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Informal Report

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**Uranium Hydrogeochemical and Stream Sediment
Reconnaissance of the
Bozeman NTMS Quadrangle, Montana**

University of California

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**Uranium Hydrogeochemical and Stream Sediment
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Stephen L. Bolivar

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URANIUM HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE
OF THE BOZEMAN NTMS QUADRANGLE, MONTANA

by

Stephen L. Bolivar

ABSTRACT

The Los Alamos Scientific Laboratory conducted a hydro-geochemical and stream sediment reconnaissance for uranium in the Bozeman NTMS quadrangle, Montana, as part of the National Uranium Resource Evaluation. A total of 1251 water and 1536 sediment samples were collected from 1586 locations over a 17 400-km² area at a nominal density of one location per 10 km². Samples were collected predominantly from surface streams although 38 ground water locations were also sampled. For the purpose of discussion, arbitrary anomaly thresholds of nominally two standard deviations above the mean were chosen for both water and sediment sample populations.

The uranium concentrations in waters sampled range from below the detection limit of 0.20 parts per billion (ppb) to 41.35 ppb. The mean uranium concentration for all water types is 1.17 ppb. Waters with anomalous uranium concentrations as defined were found in tributaries of the Boulder River which drain Precambrian rocks in the Beartooth Mountains and in tributaries of the Three Forks basin which are underlain predominantly by Tertiary-Quaternary sediments. The two areas appearing most favorable for future exploration on the basis of water data are in the Three Forks basin in the vicinity of the Madison plateau and in a district about 20 km due west of Three Forks.

Sediment samples from the quadrangle were found to have uranium concentrations that range from 0.90 parts per million (ppm) to 94.30 ppm, with a mean concentration of 3.71 ppm. The majority of anomalous sediment samples were collected from areas underlain by Precambrian rocks. Based on the data from sediments, the areas appearing most favorable for future exploration include the tributaries of the Boulder River in the Beartooth Mountains, the northern part of the Madison Range, and the Tobacco Root Mountains just north of Virginia City. The uranium concentrations in the sediments from these areas are probably associated with uraniferous siliceous veins or pegmatites.

I. INTRODUCTION

This report describes work done in the Bozeman, Montana, National Topographic Map Series (NTMS) quadrangle (1:250 000 scale) 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) 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.

A total of 1251 water and 1536 sediment samples were collected at 1586 sample locations in the Bozeman quadrangle. A professional consulting firm contracted by the LASL collected the samples between September 4 and November 11, 1976, at a nominal density of one sample location per 10 km². The standardized field, analytical, and data management procedures used by the LASL during this study are briefly described in Appendix A and in reports by Hues et al (1977), Sharp (1977), Cheadle (1978), and Sharp and Aamodt (1978). Adjacent areas for which HSSR data are available or will soon be open filed include the Dillon quadrangle to the west (Broxton, in preparation) and southwestern Montana (Broxton, 1978).

Plates in the rear pocket of this report include a geologic map (Plate I), a sample location overlay (Plate II), a uranium concentration overlay for waters (Plate III), and a uranium concentration overlay for sediments (Plate IV). All plates are 1:250 000 scale and can be used in conjunction with the Bozeman NTMS quadrangle available through the US Geological Survey.

II. DESCRIPTION OF THE STUDY AREA

Location and Geographic Setting

The study area covers about 17 400 km² in the southwest portion of Montana (Fig. 1). The major topographic features consist of several linear northwest- and northeast-trending mountain ranges that are separated or surrounded by broad intermontane basins. The elevations of the ranges, which display a steep and rugged topography, vary between 2100 m and 3000 m. The elevations of the basins are between 1500 m and 1800 m. Terraces, representing various episodes of late Tertiary erosion, dip gently toward the centers of the basins (Pardee, 1950). The entire quadrangle is within the Northern Rocky Mountain physiographic province of Fenneman (1931).

Higher elevations support heavily-wooded forests of pine, spruce, and fir, while vegetation in the basins consists principally of sagebrush and native grasses. Above timberline the mountains are largely barren except for an intermittent cover of alpine tundra, mosses, and lichens.

