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**Uranium Hydrogeochemical and Stream Sediment
Reconnaissance Data Release for the
New Mexico Portions of the Hobbs and Brownfield
NTMS Quadrangles, New Mexico/Texas**

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URANIUM HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE

DATA RELEASE FOR THE NEW MEXICO PORTIONS OF THE HOBBS AND BROWNFIELD NTMS QUADRANGLES, NEW MEXICO/TEXAS

by

Richard G. Warren and Henry P. Nunes

SUMMARY

Introduction

This report describes the results of water and sediment sampling within the New Mexico portions (or western halves) of the Hobbs and Brownfield, New Mexico/Texas, National Topographic Map Series (NTMS) 1:250 000-scale quadrangles. The study was undertaken by the Los Alamos Scientific Laboratory (LASL) as part of the nationwide Hydrogeochemical and Stream Sediment Reconnaissance (HSSR). The HSSR, a part of the National Uranium Resource Evaluation (NURE) program sponsored by the US Department of Energy (DOE), is designed to identify areas having higher than normal concentrations of uranium in ground waters, surface waters, and water-transported sediments. The HSSR data will ultimately be combined with data from other NURE programs (e.g., from airborne radiometric surveys and geological investigations) to prepare an improved assessment of the potential uranium resources in the US and to indicate areas favorable for uranium exploration by the private sector. The LASL is responsible for conducting the HSSR primarily in the Rocky Mountain states of New Mexico, Colorado, Wyoming, and Montana and in Alaska.

During October 1976 through January 1977, 1084 water and 914 sediment samples were collected from 1926 locations by contracted sampling crews within an area lying between 103° and 104°W longitude and 32° and 34°N latitude (Fig. 1). All samples were taken, treated, and analyzed for uranium according to standard procedures described in Appendix A. Field and uranium data for waters are listed in Appendix B-I for samples from the Hobbs quadrangle and in Appendix B-II for samples from the Brownfield quadrangle. The specific conductance of several water samples exceeded the upper limit of measurement for the instrument and are reported as that value (50 000 umho/cm) in Appendixes B and C. These samples were generally collected from highly saline playa lakes. Field and analytical data for sediments are listed in Appendix C-I for samples from the Hobbs quadrangle and in Appendix C-II for samples from the Brownfield quadrangle. Appendix D provides keys to the codes used in the data listings of Appendixes B and C.

Plates I and II, in the rear pocket, are sample location overlays showing the LASL sample location numbers (minus the letter "O" and any leading zeros)

Fig. 1. Location map for area sampled within the Hobbs and Brownfield quadrangles, New Mexico/Texas.

given in Appendixes B and C; Plates I-A and II-A are uranium concentration overlays for waters; and Plates I-B and II-B are uranium concentration overlays for sediments. All of these overlays cover the New Mexico portions or western halves of the Hobbs (Plates I, I-A, and I-B) or Brownfield (Plates II, II-A, and II-B) quadrangles and are at 1:250 000 scale for use with the appropriately scaled NTMS and available geologic maps. Geologic maps for both the Brownfield and Hobbs quadrangles are available at 1:250 000 scale (Texas Bureau of Economic Geology, 1974 and 1976). A 1:250 000-scale ground-water map, also showing subsurface distribution of aquifer units, is available for a portion of the area (Ash, 1963).

Hobbs and Lovington are the major population centers within this sparsely populated region of high plains. Elevations range from about 875 m in the southeast to about 1400 m in the northwest. The eastern three-fourths of the area is a nearly structureless, southeasterly sloping plain, termed the Llano Estacado. No integrated stream system drains the Llano Estacado. The western one-fourth of the area is drained by tributaries of the Pecos River (Fig. 1). The climate is semiarid and approximately 35 cm annual precipitation is received, mostly during the summer (National Oceanic and Atmospheric Administration, 1976).

The area lies within the Great Plains geologic province and is characterized by nearly flat-lying, undeformed strata. The Llano Estacado is a caliche-cemented surface developed on the Ogallala formation (known locally as the "caprock") of late Miocene and Pliocene age. The Ogallala formation is about 30-60 m thick and generally overlies the Triassic Dockum group; the latter consists of red mudstone and channel sandstone. Outcrops of both the Dockum group and underlying Permian rocks are found west of Mescalero Ridge (Fig. 1), an erosional escarpment of the Ogallala formation (Kelley, 1971).

Due to intense exploration for gas and oil, the subsurface geology is well known. The Paleozoic section thickens markedly southward in subsurface toward the center of the Delaware basin in west Texas, and within the report area it attains a maximum thickness of 5400 m at 32°N latitude. In the eastern part of the area, a major north-trending subsurface arch, the Central Platform, separates the Delaware basin from the Midland basin to the east. Descriptions of the Paleozoic subsurface geology are found in works by Pitt (1973), McGlasson (1969), Meyer (1966), and Haigler (1962). In the northern part of the area, the Cretaceous Tucumcari shale is found between the Ogallala formation and the Dockum group (Ash, 1963).

Major petroleum production occurs from sandstones in the Permian section. Thick Permian evaporite deposits are mined commercially in the Carlsbad Potash District in the southwestern part of the area. At least four known uranium occurrences are associated with sandstone of the Dockum group (Finch, 1972); however, there has been no metallic mineral production within the area.

In order of increasing importance, the Ogallala formation, surficial deposits, and the Dockum group are the primary aquifers within the report area (Nicholson and Clebsch, 1961; Ash, 1963). Lesser amounts of water are obtainable from sands within the Tucumcari shale. Fresh water is generally obtained from the Ogallala formation and surficial deposits, and fresh to slightly saline water (>1000 parts per million (ppm) dissolved solids) from the Dockum group and Tucumcari shale. Brines are generally associated with water obtained from Paleozoic units.

Results

The uranium concentrations in waters approximate a lognormal distribution with a mean of 4.73 parts per billion (ppb) for the combined water samples from the western halves of both quadrangles (Fig. 2). The highest uranium concentration found in a water sample is 139.7 ppb. About 93% of these samples were collected from 1008 wells. Of the remainder, 1 sample was collected from a spring and 75 samples were collected from combined surface water sources of artificial and natural ponds. The mean uranium content of the samples from surface water sources (7.63 ppb) is higher than that of the samples from wells (4.50 ppb).

The water samples having the highest uranium content are from wells and ponds in the western, and especially the northwestern, portion of the Brownfield quadrangle. Most waters containing >20 ppb uranium were collected from areas in which the Dockum group underlies a thin veneer of surficial deposits, near the edge of the caprock (where wells probably draw from the Dockum group), or from saline ponds.

The uranium concentrations in sediments approximate a normal distribution with a mean of 2.18 ppm for the 914 sediment samples collected from the western halves of both quadrangles (Fig. 3). The highest uranium value found in a sediment sample is 19.3 ppm. Sediments were collected from 154 dry streams, 522 dry natural ponds, 166 dry artificial ponds, and a total of 72 wet natural ponds, wet artificial ponds, and springs. The mean uranium content for sediments derived from the wet sources (2.77 ppm) is noticeably higher than that from dry sources (2.11 ppm).

The highest uranium contents within the report area generally are associated with sediments collected from locations in which the Dockum group underlies a thin cover of surficial deposits. A cluster of seven sediments containing more than 3.0 ppm uranium is centered at 33° 34'N, 103° 53'W, where a uranium occurrence is reported at the Hoffacker test hole in the middle Dockum group (Finch, 1972). Included within the group of seven sediments are samples containing 5.4, 5.7, 12.9, and 19.3 ppm uranium, the last being the highest value reported herein.

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Fig. 2. Histogram and statistical data for uranium concentrations in water samples from the combined western halves of the Hobbs and Brownfield quadrangles, New Mexico / Texas.

Fig. 3. Histogram and statistical data for uranium concentrations in sediment samples from the combined western halves of the Hobbs and Brownfield quadrangles, New Mexico / Texas.

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APPENDIX A

SUMMARY OF STANDARD LASL HSSR FIELD AND ANALYTICAL PROCEDURES

APPENDIX A

SUMMARY OF STANDARD LASL HSSR FIELD AND ANALYTICAL PROCEDURES

I. FIELD PROCEDURES

Water Sampling

Water samples are taken directly from the source wherever possible, filtered through a 0.45- μ membrane filter into one each, prewashed and sealed, 41-ml reactor "rabbit" and 25-ml vial (both polyethylene), and both are then acidified to a pH of ≤ 1 with 8N, reagent-grade, HNO_3 . All sample containers are doubly labeled with preprinted, adhesive labels carrying the same sample location number preprinted on the field data form. Springs are sampled as near to their point of emergence as possible; stream waters are taken from fast-flowing current away from the bank; ponds (including small lakes and reservoirs) are sampled from just below the surface, away from the bank; and well waters are taken near the wellhead if the well is pumping or from a holding tank if not.

Sediment Sampling (Wet or Dry)

Enough fine-grained, organic-rich, water-transported sediment to yield a composite sample of 25 g after processing (as indicated below) is taken from beneath the water level (where water exists) at three closely adjacent spots at each location. This is done with a polyethylene scoop, after the water sample (if any) is taken. The sediment is put into a new, clean, and originally sealed, zip-top polyethylene bag and properly double-labeled for delivery (with the field data form) to the contractor's drying facility. After drying at $\leq 100^\circ\text{C}$, each sample is sieved through stainless steel sieves to -100 mesh. The -100 mesh fraction is put into a prewashed, 25-ml polyethylene vial, appropriately double-labeled (using labels from the data form), and sealed for shipment to the LASL.

Field Measurements

The air temperature, taken in the shade at the time of sampling, is recorded to the nearest whole degree Celsius. The water temperature is measured in the source water and recorded to the nearest one-tenth degree Celsius. All temperature measurements are made with quality, precalibrated thermometers. The pH of the source water is measured with a calibrated, portable pH meter or multi-range pH paper, and recorded to the nearest one-tenth of a pH unit. The specific conductance ($\mu\text{mho/cm}$) of the source water is measured with a calibrated, temperature compensated (25°C) portable meter after the attached sample cup has first been rinsed three times in the source water. The specific conductance of several water samples exceeded the upper limit of measurement for the instrument and are reported as that value (50 000 $\mu\text{mho/cm}$) in Appendixes B and C. The scintillometer readings, taken on a flat, dry spot within a few meters of the sample location, are measured with a portable scintillometer. Two readings are recorded, the first with a radiation shield in place (blocking out ground radiation), and the second with the shield removed. The readings (in counts/s) are converted by computer (using calibration factors obtained from testing of the scintillometers on a calibration block) to give the equivalent uranium (eU) value set forth in the data listing.

Field Observations

These represent the best subjective judgment of the field sampler on location, and include very general descriptions of the local bedrock, sediment, water, vegetation, terrain, weather, possible contaminants, and water well configuration, if applicable.

Sample Location Verification

Each contractor is supplied field maps with the desired sample types and locations symbolically premarked at the LASL. The maps are normally USGS quadrangles (either 7.5' or 15'), but where not available, Forest Service, State Highway, or other reasonably detailed maps are provided. As each location is sampled, a unique sample location number, preprinted on transparent adhesive labels provided with the identically numbered field data forms, is pasted over the precisely marked site on the field map. The latitude and longitude of each location is computed by the sampling contractor. Every location is later checked (and corrected if necessary) at the LASL by overlaying computer-produced location plots on the field maps used. The latitudes and/or longitudes are corrected if the overlay locations are displaced by more than 100 m from the locations marked on the field maps. When a desired location cannot be sampled as specified, an alternate sample type or location as near as possible to the original one is picked, and the new sample type and/or location is/are marked on the field map and properly labeled as above.

II. ANALYTICAL PROCEDURES

Water Samples Analyzed for Uranium by Fluorometry

In a controlled laboratory environment, a NaF (98%)-LiF (2%) flux pellet is prepared and placed on a platinum dish. The 25-ml water vial is vigorously shaken and a 0.20-ml aliquot of water is withdrawn and dropped onto a flux pellet, then evaporated under a heat lamp. The sample flux is then heated until fused. After it cools, it is excited with ultra-violet radiation in the fluorometer, and the measured fluorescence is read, recorded, and put through a computer routine using standards and blanks run at the same time to obtain the uranium concentration. All fluorometer analyses are done in duplicate and the average value for the two splits of a sample is reported herein. Water samples which have uranium concentrations below 0.2 ppb are concentrated by a factor of 10 using evaporative methods and are then analyzed by fluorometry to a lower detection limit of 0.02 ppb. Water samples which either have uranium concentrations in excess of ~ 10 ppb or contain elements which interfere with the fluorometric determination are reanalyzed using the delayed-neutron counting (DNC) technique described below. Analytical precision at the lower limit of detection is $\sim 30\%$; however, it improves to $\sim 10\%$ one order of magnitude above the lower limit.

Water Samples Analyzed for Uranium by DNC

Waters with >10 ppb uranium and those containing high enough concentrations of certain elements to interfere with fluorometric analysis are assayed using DNC. The exteriors of the field-returned, 41-ml rabbits containing water samples are thoroughly cleaned before analysis. Samples received in 25-ml vials (used exclusively in some of the early work) are transferred to

clean, labeled, 4l-ml rabbits before being analyzed. Each water sample is weighed, and its weight (less that of the rabbit) and location number are recorded. The rabbits are then loaded into a 25-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked, and the system is calibrated using four standards. The transfer clip is installed on the pneumatic feed line, and the count control is set (typically, a 60-s irradiation, a 30-s delay, and a 60-s count are used, but this can be changed to accommodate abnormally high or low uranium concentrations). The samples are cycled through the system and the uranium concentration is automatically measured, computed in ppb, and entered into the data base. Statistical treatments of uranium concentrations obtained on the same suites of samples both by fluorometry and DNC have shown that there is no significant difference between results of the two analytical methods as used at the LASL. This analytical comparability is rechecked periodically. Uranium concentrations for those water samples assayed by DNC are denoted by asterisks following the uranium concentrations in Appendix B.

Uranium Analysis of Sediment Samples

All sediment samples are analyzed for total uranium by DNC. A split of each sample (dried and sieved as described) is transferred to a clean 4-ml rabbit, weighed (less the tare), and recorded along with the appropriate location number. The readied rabbits are loaded into a 50-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked, and the system is calibrated as above. The transfer clip is installed and the count control is set (typically, a 20-s irradiation, a 10-s delay, and a 20-s count are used). The samples are cycled through the system and the uranium concentration is automatically measured, computed in ppm, and entered into the data base. The lower limit of detection for uranium in sediment analyzed by the DNC method is 0.5 ppb (not ppm); this is so low that it has never been reached while analyzing a natural sediment sample. The precision of the DNC method is 4% or better for all analyses.

APPENDIX B

LISTINGS OF FIELD DATA AND URANIUM CONCENTRATIONS FOR WATER SAMPLES

Appendix B-I

Listings of Field Data and Uranium Concentrations for Water Samples
from the New Mexico Portion of the Hobbs NTMS Quadrangle

(See Appendix D for Code to Listings)

APPENDIX B-1. Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER										LAST SAMPLE LOCATION NUMBER AND RECORD DATA										WATER SAMPLES ANALYZED BY F. ORONFOLLO	
STATE	LATITUDE	LONGITUDE	TIME	DATE	TIME SAMPLED	AD. THERMIST. #	CONDUCTIVITY	DEPTH	WIND	WAVE	WAVE PERIOD	WAVE DIRECTION	WAVE HEIGHT	WAVE	WAVE	WAVE	WAVE	WAVE	WAVE		
35-32	137.00	100.00	2-09	0-000001	10/25/74	9-15	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000002	10/25/74	10-10	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000003	10/25/74	11-15	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000004	10/25/74	12-20	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000005	10/25/74	13-25	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000006	10/25/74	14-30	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000007	10/25/74	15-35	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000008	10/25/74	16-40	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000009	10/25/74	17-45	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000010	10/25/74	18-50	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000011	10/25/74	19-55	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000012	10/25/74	20-00	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000013	10/25/74	21-05	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000014	10/25/74	22-10	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000015	10/25/74	23-15	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
35-32	137.00	100.00	2-09	0-000016	10/25/74	24-20	11.0	7.5	0.0000	6.1	5.7	2-01	1-1	1.15							
 																			

