE AND LAND, INC.



Lyle A. Davis, P.E.
Project Manager

Enclosures:

SUMMARY OF LOTUS 1-2-3 FILES

SUMMARY OF LITREV.DBF STRUCTURE

IBM-PC DISKETTES:

- 1 - NNWSI Quantitative Data Base (Lotus 1-2-3 files created with COPY)
- 4 - NNWSI Document Summary Data Base (dBaseIII files created with BACKUP)
- 1 - Compaq DOS Version 3.1 RESTORE.COM

cc: Mark Logsdon (without diskettes)
Nuclear Waste Consultants

SUMMARY OF LOTUS 1-2-3 FILES

The 360 Kb floppy disk has five Lotus 1-2-3 work files containing data pertaining to the hydrogeology of Yucca Mountain. The names of the files and a description of the data in each are as follows:

FILE NAME : NRCDATA.WK1

Contains matrix and bulk hydrogeologic information from wells in the Yucca Mountain area. The hydrologic data includes the porosity, saturated conductivity, and storage coefficient.

FILE NAME : NRCDATF.WK1

Contains hydrologic properties of fractures. The data includes the fracture aperture and the hydraulic conductivity.

FILE NAME : NRCDATR.WK1

Contains fracture orientation data. The data consists of the number of fractures in a given range of orientations in a specified depth interval of a wellbore. The fracture orientations can range from zero degrees (horizontal) to ninety degrees (vertical).

FILE NAME : NRCDMCH.WK1

Contains hydrologic properties of cores samples. The head versus water content are listed along with the porosity and saturation.

FILE NAME : WELLINFO.WK1

Contains the surface coordinates, surface elevation, total depth, and top of casing for the wells associated with the Yucca Mountain project.

SUMMARY OF LITREV.DBF STRUCTURE

Field Name	Field Type	Field Width	Field Dec	Description of Field Contents
WWLNUM	NUM	4	0	Number assigned to the document by WWL for cataloging and filing purposes
TITLE	CHAR	254		Title of the document
AUTHOR	CHAR	254		Author(s) of the document
DOCNUM	CHAR	30		Document number assigned to the document by the producing agency
PUBDATE	CHAR	10		Publication date for document
REQFROM	CHAR	30		Person/Agency/Institution from whom WWL requested the document (usually NRC)
REQDATE	CHAR	10		Date that WWL requested the document
RECFROM	CHAR	30		Person/Agency/Institution from whom WWL received the document (usually NRC)
RECDATE	CHAR	10		Date that WWL received the document
RATING	NUM	3	0	Subjective rating assigned to document by WWL reviewers (1=poor to 10=excellent)
DESCR	CHAR	15		Short generic description of document (e.g. general, specific, etc.)
READBY	CHAR	30		Initials of WWL Staff members who have read the document
KEYWORDS	CHAR	254		Keywords contained in the document
KEYDATA	CHAR	254		Types of key data which the document presents (e.g. permeability, porosity, etc.)
COMMENTS	CHAR	254		General comments regarding the document (usually contains such observations as 'good document to read', 'formal review by W&A', etc.
SUMFILE	CHAR	9		Field which contains the name of the DOS text or ASCII file in which the document summary resides (the format of this field is Sdddd.SUM where dddd is a four digit number which is equal to 1000 plus the WWLNUM for the document)

ATTACHMENT E

Summary of NWC/TTI Activities
FY86

<u>Date</u>	<u>Activity</u>
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Meetings (Subtasks 2.3, 5, and Project Management):

10/85	NWC/TTI Contractor Meeting with NRC
12/85	NWC/TTI BWIP Hydrology Workshop
1/86	NWC/TTI Program Review and Planning Meeting
4/86	NWC Contractor Meeting with NRC
4/86	NWC/TTI BWIP Preparation and Status Meeting
8/86	TTI Training Seminar: Theory and Use of SWIFT II

Reviews (Subtasks 2.3 & 5):

12/85	Groundwater Travel Time and Disturbed Zone Technical Positions
12/85	Test Plan for Multiple-Well Hydraulic Testing of Selected Hydrogeologic Units at the RRL-2 Site (SD-BWI-TP-040)
12/85	HEDCO: A Program for Converting Observed Water Levels and Pressure Measurements to Formation Pressure and Standard Hydraulic Head
1/86	Exploratory Shaft Test Plan (SD-BWI-TP-007)
2/86	An Issues Hierarchy Approach to Site Characterization and Regulatory Compliance
3/86	PORFLO - A Continuum Model for Fluid Flow, Heat Transfer, and Mass Transport in Porous Media (RHO-BW-CR-150-P)
6/86	Groundwater Travel Time Analysis for the Reference Repository Location at the Hanford Site (SD-BWI-TI-303)
6/86	Review of EPA Standards for Individual and Groundwater Protection
7/86	Review of BWIP Final Environmental Assessment