Paved highways and unimproved dirt roads provide good access to all but the rugged mountain areas. The region is sparsely populated, with most of the people living in Bozeman and Livingston. Farming and cattle raising are the major industries.

Fig. 1. Index map showing major drainage patterns and topographic features of the Bozeman quadrangle, Montana.

Climate

The climate in southwestern Montana is semiarid in the basins and semi-humid in the mountainous regions. Summers are moderate and winters are long and cold. Annual precipitation averages about 300 mm in the basins but may be 2-3 times as much in the mountains. A large fraction of the precipitation falls as snow during the winter months, while maximum rainfall occurs during May, June, and July (National Oceanic and Atmospheric Administration, 1976).

The majority of the field sampling was done in October, 1976, after most of the summer rains had fallen. Information about the weather conditions at each location at the time of sampling is included in the data listings of Appendixes B and C.

Drainage and Hydrology

The Jefferson, Gallatin, and Madison Rivers and their tributaries drain the western half of the Bozeman quadrangle. These rivers merge near Three

Forks to become the Missouri River. The eastern half of the quadrangle is drained by the Yellowstone and Boulder Rivers which flow northeast through the area.

The principal ground water reservoirs in the area are in the surficial and unconsolidated sediments in the intermontane basins (Perry, 1962). Recharge of these reservoirs takes place by influx of seasonal runoff from the adjacent mountains and by rain water, whereas discharge is by effluent seepage into springs and streams, by evaporation and transpiration, and by pumping of wells.

The waters of southwestern Montana are classified as a calcium bicarbonate type having a dissolved-solids range of 50 to 500 ppm (US Geological Survey and Montana Bureau of Mines and Geology, 1963).

III. GEOLOGY

General

The Bozeman quadrangle contains a wide variety of igneous, metamorphic, and sedimentary rocks representing all major geologic eras (Fig. 2). A brief description of the major rock units in the area is included in Plate I. Detailed descriptions on the geology of the area can be found in works by Pardee (1950), Moritz (1951), Sloss and Moritz (1951), Reid (1957), Perry (1962), McMannis (1965), Scholten (1968), Harrison and Grimes (1970), and Ryder and Scholten (1973). Although this is not a complete bibliography of the extensive literature for the area, these references cover most of the stratigraphic units in the quadrangle and will guide the interested reader to detailed studies. The following discussion has been compiled primarily from Perry (1962) and Broxton (1978). Other references are cited where appropriate.

Stratigraphy

The oldest rocks in the Bozeman quadrangle consist of a highly deformed and metamorphic crystalline basement complex. Rocks of this complex were originally deposited as carbonate and clastic sediments that were regionally metamorphosed and isoclinally folded into gneiss, schist, quartzite, and marble. The thickness of these units can be up to 6 km, although near Ennis they total only 2.75 km (Perry, 1962). Exposures of this early Precambrian metamorphic complex are limited to the cores of the major mountain ranges, such as in the Gravelly Range and Tobacco Root Mountains.

The basement complex is separated from the overlying Precambrian Belt series by a major unconformity (Pardee, 1950). The Belt series consists of late Precambrian geosynclinal deposits comprised predominantly of slightly metamorphosed argillites, micaceous metaquartzites, and dolomites (Harrison and Grimes, 1970; Harrison, 1972). Belt sediments, which reach a thickness up to 3050 m in the Bridger Range, are found in the northwestern part of the quadrangle (McMannis, 1965). These late Precambrian sediments apparently were not deposited in the eastern portion.

Paleozoic and Mesozoic sediments, which unconformably overlie the Belt series, are generally widespread, thin, and lithologically uniform. During the Paleozoic, transgressive and regressive seas deposited limestone and dolomite with minor amounts of shale and sandstone. By Mesozoic time there was a gradual change from shallow marine to continental sedimentation (Moritz, 1951; Perry, 1962). Thickness of the Paleozoic and Mesozoic sequence increases from 1500 m in the east to 3000 m in the western part of the Bozeman quadrangle as the Cordilleran miogeosyncline is approached (Sloss and Moritz, 1951).