5

DOE SAMPLE NUMBER										LAST SAMPLE LOCATION NUMBER AND FIELD DATA										CONCENTRATIONS FOR WATER SAMPLES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
STATE	COUNTY	WATER BODY	SAMPLE TYPE	DATE	TIME SAMPLED	TIME	LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 7	LOC. 8	LOC. 9	LOC. 10	LOC. 11	LOC. 12	LOC. 13	LOC. 14	LOC. 15	LOC. 16	LOC. 17	LOC. 18	LOC. 19	LOC. 20	LOC. 21	LOC. 22	LOC. 23	LOC. 24	LOC. 25	LOC. 26	LOC. 27	LOC. 28	LOC. 29	LOC. 30	LOC. 31	LOC. 32	LOC. 33	LOC. 34	LOC. 35	LOC. 36	LOC. 37	LOC. 38	LOC. 39	LOC. 40	LOC. 41	LOC. 42	LOC. 43	LOC. 44	LOC. 45	LOC. 46	LOC. 47	LOC. 48	LOC. 49	LOC. 50	LOC. 51	LOC. 52	LOC. 53	LOC. 54	LOC. 55	LOC. 56	LOC. 57	LOC. 58	LOC. 59	LOC. 60	LOC. 61	LOC. 62	LOC. 63	LOC. 64	LOC. 65	LOC. 66	LOC. 67	LOC. 68	LOC. 69	LOC. 70	LOC. 71	LOC. 72	LOC. 73	LOC. 74	LOC. 75	LOC. 76	LOC. 77	LOC. 78	LOC. 79	LOC. 80	LOC. 81	LOC. 82	LOC. 83	LOC. 84	LOC. 85	LOC. 86	LOC. 87	LOC. 88	LOC. 89	LOC. 90	LOC. 91	LOC. 92	LOC. 93	LOC. 94	LOC. 95	LOC. 96	LOC. 97	LOC. 98	LOC. 99	LOC. 100	LOC. 101	LOC. 102	LOC. 103	LOC. 104	LOC. 105	LOC. 106	LOC. 107	LOC. 108	LOC. 109	LOC. 110	LOC. 111	LOC. 112	LOC. 113	LOC. 114	LOC. 115	LOC. 116	LOC. 117	LOC. 118	LOC. 119	LOC. 120	LOC. 121	LOC. 122	LOC. 123	LOC. 124	LOC. 125	LOC. 126	LOC. 127	LOC. 128	LOC. 129	LOC. 130	LOC. 131	LOC. 132	LOC. 133	LOC. 134	LOC. 135	LOC. 136	LOC. 137	LOC. 138	LOC. 139	LOC. 140	LOC. 141	LOC. 142	LOC. 143	LOC. 144	LOC. 145	LOC. 146	LOC. 147	LOC. 148	LOC. 149	LOC. 150	LOC. 151	LOC. 152	LOC. 153	LOC. 154	LOC. 155	LOC. 156	LOC. 157	LOC. 158	LOC. 159	LOC. 160	LOC. 161	LOC. 162	LOC. 163	LOC. 164	LOC. 165	LOC. 166	LOC. 167	LOC. 168	LOC. 169	LOC. 170	LOC. 171	LOC. 172	LOC. 173	LOC. 174	LOC. 175	LOC. 176	LOC. 177	LOC. 178	LOC. 179	LOC. 180	LOC. 181	LOC. 182	LOC. 183	LOC. 184	LOC. 185	LOC. 186	LOC. 187	LOC. 188	LOC. 189	LOC. 190	LOC. 191	LOC. 192	LOC. 193	LOC. 194	LOC. 195	LOC. 196	LOC. 197	LOC. 198	LOC. 199	LOC. 200	LOC. 201	LOC. 202	LOC. 203	LOC. 204	LOC. 205	LOC. 206	LOC. 207	LOC. 208	LOC. 209	LOC. 210	LOC. 211	LOC. 212	LOC. 213	LOC. 214	LOC. 215	LOC. 216	LOC. 217	LOC. 218	LOC. 219	LOC. 220	LOC. 221	LOC. 222	LOC. 223	LOC. 224	LOC. 225	LOC. 226	LOC. 227	LOC. 228	LOC. 229	LOC. 230	LOC. 231	LOC. 232	LOC. 233	LOC. 234	LOC. 235	LOC. 236	LOC. 237	LOC. 238	LOC. 239	LOC. 240	LOC. 241	LOC. 242	LOC. 243	LOC. 244	LOC. 245	LOC. 246	LOC. 247	LOC. 248	LOC. 249	LOC. 250	LOC. 251	LOC. 252	LOC. 253	LOC. 254	LOC. 255	LOC. 256	LOC. 257	LOC. 258	LOC. 259	LOC. 260	LOC. 261	LOC. 262	LOC. 263	LOC. 264	LOC. 265	LOC. 266	LOC. 267	LOC. 268	LOC. 269	LOC. 270	LOC. 271	LOC. 272	LOC. 273	LOC. 274	LOC. 275	LOC. 276	LOC. 277	LOC. 278	LOC. 279	LOC. 280	LOC. 281	LOC. 282	LOC. 283	LOC. 284	LOC. 285	LOC. 286	LOC. 287	LOC. 288	LOC. 289	LOC. 290	LOC. 291	LOC. 292	LOC. 293	LOC. 294	LOC. 295	LOC. 296	LOC. 297	LOC. 298	LOC. 299	LOC. 300	LOC. 301	LOC. 302	LOC. 303	LOC. 304	LOC. 305	LOC. 306	LOC. 307	LOC. 308	LOC. 309	LOC. 310	LOC. 311	LOC. 312	LOC. 313	LOC. 314	LOC. 315	LOC. 316	LOC. 317	LOC. 318	LOC. 319	LOC. 320	LOC. 321	LOC. 322	LOC. 323	LOC. 324	LOC. 325	LOC. 326	LOC. 327	LOC. 328	LOC. 329	LOC. 330	LOC. 331	LOC. 332	LOC. 333	LOC. 334	LOC. 335	LOC. 336	LOC. 337	LOC. 338	LOC. 339	LOC. 340	LOC. 341	LOC. 342	LOC. 343	LOC. 344	LOC. 345	LOC. 346	LOC. 347	LOC. 348	LOC. 349	LOC. 350	LOC. 351	LOC. 352	LOC. 353	LOC. 354	LOC. 355	LOC. 356	LOC. 357	LOC. 358	LOC. 359	LOC. 360	LOC. 361	LOC. 362	LOC. 363	LOC. 364	LOC. 365	LOC. 366	LOC. 367	LOC. 368	LOC. 369	LOC. 370	LOC. 371	LOC. 372	LOC. 373	LOC. 374	LOC. 375	LOC. 376	LOC. 377	LOC. 378	LOC. 379	LOC. 380	LOC. 381	LOC. 382	LOC. 383	LOC. 384	LOC. 385	LOC. 386	LOC. 387	LOC. 388	LOC. 389	LOC. 390	LOC. 391	LOC. 392	LOC. 393	LOC. 394	LOC. 395	LOC. 396	LOC. 397	LOC. 398	LOC. 399	LOC. 400	LOC. 401	LOC. 402	LOC. 403	LOC. 404	LOC. 405	LOC. 406	LOC. 407	LOC. 408	LOC. 409	LOC. 410	LOC. 411	LOC. 412	LOC. 413	LOC. 414	LOC. 415	LOC. 416	LOC. 417	LOC. 418	LOC. 419	LOC. 420	LOC. 421	LOC. 422	LOC. 423	LOC. 424	LOC. 425	LOC. 426	LOC. 427	LOC. 428	LOC. 429	LOC. 430	LOC. 431	LOC. 432	LOC. 433	LOC. 434	LOC. 435	LOC. 436	LOC. 437	LOC. 438	LOC. 439	LOC. 440	LOC. 441	LOC. 442	LOC. 443	LOC. 444	LOC. 445	LOC. 446	LOC. 447	LOC. 448	LOC. 449	LOC. 450	LOC. 451	LOC. 452	LOC. 453	LOC. 454	LOC. 455	LOC. 456	LOC. 457	LOC. 458	LOC. 459	LOC. 460	LOC. 461	LOC. 462	LOC. 463	LOC. 464	LOC. 465	LOC. 466	LOC. 467	LOC. 468	LOC. 469	LOC. 470	LOC. 471	LOC. 472	LOC. 473	LOC. 474	LOC. 475	LOC. 476	LOC. 477	LOC. 478	LOC. 479	LOC. 480	LOC. 481	LOC. 482	LOC. 483	LOC. 484	LOC. 485	LOC. 486	LOC. 487	LOC. 488	LOC. 489	LOC. 490	LOC. 491	LOC. 492	LOC. 493	LOC. 494	LOC. 495	LOC. 496	LOC. 497	LOC. 498	LOC. 499	LOC. 500	LOC. 501	LOC. 502	LOC. 503	LOC. 504	LOC. 505	LOC. 506	LOC. 507	LOC. 508	LOC. 509	LOC. 510	LOC. 511	LOC. 512	LOC. 513	LOC. 514	LOC. 515	LOC. 516	LOC. 517	LOC. 518	LOC. 519	LOC. 520	LOC. 521	LOC. 522	LOC. 523	LOC. 524	LOC. 525	LOC. 526	LOC. 527	LOC. 528	LOC. 529	LOC. 530	LOC. 531	LOC. 532	LOC. 533	LOC. 534	LOC. 535	LOC. 536	LOC. 537	LOC. 538	LOC. 539	LOC. 540	LOC. 541	LOC. 542	LOC. 543	LOC. 544	LOC. 545	LOC. 546	LOC. 547	LOC. 548	LOC. 549	LOC. 550	LOC. 551	LOC. 552	LOC. 553	LOC. 554	LOC. 555	LOC. 556	LOC. 557	LOC. 558	LOC. 559	LOC. 560	LOC. 561	LOC. 562	LOC. 563	LOC. 564	LOC. 565	LOC. 566	LOC. 567	LOC. 568	LOC. 569	LOC. 570	LOC. 571	LOC. 572	LOC. 573	LOC. 574	LOC. 575	LOC. 576	LOC. 577	LOC. 578	LOC. 579	LOC. 580	LOC. 581	LOC. 582	LOC. 583	LOC. 584	LOC. 585	LOC. 586	LOC. 587	LOC. 588	LOC. 589	LOC. 590	LOC. 591	LOC. 592	LOC. 593	LOC. 594	LOC. 595	LOC. 596	LOC. 597	LOC. 598	LOC. 599	LOC. 600	LOC. 601	LOC. 602	LOC. 603	LOC. 604	LOC. 605	LOC. 606	LOC. 607	LOC. 608	LOC. 609	LOC. 610	LOC. 611	LOC. 612	LOC. 613	LOC. 614	LOC. 615	LOC. 616	LOC. 617	LOC. 618	LOC. 619	LOC. 620	LOC. 621	LOC. 622	LOC. 623	LOC. 624	LOC. 625	LOC. 626	LOC. 627	LOC. 628	LOC. 629	LOC. 630	LOC. 631	LOC. 632	LOC. 633	LOC. 634	LOC. 635	LOC. 636	LOC. 637	LOC. 638	LOC. 639	LOC. 640	LOC. 641	LOC. 642	LOC. 643	LOC. 644	LOC. 645	LOC. 646	LOC. 647	LOC. 648	LOC. 649	LOC. 650	LOC. 651	LOC. 652	LOC. 653	LOC. 654	LOC. 655	LOC. 656	LOC. 657	LOC. 658	LOC. 659	LOC. 660	LOC. 661	LOC. 662	LOC. 663	LOC. 664	LOC. 665	LOC. 666	LOC. 667	LOC. 668	LOC. 669	LOC. 670	LOC. 671	LOC. 672	LOC. 673	LOC. 674	LOC. 675	LOC. 676	LOC. 677	LOC. 678	LOC. 679	LOC. 680	LOC. 681	LOC. 682	LOC. 683	LOC. 684	LOC. 685	LOC. 686	LOC. 687	LOC. 688	LOC. 689	LOC. 690	LOC. 691	LOC. 692	LOC. 693	LOC. 694	LOC. 695	LOC. 696	LOC. 697	LOC. 698	LOC. 699	LOC. 700	LOC. 701	LOC. 702	LOC. 703	LOC. 704	LOC. 705	LOC. 706	LOC. 707	LOC. 708	LOC. 709	LOC. 710	LOC. 711	LOC. 712	LOC. 713	LOC. 714	LOC. 715	LOC. 716	LOC. 717	LOC. 718	LOC. 719	LOC. 720	LOC. 721	LOC. 722	LOC. 723	LOC. 724	LOC. 725	LOC. 726	LOC. 727	LOC. 728	LOC. 729	LOC. 730	LOC. 731	LOC. 732	LOC. 733	LOC. 734	LOC. 735	LOC. 736	LOC. 737	LOC. 738	LOC. 739	LOC. 740	LOC. 741	LOC. 742	LOC. 743	LOC. 744	LOC. 745	LOC. 746	LOC. 747	LOC. 748	LOC. 749	LOC. 750	LOC. 751	LOC. 752	LOC. 753	LOC. 754	LOC. 755	LOC. 756	LOC. 757	LOC. 758	LOC. 759	LOC. 760	LOC. 761	LOC. 762	LOC. 763	LOC. 764	LOC. 765	LOC. 766	LOC. 767	LOC. 768	LOC. 769	LOC. 770	LOC. 771	LOC. 772	LOC. 773	LOC. 774	LOC. 775	LOC. 776	LOC. 777	LOC. 778	LOC. 779	LOC. 780	LOC. 781	LOC. 782	LOC. 783	LOC. 784	LOC. 785	LOC. 786	LOC. 787	LOC. 788	LOC. 789	LOC. 790	LOC. 791	LOC. 792	LOC. 793	LOC. 794	LOC. 795	LOC. 796	LOC. 797	LOC. 798	LOC. 799	LOC. 800	LOC. 801	LOC. 802	LOC. 803	LOC. 804	LOC. 805	LOC. 806	LOC. 807	LOC. 808	LOC. 809	LOC. 810	LOC. 811	LOC. 812	LOC. 813	LOC. 814	LOC. 815	LOC. 816	LOC. 817	LOC. 818	LOC. 819	LOC. 820	LOC. 821	LOC. 822	LOC. 823	LOC. 824	LOC. 825	LOC. 826	LOC. 827	LOC. 828	LOC. 829	LOC. 830	LOC. 831	LOC. 832	LOC. 833	LOC. 834	LOC. 835	LOC. 836	LOC. 837	LOC. 838	LOC. 839	LOC. 840	LOC. 841	LOC. 842	LOC. 843	LOC. 844	LOC. 845	LOC. 846	LOC. 847	LOC. 848	LOC. 849	LOC. 850	LOC. 851	LOC. 852	LOC. 853	LOC. 854	LOC. 855	LOC. 856	LOC. 857	LOC. 858	LOC. 859	LOC. 860	LOC. 861	LOC. 862	LOC. 863	LOC. 864	LOC. 865	LOC. 866	LOC. 867	LOC. 868	LOC. 869	LOC. 870	LOC. 871	LOC. 872	LOC. 873	LOC. 874	LOC. 875	LOC. 876	LOC. 877	LOC. 878	LOC. 879	LOC. 880	LOC. 881	LOC. 882	LOC. 883	LOC. 884	LOC. 885	LOC. 886	LOC. 887	LOC. 888	LOC. 889	LOC. 890	LOC. 891	LOC. 892	LOC. 893	LOC. 894	LOC. 895	LOC. 896	LOC. 897	LOC. 898	LOC. 899	LOC. 900	LOC. 901	LOC. 902	LOC. 903	LOC. 904	LOC. 905	LOC. 906	LOC. 907	LOC. 908	LOC. 909	LOC. 910	LOC. 911	LOC. 912	LOC. 913	LOC. 914	LOC. 915	LOC. 916	LOC. 917	LOC. 918	LOC. 919	LOC. 920	LOC. 921	LOC. 922	LOC. 923	LOC. 924	LOC. 925	LOC. 926	LOC. 927	LOC. 928	LOC. 929	LOC. 930	LOC. 931	LOC. 932	LOC. 933	LOC. 934	LOC. 935	LOC. 936	LOC. 937	LOC. 938	LOC. 939	LOC. 940	LOC. 941	LOC. 942	LOC. 943	LOC. 944	LOC. 945	LOC. 946	LOC. 947	LOC. 948	LOC. 949	LOC. 950	LOC. 951	LOC. 952	LOC. 953	LOC. 954	LOC. 955	LOC. 956	LOC. 957	LOC. 958	LOC. 959	LOC. 960	LOC. 961	LOC. 962	LOC. 963	LOC. 964	LOC. 965	LOC. 966	LOC. 967	LOC. 968	LOC. 969	LOC. 970	LOC. 971	LOC. 972	LOC. 973	LOC. 974	LOC. 975	LOC. 976	LOC. 977	LOC. 978	LOC. 979	LOC. 980	LOC. 981	LOC. 982	LOC. 983	LOC. 984	LOC. 985	LOC. 986	LOC. 987	LOC. 988	LOC. 989	LOC. 990	LOC. 991	LOC. 992	LOC. 993	LOC. 994	LOC. 995	LOC. 996	LOC. 997	LOC. 998	LOC. 999	LOC. 1000	LOC. 1001	LOC. 1002	LOC. 1003	LOC. 1004	LOC. 1005	LOC. 1006	LOC. 1007	LOC. 1008	LOC. 1009	LOC. 1010	LOC. 1011	LOC. 1012	LOC. 1013	LOC. 1014	LOC. 1015	LOC. 1016	LOC. 1017	LOC. 1018	LOC. 1019	LOC. 1020	LOC. 1021	LOC. 1022	LOC. 1023	LOC. 1024	LOC. 1025	LOC. 1026	LOC. 1027	LOC. 1028	LOC. 1029	LOC. 1030	LOC. 1031	LOC. 1032	LOC. 1033	LOC. 1034	LOC. 1035	LOC. 1036	LOC. 1037	LOC. 1038	LOC. 1039	LOC. 1040	LOC. 1041	LOC. 1042	LOC. 1043	LOC. 1044	LOC. 1045	LOC. 1046	LOC. 1047	LOC. 1048	LOC. 1049	LOC. 1050	LOC. 1051	LOC. 1052	LOC. 1053	LOC. 1054	LOC. 1055	LOC. 1056	LOC. 1057	LOC. 1058	LOC. 1059	LOC. 1060	LOC. 1061	LOC. 1062	LOC. 1063	LOC. 1064	LOC. 1065	LOC. 1066	LOC. 1067	LOC. 1068	LOC. 1069	LOC. 1070	LOC. 1071	LOC. 1072	LOC. 1073	LOC. 1074	LOC. 1075	LOC. 1076	LOC. 1077	LOC. 1078	LOC. 1079	LOC. 1080	LOC. 1081	LOC. 1082	LOC. 1083	LOC. 1084	LOC. 1085	LOC. 1086	LOC. 1087	LOC. 1088	LOC. 1089	LOC. 1090	LOC. 1091	LOC. 1092	LOC. 1093	LOC. 1094	LOC. 1095	LOC. 1096	LOC. 1097	LOC. 1098	LOC. 1099	LOC. 1100	LOC. 1101	LOC. 1102	LOC. 1103	LOC. 1104	LOC. 1105	LOC. 1106	LOC. 1107	LOC. 1108	LOC. 1109	LOC. 1110	LOC. 1111	LOC. 1112	LOC. 1113	LOC. 1114	LOC. 1115	LOC. 1116

APPENDIX B-1 (continued). Field Data and Uranium Concentrations for Water Samples Hobbs

[illegible]

APPENDIX B-1 (continued). Field Data and Uranium Concentrations for Water Samples Hobbs

[illegible]

APPENDIX B-1 (continued). Field Data and Uranium Concentrations for Water Samples Hobbs

DOE SAMPLE NUMBER										LAST SAMPLE LOCATION NUMBER AND FIELD DATA										WATER SAMPLES ANALYZED BY FLUORESCENCE OR DMC UNITS IN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
STATE	COUNTY	SAMPLE TYPE	REF. NO.	AS SHOWN	TIME SAMPLED	AS RECEIVED	TEMPERATURE	DEPTH	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA	SWELL	WIND	WAVE	SEA

APPENDIX B-1 (continued). Field Data and Uranium Concentrations for Water Samples Hobbs