Subtask 2.1:

1/86	BWIP Site Familiarization Report
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Subtask 2.2:

3/86	BWIP Data Inventory and Management Report
9/86	BWIP Data Inventory and Management Report Update

Subtask 2.4:

4/86	BWIP Conceptual Model Evaluations
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Subtask 2.5:

7/86

BWIP Numerical and Analytical Evaluation of Conceptual Models

- Analysis of Flow Interior Heterogeneities (GWTT)**
- Analysis of Flow Interior Heterogeneities (Cumulative Flux)**
- Evaluation of Residual Thermal Effects**
- Relationship of Hydrodynamic Dispersion to Compliance with Overall EPA Release Standards**
- Analysis of Drilling Responses at the Hanford Site - Theory**

Project Management:

Ongoing

Quality Assurance Activities

7/86

Palo Duro Basin Field Trip (NWC)

8/86

Comments on Proposed Revisions to 10 CFR Part 60

**Summary of NWC/TTI Activities
FY87**

<u>Date</u>	<u>Activity</u>
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Meetings (Subtasks 2.3, 5, and Project Management):

11/86	NWC	NRC/Contractor Meeting on Uncertainty in Hydrogeologic Evaluations of the Groundwater Travel Time Performance Objective
11/86	NWC/TTI	BWIP Hydrology Review Team Meeting
12/86	NWC/TTI	Creston and BWIP Hydrology Data Review
1/87	NWC/TTI	NRC/Contractor Meeting: NWC Data Needs Assessment and GWTT Discussions
3/87	NWC	NRC/Contractor Meeting: Hydrogeology Planning for SCP Preparation
4/87	NWC/TTI	NRC/DOE BWIP Hydrology Workshop
7/87	NWC	NRC/Contractor Meeting: Regulatory Guide on Implementation of the NRC's Pre-Emplacement Groundwater Travel Time Performance Objective
7/87	TTI	Training Seminar: Modeling of Fluid Flow and Contaminant Transport in Fractured or Granular Porous Media
9/87	NWC/DBS	Sandia Staff on HYDROCOIN and Uncertainty Analysis

Reviews (Subtasks 2.3 & 5):

10/86	Williams and Associates' Papers on Uncertainty and Groundwater Travel Time
10/86	Groundwater Flow Modeling of Alternative Repository Concepts (SD-BWI-TA-015)
1/87	Re-Review of Clifton's BWIP GWTT Analysis
3/87	Groundwater Drawdown as a Factor in Long Term Repository Performance Assessment (BWI-TA-020)
7/87	The Basalt Waste Isolation Project Field Reactive Tracer Test Strategy" (SD-BWI-PD-017)
9/87	Numerical Modeling of Groundwater Flow Systems in the Vicinity of the Reference Repository Location, Hanford Site, Washington

Subtask 2.2:

3/87	BWIP Data Management and Inventory Update Report
9/87	BWIP Data Management Update Report

Subtask 2.4:

10/86	BWIP Conceptual Model Update
5/87	BWIP Conceptual Model Evaluation Update Report

Subtask 2.5:

1/87

BWIP Numerical Evaluations Report Update

- Use of Hydraulic Head for Evaluating Groundwater Flow in a Variable Density System: Simple Analytical Evaluation
- A One-Dimensional Numerical Model for Analysis of Steady-State, Variable-Density Groundwater Flow
- Analysis of Drilling Response at the Hanford Site: Analysis
- BWIP Groundwater Levels: Will Further Stabilization Significantly Reduce Uncertainty?

6/87

BWIP Numerical Evaluations Report Update

- Evaluation of a Large-Scale Tracer Test Conducted in Grande Ronde Basalt
- Effects of Repository Heat on Groundwater Flux: One-Dimensional Analysis
- Significance of Lateral Boundaries on Hydraulic Heads at BWIP

6/87

Preparation of Technical Description Summaries (TDS)

6/87

Letter Report: Work done re: Vertical Leakage at BWIP

Project Management:

Ongoing Quality Assurance Activities

Summary of NWC/TTI Activities
FY88

<u>Date</u>	<u>Activity</u>
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Meetings (Subtasks 2.3, 5, and Project Management):