Fig. 2. Major geologic and structural elements in the Bozeman quadrangle, Montana.

Cenozoic deposits, ranging in age from early Tertiary to Recent, consist of lacustrine, eolian, and fluvial sediments interbedded with volcanic debris and thin rhyolite and basalt flows (Scholten et al, 1955). Rock types include conglomerate, sandstone, carbonaceous shale, and fresh-water limestone. These continental deposits are confined primarily to intermontane basins and are over 1000 m thick in places (Robinson, 1961). Quaternary terrace gravel and glacial drift overlie the late Tertiary deposits.

Igneous Rocks

Precambrian igneous rocks include several granitic masses in the Beartooth Mountains and elongated masses of chromite in the norite layer of the Stillwater igneous complex near the north end of the Beartooths.

During the late Cretaceous-early Tertiary, deep-seated igneous activity coincided with the Laramide orogeny. It was during this time that the Boulder batholith and Tobacco Root batholith were emplaced in the western part of the quadrangle. These intrusions are quartz monzonite to granodiorite in composition and cut across most major Laramide structures (Perry, 1962).

In middle Tertiary (Eocene) a major zone of calc-alkalic volcanism, known as the Absaroka-Gallatin volcanic province, deposited several thousand feet of pyroclastics (Chadwick, 1972). These deposits cover much of the southeastern part of the Bozeman quadrangle. It was also at this time that the Crazy Mountain laccolith and the associated radial dike pattern probably formed. As with the early-Tertiary volcanism, middle-Tertiary extrusives show no dependence on pre-existing structures.

The latest igneous activity occurred in the Pliocene and Pleistocene as thin basaltic flows were extruded. Examples of these flows, which are contemporaneous with volcanism in the Yellowstone volcanic field, are found in the Yellowstone River valley about 50 km south of Livingston, in the Madison River valley about 30 km south of Ennis, and in the Gravelly Range about 10 km south of Virginia City.

Structure

The present structural picture in southwestern Montana is a complex mosaic of three periods of deformation further complicated by post-Laramide volcanic activity and the effects of alpine glaciation (Fig. 2). The basement complex there consists of metamorphic rocks that were regionally metamorphosed and isoclinally folded during the Precambrian. The major fold axes and regional foliation trend north and northeast (Heinrich and Rabbit, 1960).

The next period of major deformation occurred during the late Cretaceous-early Tertiary, as the Laramide orogeny. Folds, thrust faults, and normal faults formed during this episode generally trend north (McMannis, 1965). The thrusts are both the upthrust type, in which movement is dominantly vertical, and the low-angle, decollement type, on which folded Precambrian Belt metasediments through early Eocene sediments have been moved northeastward (Ryder and Scholten, 1973).

Fault block mountains, with displacements of 300 m to 1500 m, were produced during the latest period of deformation which took place from middle- to late-Tertiary time. These mountains, which include the Bridger and Madison Ranges, and their intermontane basins, are bounded by north-south trending, high-angle, normal faults that cut across pre-existing Precambrian and Laramide structures. Movement on some of these faults has continued into recent time (Pardee, 1950).

Uranium Occurrence

Known uranium deposits in the state of Montana are found in a variety of geologic settings. In the Pryor Mountains of south-central Montana, deposits are reported as fracture fillings in brecciated limestone of the Madison formation. Uranium-bearing lignites and carbonaceous shales are reported from the Ekalaka Hills and Long Pine Hills in eastern Montana, whereas carbonaceous sandstones of the Fort Union formation also contain uranium ore in southeastern Montana (in the Ollie area and Long Pine Hills region of Carbon County). Uraniferous veins are found in silicified and sericitized quartz monzonite and granodiorite of the Boulder batholith. Lastly, uranium deposits also occur statewide in the phosphatic rocks of the Permian Phosphoria formation.

In the Bozeman quadrangle only seven minor uranium occurrences are reported (Table I and Plate III). Most of these are either associated with veins in Precambrian rocks or radioactive carbonaceous shales interbedded with volcanics in Tertiary basin sediments. Also, low-grade uranium deposits are disseminated throughout the Phosphoria formation. Swanson (1970) estimates that over 148 000 tons of uranium are available from the Retort member of this formation in the southwestern part of the Bozeman quadrangle.