DOE SAMPLE NUMBER						LAST SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION							
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE umho/cm	SCINTILLOMETER CPM	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	REF	WEATHER	CONTAMINANTS	WELL TYPE	WELL DEPTH FEET	WATER DEPTH FEET	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC (+) UNITS IN ppb	
							DATE	HOUR																									
35-32	1600-103	3525-2-08				0-000579-11/21/74-9	9-14	0	7.4	1000					3-1-7		3-3-1	3-3-2	3-1-1													1.60	
35-32	1494-103	3507-2-08				0-000583-11/21/74-10	10-14	0	7.4	1300					4-1-7		3-3-1	3-3-2	3-1-1													14.30	
35-32	2317-103	3431-2-08				0-000584-11/21/74-11	12-14	0	7.9	900					3-1-7		3-3-1	3-3-2	3-1-1													12.40	
35-32	2319-103	2778-2-08				0-000588-11/21/74-11	12-13	0	9.4	700					3-1-7		3-3-1	3-3-2	3-1-1													6.40	
35-32	2272-103	1997-2-08				0-000594-11/21/74-13	14-15	0	9.0	700					4-1-7		3-3-1	3-3-2	3-1-1													3.84	
35-32	2103-103	2004-2-08				0-000595-11/21/74-13	14-15	0	9.8	600					4-1-7		3-3-1	3-3-2	3-1-1													5.95	
35-32	1467-103	2362-2-08				0-000598-11/21/74-14	14-15	0	9.4	750					4-1-7		3-3-1	3-3-2	3-1-1													5.95	
35-32	4539-103	5778-2-08				0-000601-11/22/74-9	10-10	0	7.4	500					4-1-7		3-3-1	3-3-2	3-1-1													1.44	
35-32	4833-103	4151-2-08				0-000607-11/22/74-10	12-11	0	7.4	490					4-1-7		3-3-1	3-3-2	3-1-1													1.24	
35-32	3333-103	4434-2-08				0-000616-11/22/74-12	14-14	0	9.9	690					3-1-7		3-3-1	3-3-2	3-1-1													16.30	
35-32	3889-103	4438-2-08				0-000620-11/22/74-13	14-14	0	9.4	500					3-1-7		3-3-1	3-3-2	3-1-1													8.84	
35-32	2933-103	6731-2-08				0-000623-11/22/74-13	14-9	0	9.3	900					4-1-7		3-3-1	3-3-2	3-1-1													7.18	
35-32	6117-103	6778-2-09				0-000633-11/17/74-15	9-12	0	9.4	6000					5-1-7	4-4	2-2	3-3-2	3-1-1													18.80	
35-32	5647-103	6547-2-08				0-000634-11/17/74-15	9-9	0	9.5	4500					2-1-6		3-3-1	3-3-2	3-1-1													1.24	
35-32	5950-103	6576-2-08				0-000635-11/17/74-15	9-9	0	9.4	5000					4-1-6		3-3-1	3-3-2	3-1-1													3.21	
35-32	7497-103	5431-2-08				0-000637-11/18/74-10	12-12	0	7.9	500					4-1-7		3-3-1	3-3-2	3-1-1													1.22	
35-32	7333-103	5442-2-08				0-000638-11/18/74-11	12-17	5	7.4	500					5-1-7		3-3-1	3-3-2	3-1-1													0.89	
35-32	7375-103	5294-2-09				0-000640-11/18/74-11	12-10	0	9.1	130					10-1-1	5-6	2-2	4-3-2	3-1-1													0.47	
35-32	7256-103	6876-2-08				0-000642-11/18/74-12	14-9	0	9.2	450					4-1-7		3-3-1	3-3-2	3-1-1													0.58	
35-32	6306-103	4254-2-08				0-000647-11/18/74-14	18-18	5	7.7	3100					4-1-6		3-3-1	3-3-2	3-1-1													8.45	
35-32	6200-103	5954-2-08				0-000649-11/18/74-15	14-18	0	9.0	3000					4-1-4		3-3-1	3-3-2	3-1-1													3.09	
35-32	5964-103	5047-2-08				0-000650-11/18/74-15	9-17	5	9.4	5000					2-1-6		3-3-1	3-3-2	3-1-1													52.00	
35-32	5944-103	6857-2-08				0-000651-11/19/74-12	22-17	0	9.2	1200					2-1-7	4-4	3-3-1	3-3-2	3-1-1													45.00	
35-32	4200-103	3004-2-08				0-000652-11/20/74-10	10-9	0	9.1	6000					4-1-4	4-4	3-3-1	3-3-2	3-1-1													11.10	
35-32	3981-103	3334-2-08				0-000654-11/20/74-10	18-12	0	9.9	2300					7-1-1		3-3-1	3-3-2	3-1-1														1.12
35-32	4181-103	3417-2-09				0-000655-11/20/74-11	17-12	0	9.1	310					7-1-6	4-6	3-3-1	3-3-2	3-1-1														0.28
35-32	3811-103	3414-2-08				0-000658-11/20/74-11	22-14	5	9.0	900					4-1-6		3-3-1	3-3-2	3-1-1														6.45
35-32	3539-103	3547-2-08				0-000660-11/20/74-12	23-15	0	9.3	1250					5-1-1		3-3-1	3-3-2	3-1-1														3.87
35-32	3219-103	3167-2-08				0-000665-11/20/74-14	24-14	0	7.7	600					2-1-1		3-3-1	3-3-2	3-1-1														1.21
35-32	3231-103	3282-2-08				0-000667-11/20/74-14	24-13	5	9.3	500					4-1-1	4-7	3-3-1	3-3-2	3-1-1														0.77
35-32	2972-103	2725-2-08				0-000669-11/20/74-14	27-18	0	9.7	3400					5-1-4	4-4	3-3-1	3-3-2	3-1-1														2.57
35-32	3689-103	2444-2-08				0-000672-11/21/74-11	10-12	5	7.8	550					4-1-4	4-4	3-3-1	3-3-2	3-1-1														1.48
35-32	3400-103	2459-2-08				0-000674-11/21/74-11	11-11	0	9.0	600					5-1-4	4-4	3-3-1	3-3-2	3-1-1														2.68
35-32	2306-103	2831-2-08				0-000675-11/21/74-12	12-17	0	7.7	1200					2-1-4	4-4	3-3-1	3-3-2	3-1-1														3.07
35-32	3003-103	2475-2-08				0-000676-11/21/74-12	12-11	5	7.9	550					2-1-4	4-4	3-3-1	3-3-2	3-1-1														2.10
35-32	2647-103	3088-2-08				0-000678-11/21/74-12	15-10	0	9.0	800					5-1-4	4-4	3-3-1	3-3-2	3-1-1														1.45
35-32	2625-103	3133-2-08				0-000679-11/21/74-12	14-11	0	7.9	1100					5-1-4	4-4	3-3-1	3-3-2	3-1-1														1.17
35-32	7597-103	4903-2-08				0-000680-11/17/74-14	12-12	0	9.2	450					12-1-4		3-3-1	3-3-2	3-1-1														1.85
35-32	9311-103	2778-2-08				0-000684-11/19/74-10	14-9	0	7.2	700					1-1-6		3-3-1	3-3-2	3-1-1														1.04
35-32	9667-103	3282-2-08				0-000685-11/19/74-10	14-10	5	7.8	550					9-1-4		4-2-1	3-3-2	3-1-1														16.10
35-32	9586-103	2850-2-08				0-000697-11/18/74-11	14-10	0	7.4	700					12-1-4		3-3-1	3-3-2	3-1-1														0.23
35-32	9814-103	3033-2-08				0-000698-11/18/74-11	14-10	0	7.2	500					7-1-6		4-2-1	3-3-2	3-1-1														1.32
35-32	9736-103	2530-2-08				0-000699-11/18/74-11	17-10	0	7.2	550					26-1-6		3-3-1	3-3-2	3-1-1														1.30
35-32	9958-103	3519-2-08				0-000700-11/18/74-12	15-11	0	9.1	550					13-1-6		3-3-1	3-3-2	3-1-1														1.25
35-32	9528-103	3847-2-08				0-000702-11/18/74-12	18-12	0	7.8	400					10-1-6		3-3-1	3-3-2	3-1-1														0.61
35-32	9617-103	4122-2-08				0-000703-11/18/74-12	18-12	0	9.2	455					12-1-6		4-2-1	3-3-2	3-1-1														

APPENDIX B-I (continued). Field Data and Uranium Concentrations for Water Samples Hobbs

STATE	DOE SAMPLE NUMBER	LAST SAMPLE LOCATION NUMBER AND FIELD DATA										U CONCENTRATION WATER SAMPLES ANALYZED BY FLOUROMETRY OR DMC
		TIME SAMPLED	DATE	TIME	LOCATION	DEPTH	WIND	WAVE	SEA	WAVE	SEA	
35	32,9403	103,5672	2-08	1-20	703-11/18/74-13	20	0.5	-	9.1	330	10-1-6	0.03
35	32,9539	103,5695	2-08	0-20	703-11/18/74-13	10-10	0.5	-	9.5	330	13-1-6	0.29
35	32,9582	103,5931	2-08	0-20	704-11/18/74-16	10-10	0.5	-	9.5	330	13-1-6	1.49
35	32,9629	103,6139	2-08	0-20	705-11/18/74-16	10-10	0.5	-	9.1	500	12-1-6	3.73
35	32,9955	103,6236	2-08	0-20	706-11/18/74-16	10	0.5	-	9.0	400	13-1-6	1.80
35	32,9362	103,6038	2-10	0-20	707-11/18/74-15	10-10	0.5	-	9.5	230	7-1-6	0.48
35	32,8092	103,6040	2-08	0-20	709-11/18/74-15	10-10	0.5	-	7.5	550	7-1-6	0.80
35	32,9422	103,6073	2-08	0-20	711-11/18/74-15	10-10	0.5	-	9.2	500	19-1-6	3.18
35	32,9222	103,6073	2-08	0-20	711-11/18/74-15	10-10	0.5	-	9.2	500	20-1-6	3.18
35	32,4958	103,1439	2-08	0-20	714-11/18/74-10	14	0.0	-	9.7	700	20-1-6	3.18
35	32,4830	103,1439	2-08	0-20	715-11/18/74-11	20-13	0.0	-	7.6	1400	13-1-6	6.12
35	32,4782	103,1439	2-08	0-20	715-11/18/74-12	20-13	0.0	-	7.3	1750	6-1-6	21.80
35	32,4150	103,2275	2-08	0-20	723-11/18/74-13	21-12	0.0	-	6.9	1700	9-1-6	3.37
35	32,4361	103,2100	2-08	0-20	725-11/18/74-13	21-12	0.0	-	7.2	900	15-1-6	0.12
35	32,4017	103,1528	2-08	0-20	728-11/18/74-14	21-12	0.0	-	4.1	700	7-1-6	3.24
35	32,3850	103,1846	2-08	0-20	730-11/18/74-15	21-13	0.0	-	7.6	900	10-1-6	7.44
35	32,3932	103,1267	2-08	0-20	732-11/18/74-15	20-12	0.0	-	7.3	500	13-1-6	4.74
35	32,4283	103,1178	2-09	0-20	732-11/18/74-15	20-12	0.0	-	7.5	750	3-1-6	6.43
35	32,4142	103,1066	2-08	0-20	733-11/18/74-15	20-12	0.0	-	9.9	1300	4-1-6	6.80
35	32,4276	103,0214	2-08	0-20	737-11/18/74-15	10-12	0.0	-	9.1	350	10-1-6	2.55
48	32,4119	103,0191	2-08	0-20	738-11/20/74-9	14-16	0.0	-	7.1	500	6-1-6	1.00
48	32,4603	103,0444	2-08	0-20	739-11/20/74-9	15-12	0.0	-	7.3	500	4-1-6	3.38
48	32,4961	103,0149	2-08	0-20	742-11/20/74-9	14-12	0.0	-	7.9	1500	7-1-6	3.02
35	32,4483	103,0792	2-06	0-20	745-11/20/74-10	17	0.5	-	6.0	550	6-1-6	1.32
35	32,4672	103,0916	2-08	0-20	747-11/20/74-10	10-15	0.0	-	9.5	950	4-1-6	1.01
35	32,5172	103,0644	2-08	0-20	749-11/20/74-11	20-12	0.0	-	7.9	700	9-1-6	1.01
35	32,3328	103,1567	2-08	0-20	752-11/21/74-9	12-10	0.0	-	9.7	800	6-1-6	1.56
35	32,3178	103,1487	2-08	0-20	754-11/21/74-9	10	0.0	-	7.9	900	6-1-6	7.24
48	32,3450	103,0356	2-08	0-20	761-11/21/74-10	11-10	0.0	-	7.8	2150	6-1-6	3.82
48	32,3642	103,0128	2-08	0-20	762-11/21/74-11	13-10	0.0	-	9.1	3500	4-1-6	2.71
48	32,3603	103,0533	2-08	0-20	763-11/21/74-11	12	0.5	-	7.5	3500	4-1-6	1.34
48	32,2620	103,0456	2-08	0-20	769-11/21/74-13	15-11	0.0	-	9.0	3700	6-1-6	4.14
35	32,3611	103,1728	2-08	0-20	771-11/21/74-12	15-11	0.0	-	9.8	1300	3-1-6	2.43
35	32,3346	103,2017	2-08	0-20	777-11/21/74-13	17-10	0.0	-	7.3	750	1-1-6	5.77
35	32,2761	103,1739	2-08	0-20	777-11/21/74-14	17-11	0.5	-	6.8	1350	3-1-6	3.74
35	32,2593	103,1637	2-08	0-20	779-11/21/74-15	17-11	0.0	-	9.2	900	2-1-6	3.45
35	32,2730	103,1275	2-08	0-20	780-11/21/74-15	14-12	0.0	-	9.1	300	4-1-6	3.00
35	32,2877	103,1233	2-08	0-20	781-11/21/74-15	14-11	0.0	-	9.0	1300	9-1-6	4.03
35	32,2544	103,1353	2-08	0-20	782-11/21/74-15	15-10	0.0	-	7.6	1300	15-1-6	3.74
35	32,2796	103,1353	2-08	0-20	783-11/22/74-9	14-10	0.0	-	9.0	500	7-1-6	2.27
35	32,2796	103,1353	2-08	0-20	783-11/22/74-9	14-10	0.0	-	9.0	500	6-1-6	2.33
35	32,2796	103,1353	2-08	0-20	783-11/22/74-9	14-10	0.0	-	9.0	500	9-1-6	1.34
35	32,2796	103,1353	2-08	0-20	783-11/22/74-9	14-10	0.0	-	9.0	500	6-1-6	1.34
35	32,2796	103,1353	2-08	0-20	783-11/22/74-9	14-10	0.0	-	9.0	500	7-1-6	0.54
35	32,2796	103,1353	2-08	0-20	783-11/22/74-9	14-10	0.0	-	9.0	500	6-1-6	0.54
35	32,2796	103,1353	2-08	0-20	783-11/22/74-9	14-10	0.0	-	9.0	500	7-1-6	1.42
35	32,2796	103,1353	2-08	0-20	783-11/22/74-9	14-10	0.0	-	9.0	500	6-1-6	1.32
35	32,2796	103,1353	2-08	0-20	783-11/22/74-9	14-10	0.0	-	9.0	500	6-1-6	1.24

APPENDIX B-1 (continued). Field Data and Uranium Concentrations for Water Samples Hobbs

[illegible]

APPENDIX B-1 (continued). Field Data and Uranium Concentrations for Water Samples Hobbs

DOE SAMPLE NUMBER						LAST SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION							
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REF DATE	LAST SAMPLE LOCATION NUMBER	TIME SAMPLED		AD THERMAL OF WATER TEMPERATURE OF	WATER TEMPERATURE OF	CHLOROPHYLL A	PHEOPIGMENTS	PH	SILICA	TOTAL SOLIDS	TOTAL SUSPENDED SOLIDS	DISSOLVED SOLIDS	NITROGEN	AMMONIA NITROGEN	NITRATE NITROGEN	NITRATES + NITRITES	NITROGEN	PHOSPHORUS	AMMONIUM PHOSPHORUS	PHOSPHATE PHOSPHORUS	PHOSPHORUS	MAGNESIUM	CALCIUM	MELTEMP	MELTEMP	WATER TEMP	WATER TEMP	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DNC-1A UNITS IN DBB
							DAY	HOUR																									
35-32	7453	-103	5804	-2-08-		n-0000887	-12/01/74	-14-	11-13	0-00	-	5.8	393	0-1-6	-	-	-	-	-3-2-2-2-	-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	0.73
35-32	7984	-103	5734	-2-08-		n-0000889	-12/01/74	-14-	11-13	5-13	-	7.0	457	0-1-6	-	-	-	-	-3-2-2-2-	-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	0.50
35-32	7944	-103	5250	-2-08-		n-0000891	-12/01/74	-15-	4-13	5-13	-	7.0	597	0-1-6	-	-	-	-	-3-2-1-2-	-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	0.52
35-32	7694	-103	5128	-2-08-		n-0000892	-12/01/74	-15-	5-13	5-13	-	7.6	500	0-1-6	-	-	-	-	-3-2-1-2-	-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	1.23
35-32	8117	-103	5128	-2-08-		n-0000892	-12/01/74	-15-	5-13	5-13	-	7.3	357	0-1-6	-	-	-	-	-3-2-1-2-	-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	0.92
35-32	9153	-103	5537	-2-08-		n-0000894	-12/01/74	-15-	5-11	0-00	-	7.1	500	0-1-6	-	-	-	-	-3-2-1-2-	-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	0.73
35-32	9083	-103	5137	-2-08-		n-0000895	-12/01/74	-15-	5-12	0-00	-	7.2	497	0-1-6	-	-	-	-	-3-2-1-2-	-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	1.81
35-32	9056	-103	8514	-2-08-		n-0000898	-12/02/74	-12-	12-4	0-00	-	8.2	900	0-1-6	-	-	-	-	-3-2-1-2-	-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	2.23
35-32	7700	-103	8153	-2-08-		n-0000900	-12/02/74	-13-	12-7	0-00	-	8.3	607	0-1-6	-	-	-	-	-3-3-1-1-	-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.31
35-32	8561	-103	7411	-2-08-		n-0000902	-12/02/74	-13-	12-11	0-00	-	5.8	480	0-1-6	-	-	-	-	-3-2-2-1-	-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	1.15
35-32	9014	-103	7044	-2-08-		n-0000905	-12/02/74	-14-	12-8	0-00	-	5.8	590	0-1-6	-	-	-	-	-4-3-1-1-	-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	0.86
35-32	9153	-103	8447	-2-08-		n-0000907	-12/02/74	-15-	12-15	0-00	-	5.9	500	0-1-6	-	-	-	-	-4-3-1-1-	-1-3-	-	-	-	-	-	-	-	-	-	-	-	-	1.35
35-32	9222	-103	8319	-2-08-		n-0000908	-12/02/74	-15-	12-5	0-00	-	7.0	525	0-1-6	-	-	-	-	-4-3-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	1.45
35-32	9972	-103	8319	-2-08-		n-0000911	-12/02/74	-15-	12-0	0-00	-	5.6	500	0-1-6	-	-	-	-	-4-3-1-1-	-1-3-	-	-	-	-	-	-	-	-	-	-	-	-	1.45
35-32	9644	-103	8417	-2-08-		n-0000912	-12/02/74	-15-	12-0	0-00	-	7.2	450	0-1-6	-	-	-	-	-4-3-1-1-	-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	1.25
35-32	9974	-103	7700	-2-08-		n-0000915	-12/02/74	-15-	10-10	0-00	-	7.1	480	0-1-6	-	-	-	-	-4-3-1-1-	-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	2.37
35-32	9792	-103	7453	-2-08-		n-0000916	-12/02/74	-16-	10-8	0-00	-	7.2	330	0-1-6	-	-	-	-	-4-3-1-1-	-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.05
35-32	7972	-103	8417	-2-08-		n-0000920	-12/03/74	-10-	12-11	0-00	-	9.6	450	0-1-6	-	-	-	-	-3-3-2-1-	-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
35-32	8208	-103	9093	-2-08-		n-0000927	-12/03/74	-12-	14-11	0-00	-	9.0	330	0-1-6	-	-	-	-	-3-3-2-1-	-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
35-32	9125	-103	9274	-2-08-		n-0000931	-12/03/74	-13-	14-12	5-00	-	7.5	1400	0-1-6	-	-	-	-	-3-3-2-1-	-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	4.87
35-32	9425	-103	8774	-2-10-		n-0000934	-12/03/74	-14-	13-11	0-00	-	4.00	120	0-1-6	-	-	-	-	-3-3-2-1-	-2-	-	-	-	-	-	-	-	-	-	-	-	-	0.29
35-32	9597	-103	8774	-2-08-		n-0000937	-12/03/74	-14-	13-12	5-00	-	7.5	450	0-1-6	-	-	-	-	-3-3-2-1-	-2-	-	-	-	-	-	-	-	-	-	-	-	-	3.06
35-32	7556	-103	9847	-2-08-		n-0000939	-12/03/74	-15-	14-10	0-00	-	3.6	503	0-1-6	-	-	-	-	-3-3-1-1-	-2-0-	-	-	-	-	-	-	-	-	-	-	-	-	3.66
35-32	8722	-103	7972	-2-10-		n-0000953	-12/03/74	-15-	13-10	5-00	-	7.2	300	0-1-6	-	-	-	-	-3-3-1-1-	-2-	-	-	-	-	-	-	-	-	-	-	-	-	0.35
35-32	8208	-103	9134	-2-08-		n-0000954	-12/03/74	-16-	11-10	0-00	-	5.9	450	0-1-6	-	-	-	-	-3-3-2-1-	-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	0.77
35-32	8431	-103	9151	-2-08-		n-0000957	-12/05/74	-12-	11-11	0-00	-	9.5	620	0-1-6	-	-	-	-	-3-3-2-1-	-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	0.78
35-32	9181	-103	9810	-2-08-		n-0000959	-12/05/74	-12-	14-10	0-00	-	9.1	640	0-1-6	-	-	-	-	-3-3-1-1-	-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	0.85

Appendix B-II

Listings of Field Data and Uranium Concentrations for Water Samples
from the New Mexico Portion of the Brownfield NTMS Quadrangle

(See Appendix D for Code to Listings)

APPENDIX B-II. Field Data and Uranium Concentrations for Water Samples Brownfield