10/87	NWC	DOE/NRC Meeting: Briefing on Site Characterization Plans
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Reviews (Subtasks 2.3 & 5):

10/87	NWC	Summary of FY87 Activities
10/87	NWC	Significant and Special Sources of Groundwater
10/87	NWC/DBS	TDS re: Codell Modeling (Paths of Radionuclide Travel and Groundwater Travel Time)
11/87	NWC/TTI	Numerical Modeling of Groundwater Flow Systems in the Vicinity of the Reference Repository Location, Hanford Site, Washington

Subtask 2.4:

11/87	BWIP Conceptual Model Evaluation Update Report
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Subtask 2.5:

11/87	Technical Report Prioritization
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DANIEL B. STEPHENS & ASSOCIATES, INC.
CONSULTANTS IN GROUND-WATER HYDROLOGY

• GROUND-WATER CONTAMINATION • UNSATURATED ZONE INVESTIGATIONS • WATER SUPPLY DEVELOPMENT •

MEMORANDUM

To: B. Basse, Nuclear Waste Consultants
From: Jeffrie D. Minier, Daniel B. Stephens & Associates *JDM*
Date: March 22, 1988
Subject: Bibliography and Work Products

As per your request during our phone conversation on March 21, 1988, please find attached a copy of the current DBS bibliography and a list of DBS work products. Not included in the list of work products are the numerous QA documents prepared by the DBS team.

Please call me if you have any questions.

JDM:bdf
Enclosures

Summary of DBS Activities

Date	Activity
10/85	Contract Meeting with NRC
1/86	Review of DOE Issues Hierarchy document Review of "A summary of the uncertainties and difficulties associated with compilation of isopachous and structural contour maps of the Yucca Mountain Repository NWC/DBS meeting in Socorro
2/86	Site Familiarization Report (Subtask 3.1) submitted Review of "Hydrology issues for the Palo Duro Basin Bedded Salt Basin, Palo Duro STP-1.0, Draft, August, 1984"
4/86	Subtask 3.3 reviews completed (GWTT documents)
5/86	Data Inventory and Management Report (Subtask 3.2)
6/86	Conceptual Model Evaluation Report (Subtask 3.4) Trip - Banff, Alberta, Conference "Hydrology of Sedimentary Basins"
7/86	DBS/NWC Palo Duro Basin Field Trip Numerical Evaluation of Conceptual Models Report (Subtask 3.5)
8/86	Trip - NRC's SWIFT II Training Seminar
9/86	NWC/DBS QA meeting, Socorro Reviews of Williams & Associates articles submitted Proposal submitted, "Analysis of Uncertainty in Prediction of Travel Path and Travel Time", by J. Yeh and DBS
10/86	Subtask 3.2 Update Report submitted Noble Gas Isotope Data request submitted
11/86	Subtask 3.4 Update Report submitted Trip - GWTT meeting, NRC Trip - GWTT meeting, NWC



Summary of DBS Activities (continued)

Date	Activity
12/86	Reviews of Water, Waste & Land's Technical Reports
1/87	Trip - Task 3 Status meeting, DBS/NWC Subtask 3.5 Update Report submitted Review of NWC review
2/87	QA Audit
3/87	Trip - NWC/DBS hydrogeology planning meeting
4/87	Subtask 3.2 Update Report submitted 18 Task Descriptive Summaries submitted
5/87	Subtask 3.4 Update Report submitted
6/87	GWTT meeting
7/87	GWTT meeting with J. Yeh 3 Task Descriptive Summaries submitted Subtask 3.5 Update Report submitted Letter report submitted, "Significant and Special Sources of Ground Water at the Deaf Smith County Site, Texas" Trip - NRC GWTT meeting Trip - short course, "Modeling of Fluid Flow and Contaminant Transport in Fractured or Granular Porous Media"
9/87	Trip Report - Meeting of Sandia Staff on HYDROCCIN and Uncertainty Analysis
10/87	Trip Report - Visit to the Texas Bureau of Economic Geology on October 20-21, 1987
10/87	Trip Report - Addendum to the Trip Report on the Meeting at Sandia, September 10, 1987 Regarding HYDROCCIN and NNWSI Modeling Studies



Summary of DBS Activities (continued)

Date	Activity
10/87	Subtask 3.5 Update Report, Numerical Evaluation of Conceptual Models
10/87	Subtask 3.4 Update Report, Conceptual Model Evaluation
12/87	Subtask 3.5 Update Letter Report, Numerical Evaluation of Conceptual Models
12/87	Significant and Special Sources of Ground Water at the Deaf Smith County Site, Texas, Revision