IV. PRESENTATION OF ANALYTICAL AND STATISTICAL DATA

The following sections contain statistical summaries and brief evaluations of the uranium data for both the water and sediment samples. A summary of the standard LASL field and analytical procedures is given in Appendix A. Field measurements, weather, geologic, geographic, and uranium data for each sample site are listed for waters in Appendix B and for sediments in Appendix C. Appendix D is a key explaining the codes used in Appendixes B and C. The data presented in Appendixes B and C are also available on computer tape from the Grand Junction Office Information Service (GJO IS) at the Oak Ridge Gaseous Diffusion Plant, Tennessee.

All samples were analyzed for total uranium at the LASL, water samples by fluorometry and all sediments by delayed-neutron counting (DNC). In discussing the statistical data, an "anomaly threshold" of nominally two standard deviations above the mean was arbitrarily selected to delineate those samples with significantly higher-than-average uranium concentrations. The value of an anomaly threshold is difficult to determine, particularly where background concentrations vary from region to region. Therefore, a uranium concentration above an arbitrary anomaly threshold in a particular sample does not necessarily imply uranium mineralization at that particular location; rather, it suggests that the potential for such mineralization is higher at that site than at a locality where the uranium content of the sample is below the anomaly threshold.

Furthermore, the following sections are not intended to represent a rigorous evaluation of the data. They are included to verify and validate the data, to identify obvious groups of samples with high uranium concentrations, and to describe briefly the geologic settings in which these samples occur. Limiting the discussion to such groups of so-called "anomalous" samples should not be construed as discounting the possible significance of the remaining samples. Experience at the LASL with HSSR uranium data from other areas has shown that many more specific and interesting conclusions relating the uranium data to the regional geology and known uranium occurrences can be obtained by

TABLE I
REPORTED URANIUM OCCURRENCES IN THE BOZEMAN QUADRANGLE, MONTANA

<u>Occurrence Name^a</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Remarks</u>	<u>Reference</u>
1. Rudd Property, Bridge Creek	45°16'N	110°18'W	Uranium mineralization (tyuyamunite) is reported in a vein deposit along the contact between the Cambrian Flathead quartzite and Precambrian metamorphic rocks.	Sahinen, 1955; Elevatorski, 1977.
2. Corwin Springs	45°07'N	110°47'W	The spring deposits are radioactive but no uranium mineralization is reported.	Sahinen, 1955.
3. Sappington	45°46'N	111°45'W	Samarskite (fergusonite) is found in a quartz-feldspar-muscovite pegmatite intruded into Precambrian gneiss.	Sahinen, 1955.
4. Hi Boy Claims	45°58'N	111°47'W	Radioactive shale.	Jarrard, 1955.
5. Townsend Valley	45°56'N 45°57'N 45°56'N	111°41'W 111°42'W 111°42'W	Radioactive carbonaceous shale interbedded with bentonite and tuff is found at three localities.	Pruitt, 1955; Becraft, 1958.
6. Unnamed	45°57'N	111°27'W	Radioactive shale.	Elevatorski, 1977.
7. Unnamed	45°54'N	111°16'W	Radioactive shale.	Elevatorski, 1977.

^a Location of each occurrence is shown on Plate III.

a more thorough evaluation than is possible here. A particularly useful approach has been the contouring of sample groups at different concentration intervals and the studying of closed contours in relation to topography, drainage patterns, known uranium occurrences, faults, and favorable host and source rocks (Sharp and Hill, 1978). Such a comparison can identify relationships with those areas that might be expected to have naturally high or low uranium concentrations as well as those with subtle or unexplained uranium trends above the local background. These latter trends may be significant to uranium exploration and worthy of further investigation and field work. However, such a detailed evaluation of the data is beyond the LASL charter to collect, verify, and publish the basic data for the HSSR program in the Rocky Mountain states and Alaska by the mid-1980's.