DOE SAMPLE NUMBER						LAST SAMPLE LOCATION NUMBER AND FIELD DATA																											CONCENTRATION	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REF. CASE	AN. SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPEC. C. CONDUCTANCE	T. OF WTE.	P. OF WTE.	DATE	TIME	DO	CHLOROPHYLL	PHOSPHATE	NITRATE	AMMONIA	SILICA	MANGANESE	IRON	COPPER	ZINC	CADMIUM	LEAD	COBALT	MOLYBDENUM	ANTHRACENE	FLUORENTHYL	OR CONC.	UNITS N PPB
							DATE	TIME																										
35-33,0994-103.6481-2-08-	n-001001-11/12/76-12-	-2-15.1-C-	7.2-	400-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17		
35-33,1281-103.6472-2-08-	n-001002-11/12/76-12-	-2- 9.1-C-	7.8-	400-	2-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.78	
35-33,1169-103.6767-2-08-	n-001003-11/12/76-12-	-2- 4.0-C-	8.2-	400-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.94	
35-33,1139-103.7189-2-08-	n-001004-11/12/76-13-	-3- 6.0-C-	7.2-	400-	2-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.47	
35-33,0911-103.7250-2-08-	n-001005-11/12/76-13-	-3- 6.2-C-	8.0-	450-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70	
35-33,0539-103.6928-2-08-	n-001009-11/12/76-16-	-2-15.1-C-	7.1-	450-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.77	
35-33,0336-103.6458-2-08-	n-001010-11/12/76-16-	-2-10.1-	7.2-	430-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.83	
35-33,0197-103.6342-2-08-	n-001013-11/12/76-17-	-3-15.1-C-	7.2-	400-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.04	
35-33,9553-103.7104-2-08-	n-001016-11/14/76- 8-	1-15.1-C-	7.1-	2800-	9-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.000	
35-33,9769-103.7178-2-08-	n-001017-11/14/76- 8-	1-15.1-C-	7.2-	1250-	5-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.700	
35-33,8900-103.6669-2-08-	n-001023-11/14/76-11-	7- 5.0-C-	7.4-	1450-	3-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.01	
35-33,8781-103.6375-2-08-	n-001024-11/14/76-11-	7-15.9-C-	7.7-	1350-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.200	
35-33,8853-103.5803-2-08-	n-001025-11/14/76-11-	7-15.2-C-	7.5-	1350-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.41	
35-33,8992-103.6134-2-08-	n-001027-11/14/76-11-	7-14.9-C-	7.4-	1400-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.56	
35-33,9064-103.6314-2-08-	n-001028-11/14/76-16-	7- 4.0-C-	7.5-	900-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.71	
35-33,9306-103.6639-2-08-	n-001029-11/14/76-14-	7- 5.0-C-	8.2-29000-	3-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.200	
35-33,9375-103.6317-2-08-	n-001030-11/14/76-16-	6-22.1-C-	7.6-	1400-	9-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.34	
35-33,8750-103.5104-2-08-	n-001032-11/14/76-16-	6- 1.0-C-	7.6-	400-	12-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.45	
35-33,9375-103.5317-2-08-	n-001034-11/14/76-17-	5-15.1-C-	7.5-	1800-	5-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.80	
35-33,9697-103.5433-2-08-	n-001036-11/15/76- 7-	7-13.9-C-	7.1-33000-	6-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44.700	
35-33,9867-103.5842-2-08-	n-001040-11/15/76- 9-	8-15.5-C-	7.2-	1000-	6-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.800	
35-33,9461-103.6025-2-08-	n-001041-11/15/76- 9-	8-15.4-C-	7.1-28000-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.800	
35-33,8650-103.4139-2-08-	n-001045-11/15/76-12-	8-16.1-C-	7.2-	1100-	5-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.25	
35-33,4739-103.2547-2-08-	n-001046-11/12/76-13-	5- 4.2-C-	7.8-	900-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.86	
35-33,4486-103.3711-2-08-	n-001047-11/12/76-13-	5-14.2-	7.2-	1450-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.29	
35-33,4467-103.3492-2-08-	n-001048-11/12/76-14-	5-12.2-	7.3-	1150-	4-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.43	
35-33,4594-103.3158-2-08-	n-001049-11/12/76-15-	3- 2.4-	7.6-	1200-	11-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														

Brownfield

[illegible]

Brownfield

[illegible]

Brownfield

[illegible]

APPENDIX B-II (continued). Field Data and Uranium Concentrations for Water Samples Brownfield

DOE SAMPLE NUMBER				ASL SAMPLE LOCATION NUMBER AND FIELD DATA										CONCENTRATION	
STATE	LATITUDE	LONGITUDE	TIME SAMPLED	ASL SAMPLE NUMBER	ASL LOCATION NUMBER	ASL LOCATION NUMBER	ASL LOCATION NUMBER	ASL LOCATION NUMBER	ASL LOCATION NUMBER	ASL LOCATION NUMBER	ASL LOCATION NUMBER	ASL LOCATION NUMBER	ASL LOCATION NUMBER	WATER SAMPLES	ANALYZED BY
48-33,2261-103,0256-2-08-	n-001318-11/07/74-11-	11-15,2-0-	6.5	1800-	4-1-1-	-3-3-1-	-4-2-1-3-	-1-8-	-	-	-	-	-	2.45	
48-33,1681-103,0089-2-08-	n-001319-11/07/74-11-	12-10,2-0-	8.1	850-	4-1-1-	-2-3-1-	-4-2-2-2-	-1-8-	-	-	-	-	-	6.42	
48-33,1622-103,0244-2-08-	n-001320-11/07/74-12-	14-16,2-	6.8	1200-	13-1-1-	-3-3-1-	-4-2-2-2-	-1-1-	4-	-	-	-	-	6.02	
35-33,4500-103,4067-2-08-	n-001321-11/06/74-14-	24-14,5-0-	8.6	2400-	2-1-1-	-1-1-	-4-3-2-1-	-3-1-	-	-	-	-	-	0.78	
35-33,4864-103,3917-2-08-	n-001322-11/06/74-14-	24-17,1-0-	9.4	800-	2-1-1-	-1-1-	-4-3-2-1-	-3-1-	-	-	-	-	-	0.84	
35-33,5194-103,3917-2-08-	n-001323-11/06/74-15-	22-14,1-0-	7.7	1100-	2-1-1-	-1-1-	-4-3-2-1-	-3-1-	-	-	-	-	-	1.79	
35-33,4978-103,4428-2-08-	n-001325-11/07/76-7-	4-1,1-0-	6.8	1700-	2-1-1-	-1-1-	-4-3-2-3-	-3-1-	-	-	-	-	-	0.20	
35-33,5039-103,4692-2-08-	n-001326-11/07/76-7-	4-12,1-0-	7.7	1200-	3-1-1-	-3-1-	-4-3-2-3-	-1-1-	-	-	-	-	-	1.71	
35-33,5631-103,4686-2-08-	n-001329-11/07/76-4-	4-2,1-0-	8.5	700-	4-1-1-	-1-1-	-4-3-2-3-	-3-1-	-	-	-	-	-	3.65	
35-33,5600-103,4389-2-08-	n-001330-11/07/76-9-	5-3,1-0-	9.3	700-	4-1-1-	-1-1-	-4-3-2-3-	-3-1-	-	-	-	-	-	4.02	
35-33,6228-103,4014-2-08-	n-001334-11/07/76-9-	8-2,1-0-	8.5	1600-	5-1-1-	-2-1-	-4-3-2-3-	-3-3-	-	-	-	-	-	4.71	
35-33,5914-103,4097-2-08-	n-001335-11/07/74-10-	8-14,1-0-	7.4	2100-	4-1-1-	-2-1-	-4-3-2-3-	-1-1-	-	-	-	-	-	2.71	
35-33,6133-103,4892-2-08-	n-001338-11/07/76-11-	10-1-0-	9.2	1200-	3-1-1-	-1-1-	-4-3-2-3-	-3-1-	-	-	-	-	-	0.45	
35-33,5833-103,4850-2-08-	n-001339-11/07/74-11-	11-12,1-0-	7.6	1000-	3-1-1-	-2-1-	-4-3-2-3-	-1-8-	-	-	-	-	-	0.41	
35-33,5747-103,5050-2-08-	n-001340-11/07/74-12-	12-10,2-0-	8.7	1000-	1-1-1-	-1-1-	-4-3-2-2-	-3-1-	-	-	-	-	-	3.79	
48-33,1272-103,0047-2-08-	n-001343-11/07/76-12-	13-17,2-	6.8	1100-	18-1-1-	-3-3-1-	-4-3-2-2-	-1-8-	-	-	-	-	-	4.03	
35-33,1522-103,1096-2-08-	n-001344-11/07/76-12-	15-16,4-	6.8	800-	2-1-1-	-3-3-1-	-4-2-2-2-	-1-1-	1-	-	-	-	-	0.47	
35-33,1808-103,1089-2-08-	n-001345-11/07/76-12-	15-16,6-	6.7	1300-	4-1-1-	-3-3-1-	-4-2-2-2-	-1-1-	4-	-	-	-	-	4.90	
35-33,1672-103,0953-2-08-	n-001346-11/07/76-12-	15-16,8-	6.7	1000-	13-1-1-	-3-3-1-	-4-2-2-2-	-1-1-	4-	-	-	-	-	1.30	
35-33,1608-103,0800-2-08-	n-001347-11/07/76-13-	15-17,8-	6.7	600-	4-1-1-	-3-3-1-	-4-2-2-2-	-1-1-	3-	-	-	-	-	0.46	
35-33,1956-103,1122-2-08-	n-001348-11/07/76-14-	15-10,2-0-	7.8	850-	2-1-1-	-2-3-1-	-4-2-2-2-	-3-1-	3-	-	-	-	-	1.82	
35-33,2414-103,0764-2-08-	n-001349-11/07/76-14-	15-17,2-	6.7	1025-	4-1-1-	-3-3-1-	-4-2-1-2-	-1-1-	1-	-	-	-	-	2.03	
35-33,2308-103,0844-2-08-	n-001350-11/07/76-15-	15-17,2-	6.4	3100-	4-1-1-	-3-3-1-	-4-2-1-2-	-1-8-	60-	-	-	-	-	1.70	
35-33,2489-103,1081-2-08-	n-001351-11/07/76-16-	16-17,2-	6.7	1250-	11-1-1-	-3-3-1-	-4-2-2-2-	-1-1-	3-	-	-	-	-	3.04	
35-33,2339-103,1281-2-08-	n-001353-11/07/76-16-	16-16,2-0-	6.7	1000-	4-1-1-	-3-3-1-	-4-2-1-2-	-1-1-	4-	-	-	-	-	3.49	
35-33,1811-103,1264-2-08-	n-001354-11/07/76-16-	15-16,2-0-	6.6	775-	9-1-1-	-2-3-1-	-4-2-2-2-	-3-1-	3-	-	-	-	-	3.09	
35-33,2258-103,1367-2-08-	n-001355-11/07/76-17-	13-14,8-	6.6	900-	4-1-1-	-3-3-1-	-4-2-1-2-	-1-1-	3-	-	-	-	-	1.74	
35-33,2367-103,1733-2-08-	n-001356-11/07/76-17-	12-14,6-	6.9	1100-	4-1-1-	-2-3-1-	-4-2-1-2-	-3-1-	3-	-	-	-	-	2.64	
35-33,2436-103,2311-2-08-	n-001357-11/08/76-10-	17-15,2-	6.5	950-	9-1-1-	-3-3-1-	-4-2-1-1-	-1-1-	6-	-	-	-	-	1.05	
35-33,2275-103,2567-2-08-	n-001358-11/08/76-11-	18-16,2-	6.6	1050-	2-1-1-	-3-3-1-	-4-2-2-1-	-1-1-	4-	-	-	-	-	2.78	
35-33,2381-103,2719-2-08-	n-001359-11/08/76-11-	18-17,2-	6.5	1650-	11-1-1-	-3-3-1-	-4-2-2-1-	-1-1-	3-	-	-	-	-	4.58	
35-33,2306-103,2956-2-08-	n-001360-11/08/76-11-	18-17,2-	6.8	1100-	4-1-1-	-3-3-1-	-4-2-2-1-	-1-1-	4-	-	-	-	-	1.67	
35-33,2056-103,2375-2-08-	n-001361-11/08/76-12-	19-15,6-	6.7	950-	9-1-1-	-3-3-1-	-4-2-2-1-	-1-1-	4-	-	-	-	-	2.73	
35-33,1689-103,2489-2-08-	n-001362-11/08/76-12-	19-16,8-	6.5	775-	6-1-1-	-3-3-1-	-4-2-2-1-	-1-1-	4-	-	-	-	-	1.67	
35-33,1647-103,2322-2-08-	n-001363-11/08/76-12-	19-13,6-	6.6	700-	4-1-1-	-3-3-1-	-4-2-1-1-	-1-1-	4-	-	-	-	-	2.10	
35-33,1833-103,1928-2-08-	n-001364-11/08/76-13-	19-17,2-	6.8	800-	4-1-1-	-3-3-1-	-4-2-1-1-	-1-1-	4-	-	-	-	-	1.58	
35-33,2200-103,2089-2-08-	n-001365-11/08/76-12-	20-16,8-	6.5	1000-	4-1-1-	-3-3-1-	-4-2-1-1-	-1-1-	5-	-	-	-	-	3.14	
35-33,1700-103,1750-2-08-	n-001366-11/08/76-13-	20-17,2-	6.4	700-	6-1-1-	-3-3-1-	-4-2-2-1-	-1-1-	3-	-	-	-	-	1.76	
35-33,1833-103,1619-2-08-	n-001367-11/08/76-14-	21-17,4-	6.7	750-	4-1-1-	-3-3-1-	-4-2-2-1-	-1-1-	4-	-	-	-	-	1.92	
35-33,5067-103,5281-2-08-	n-001368-11/07/76-13-	14-11,5-0-	8.9	800-	2-1-1-	-2-1-	-4-3-2-1-	-1-1-	-	-	-	-	-	0.69	
35-33,5275-103,5297-2-08-	n-001369-11/07/76-14-	15-11,9-0-	8.7	980-	2-1-1-	-1-1-	-4-3-2-1-	-3-1-	-	-	-	-	-	1.77	
35-33,5422-103,5808-2-08-	n-001371-11/07/76-16-	16-9,1-0-	7.3	1000-	5-1-1-	-2-1-	-4-3-2-1-	-1-1-	-	-	-	-	-	16.70	
35-33,5692-103,6144-2-08-	n-001373-11/07/76-16-	16-9,2-0-	9.0	1250-	4-1-1-	-1-1-	-4-3-2-1-	-3-1-	-	-	-	-	-	20.20	
35-33,6139-103,6194-2-08-	n-001374-11/07/76-16-	17-9,1-0-	8.4	1450-	8-1-1-	-1-1-	-4-3-2-1-	-3-1-	-	-	-	-	-	7.59	
35-33,5808-103,5489-2-08-	n-001378-11/07/76-17-	14-19,1-0-	7.4	1100-	2-1-1-	-2-1-	-4-3-2-1-	-1-8-	-	-	-	-	-	2.21	
35-33,5256-103,6747-2-08-	n-001381-11/08/76-12-	17-12,6-0-	7.4	1200-	4-1-1-	-1-1-	-4-3-2-1-	-3-8-	-	-	-	-	-	5.10	
35-33,5578-103,6769-2-08-	n-001382-11/08/76-12-	17-11,9-0-	8.3	900-	2-1-1-	-1-1-	-4-3-2-1-	-3-1-	-	-	-	-	-	6.74	
35-33,5669-103,6583-2-08-	n-001383-11/08/76-12-	17-16,9-0-	7.2	850-	4-1-1-	-3-1-	-4-3-2-1-	-1-1-	-	-	-	-	-	2.12	
35-33,5975-103,6519-2-08-	n-001384-11/08/76-12-	17-17,1-0-	7.2	700-	2-1-1-	-2-1-	-4-3-2-1-	-1-3-	-	-	-	-	-	5.90	
35-33,6136-103,6722-2-08-	n-001385-11/08/76-12-	17-18,1-0-	7.9	1900-	5-1-1-	-2-1-	-4-3-2-1-	-1-1-	-	-	-	-	-	7.78	
35-33,5939-103,7489-2-08-	n-001387-11/08/76-13-	17-11,5-0-	8.3	3400-	3-1-1-	-1-1-	-4-3-2-1-	-3-1-	-	-	-	-	-	0.96	

APPENDIX B-II (continued). Field Data and Uranium Concentrations for Water Samples Brownfield

[illegible]

APPENDIX B (continued). Field Data and Uranium Concentrations for Water Samples

STATE	LATITUDE	LONGITUDE	TIME AB	SAMPLE TYPE	DATE	TIME SAMPLED	LAST SAMPLE LOCATION NUMBER AND FIELD DATA										CONCENTRATION	
																	U-238	U-235
35-33	0647	103.3133	-2-08				0-001442	11/09/76	13	28-16.4-C	7.7	400	4-1-1	-2-3-1	-3-1-1	-3-1-1	1.77	
35-33	2942	103.6106	-2-08				0-001443	11/09/76	13	23-18.1-C	7.6	400	2-1-1	-1-1	-4-3-2-1	-3-1-1	1.47	
35-33	2719	103.6200	-2-08				0-001444	11/09/76	13	24-18.1-C	7.3	700	3-1-1	-2-1	-4-3-2-1	-3-1-1	1.47	
35-33	2533	103.5717	-2-08				0-001445	11/09/76	13	24-17.5-C	7.2	800	4-1-1	-3-1	-4-3-2-1	-3-1-1	0.50	
35-33	2606	103.5478	-2-08				0-001446	11/09/76	14	24-17.1-C	7.5	750	3-1-1	-1-1	-4-3-2-1	-3-1-1	0.56	
35-33	2722	103.5372	-2-08				0-001447	11/09/76	14	24-19.9-C	7.2	1000	4-1-1	-2-1	-4-3-2-1	-3-1-1	1.56	
35-33	2981	103.5153	-2-08				0-001448	11/09/76	14	24-19.5-C	7.6	450	4-1-1	-2-1	-4-3-2-1	-3-1-1	1.71	
35-33	3203	103.5439	-2-08				0-001449	11/09/76	15	25-18.2-C	7.3	1750	2-1-1	-1-1	-4-3-2-1	-3-1-1	3.45	
35-33	3697	103.5047	-2-08				0-001450	11/09/76	14	25-15.0-C	8.1	450	2-1-1	-1-1	-4-3-2-1	-3-1-1	2.49	
35-33	3600	103.5369	-2-08				0-001451	11/09/76	14	24-13.5-C	7.9	450	2-1-1	-1-1	-4-3-2-1	-3-1-1	1.98	
35-33	3389	103.5361	-2-08				0-001452	11/09/76	16	24-14.1-C	7.9	750	5-1-1	-1-1	-4-3-2-1	-3-1-1	2.08	
35-33	3308	103.5078	-2-08				0-001453	11/09/76	16	23-15.1-C	8.0	700	3-1-1	-1-1	-4-3-2-1	-3-1-1	4.73	
35-33	3639	103.5872	-2-08				0-001454	11/09/76	16	24-12.1-C	7.1	1650	2-1-1	-2-1	-4-3-2-1	-3-1-1	3.45	
35-33	3611	103.5850	-2-08				0-001455	11/09/76	16	23-16.9-C	7.1	800	4-1-1	-3-1	-4-3-2-1	-3-1-1	0.29	
35-33	3742	103.6103	-2-08				0-001456	11/09/76	16	22-11.9-C	7.7	450	3-1-1	-1-1	-4-3-2-1	-3-1-1	1.86	
35-33	3403	103.6236	-2-08				0-001457	11/09/76	17	22-11.5-C	7.8	750	2-1-1	-1-1	-4-3-2-1	-3-1-1	1.45	
35-33	3644	103.6397	-2-08				0-001458	11/09/76	17	20-11.2-C	7.5	400	5-1-1	-1-1	-4-3-2-1	-3-1-1	1.48	
35-33	3672	103.6686	-2-08				0-001459	11/10/76	7	13-9.2-C	7.0	800	3-1-1	-1-1	-4-3-2-1	-3-1-1	0.41	
35-33	3228	103.6722	-2-08				0-001460	11/10/76	8	13-8.9-C	7.0	500	3-1-1	-1-1	-4-3-2-1	-3-1-1	2.24	
35-33	3225	103.6469	-2-08				0-001461	11/10/76	8	13-9.1-C	7.6	1100	4-1-1	-1-1	-4-3-2-1	-3-1-1	3.41	
35-33	3428	103.6717	-2-08				0-001462	11/10/76	9	13-12.5-C	7.4	700	4-1-1	-2-1	-4-3-2-1	-3-1-1	0.94	
35-33	2972	103.6478	-2-08				0-001463	11/10/76	9	17-12.9-C	7.7	800	5-1-1	-1-1	-4-3-2-1	-3-1-1	4.84	
35-33	2683	103.6436	-2-08				0-001464	11/10/76	9	17-12.1-C	7.6	700	4-1-1	-1-1	-4-3-2-1	-3-1-1	3.47	
35-33	2808	103.6783	-2-08				0-001465	11/10/76	9	18-14.1-C	7.5	1300	3-1-1	-1-1	-4-3-2-1	-3-1-1	0.20	
35-33	3425	103.6947	-2-08				0-001466	11/10/76	9	18-14.1-C	7.7	1000	3-1-1	-1-1	-4-3-2-1	-3-1-1	1.33	
35-33	2703	103.7153	-2-08				0-001467	11/10/76	10	19-17.1-C	8.1	1200	5-1-1	-1-1	-4-3-2-1	-3-1-1	3.78	
35-33	3061	103.7147	-2-08				0-001468	11/10/76	10	20-13.5-C	7.5	1200	4-1-1	-1-1	-4-3-2-1	-3-1-1	2.94	
35-33	3194	103.7364	-2-08				0-001469	11/10/76	10	20-15.1-C	7.5	1175	5-1-1	-1-1	-4-3-2-1	-3-1-1	3.57	
35-33	3425	103.7486	-2-08				0-001470	11/10/76	10	20-13.9-C	6.5	1300	2-1-1	-2-1	-4-3-2-1	-3-1-1	3.58	
35-33	3694	103.7142	-2-08				0-001471	11/10/76	10	21-17.9-C	7.0	1450	3-1-1	-1-1	-4-3-2-1	-3-1-1	8.01	
35-33	2542	103.7472	-2-08				0-001472	11/10/76	10	22-17.1-C	7.1	850	3-1-1	-3-1	-4-3-2-1	-3-1-1	4.49	
35-33	2542	103.7472	-2-08				0-001473	11/10/76	11	22-16.1-C	9.2	1250	4-1-1	-1-1	-4-3-2-1	-3-1-1	4.46	
35-33	2133	103.6911	-2-08				0-001474	11/10/76	11	22-18.2-C	7.3	900	1-1-1	-3-1	-4-3-2-1	-3-1-1	2.43	
35-33	1911	103.6967	-2-08				0-001475	11/10/76	11	23-17.5-C	7.2	900	5-1-1	-3-1	-4-3-2-1	-3-1-1	2.80	
35-33	2053	103.7386	-2-08				0-001476	11/10/76	11	23-10.1-C	7.6	700	4-1-1	-5-6-1	-3-3-1	-16	1.41	
35-33	2053	103.7486	-2-08				0-001477	11/10/76	12	23-13.9-C	7.4	740	4-1-1	-5-6-1	-3-3-1	-16	1.02	
35-33	1764	103.7386	-2-08				0-001478	11/10/76	12	24-21.2-C	7.3	400	3-1-1	-2-1	-4-3-2-1	-3-1-1	1.78	
35-33	1633	103.7414	-2-09				0-001479	11/10/76	13	24-18.9-C	7.2	450	2-1-1	-2-1	-4-3-2-1	-3-1-1	0.12	
35-33	0364	103.3181	-2-08				0-001480	11/10/76	13	23-13.1-C	7.5	400	4-1-1	-5-6-1	-3-3-1	-3	0.12	
35-33	0183	103.2369	-2-08				0-001481	11/09/76	14	28-13.4-C	6.9	800	4-1-1	-3-3-1	-4-3-2-1	-3-1-1	3.54	
35-33	0378	103.2128	-2-08				0-001482	11/09/76	15	28-15.4-C	6.8	400	4-1-1	-3-3-1	-4-3-2-1	-3-1-1	1.73	
35-33	0181	103.1903	-2-08				0-001483	11/09/76	15	28-18.2-C	6.5	1000	4-1-1	-2-3-1	-4-3-2-1	-3-1-1	1.46	
35-33	0194	103.1672	-2-08				0-001484	11/09/76	15	28-17.8-C	6.4	475	4-1-1	-3-3-1	-4-3-2-1	-3-1-1	1.44	
35-33	0128	103.1331	-2-08				0-001485	11/09/76	15	28-17.8-C	6.7	750	9-1-1	-3-3-1	-4-3-2-1	-3-1-1	2.46	
35-33	0703	103.1243	-2-08				0-001486	11/09/76	15	28-18.2-C	6.8	400	9-1-1	-3-3-1	-4-3-2-1	-3-1-1	3.25	
35-33	0428	103.2114	-2-08				0-001487	11/09/76	16	26-16.4-C	6.4	700	9-1-1	-3-3-1	-4-3-2-1	-3-1-1	2.49	
35-33	1064	103.1972	-2-08				0-001488	11/10/76	11	26-17.8-C	6.8	400	1-1-1	-3-3-1	-4-3-2-1	-3-1-1	2.38	
35-33	1044	103.1972	-2-08				0-001489	11/10/76	11	26-16.8-C	6.8	750	4-1-1	-3-3-1	-4-3-2-1	-3-1-1	1.20	
35-33	1122	103.1240	-2-08				0-001490	11/10/76	12	26-18.9-C	6.4	800	9-1-1	-3-3-1	-4-3-2-1	-3-1-1	4.22	
35-33	0922	103.1819	-2-08				0-001491	11/10/76	12	27-17.2-C	6.5	750	9-1-1	-3-3-1	-4-3-2-1	-3-1-1	1.76	
35-33	0922	103.1819	-2-08				0-001492	11/10/76	12	27-19.2-C	6.5	1500	2-1-1	-3-3-1	-4-3-2-1	-3-1-1	9.70	

Brownfield

CONCENTRATION
WATER
SAMPLES
ANALYZED BY
SPECTROMETRY
OF DMSO
DATE
1988

APPENDIX B-II (continued). Field Data and Uranium Concentrations for Water Samples Brownfield

[illegible]

APPENDIX B-II (continued). Field Data and Uranium Concentrations for Water Samples Brownfield

STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REF. DATE	DOE SAMPLE NUMBER	TIME SAMPLED				DATE	LAST SAMPLE LOCATION NUMBER AND FIELD DATA										U CONCENTRATION	
35-33	2225-103.4658-2-08					0-001719-11/21/76-10	4-9.1-C	7.1	1200	2-1-1	-3	-1	-4-3-2-1	-1-3	-45	-	-	-	-	-	-	-	1.10
35-33	2206-103.4478-2-08					0-001720-11/21/76-11	11-16.1-C	7.1	700	6-1-1	-2	-1	-4-3-2-1	-1-1	-43	-	-	-	-	-	-	-	1.26
35-33	2267-103.4136-2-08					0-001721-11/21/76-12	11-7.2-C	8.0	1200	4-1-1	-1	-1	-4-3-2-1	-3-1	-	-	-	-	-	-	-	-	3.75
35-33	2022-103.4078-2-08					0-001722-11/21/76-12	12-7.2-C	7.6	950	4-1-1	-1	-3	-4-3-2-1	-3-1	-	-	-	-	-	-	-	-	1.86
35-33	2128-103.3933-2-08					0-001723-11/21/76-12	13-11.1-C	7.6	650	4-1-1	-3	-1	-4-3-2-1	-1-3	-	-	-	-	-	-	-	-	2.50
35-33	2161-103.4017-2-08					0-001724-11/21/76-13	13-16.9-C	7.3	700	3-1-1	-2	-1	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	0.89
35-33	2769-103.3828-2-08					0-001726-11/21/76-14	13-15.1-C	7.1	600	2-1-1	-2	-1	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	2.73
35-33	2939-103.3853-2-08					0-001728-11/21/76-14	13-7.1-C	7.6	700	3-1-1	-1	-1	-4-3-2-1	-1-1	-	-	-	-	-	-	-	-	1.16
35-33	3078-103.3904-2-08					0-001729-11/21/76-14	13-9.2-C	8.2	700	2-1-1	-1	-1	-4-3-2-1	-3-1	-	-	-	-	-	-	-	-	2.42
35-33	3181-103.1689-2-08					0-001732-11/20/76-11	23-15.2-C	9.0	1100	4-1-1	-1	-1	-4-3-2-1	-3-1	-	-	-	-	-	-	-	-	3.14
35-33	4731-103.1819-2-08					0-001734-11/20/76-12	23-13.2-C	7.8	800	4-1-1	-2	-3	-4-3-2-1	-1-1	-3	-	-	-	-	-	-	-	2.21
35-33	4894-103.2133-2-08					0-001735-11/20/76-12	23-13.2-C	8.2	1200	1-1-1	-1	-3	-4-3-2-1	-1-3	-	-	-	-	-	-	-	-	4.83
35-33	4850-103.1689-2-08					0-001736-11/20/76-13	24-15.2-C	7.6	1500	4-1-1	-1	-3	-4-3-2-1	-1-3	-	-	-	-	-	-	-	-	1.82
35-33	4564-103.1511-2-08					0-001737-11/20/76-13	24-13.2-C	9.2	800	9-1-1	-1	-3	-4-3-2-1	-3-1	-4	-	-	-	-	-	-	-	2.20
35-33	4414-103.1175-2-08					0-001738-11/20/76-14	25-14.2-C	8.7	800	4-1-1	-1	-3	-4-3-2-1	-1-1	-3	-	-	-	-	-	-	-	0.81
35-33	4433-103.1114-2-08					0-001739-11/20/76-14	24-11.3-C	7.8	750	1-1-1	-1	-3	-4-3-2-1	-1-1	-3	-	-	-	-	-	-	-	2.40
35-33	4378-103.1422-2-08					0-001740-11/20/76-14	24-12.6-C	8.1	950	2-1-1	-1	-3	-4-3-2-1	-3-1	-6	-	-	-	-	-	-	-	3.01
35-33	4061-103.1483-2-08					0-001741-11/20/76-13	23-11.2-C	8.6	1000	4-1-1	-1	-3	-4-3-2-1	-1-3	-8	-	-	-	-	-	-	-	3.37
35-33	4094-103.1811-2-08					0-001742-11/20/76-15	24-13.2-C	8.3	1800	4-1-1	-1	-3	-4-3-2-1	-1-3	-5	-	-	-	-	-	-	-	0.51
35-33	4103-103.2139-2-08					0-001743-11/20/76-15	24-14.1-C	8.4	1000	4-1-1	-1	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	0.79
35-33	4250-103.2433-2-08					0-001744-11/20/76-15	24-17.2	7.4	1200	2-1-1	-3	-3	-4-3-2-1	-1-1	-3	-	-	-	-	-	-	-	2.21
35-33	4303-103.2092-2-08					0-001745-11/20/76-15	24-14.8-C	8.2	950	4-1-1	-1	-3	-4-3-2-1	-1-1	-9	-	-	-	-	-	-	-	7.48
35-33	4508-103.2011-2-08					0-001746-11/20/76-16	22-12.8-C	8.3	700	6-1-1	-1	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	1.58
35-33	4606-103.1747-2-08					0-001747-11/20/76-16	20-12.8-C	7.9	950	4-1-1	-1	-3	-4-3-2-1	-1-1	-8	-	-	-	-	-	-	-	1.40
35-33	3847-103.2325-2-08					0-001748-11/20/76-16	20-16.1	7.3	1100	4-1-1	-3	-3	-4-3-2-1	-1-1	-8	-	-	-	-	-	-	-	0.48
35-33	3817-103.1108-2-08					0-001749-11/20/76-16	20-16.2	6.9	700	4-1-1	-3	-3	-4-3-2-1	-1-1	-8	-	-	-	-	-	-	-	2.50
35-33	4869-103.0883-2-08					0-001750-11/21/76-10	10-15.2	7.3	1200	2-1-1	-3	-3	-4-3-2-1	-1-1	-10	-	-	-	-	-	-	-	2.26
48-33	4653-103.0528-2-08					0-001751-11/21/76-10	10-11.2	8.4	1250	9-1-1	-3	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	4.74
48-33	4953-103.2325-2-08					0-001753-11/21/76-10	9-4.6-C	8.6	1250	9-1-1	-3	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	1.45
48-33	592-103.0150-2-08					0-001754-11/21/76-10	8-3.1-C	7.5	1150	4-1-1	-1	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	6.16
35-33	4406-103.0808-2-08					0-001756-11/21/76-11	9-10.5	7.6	1200	4-1-1	-3	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	4.55
48-33	4031-103.0039-2-08					0-001758-11/21/76-11	9-14.2	7.6	900	4-1-1	-3	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	1.42
48-33	4117-103.0050-2-08					0-001759-11/21/76-11	9-9.2-C	8.6	1200	2-1-1	-1	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	2.26
35-33	3769-103.0592-2-08					0-001760-11/21/76-12	11-9.4	7.5	900	2-1-1	-3	-3	-4-3-2-1	-1-1	-8	-	-	-	-	-	-	-	2.81
48-33	3833-103.0472-2-08					0-001761-11/21/76-13	13-13.2	7.5	700	4-1-1	-3	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	0.49
35-33	3872-103.0903-2-08					0-001762-11/21/76-14	13-13.1	7.4	750	4-1-1	-3	-3	-4-3-2-1	-1-1	-5	-	-	-	-	-	-	-	2.87
35-33	4047-103.0692-2-08					0-001763-11/21/76-14	15-16.2	7.5	850	1-1-1	-3	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	4.07
48-33	4442-103.0388-2-08					0-001764-11/21/76-14	15-10.1-C	8.1	950	1-1-1	-3	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	5.27
35-33	4664-103.8253-2-08					0-001765-11/21/76-14	15-9.6-C	7.4	950	1-1-1	-3	-3	-4-3-2-1	-1-1	-4	-	-	-	-	-	-	-	1.22
35-33	8469-103.8400-2-08					0-001767-12/29/76-15	14-6.1	8.2	4000	1-1-1	-4	-4	-3-2-1	-3-3	-	-	-	-	-	-	-	-	0.89
35-33	3333-103.8630-2-08					0-001768-12/29/76-16	14-6.1	8.2	4000	1-1-1	-4	-4	-3-2-1	-3-3	-	-	-	-	-	-	-	-	3.09
35-33	4122-103.9678-2-08					0-001769-12/29/76-16	12-7.3	7.5	1100	7-1-1	-4	-4	-3-2-1	-3-3	-	-	-	-	-	-	-	-	8.15
35-33	4675-103.9647-2-08					0-001771-12/30/76-10	12-7.3	7.5	1100	1-1-1	-4	-4	-3-2-1	-3-3	-	-	-	-	-	-	-	-	1.47
35-33	4919-103.9288-2-08					0-001772-12/29/76-11	17-12.0	6.1	2200	1-1-1	-4	-4	-3-2-1	-3-3	-402	-	-	-	-	-	-	-	1.47
35-33	4964-103.8422-2-08					0-001773-12/29/76-12	13-6.0	7.5	800	1-1-1	-4	-4	-3-2-1	-3-3	-	-	-	-	-	-	-	-	2.94
35-33	4969-103.9156-2-10					0-001774-12/29/76-12	18-8.0-C	7.2	2000	1-1-1	-4	-4	-3-2-1	-3-3	-470	-	-	-	-	-	-	-	5.11
35-33	4989-103.9388-2-10					0-001775-12/29/76-13	15-8.0-C	6.3	500	1-1-1	-5	-5	-4-3-2-1	-3	-	-	-	-	-	-	-	-	0.86
35-33	4961-103.9983-2-10					0-001776-12/29/76-14	17-7.0-C	8.1	1400	1-1-1	-5	-5	-4-3-2-1	-3	-	-	-	-	-	-	-	-	2.40
35-33	4436-103.9344-2-10					0-001777-12/29/76-15	17-7.0	8.6	400	1-1-1	-5	-5	-4-3-2-1	-3	-	-	-	-	-	-	-	-	1.44
35-33	4336-103.9728-2-10					0-001778-12/30/76-9	11-4.0	8.7	1300	1-1-1	-6	-7	-1-2-3	-3	-	-	-	-	-	-	-	-	18.70
35-33	4336-103.9728-2-10					0-001779-12/30/76-10	12-4.0	9.2	1000	1-1-1	-6	-7	-1-2-3	-3	-	-	-	-	-	-	-	-	41.50

Brownfield

[illegible]

APPENDIX B-II (continued). Field Data and Uranium Concentrations for Water Samples Brownfield

DOE SAMPLE NUMBER					LAST SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	DEPTH	TIME SAMPLED	DATE	TIME	TEMPERATURE	WIND DIRECTION	WIND SPEED	WAVE DIRECTION	WAVE HEIGHT	SEA STATE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PHASE	MOON	PH

APPENDIX C

LISTINGS OF FIELD DATA AND URANIUM CONCENTRATIONS FOR SEDIMENT SAMPLES

Appendix C-I

Listings of Field Data and Uranium Concentrations for Sediment Samples
from the New Mexico Portion of the Hobbs NTMS Quadrangle

(See Appendix D for Code to Listings)

APPENDIX C-1. Field Data and Uranium Concentrations for Sediment Samples Hobbs

[illegible]

Hobbs

U CONCENTRATION
SEDIMENT
SAMPLES
ANALYZED BY
DELAYED NEUTRON
COUNTING
(DNC)
UNITS IN
ppm

APPENDIX C-1 (continued). Field Data and Uranium Concentrations for Sediment Samples Hobbs

[illegible]

APPENDIX C-1 (continued). Field Data and Uranium Concentrations for Sediment Samples Hobbs