Water Treatment Results

The standard LASL treatment (Appendix A) was not followed for 303 of the water samples, so the water samples for which data are presented include groups given one of three different sample treatments. Some 244 waters collected in the northeast and northwest corners of the Bozeman quadrangle received no treatment, whereas 59 samples taken north of the Beartooth Mountains and along

TABLE II

STATISTICAL DATA FOR WATER SAMPLES FROM THE BOZEMAN QUADRANGLE, MONTANA,
WITH RESPECT TO TREATMENT

<u>Sample Type</u>	<u>Treatment</u>	<u>Sample Size</u>	<u>Range (ppb)</u>		<u>Mean (ppb)</u>	<u>Standard Deviation</u>
			<u>Minimum</u>	<u>Maximum</u>		
All waters	All treatments	1251	0.10	41.35	1.17	2.13
All waters	Filtered and acidified	948	0.10	15.34	0.96	1.23
All waters ^a	Acidified only	59	0.20	6.67	1.30	1.20
All waters ^b	No treatment	244	0.10	41.35	1.92	4.05
Spring waters	Filtered and acidified	18	0.10	15.35	2.08	3.52
Spring waters	No treatment	19	0.25	12.20	3.79	3.99
Stream waters	Filtered and acidified	930	0.10	12.30	0.94	1.13
Stream waters	Acidified only	59	0.20	6.67	1.30	1.20
Stream waters	No treatment	225	0.10	41.35	1.76	4.02

^a The recalculated mean after dropping the two uranium values greater than 6.00 ppb is 1.13 ppb.

^b The recalculated mean after dropping the 14 uranium values greater than 10.00 ppb is 1.37 ppb.

tributaries of the southern part of the Gallatin River were acidified only. All the remaining 948 water samples were filtered and acidified. The results are tabulated by treatment in Table II and those for the individual samples given different treatments are designated as such on Plate III. In general, water samples receiving no treatment have greater uranium concentrations than water samples that were acidified only or filtered and acidified, regardless of source type.

It has been found in other LASL HSSR studies that the correlation between uranium concentrations in water samples given these various treatments is generally very good (Sharp and Aamodt, 1976; Aamodt, 1978), although systematic differences sometimes occur within groups given any particular treatment (Olsen, 1977). In fact, Aamodt (1978) reports little notable effect on the measured uranium due to the different treatments for waters from mountainous areas in western Montana. However, the above studies deal with several water samples from the same location that received multiple treatments whereas the sample taken from any one location during this study has one treatment only.

In any particular area, the uranium content in waters is a complex function of the geochemistry, hydrology, topography, climate, and available uranium in the drainage area. These factors, as well as treatment and source, must be considered in detailed evaluations, which are beyond the scope of this report. Of the total 1251 water samples, only 3% are ground waters (Table II); therefore, in the following discussion only one source type, surface streams, will be considered.

The majority of the untreated water samples are from streams that drain intermontane basins, particularly the Three Forks basin. Stream samples that are either acidified only or filtered and acidified are predominantly from locations near, or on the flanks of, mountainous regions. An increase in sediment load or total dissolved solids (approximated by specific conductance) usually corresponds to an increase in uranium in natural waters (Illsley et al, 1958; Scott and Barker, 1958; Dyck, 1975). Surface waters draining mountainous regions typically have low specific conductances (low dissolved solids content) and tend to have relatively short dispersion trains of uranium (Chamberlain, 1964; Aamodt, 1977). This first relationship appears to be valid for water samples from the Bozeman quadrangle, as is shown in Tables II and III. Surface waters from the intermontane basins, which generally correspond to untreated water samples, have a higher specific conductance (and consequently higher dissolved solids content and uranium concentrations) than do water samples collected from the flanks of the mountain ranges. The specific conductance at each sample location is measured in the actual stream or spring and is not affected by treatment, which is done independently and after the specific conductance measurement is taken. Therefore, the conductivity is a measurement of the dissolved solids content and is not a function of the treatment.

Lastly, it is emphasized that, in this discussion, clusters of water samples with anomalous uranium concentrations are anomalous both in respect to samples that have the same treatment and in respect to all water samples regardless of treatment.