DOE SAMPLE NUMBER			LAST SAMPLE LOCATION NUMBER AND FIELD DATA										TIME SAMPLED			AIR TEMPERATURE			WATER TEMPERATURE			COMMENTS			DOE SAMPLE LOCATION NUMBER AND FIELD DATA			TIME SAMPLED			AIR TEMPERATURE			WATER TEMPERATURE			COMMENTS			DOE SAMPLE LOCATION NUMBER AND FIELD DATA			TIME SAMPLED			AIR TEMPERATURE			WATER TEMPERATURE			COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REFL CAT	LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	DOE SAMPLE LOCATION NUMBER AND FIELD DATA	TIME SAMPLED	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	DOE SAMPLE LOCATION NUMBER AND FIELD DATA	TIME SAMPLED	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	DOE SAMPLE LOCATION NUMBER AND FIELD DATA	TIME SAMPLED	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	DOE SAMPLE LOCATION NUMBER AND FIELD DATA	TIME SAMPLED	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	DOE SAMPLE LOCATION NUMBER AND FIELD DATA	TIME SAMPLED	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	DOE SAMPLE LOCATION NUMBER AND FIELD DATA	TIME SAMPLED	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
35-32	5014-103	1500-2-15				0-000191	11/11/76	8	9	-C-		9-1-7-4-6	1-2-3-2-2-3	4	1.40		35-32	5156-103	1764-2-15				0-000194	11/11/76	8	9	-C-		3-1-7-4-6	1-2-3-2-2-3	4	1.40		35-32	5261-103	2196-2-15				0-000200	11/11/76	9	9	-C-		3-1-7-4-6	1-2-3-2-2-3	1	1.60		35-32	5436-103	2104-2-96				0-000205	11/11/76	9	9	-C-		3-1-7-4-6	1-2-3-2-2-3	1	1.60		35-32	8064-103	1483-2-96				0-000204	11/10/76	14	25	-C-		12-1-4-4-6	1-2-3-2-2-3	1	2.40		35-32	8108-103	1833-2-96				0-000207	11/10/76	14	27	-C-		12-1-4-4-6	1-2-3-2-2-3	1	2.20		35-32	8431-103	1306-2-97				0-000208	11/10/76	14	28	-C-		12-1-4-4-6	1-2-3-2-2-3	1	2.00		35-32	8603-103	1433-2-96				0-000210	11/10/76	15	28	-C-		10-1-4-4-6	1-2-3-2-2-3	1	1.10		35-32	7861-103	2151-2-97				0-000214	11/12/76	8	5	-C-		12-1-4-4-6	1-2-3-2-2-3	1	2.40		35-32	8424-103	2458-2-97				0-000216	11/12/76	9	5	-C-		13-1-4-4-6	1-2-3-2-2-3	2	2.40		35-32	9350-103	2275-2-97				0-000217	11/12/76	9	6	-C-		12-1-4-4-6	1-2-3-2-2-3	1	2.10		35-32	9361-103	2017-2-96				0-000218	11/12/76	10	4	-C-		10-1-4-4-6	1-2-3-2-2-3	1	2.20		35-32	9133-103	1814-2-97				0-000219	11/12/76	10	4	-C-		10-1-4-4-6	1-2-3-2-2-3	1	2.00		35-32	9011-103	2200-2-96				0-000220	11/12/76	10	4	-C-		10-1-4-4-6	1-2-3-2-2-3	1	2.00		35-32	8766-103	2475-2-96				0-000222	11/12/76	11	4	-C-		12-1-4-4-6	1-2-3-2-2-3	1	2.00		35-32	8772-103	1769-2-97				0-000224	11/12/76	11	1	-C-		10-1-4-4-6	1-2-3-2-2-3	1	1.50		35-32	8861-103	1625-2-96				0-000225	11/12/76	11	1	-C-		13-1-4-4-6	1-2-3-2-2-3	1	1.70		48-32	9142-103	0122-2-97				0-000227	11/16/76	9	5	-C-		10-1-4-4-6	1-2-3-2-2-3	1	1.40		48-32	8865-103	0417-2-96				0-000228	11/16/76	9	7	-C-		6-1-4-4-6	1-2-3-2-2-3	2	2.50		35-32	9278-103	0831-2-96				0-000230	11/16/76	10	7	-C-		10-1-4-4-6	1-2-3-2-2-3	1	1.80		48-32	9511-103	0206-2-96				0-000232	11/16/76	11	12	-C-		12-1-4-4-6	1-2-3-2-2-3	1	1.40		48-32	9276-103	0239-2-96				0-000233	11/16/76	11	12	-C-		12-1-4-4-6	1-2-3-2-2-3	1	1.70		35-32	9965-103	0119-2-97				0-000234	11/16/76	11	10	-C-		3-1-7-4-6	1-2-3-2-2-3	1	1.90		35-32	5936-103	1861-2-97				0-000239	11/15/76	11	7	-C-		12-1-4-4-6	1-2-3-2-2-3	1	1.40		35-32	5898-103	2444-2-96				0-000241	11/11/76	11	12	-C-		3-1-7-4-6	1-2-3-2-2-3	1	1.70		35-32	6181-103	1972-2-96				0-000242	11/11/76	11	12	-C-		4-1-7-4-6	1-2-3-2-2-3	1	1.90		35-32	6397-103	2242-2-15				0-000246	11/11/76	12	7	-C-		4-1-7-4-6	1-2-3-2-2-3	1	2.40		35-32	6639-103	1661-2-96				0-000251	11/11/76	14	6	-C-		9-1-7-4-6	1-2-3-2-2-3	1	2.10		35-32	6730-103	1344-2-97				0-000253	11/11/76	14	6	-C-		9-1-7-4-6	1-2-3-2-2-3	1	2.40		35-32	6711-103	2661-2-15				0-000254	11/15/76	10	14	-C-		16-1-7-5-6	1-2-3-2-2-3	1	2.00		35-32	6681-103	2811-2-97				0-000256	11/15/76	11	14	-C-		12-1-7-5-6	1-2-3-2-2-3	1	2.40		35-32	6267-103	3869-2-15				0-000269	11/15/76	13	8	-C-		6-1-7-5-6	1-2-3-2-2-3	1	2.20		35-32	6258-103	3803-2-15				0-000270	11/15/76	13	8	-C-		4-1-7-5-6	1-2-3-2-2-3	1	1.80		35-32	6361-103	3500-2-97				0-000274	11/15/76	14	4	-C-		12-1-7-5-6	1-2-3-2-2-3	1	1.80		35-32	6617-103	3486-2-97				0-000275	11/15/76	14	4	-C-		12-1-7-5-6	1-2-3-2-2-3	1	2.00		35-32	6283-103	4611-2-97				0-000280	11/15/76	15	1	-C-		8-1-7-4-6	1-2-3-2-2-3	1	2.10		48-32	7083-103	0581-2-97				0-000281	11/10/76	9	20	-C-		8-1-4-4-6	1-2-3-2-2-3	1	1.80		35-32	7272-103	0639-2-96				0-000282	11/10/76	10	20	-C-		8-1-4-4-6	1-2-3-2-2-3	1	2.00		48-32	7083-103	0142-2-15				0-000286	11/10/76	11	21	-C-		2-1-4-4-6	1-2-3-2-2-3	1	1.50		48-32	7083-103	0536-2-96				0-000294	11/11/76	10	10	-C-		11-1-4-4-6	1-2-3-2-2-3	3	2.40		48-32	5533-103	0133-2-15				0-000296	11/11/76	11	14	-C-		8-1-7-4-7	1-2-3-2-2-3	3	2.10		35-32	5678-103	0786-2-15				0-000298	11/11/76	12	14	-C-		11-1-4-4-6	1-2-3-2-2-3	3	1.80		35-32	5439-103	0797-2-96				0-000300	11/11/76	12	10	-C-		11-1-4-4-6	1-2-3-2-2-3	3	1.90		35-32	5356-103	1122-2-96				0-000302	11/11/76	14	9	-C-		2-1-4-4-6	1-2-3-2-2-3	2	1.80		35-32	5353-103	6950-2-13				0-000306	11/16/76	10	3	9.5C		12-1-4-4-4	1-2-3-2-2-3	9	8.40		35-32	5650-103	7153-2-13				0-000308	11/16/76	11	7	7.0.0		10-1-4-5-6	1-2-3-2-2-3	1	2.40		35-32	5211-103	7428-2-96				0-000309	11/16/76	12	10	-C-		10-1-4-5-6	1-2-3-2-2-3	1	2.50		35-32	5326-103	6375-2-13				0-000311	11/16/76	13	10	-C-		2-1-4-4-4	1-2-3-2-2-3	1	1.80		35-32	5208-103	5631-2-96				0-000312	11/16/76	13	10	7.9.0		2-1-4-4-4	1-2-3-2-2-3	1	1.80		35-32	5200-103	5511-2-96				0-000316	11/16/76	15	10	-C-		7-1-1-5-6	1-2-3-2-2-3	1	2.50	

DOE SAMPLE NUMBER						LAST SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REF. DATE	LAST SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPEC. A. MEASUREMENTS	PH	SPECIFIC CONDUCTANCE	% NTI, OATP	DOE #01	DOE #02	DOE #03	DOE #04	DOE #05	DOE #06	DOE #07	DOE #08	DOE #09	DOE #10	DOE #11	DOE #12	DOE #13	DOE #14	DOE #15	DOE #16	DOE #17	DOE #18	DOE #19	DOE #20	DOE #21	DOE #22	DOE #23	DOE #24	DOE #25	DOE #26	DOE #27	DOE #28	DOE #29	DOE #30	DOE #31	DOE #32	DOE #33	DOE #34	DOE #35	DOE #36	DOE #37	DOE #38	DOE #39	DOE #40	DOE #41	DOE #42	DOE #43	DOE #44	DOE #45	DOE #46	DOE #47	DOE #48	DOE #49	DOE #50	DOE #51	DOE #52	DOE #53	DOE #54	DOE #55	DOE #56	DOE #57	DOE #58	DOE #59	DOE #60	DOE #61	DOE #62	DOE #63	DOE #64	DOE #65	DOE #66	DOE #67	DOE #68	DOE #69	DOE #70	DOE #71	DOE #72	DOE #73	DOE #74	DOE #75	DOE #76	DOE #77	DOE #78	DOE #79	DOE #80	DOE #81	DOE #82	DOE #83	DOE #84	DOE #85	DOE #86	DOE #87	DOE #88	DOE #89	DOE #90	DOE #91	DOE #92	DOE #93	DOE #94	DOE #95	DOE #96	DOE #97	DOE #98	DOE #99	DOE #100	DOE #101	DOE #102	DOE #103	DOE #104	DOE #105	DOE #106	DOE #107	DOE #108	DOE #109	DOE #110	DOE #111	DOE #112	DOE #113	DOE #114	DOE #115	DOE #116	DOE #117	DOE #118	DOE #119	DOE #120	DOE #121	DOE #122	DOE #123	DOE #124	DOE #125	DOE #126	DOE #127	DOE #128	DOE #129	DOE #130	DOE #131	DOE #132	DOE #133	DOE #134	DOE #135	DOE #136	DOE #137	DOE #138	DOE #139	DOE #140	DOE #141	DOE #142	DOE #143	DOE #144	DOE #145	DOE #146	DOE #147	DOE #148	DOE #149	DOE #150	DOE #151	DOE #152	DOE #153	DOE #154	DOE #155	DOE #156	DOE #157	DOE #158	DOE #159	DOE #160	DOE #161	DOE #162	DOE #163	DOE #164	DOE #165	DOE #166	DOE #167	DOE #168	DOE #169	DOE #170	DOE #171	DOE #172	DOE #173	DOE #174	DOE #175	DOE #176	DOE #177	DOE #178	DOE #179	DOE #180	DOE #181	DOE #182	DOE #183	DOE #184	DOE #185	DOE #186	DOE #187	DOE #188	DOE #189	DOE #190	DOE #191	DOE #192	DOE #193	DOE #194	DOE #195	DOE #196	DOE #197	DOE #198	DOE #199	DOE #200	DOE #201	DOE #202	DOE #203	DOE #204	DOE #205	DOE #206	DOE #207	DOE #208	DOE #209	DOE #210	DOE #211	DOE #212	DOE #213	DOE #214	DOE #215	DOE #216	DOE #217	DOE #218	DOE #219	DOE #220	DOE #221	DOE #222	DOE #223	DOE #224	DOE #225	DOE #226	DOE #227	DOE #228	DOE #229	DOE #230	DOE #231	DOE #232	DOE #233	DOE #234	DOE #235	DOE #236	DOE #237	DOE #238	DOE #239	DOE #240	DOE #241	DOE #242	DOE #243	DOE #244	DOE #245	DOE #246	DOE #247	DOE #248	DOE #249	DOE #250	DOE #251	DOE #252	DOE #253	DOE #254	DOE #255	DOE #256	DOE #257	DOE #258	DOE #259	DOE #260	DOE #261	DOE #262	DOE #263	DOE #264	DOE #265	DOE #266	DOE #267	DOE #268	DOE #269	DOE #270	DOE #271	DOE #272	DOE #273	DOE #274	DOE #275	DOE #276	DOE #277	DOE #278	DOE #279	DOE #280	DOE #281	DOE #282	DOE #283	DOE #284	DOE #285	DOE #286	DOE #287	DOE #288	DOE #289	DOE #290	DOE #291	DOE #292	DOE #293	DOE #294	DOE #295	DOE #296	DOE #297	DOE #298	DOE #299	DOE #300	DOE #301	DOE #302	DOE #303	DOE #304	DOE #305	DOE #306	DOE #307	DOE #308	DOE #309	DOE #310	DOE #311	DOE #312	DOE #313	DOE #314	DOE #315	DOE #316	DOE #317	DOE #318	DOE #319	DOE #320	DOE #321	DOE #322	DOE #323	DOE #324	DOE #325	DOE #326	DOE #327	DOE #328	DOE #329	DOE #330	DOE #331	DOE #332	DOE #333	DOE #334	DOE #335	DOE #336	DOE #337	DOE #338	DOE #339	DOE #340	DOE #341	DOE #342	DOE #343	DOE #344	DOE #345	DOE #346	DOE #347	DOE #348	DOE #349	DOE #350	DOE #351	DOE #352	DOE #353	DOE #354	DOE #355	DOE #356	DOE #357	DOE #358	DOE #359	DOE #360	DOE #361	DOE #362	DOE #363	DOE #364	DOE #365	DOE #366	DOE #367	DOE #368	DOE #369	DOE #370	DOE #371	DOE #372	DOE #373	DOE #374	DOE #375	DOE #376	DOE #377	DOE #378	DOE #379	DOE #380	DOE #381	DOE #382	DOE #383	DOE #384	DOE #385	DOE #386	DOE #387	DOE #388	DOE #389	DOE #390	DOE #391	DOE #392	DOE #393	DOE #394	DOE #395	DOE #396	DOE #397	DOE #398	DOE #399	DOE #400	DOE #401	DOE #402	DOE #403	DOE #404	DOE #405	DOE #406	DOE #407	DOE #408	DOE #409	DOE #410	DOE #411	DOE #412	DOE #413	DOE #414	DOE #415	DOE #416	DOE #417	DOE #418	DOE #419	DOE #420	DOE #421	DOE #422	DOE #423	DOE #424	DOE #425	DOE #426	DOE #427	DOE #428	DOE #429	DOE #430	DOE #431	DOE #432	DOE #433	DOE #434	DOE #435	DOE #436	DOE #437	DOE #438	DOE #439	DOE #440	DOE #441	DOE #442	DOE #443	DOE #444	DOE #445	DOE #446	DOE #447	DOE #448	DOE #449	DOE #450	DOE #451	DOE #452	DOE #453	DOE #454	DOE #455	DOE #456	DOE #457	DOE #458	DOE #459	DOE #460	DOE #461	DOE #462	DOE #463	DOE #464	DOE #465	DOE #466	DOE #467	DOE #468	DOE #469	DOE #470	DOE #471	DOE #472	DOE #473	DOE #474	DOE #475	DOE #476	DOE #477	DOE #478	DOE #479	DOE #480	DOE #481	DOE #482	DOE #483	DOE #484	DOE #485	DOE #486	DOE #487	DOE #488	DOE #489	DOE #490	DOE #491	DOE #492	DOE #493	DOE #494	DOE #495	DOE #496	DOE #497	DOE #498	DOE #499	DOE #500	DOE #501	DOE #502	DOE #503	DOE #504	DOE #505	DOE #506	DOE #507	DOE #508	DOE #509	DOE #510	DOE #511	DOE #512	DOE #513	DOE #514	DOE #515	DOE #516	DOE #517	DOE #518	DOE #519	DOE #520	DOE #521	DOE #522	DOE #523	DOE #524	DOE #525	DOE #526	DOE #527	DOE #528	DOE #529	DOE #530	DOE #531	DOE #532	DOE #533	DOE #534	DOE #535	DOE #536	DOE #537	DOE #538	DOE #539	DOE #540	DOE #541	DOE #542	DOE #543	DOE #544	DOE #545	DOE #546	DOE #547	DOE #548	DOE #549	DOE #550	DOE #551	DOE #552	DOE #553	DOE #554	DOE #555	DOE #556	DOE #557	DOE #558	DOE #559	DOE #560	DOE #561	DOE #562	DOE #563	DOE #564	DOE #565	DOE #566	DOE #567	DOE #568	DOE #569	DOE #570	DOE #571	DOE #572	DOE #573	DOE #574	DOE #575	DOE #576	DOE #577	DOE #578	DOE #579	DOE #580	DOE #581	DOE #582	DOE #583	DOE #584	DOE #585	DOE #586	DOE #587	DOE #588	DOE #589	DOE #590	DOE #591	DOE #592	DOE #593	DOE #594	DOE #595	DOE #596	DOE #597	DOE #598	DOE #599	DOE #600	DOE #601	DOE #602	DOE #603	DOE #604	DOE #605	DOE #606	DOE #607	DOE #608	DOE #609	DOE #610	DOE #611	DOE #612	DOE #613	DOE #614	DOE #615	DOE #616	DOE #617	DOE #618	DOE #619	DOE #620	DOE #621	DOE #622	DOE #623	DOE #624	DOE #625	DOE #626	DOE #627	DOE #628	DOE #629	DOE #630	DOE #631	DOE #632	DOE #633	DOE #634	DOE #635	DOE #636	DOE #637	DOE #638	DOE #639	DOE #640	DOE #641	DOE #642	DOE #643	DOE #644	DOE #645	DOE #646	DOE #647	DOE #648	DOE #649	DOE #650	DOE #651	DOE #652	DOE #653	DOE #654	DOE #655	DOE #656	DOE #657	DOE #658	DOE #659	DOE #660	DOE #661	DOE #662	DOE #663	DOE #664	DOE #665	DOE #666	DOE #667	DOE #668	DOE #669	DOE #670	DOE #671	DOE #672	DOE #673	DOE #674	DOE #675	DOE #676	DOE #677	DOE #678	DOE #679	DOE #680	DOE #681	DOE #682	DOE #683	DOE #684	DOE #685	DOE #686	DOE #687	DOE #688	DOE #689	DOE #690	DOE #691	DOE #692	DOE #693	DOE #694	DOE #695	DOE #696	DOE #697	DOE #698	DOE #699	DOE #700	DOE #701	DOE #702	DOE #703	DOE #704	DOE #705	DOE #706	DOE #707	DOE #708	DOE #709	DOE #710	DOE #711	DOE #712	DOE #713	DOE #714	DOE #715	DOE #716	DOE #717	DOE #718	DOE #719	DOE #720	DOE #721	DOE #722	DOE #723	DOE #724	DOE #725	DOE #726	DOE #727	DOE #728	DOE #729	DOE #730	DOE #731	DOE #732	DOE #733	DOE #734	DOE #735	DOE #736	DOE #737	DOE #738	DOE #739	DOE #740	DOE #741	DOE #742	DOE #743	DOE #744	DOE #745	DOE #746	DOE #747	DOE #748	DOE #749	DOE #750	DOE #751	DOE #752	DOE #753	DOE #754	DOE #755	DOE #756	DOE #757	DOE #758	DOE #759	DOE #760	DOE #761	DOE #762	DOE #763	DOE #764	DOE #765	DOE #766	DOE #767	DOE #768	DOE #769	DOE #770	DOE #771	DOE #772	DOE #773	DOE #774	DOE #775	DOE #776	DOE #777	DOE #778	DOE #779	DOE #780	DOE #781	DOE #782	DOE #783	DOE #784	DOE #785	DOE #786	DOE #787	DOE #788	DOE #789	DOE #790	DOE #791	DOE #792	DOE #793	DOE #794	DOE #795	DOE #796	DOE #797	DOE #798	DOE #799	DOE #800	DOE #801	DOE #802	DOE #803	DOE #804	DOE #805	DOE #806	DOE #807	DOE #808	DOE #809	DOE #810	DOE #811	DOE #812	DOE #813	DOE #814	DOE #815	DOE #816	DOE #817	DOE #818	DOE #819	DOE #820	DOE #821	DOE #822	DOE #823	DOE #824	DOE #825	DOE #826	DOE #827	DOE #828	DOE #829	DOE #830	DOE #831	DOE #832	DOE #833	DOE #834	DOE #835	DOE #836	DOE #837	DOE #838	DOE #839	DOE #840	DOE #841	DOE #842	DOE #843	DOE #844	DOE #845	DOE #846	DOE #847	DOE #848	DOE #849	DOE #850	DOE #851	DOE #852	DOE #853	DOE #854	DOE #855	DOE #856	DOE #857	DOE #858	DOE #859	DOE #860	DOE #861	DOE #862	DOE #863	DOE #864	DOE #865	DOE #866	DOE #867	DOE #868	DOE #869	DOE #870	DOE #871	DOE #872	DOE #873	DOE #874	DOE #875	DOE #876	

APPENDIX C-1 (continued). Field Data and Uranium Concentrations for Sediment Samples Hobbs

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APPENDIX C-1 (continued). Field Data and Uranium Concentrations for Sediment Samples Hobbs

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APPENDIX C-1 (continued). Field Data and Uranium Concentrations for Sediment Samples Hobbs

DOE SAMPLE NUMBER				LAST SAMPLE LOCATION NUMBER AND FIELD DATA				U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REF. DATE	TIME SAMPLED	DATE	TIME	WIND DIRECTION	WIND SPEED	WAVE DIRECTION	WAVE PERIOD	WAVE HEIGHT	WAVE PERIOD	WAVE HEIGHT	WAVE PERIOD	WAVE HEIGHT	WAVE PERIOD	WAVE HEIGHT
35-32.2036-103.2408-2-96																			
35-32.1911-103.2228-2-96																			
35-32.2239-103.2350-2-96																			
35-32.2403-103.2275-2-96																			
35-32.2192-103.2061-2-96																			
35-32.1628-103.2044-2-96																			
35-32.1656-103.2375-2-96																			
35-32.1369-103.1672-2-96																			
35-32.1372-103.1494-2-97																			
35-32.6689-103.5526-2-96																			
35-32.4811-103.5219-2-96																			
35-32.4911-103.5389-2-96																			
35-32.4917-103.5736-2-96																			
35-32.4903-103.6042-2-96																			
35-32.4431-103.6403-2-96																			
35-32.4667-103.7142-2-96																			
35-32.4500-103.6772-2-96																			
35-32.4417-103.7375-2-97																			
35-32.3944-103.7150-2-96																			
35-32.3792-103.7208-2-97																			
35-32.3486-103.7442-2-96																			
35-32.3506-103.6861-2-96																			
35-32.4056-103.6702-2-96																			
35-32.4167-103.6828-2-97																			
35-32.4167-103.6472-2-97																			
35-32.7221-103.6500-2-96																			
35-32.0810-103.6750-2-96																			
35-32.3014-103.7397-2-96																			
35-32.2689-103.6811-2-96																			
35-32.2572-103.6533-2-96																			
35-32.2958-103.6333-2-96																			
35-32.3117-103.6250-2-96																			
35-32.3319-103.5917-2-96																			
35-32.6042-103.6425-2-96																			
35-32.5978-103.6658-2-97																			
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35-32.6117-103.6770-2-13																			
35-32.7244-103.5472-2-96																			
35-32.7194-103.5161-2-96																			
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35-32.7097-103.6667-2-96																			
35-32.7008-103.6367-2-96																			
35-32.6667-103.6403-2-96																			
35-32.6819-103.7342-2-96																			
35-32.4083-103.3194-2-96																			
35-32.4181-103.3417-2-13																			
35-32.4144-103.3653-2-96																			
35-32.3861-103.3792-2-96																			
35-32.3708-103.3847-2-96																			
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0-000656-11/20/74-11-18																			
0-000657-11/20/74-11-23																			
0-000659-11/20/74-12-23																			

APPENDIX C (continued). Field Data and Uranium Concentrations for Sediment Samples

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APPENDIX C-1 (continued). Field Data and Uranium Concentrations for Sediment Samples Hobbs

[illegible]

APPENDIX C-1 (continued). Field Data and Uranium Concentrations for Sediment Samples Hobbs

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Appendix C-II

Listings of Field Data and Uranium Concentrations for Sediment Samples
from the New Mexico Portion of the Brownfield NTMS Quadrangle

(See Appendix D for Code to Listings)

APPENDIX C-II. Field Data and Uranium Concentrations for Sediment Samples Brownfield

DOE SAMPLE NUMBER										LAST SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
STATE	COUNTY	CITY	DOE AREA	DOE SITE	DOE TWP	DOE SEC	DOE R1	DOE R2	DOE R3	TIME SAMPLED	DOE TWP	DOE R1	DOE R2	DOE R3	DOE R4	DOE R5	DOE R6	DOE R7	DOE R8	DOE R9	DOE R10	DOE R11	DOE R12	DOE R13	DOE R14	DOE R15	DOE R16	DOE R17	DOE R18	DOE R19	DOE R20	DOE R21	DOE R22	DOE R23	DOE R24	DOE R25	DOE R26	DOE R27	DOE R28	DOE R29	DOE R30	DOE R31	DOE R32	DOE R33	DOE R34	DOE R35	DOE R36	DOE R37	DOE R38	DOE R39	DOE R40	DOE R41	DOE R42	DOE R43	DOE R44	DOE R45	DOE R46	DOE R47	DOE R48	DOE R49	DOE R50	DOE R51	DOE R52	DOE R53	DOE R54	DOE R55	DOE R56	DOE R57	DOE R58	DOE R59	DOE R60	DOE R61	DOE R62	DOE R63	DOE R64	DOE R65	DOE R66	DOE R67	DOE R68	DOE R69	DOE R70	DOE R71	DOE R72	DOE R73	DOE R74	DOE R75	DOE R76	DOE R77	DOE R78	DOE R79	DOE R80	DOE R81	DOE R82	DOE R83	DOE R84	DOE R85	DOE R86	DOE R87	DOE R88	DOE R89	DOE R90	DOE R91	DOE R92	DOE R93	DOE R94	DOE R95	DOE R96	DOE R97	DOE R98	DOE R99	DOE R100	DOE R101	DOE R102	DOE R103	DOE R104	DOE R105	DOE R106	DOE R107	DOE R108	DOE R109	DOE R110	DOE R111	DOE R112	DOE R113	DOE R114	DOE R115	DOE R116	DOE R117	DOE R118	DOE R119	DOE R120	DOE R121	DOE R122	DOE R123	DOE R124	DOE R125	DOE R126	DOE R127	DOE R128	DOE R129	DOE R130	DOE R131	DOE R132	DOE R133	DOE R134	DOE R135	DOE R136	DOE R137	DOE R138	DOE R139	DOE R140	DOE R141	DOE R142	DOE R143	DOE R144	DOE R145	DOE R146	DOE R147	DOE R148	DOE R149	DOE R150	DOE R151	DOE R152	DOE R153	DOE R154	DOE R155	DOE R156	DOE R157	DOE R158	DOE R159	DOE R160	DOE R161	DOE R162	DOE R163	DOE R164	DOE R165	DOE R166	DOE R167	DOE R168	DOE R169	DOE R170	DOE R171	DOE R172	DOE R173	DOE R174	DOE R175	DOE R176	DOE R177	DOE R178	DOE R179	DOE R180	DOE R181	DOE R182	DOE R183	DOE R184	DOE R185	DOE R186	DOE R187	DOE R188	DOE R189	DOE R190	DOE R191	DOE R192	DOE R193	DOE R194	DOE R195	DOE R196	DOE R197	DOE R198	DOE R199	DOE R200	DOE R201	DOE R202	DOE R203	DOE R204	DOE R205	DOE R206	DOE R207	DOE R208	DOE R209	DOE R210	DOE R211	DOE R212	DOE R213	DOE R214	DOE R215	DOE R216	DOE R217	DOE R218	DOE R219	DOE R220	DOE R221	DOE R222	DOE R223	DOE R224	DOE R225	DOE R226	DOE R227	DOE R228	DOE R229	DOE R230	DOE R231	DOE R232	DOE R233	DOE R234	DOE R235	DOE R236	DOE R237	DOE R238	DOE R239	DOE R240	DOE R241	DOE R242	DOE R243	DOE R244	DOE R245	DOE R246	DOE R247	DOE R248	DOE R249	DOE R250	DOE R251	DOE R252	DOE R253	DOE R254	DOE R255	DOE R256	DOE R257	DOE R258	DOE R259	DOE R260	DOE R261	DOE R262	DOE R263	DOE R264	DOE R265	DOE R266	DOE R267	DOE R268	DOE R269	DOE R270	DOE R271	DOE R272	DOE R273	DOE R274	DOE R275	DOE R276	DOE R277	DOE R278	DOE R279	DOE R280	DOE R281	DOE R282	DOE R283	DOE R284	DOE R285	DOE R286	DOE R287	DOE R288	DOE R289	DOE R290	DOE R291	DOE R292	DOE R293	DOE R294	DOE R295	DOE R296	DOE R297	DOE R298	DOE R299	DOE R300	DOE R301	DOE R302	DOE R303	DOE R304	DOE R305	DOE R306	DOE R307	DOE R308	DOE R309	DOE R310	DOE R311	DOE R312	DOE R313	DOE R314	DOE R315	DOE R316	DOE R317	DOE R318	DOE R319	DOE R320	DOE R321	DOE R322	DOE R323	DOE R324	DOE R325	DOE R326	DOE R327	DOE R328	DOE R329	DOE R330	DOE R331	DOE R332	DOE R333	DOE R334	DOE R335	DOE R336	DOE R337	DOE R338	DOE R339	DOE R340	DOE R341	DOE R342	DOE R343	DOE R344	DOE R345	DOE R346	DOE R347	DOE R348	DOE R349	DOE R350	DOE R351	DOE R352	DOE R353	DOE R354	DOE R355	DOE R356	DOE R357	DOE R358	DOE R359	DOE R360	DOE R361	DOE R362	DOE R363	DOE R364	DOE R365	DOE R366	DOE R367	DOE R368	DOE R369	DOE R370	DOE R371	DOE R372	DOE R373	DOE R374	DOE R375	DOE R376	DOE R377	DOE R378	DOE R379	DOE R380	DOE R381	DOE R382	DOE R383	DOE R384	DOE R385	DOE R386	DOE R387	DOE R388	DOE R389	DOE R390	DOE R391	DOE R392	DOE R393	DOE R394	DOE R395	DOE R396	DOE R397	DOE R398	DOE R399	DOE R400	DOE R401	DOE R402	DOE R403	DOE R404	DOE R405	DOE R406	DOE R407	DOE R408	DOE R409	DOE R410	DOE R411	DOE R412	DOE R413	DOE R414	DOE R415	DOE R416	DOE R417	DOE R418	DOE R419	DOE R420	DOE R421	DOE R422	DOE R423	DOE R424	DOE R425	DOE R426	DOE R427	DOE R428	DOE R429	DOE R430	DOE R431	DOE R432	DOE R433	DOE R434	DOE R435	DOE R436	DOE R437	DOE R438	DOE R439	DOE R440	DOE R441	DOE R442	DOE R443	DOE R444	DOE R445	DOE R446	DOE R447	DOE R448	DOE R449	DOE R450	DOE R451	DOE R452	DOE R453	DOE R454	DOE R455	DOE R456	DOE R457	DOE R458	DOE R459	DOE R460	DOE R461	DOE R462	DOE R463	DOE R464	DOE R465	DOE R466	DOE R467	DOE R468	DOE R469	DOE R470	DOE R471	DOE R472	DOE R473	DOE R474	DOE R475	DOE R476	DOE R477	DOE R478	DOE R479	DOE R480	DOE R481	DOE R482	DOE R483	DOE R484	DOE R485	DOE R486	DOE R487	DOE R488	DOE R489	DOE R490	DOE R491	DOE R492	DOE R493	DOE R494	DOE R495	DOE R496	DOE R497	DOE R498	DOE R499	DOE R500	DOE R501	DOE R502	DOE R503	DOE R504	DOE R505	DOE R506	DOE R507	DOE R508	DOE R509	DOE R510	DOE R511	DOE R512	DOE R513	DOE R514	DOE R515	DOE R516	DOE R517	DOE R518	DOE R519	DOE R520	DOE R521	DOE R522	DOE R523	DOE R524	DOE R525	DOE R526	DOE R527	DOE R528	DOE R529	DOE R530	DOE R531	DOE R532	DOE R533	DOE R534	DOE R535	DOE R536	DOE R537	DOE R538	DOE R539	DOE R540	DOE R541	DOE R542	DOE R543	DOE R544	DOE R545	DOE R546	DOE R547	DOE R548	DOE R549	DOE R550	DOE R551	DOE R552	DOE R553	DOE R554	DOE R555	DOE R556	DOE R557	DOE R558	DOE R559	DOE R560	DOE R561	DOE R562	DOE R563	DOE R564	DOE R565	DOE R566	DOE R567	DOE R568	DOE R569	DOE R570	DOE R571	DOE R572	DOE R573	DOE R574	DOE R575	DOE R576	DOE R577	DOE R578	DOE R579	DOE R580	DOE R581	DOE R582	DOE R583	DOE R584	DOE R585	DOE R586	DOE R587	DOE R588	DOE R589	DOE R590	DOE R591	DOE R592	DOE R593	DOE R594	DOE R595	DOE R596	DOE R597	DOE R598	DOE R599	DOE R600	DOE R601	DOE R602	DOE R603	DOE R604	DOE R605	DOE R606	DOE R607	DOE R608	DOE R609	DOE R610	DOE R611	DOE R612	DOE R613	DOE R614	DOE R615	DOE R616	DOE R617	DOE R618	DOE R619	DOE R620	DOE R621	DOE R622	DOE R623	DOE R624	DOE R625	DOE R626	DOE R627	DOE R628	DOE R629	DOE R630	DOE R631	DOE R632	DOE R633	DOE R634	DOE R635	DOE R636	DOE R637	DOE R638	DOE R639	DOE R640	DOE R641	DOE R642	DOE R643	DOE R644	DOE R645	DOE R646	DOE R647	DOE R648	DOE R649	DOE R650	DOE R651	DOE R652	DOE R653	DOE R654	DOE R655	DOE R656	DOE R657	DOE R658	DOE R659	DOE R660	DOE R661	DOE R662	DOE R663	DOE R664	DOE R665	DOE R666	DOE R667	DOE R668	DOE R669	DOE R670	DOE R671	DOE R672	DOE R673	DOE R674	DOE R675	DOE R676	DOE R677	DOE R678	DOE R679	DOE R680	DOE R681	DOE R682	DOE R683	DOE R684	DOE R685	DOE R686	DOE R687	DOE R688	DOE R689	DOE R690	DOE R691	DOE R692	DOE R693	DOE R694	DOE R695	DOE R696	DOE R697	DOE R698	DOE R699	DOE R700	DOE R701	DOE R702	DOE R703	DOE R704	DOE R705	DOE R706	DOE R707	DOE R708	DOE R709	DOE R710	DOE R711	DOE R712	DOE R713	DOE R714	DOE R715	DOE R716	DOE R717	DOE R718	DOE R719	DOE R720	DOE R721	DOE R722	DOE R723	DOE R724	DOE R725	DOE R726	DOE R727	DOE R728	DOE R729	DOE R730	DOE R731	DOE R732	DOE R733	DOE R734	DOE R735	DOE R736	DOE R737	DOE R738	DOE R739	DOE R740	DOE R741	DOE R742	DOE R743	DOE R744	DOE R745	DOE R746	DOE R747	DOE R748	DOE R749	DOE R750	DOE R751	DOE R752	DOE R753	DOE R754	DOE R755	DOE R756	DOE R757	DOE R758	DOE R759	DOE R760	DOE R761	DOE R762	DOE R763	DOE R764	DOE R765	DOE R766	DOE R767	DOE R768	DOE R769	DOE R770	DOE R771	DOE R772	DOE R773	DOE R774	DOE R775	DOE R776	DOE R777	DOE R778	DOE R779	DOE R780	DOE R781	DOE R782	DOE R783	DOE R784	DOE R785	DOE R786	DOE R787	DOE R788	DOE R789	DOE R790	DOE R791	DOE R792	DOE R793	DOE R794	DOE R795	DOE R796	DOE R797	DOE R798	DOE R799	DOE R800	DOE R801	DOE R802	DOE R803	DOE R804	DOE R805	DOE R806	DOE R807	DOE R808	DOE R809	DOE R810	DOE R811	DOE R812	DOE R813	DOE R814	DOE R815	DOE R816	DOE R817	DOE R818	DOE R819	DOE R820	DOE R821	DOE R822	DOE R823	DOE R824	DOE R825	DOE R826	DOE R827	DOE R828	DOE R829	DOE R830	DOE R831	DOE R832	DOE R833	DOE R834	DOE R835	DOE R836	DOE R837	DOE R838	DOE R839	DOE R840	DOE R841	DOE R842	DOE R843	DOE R844	DOE R845	DOE R846	DOE R847	DOE R848	DOE R849	DOE R850	DOE R851	DOE R852	DOE R853	DOE R854	DOE R855	DOE R856	DOE R857	DOE R858	DOE R859	DOE R860	DOE R861	DOE R862	DOE R863	DOE R864	DOE R865	DOE R866	DOE R867	DOE R868	DOE R869	DOE R870	DOE R871	DOE R872	DOE R873	DOE R874	DOE R875	DOE R876	DOE R877	DOE R878	DOE R879	DOE R880	DOE R881	DOE R882	DOE R883	DOE R884	DOE R885	DOE R886	DOE R887	DOE R888	DOE R889	DOE R890	DOE R891	DOE R892	DOE R893	DOE R894	DOE R895	DOE R896	DOE R897	DOE R898	DOE R899	DOE R900	DOE R901	DOE R902	DOE R903	DOE R904	DOE R905	DOE R906	DOE R907	DOE R908	DOE R909	DOE R910	DOE R911	DOE R912	DOE R913	DOE R914	DOE R915	DOE R916	DOE R917	DOE R918	DOE R919	DOE R920	DOE R921	DOE R922	DOE R923	DOE R924	DOE R925	DOE R926	DOE R927	DOE R928	DOE R929	DOE R930	DOE R931	DOE R932	DOE R933	DOE R934	DOE R935	DOE R936	DOE R937	DOE R938	DOE R939	DOE R940	DOE R941	DOE R942	DOE R943	DOE R944	DOE R945	DOE R946	DOE R947	DOE R948	DOE R949	DOE R950	DOE R951	DOE R952	DOE R953	DOE R954	DOE R955	DOE R956	DOE R957	DOE R958	DOE R959	DOE R960	DOE R961

APPENDIX C-II (continued). Field Data and Uranium Concentrations for Sediment Samples Brownfield

[illegible]

55

[illegible]

APPENDIX C-II (continued)

[illegible]

APPENDIX C-II (continued). Field Data and Uranium Concentrations for Sediment Samples Brownfield

[illegible]

Brownfield

[illegible]

[illegible]

APPENDIX D

CODE TO DATA LISTINGS

Appendix D-I

Explanation of Codes Used

Appendix D-II

Key to Sample Types

APPENDIX D-I

EXPLANATION OF CODES USED

DOE SAMPLE NUMBER

STATE: A two-digit Federal Information Processing Standards (FIPS) code, designating the state from which each sample came. For the states being covered by the LASL, the code numbers are:

Alaska	= 02	Montana	= 30	Texas	= 48
Arizona	= 04	New Mexico	= 35	Utah	= 49
Colorado	= 08	Oklahoma	= 40	Wyoming	= 56
Idaho	= 16				

LATITUDE AND LONGITUDE: Sample location, in degrees and decimal degrees to four places. Although generally much better, locational accuracy cannot be guaranteed closer than about 300 m (1000 ft).