Uranium Concentrations in Water Samples

A total of 1214 water samples were collected from surface streams and 37 were collected from springs in the Bozeman quadrangle. The basic statistical data for waters are summarized by sample type and treatment in Table II. Uranium concentrations for waters of all types range from below the detection limit of 0.20 to 41.35 ppb and have a mean of 1.17 ppb. Semilogarithmic histograms for streams and springs, distinguished by type and treatment, are shown

TABLE III
SPECIFIC CONDUCTANCE AND RELEVANT DATA FOR VARIOUS TREATMENTS
OF WATER SAMPLES FROM THE BOZEMAN QUADRANGLE, MONTANA

<u>Total Samples</u>	<u>Treatment</u>	<u>Drainage Area</u>	<u>Average Specific Conductance (μmho/cm)</u>
244	Untreated	Three Forks basin, Crazy Mountains basin	403
59	Acidified	Gallatin-Madison Range valley and southern part of the Crazy Mountain basin (just north of the Beartooth Mountains)	390
948	Filtered and acidified	Mostly mountainous areas and part of the Madison River basin	254

in Figs. 3, 4, and 5. Although there is a statistically small population of ground waters, the mean uranium concentration for these waters is higher than the mean for surface waters. This can probably be attributed to a higher background level in ground waters because of their longer and more intimate contact with the surrounding rocks. Sharp and Aamodt (1976) report similar findings for an area in central Colorado. Cumulative frequency plots of the uranium concentrations in the various water types with respect to treatment are given in Appendix E.

About 3% (34 out of 1251) of the water samples have uranium concentrations above the arbitrarily chosen anomaly threshold of 5 ppb (Table IV). The bulk of these samples are in the four clusters shown in Fig. 6 and will be briefly discussed below.

Cluster W1 in Fig. 6 contains three stream samples that were collected from tributaries of the Boulder River that cut through Precambrian rock units in the Beartooth Mountains. In similar geologic terrain, but southeast of the Bozeman quadrangle, Hjeltvik (1976) reports secondary uranium mineralization associated with the Cambrian Flathead sandstone and Precambrian granites and Simons et al (1973) report uraninite in Precambrian pegmatites.

A major cluster of water samples with anomalous uranium concentrations, designated W2 in Fig. 6, is in the vicinity of the Madison plateau in the Three Forks basin where streams drain Tertiary-Quaternary sediments. Two spring locations sampled on the western edge of this cluster are underlain by Precambrian rocks.

Cluster W3 consists of several samples from springs and streams that also drain Tertiary-Quaternary (mostly Oligocene-Miocene-Pliocene) sediments. Three known uranium occurrences are found within the limits of this cluster. Wopat et al (1977) rate this area with a good favorability for uranium mineralization. Furthermore, this cluster is only a few kilometers south of the Boulder batholith which contains several uraniferous siliceous veins (Elevatorski, 1977).

The smallest cluster, W4, contains only one spring and one stream sample. These samples are found in a geologic terrain similar to that in cluster W3 and are located just south of two known uranium occurrences.

Wopat et al (1977) rate the Three Forks basin, part of which is located in the Bozeman quadrangle and contains clusters W2, W3, and W4, as having moderate to good favorability for uranium mineralization in undifferentiated Tertiary rocks. Due to the presence of feldspathic to arkosic potential host rocks, abundant tuffaceous material, and known uranium occurrences, favorability increases in lower Tertiary rocks and toward the western edge of the basin (just west of the Bozeman quadrangle) in Eocene and Oligocene strata. Known uranium occurrences in this area are found in carbonaceous shale or lignite interbedded with bentonite and tuff (Becraft, 1958).

Uranium Concentrations in Sediment Samples

A total of 1536 sediment samples were collected from springs and streams during this study. The basic statistical data for these sediments are summarized by sample type in Table V. Uranium concentrations in sediments range from 0.90 ppm to 94.30 ppm and have a mean of 3.71 ppm. Histograms of uranium concentrations for all sediments are shown in Figs. 7 and 8 and a cumulative frequency plot of uranium concentrations for all sediments is included in Appendix F. About 3% (41 out of 1536) of the sediment samples have uranium concentrations above the arbitrarily chosen anomaly threshold of 11 ppm (Table VI). The majority of these anomalous sediment samples occur in the three sediment clusters shown in Fig. 6.