DOE LAB: A Department of Energy (DOE) one-digit identifier designating the DOE laboratory responsible for taking the samples and data shown in the listings, as well as providing the analyses of the uranium and other elemental concentrations, if any. The LASL is designated by the numeral 2.

SAMPLE TYPE: A two-digit identifier which specifically designates the pertinent properties defining the sample type to which the listed data relate. For explanation of the code used, refer to the attached "Key to Sample Types," Appendix D-II.

REPLICATE: A three-digit sequential number assigned to indicate a multiple sample of a single sample type from a single location. The largest number in use indicates the most recent sample taken, and there will always be smaller sequential numbers representing earlier samples back to 000, which is the initial sample from any given location. Except in the case of special studies, there will be no replicate samples and this entry will therefore be 000.

LASL SAMPLE LOCATION NUMBER AND FIELD DATA

LASL SAMPLE LOCATION NUMBER: A unique six-place alphanumeric designator permanently assigned by the LASL to every location sampled. For internal use, these numbers are assigned in blocks to the various areas individually treated and reported upon, and therefore serve to generally locate the samples within various areas for which the LASL is responsible as follows.

<u>Location Numbers</u>	<u>State</u>
N00 001 through N99 999	= Principally New Mexico
C00 001 through C99 999	= Principally Colorado
W00 001 through W99 999	= Principally Wyoming
M00 001 through M99 999	= Principally Montana
A00 001 and above	= Alaska only
L00 001 and above	= Areas beyond the western boundary of LASL's region as established by DOE in 1977.
Ø00 001 and above	= Areas beyond the eastern boundary of LASL's region as established by DOE in 1977.

TIME SAMPLED: The DATE that the sample was taken, in terms of the number of the MONTH, followed by the DAY and finally the YEAR, separated by slashes, and then the TIME it was taken on that date to the nearest whole HOUR on a 24-hour clock.

AIR TEMPERATURE: The temperature that was measured in the shade at the time of sampling, to the nearest whole degree Celsius (°C).

WATER TEMPERATURE: The temperature that was measured in the sample water (in situ whenever possible) at the time of sampling, to the nearest one-tenth of a degree Celsius (0.1°C).

COMMENTS: A "C" in this column indicates that some secondary comment not included in the listing was recorded at the sample location. This information will be used by the LASL in evaluating the data, and if appropriate, it will be mentioned in the final report.

SPECIAL MEASUREMENTS: An "S" in this column indicates that one or more field measurements in addition to those listed were made at the sample location. A description of any special parameters measured and the measured value at each sample location will be included in the final HSSR survey report on the area.

pH: The pH, to the nearest one-tenth (0.1) of a pH unit, that was measured in the water at the sample location at the time of sampling.

SPECIFIC CONDUCTANCE: The conductivity, in $\mu\text{mho/cm}$, that was measured in the water at the sample location at the time of sampling.

SCINTILLOMETER: The equivalent uranium (eU), in parts per million (ppm), as measured on a flat ground surface within 10 m of the sample location using a scintillometer fitted with a differential gamma sampler (DGS). The effect of the DGS is to introduce a fixed geometry into the measurement and remove the background.

ROCK TYPE: The single digit in this column provides a general description of the dominant lithologic regime at or near the sample location, as given below.

1 = Sedimentary
2 = Metamorphic

3 = Igneous
4 = Unknown

ROCK COLOR: The single digit in this column provides an indication of the observed dominant color of local bedrock exposures at or near the sample location, as given below.

1 = White/Buf
2 = Yellow
3 = Orange

4 = Pink/Red
5 = Green
6 = Brown

7 = Gray
8 = Black
9 = Other

SEDIMENT TYPE: The single digit in this column provides a subjective evaluation of the dominant sediment type at the sample location, as given below.

1 = Boulders
2 = Cobbles
3 = Gravel

4 = Sand
5 = Mud
6 = Muck

7 = Other

SEDIMENT COLOR: The single digit in this column indicates the observed dominant color of the bottom sediment (stream channel, lake bed, etc.) at the sample location at the time of sampling, as given below.

1 = White/Buff	4 = Pink/Red	7 = Gray
2 = Yellow	5 = Green	8 = Black
3 = Orange	6 = Brown	9 = Other

WATER FLOW: The single digit in this column provides a subjective evaluation of the water movement at the sample location at the time of sampling, as given below.

1 = Stagnant	3 = Moderate	5 = Torrent
2 = Slow	4 = Fast	

WATER LEVEL: The single digit in this column provides a subjective estimate of water quantity at the time of sampling, relative to its usual condition at the sample location, as given below.

1 = Dry	3 = Normal	5 Flood
2 = Low	4 = High	

WATER COLOR: The single digit in this column provides a subjective evaluation of suspended load in the sample water as, given below.

1 = Clear	3 = Cloudy	5 = Algal
2 = Murky	4 = Muddy	6 = Other

STREAM CHANNEL: The single digit here gives a subjective evaluation of stream channel character at the sample location at the time of sampling, as given below.

1 = Depositing	2 = Eroding	3 = Unknown
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VEGETATION TYPE: The single digit in this column provides a subjective evaluation of the dominant plant type in the vicinity of the sample location, as given below.

1 = Conifers	4 = Grass	7 = Other
2 = Deciduous	5 = Moss	
3 = Brush	6 = Marsh	

VEGETATION DENSITY: The single digit in this column provides a subjective estimate of the amount of plant cover in the vicinity of the sample location, as given below.

1 = Barren	3 = Moderate	5 = Very Dense
2 = Sparse	4 = Dense	

RELIEF: The single digit in this column provides a subjective evaluation of the topography within a few hundred meters of the sample location, as given below.

1 = Flat	3 = Gentle (15-60 m)	5 = High (<300 m)
2 = Low (>15 m)	4 = Moderate (60-300 m)	6 = Other

WEATHER: The single digit in this column gives the observed climatic condition at the sample location at the time of sampling, as given below.

1 = Clear	3 = Overcast	5 = Snowy
2 = Partly cloudy	4 = Rainy	6 = Other

OWNERSHIP: When shown, the single digit here gives a broad classification of administrative responsibility or general ownership of the land at the sample location, as given below.

1 = Federal	3 = Private	5 = Other
2 = State	4 = Indian	

CONTAMINANTS: The single digit here indicates known or suspected local factors likely to influence analytical results, as given below.

1 = None	4 = Industry	7 = Urban
2 = Mining	5 = Sewage	8 = Recreation
3 = Agriculture	6 = Power generation	9 = Other

WELL TYPE: If a well water sample, the single digit in this column provides a general description of the type of well from which the sample was taken as given below.

1 = Windmill-stock	4 = Suction pump	7 = Hand bail
2 = Windmill-domestic	5 = Jet pump	8 = Unknown
3 = Submersible pump	6 = Large turbine	9 = Other

WELL DIAMETER: When shown, the one or two digits in this column give the measured or estimated inside diameter, in inches, of the well casing from which the water sample came.

WELL DEPTH: When shown, the one, two, or three digits in this column give the total drilled depth from the surface, in feet, of the well from which the sample came. Three 9s in this column indicates a well depth greater than 1000 ft.

WATER DEPTH: When shown, the one, two, or three digits in this column give the known depth, in feet, from the surface to the standing water in the well. A -1 in this column indicates a flowing artesian well.

URANIUM CONCENTRATION: The value given in this column is the analytically derived value of the total uranium concentration found in the water sample in parts per billion (ppb), or in the sediment sample in parts per million (ppm). Those uranium concentrations in water that are shown with an asterisk were measured using a delayed-neutron counting method, while those without an asterisk were determined fluorometrically. The uranium analyses as determined by both of these methods at the LASL are directly comparable, as described in Appendix A.

APPENDIX D-II

KEY TO SAMPLE TYPES

This numerical key provides the necessary tie between the specific type or form of each sample taken and each individual suite of field and laboratory data to which the sample relates. It defines the various sample types collected by the LASL in the DOE HSSR for uranium.

The two-digit key number assigned to each sample type designates three distinct properties of the samples taken. These properties are: (a) The general sample source (spring or stream or dry stream, etc.); (b) The sample medium (water or sediment, etc.); and (c) The treatment given the sample in the field or laboratory prior to its analysis by the LASL.

The key numbers are inserted in the appropriate columns of the specially formatted DOE sample numbering system to positively identify the sample type for all LASL sample data submitted.

<u>KEY NO.</u>	<u>SOURCE</u> / <u>MEDIUM</u> / <u>TREATMENT</u>
01 -	<u>Spring water</u> sample <u>untreated</u> .
02 -	<u>Stream water</u> sample <u>untreated</u> .
03 -	<u>Well water</u> sample <u>untreated</u> .
04 -	<u>Natural pond water</u> sample <u>untreated</u> .
05 -	<u>Artificial pond water</u> sample <u>untreated</u> .
06 -	<u>Spring water</u> sample <u>filtered</u> through an 0.45- μ membrane filter <u>and acidified</u> to a pH of ≤ 1 with reagent-grade nitric acid (HNO_3).
07 -	<u>Stream water</u> sample <u>filtered</u> through an 0.45- μ membrane filter <u>and acidified</u> to a pH of ≤ 1 with reagent-grade nitric acid (HNO_3).
08 -	<u>Well water</u> sample <u>filtered</u> through an 0.45- μ membrane filter <u>and acidified</u> to a pH of ≤ 1 with reagent-grade nitric acid (HNO_3).
09 -	<u>Natural pond water</u> sample <u>filtered</u> through an 0.45- μ membrane filter <u>and acidified</u> to a pH of ≤ 1 with reagent-grade nitric acid (HNO_3).
10 -	<u>Artificial pond water</u> sample <u>filtered</u> through an 0.45- μ membrane filter <u>and acidified</u> to a pH of ≤ 1 with reagent-grade nitric acid (HNO_3).
11 -	<u>Wet spring sediment</u> sample <u>dried</u> at $\leq 100^\circ\text{C}$ <u>and sieved to -100 mesh</u> through stainless steel sieves.
12 -	<u>Wet stream sediment</u> sample <u>dried</u> at $\leq 100^\circ\text{C}$ <u>and sieved to -100 mesh</u> through stainless steel sieves.
13 -	<u>Wet natural pond sediment</u> sample <u>dried</u> at $\leq 100^\circ\text{C}$ <u>and sieved to -100 mesh</u> through stainless steel sieves.

- 14 - Wet artificial pond sediment sample dried at $\leq 100^{\circ}\text{C}$ and sieved to -100 mesh through stainless steel sieves.
- 15 - Dry stream sediment sample dried at $\leq 100^{\circ}\text{C}$ (if necessary) and sieved to -100 mesh through stainless steel sieves.
- 96 - Dry natural pond sediment sample dried at $\leq 100^{\circ}\text{C}$ (if necessary) and sieved to -100 mesh through stainless steel sieves.
- 97 - Dry artificial pond sediment sample dried at $\leq 100^{\circ}\text{C}$ (if necessary) and sieved to -100 mesh through stainless steel sieves.
- 98 - Other water These key numbers are to be used only for water (98) or sediment (99) samples coming from a special source and/or given a special treatment not described for any of the types of samples above. When used in the listings published herein, the source and treatment given the samples so designated are described in the text.
- 99 - Other sediment

LA-7182-MS

PLATE I

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SAMPLE LOCATION ON
NEW MEXICO PORT
HOBBS NTMS QUADRANGLE,

5

ANGLE
Y

00

15 20 25 MILES

15 20 25 KILOMETERS

OVERLAY FOR THE
RTION OF THE
NEW MEXICO; TEXAS

NEW MEXICO

110°	108°	106°	104°	102°
37°	SHI ROCK NJ 12-12	AZTEC NJ 13-10	RATON NJ 13-11	DALHART NJ 13-12
36°	GALLUP NI 12-3	ALBUQUERQUE NI 13-1	SANTA FE NI 13-2	TUCUMCARI NI 13-3
35°	ST JOHNS NI 12-6	SOCORRO NI 13-4	FORT SUMNER NI 13-5	CLOVIS NI 13-6
34°	CLIFTON NI 12-9	TULAROSA NI 13-7	ROSWELL NI 13-8	BROWNFIELD NI 13-9
33°	SILVER CITY NI 12-12	LAS CRUCES NI 13-10	CARLEBAD NI 13-11	HOBBS NI 13-12
32°	DOUGLAS NH 12-3	EL PASO NH 13-1	VAN HORN NH 13-2	PECOS NH 13-3
31°	110°	108°	106°	104°

LA-7182-MS

PLATE I-A

NTMS QUADRANGLE

30'

15'

3

NEW MEXICO
TEXAS

NTMS QUADRANGLE
BOUNDARY

30'

NEW MEXICO
TEXAS

15'

4

32°00'

LEGEND

SYMBOLS		CONCENTRATIONS (ppb)			
△	NATURAL LAKE OR POND	△	◇	○	0.00- .50
▽	ARTIFICIAL LAKE OR POND	△	◇	○	.51- 1.00
◇	SPRING	△	◇	○	1.01- 2.00
○	WELL	△	◇	○	2.01- 5.00
		△	◇	○	5.01- 10.00
		△	◇	○	10.01- 20.00
		△	◇	○	20.01- 50.00
		△	◇	○	> 50.00

URANIUM CONCENTRATIONS
OVERLAY TO THE NEW MEXICO
HOBBS NTMS QUADRANGLE,

.50
1.00
2.00
5.00
10.00
10.00
10.00
10.00
10.00

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CONCENTRATIONS (ppb) IN WATERS
MEXICO PORTION OF THE
RIO GRANDE, NEW MEXICO; TEXAS

6

LA-7182-MS

PLATE I-B

30'

15'

3

NEW MEXICO

NTMS QUADRANG
BOUNDARY

4

QUADRANGLE
BOUNDARY

32° 00'

LEGEND

SYMBOLS

WET SPRING

WET NATURAL LAKE OR POND

WET ARTIFICIAL LAKE OR POND

DRY STREAM

DRY NATURAL LAKE OR POND

DRY ARTIFICIAL LAKE OR POND

CONCENTRATIONS (ppm)

○	△	▽	⊠	○	⊕	0.0- 1.0
◇	△	▽	⊠	○	⊕	1.1- 1.5
◇	△	▽	⊠	○	⊕	1.6- 2.0
◇	△	▽	⊠	○	⊕	2.1- 2.5
◇	△	▽	⊠	○	⊕	2.6- 3.0
◇	△	▽	⊠	○	⊕	3.1- 4.0
◇	△	▽	⊠	○	⊕	4.1- 5.0
◇	△	▽	⊠	○	⊕	> 5.0

URANIUM CONCENTRATIONS (ppm)
OVERLAY TO THE NEW MEXICO
HOBBS NTMS QUADRANGLE, N

0.0-	1.0
1.1-	1.5
1.6-	2.0
2.1-	2.5
2.6-	3.0
3.1-	4.0
4.1-	5.0
>	5.0

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6

ONS (ppm) IN SEDIMENTS
 MEXICO PORTION OF THE
 TULE, NEW MEXICO; TEXAS

LA-7182-MS

2

PLATE II

30

15'

2 1610 1609 1608 1606 1125 1127 1187 1184 1192 1153 1160 1611 1337 1335 1336 1337 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500 1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700 1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000

NEW MEXICO
TEXAS

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SAMPLE LOCATION OV
NEW MEXICO PORT
BROWNFIELD NTMS QUADRANGLE

5

ERLAY FOR THE
TION OF THE
E, TEXAS; NEW MEXICO

NEW MEXICO

37°	SHILOH NJ 12-12	AZTEC NJ 13-10	RATON NJ 13-11	DALHART NJ 13-12	37°
36°	GALLUP NI 12-3	ALBUQUERQUE NI 13-1	SANTA FE NI 13-2	TUCUMCARI NI 13-3	36°
35°	ST. JOHNS NI 12-6	SOCORRO NI 13-4	FORT SUMNER NI 13-5	CLOVIS NI 13-6	35°
34°	CLIFTON NI 12-9	TULAROSA NI 13-7	ROSWELL NI 13-8	BROWNFIELD NI 13-9	34°
33°	SILVER CITY NI 12-12	LAS CRUCES NI 13-10	CARLSBAD NI 13-11	HOBBBS NI 13-12	33°
32°	DOUGLAS NH 12-3	EL PASO NH 13-1	VAN HORN NH 13-2	PECOS NH 13-3	32°
31°					31°

LA-7182-MS

PLATE II-A

V

3

30'

15'

NTMS QUADRANGLE
BOUNDARY

33°00'
104°00'

45'

30'

NEW
T

30'

15'

33°00'

103°00'

4

NTMS QUADRANGLE
BOUNDARY

45

30'

SCALE 1:250 000

LEGEND

SYMBOLS

CONCENTRATIONS (ppb)

WATER LAKE OR POND

WATER LAKE OR POND

WELL

0.00- .50
.51- 1.00
1.01- 2.00
2.01- 5.00
5.01- 10.00
10.01- 20.00
20.01- 50.00
> 50.00

URANIUM CONCENTRATIONS
OVERLAY TO THE NEW MEXICO
BROWNFIELD NTMS QUADRANGLE

E 1:250 000

50
1.00
2.00
5.00
10.00
20.00
50.00
50.00

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**TIONS (ppb) IN WATERS
MEXICO PORTION OF THE
ANGLE, TEXAS; NEW MEXICO**

LA-7182-MS

PLATE II-B

4

NEW MEXICO
TEXAS

NTMS QUADRANGLE BOUNDARY

SCALE 1:250 000

10 15 20 25 MILES

30'

15'

33°00'

103°00'

33°00'
104°00'

45'

30'

SCALE 1:250 000

LEGEND

SYMBOLS		CONCENTRATIONS (ppm)
WET NATURAL LAKE OR POND					0.0- 1.0
WET ARTIFICIAL LAKE OR POND					1.1- 1.5
DRY STREAM					1.6- 2.0
DRY NATURAL LAKE OR POND					2.1- 2.5
DRY ARTIFICIAL LAKE OR POND					2.6- 3.0
		3.1- 4.0
		3.6- 4.0
		4.1- 5.0
		4.6- 5.0
		5.1- 5.0
		5.6- 5.0
		6.1- 5.0
		6.6- 5.0
		7.1- 5.0
		7.6- 5.0
		8.1- 5.0
						8.6- 5.0
						9.1- 5.0
						9.6- 5.0
						10.1- 5.0
						10.6- 5.0
						11.1- 5.0
						11.6- 5.0
						12.1- 5.0
						12.6- 5.0
						13.1- 5.0
						13.6- 5.0
						14.1- 5.0
						14.6- 5.0
						15.1- 5.0
						15.6- 5.0
						16.1- 5.0
						16.6- 5.0
						17.1- 5.0
						17.6- 5.0
						18.1- 5.0
						18.6- 5.0
						19.1- 5.0
						19.6- 5.0
						20.1- 5.0
						20.6- 5.0
						21.1- 5.0
						21.6- 5.0
						22.1- 5.0
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						23.1- 5.0
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						25.1- 5.0
						25.6- 5.0
						26.1- 5.0
						26.6- 5.0
						27.1- 5.0
						27.6- 5.0
						28.1- 5.0
						28.6- 5.0
						29.1- 5.0
						29.6- 5.0
						30.1- 5.0
						30.6- 5.0
						31.1- 5.0
						31.6- 5.0

NTMS QUADRANGLE BOUNDARY

30

15

33°00'
103°00'

SCALE 1:250,000

10 15 20 25 MILES

10 15 20 25 KILOMETERS

0.0-	1.0
1.1-	1.5
1.6-	2.0
2.1-	2.5
2.6-	3.0
3.1-	4.0
4.1-	5.0
>	5.0

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IONS (ppm) IN SEDIMENTS
MEXICO PORTION OF THE
RANGLE, TEXAS; NEW MEXICO