Fig. 3. Semilogarithmic histogram for uranium concentrations in all waters from the Bozeman quadrangle, Montana

a. Filtered and acidified

b. No treatment

Fig. 4. Semilogarithmic histograms for uranium concentrations in spring waters from the Bozeman quadrangle, Montana, by treatment.

a. Filtered and acidified

b. Acidified only

c. No treatment

Fig. 5. Semilogarithmic histograms for uranium concentrations in stream waters from the Bozeman quadrangle, Montana, by treatment.

TABLE IV
SAMPLES WITH ANOMALOUS URANIUM CONCENTRATIONS IN WATERS (>5 PPB)
FROM THE BOZEMAN QUADRANGLE, MONTANA

Water Cluster ^a	LASL Sample Location Number ^b	Water Type	Total Uranium (ppb)	Geology ^c /Remarks
W1	M36704	Stream	7.19	These samples were collected from streams cutting through Precambrian rock units in the Beartooth Mountains. There is one known uranium occurrence about 5 km south of this cluster.
	M36465	Stream	5.16	
	M36467	Stream	9.19	
W2	M37207	Stream	11.25	The majority of these water samples occur in the vicinity of the Madison plateau in the Three Forks basin and are from streams that drain Quaternary-Tertiary sediments. The two spring samples were taken from an area underlain by Precambrian rocks.
	M37204	Stream	7.56	
	M37346	Spring	5.75	
	M37216	Stream	5.11	
	M37353	Spring	10.80	
	M37212	Stream	13.05	
	M37380	Stream	7.24	
	M37196	Stream	5.72	
	M37200	Stream	10.25	
	M37202	Stream	18.40	
W3	M37195	Stream	11.15	These water samples are predominately from springs and streams that drain middle and late Tertiary sediments in the Three Forks basin. Three known uranium occurrences are within this cluster.
	M37239	Stream	41.35	
	M37088	Stream	9.52	
	M37117	Spring	5.66	
	M37114	Spring	6.32	
	M37258	Stream	11.85	
	M37256	Spring	12.20	
	M37172	Spring	12.20	
W4	M37251	Stream	29.05	Both water samples were collected in an area underlain by Quaternary-Tertiary sediments. Two known uranium occurrences are just to the north.
	M37387	Stream	12.30	
	M37393	Spring	15.35	
none	M37508	Stream	10.35	This sample is from an area that drains Quaternary fan deposits.
none	M37497	Stream	7.00	This sample is from a stream that drains Precambrian rocks.
none	M37323	Stream	5.43	Andesite and basalt underly this sample location.
none	M36750	Stream	5.68	This sample location is underlain by Cretaceous shales.
none	M37063	Stream	8.27	Cretaceous claystones and sandstones are found in the vicinity of this sample location.
none	M37076	Stream	8.63	Although this stream location is in alluvium, Tertiary intrusives and sediments are a km or so north.
none	M36876	Stream	9.90	This water sample location is underlain by the Tertiary Livingston formation.
none	M36721	Stream	6.18	Although separated from each other by several km, these three samples are from streams that drain the Tertiary Livingston formation.
	M36813	Stream	6.13	
	M36819	Stream	6.67	

^a The water sample clusters are shown schematically in Fig. 6.

^b The coordinates and sample descriptions of each sample location are listed in Appendix B.

^c Described from Plate I.

Fig. 6. Schematic diagram showing principal uranium anomaly clusters for water (W) and sediment (S) samples from the Bozeman quadrangle, Montana.

Cluster S1 is located in the Beartooth mountains and coincides with water cluster W1. Wet stream samples were collected from tributaries of the Boulder River that cut predominantly Precambrian rock units. Known base metal and uranium mineralization occurs in similar geologic terrain a few kilometers southeast of the Bozeman quadrangle (Hjelvik, 1976). In addition, there is uranium mineralization reported along the contact between the Cambrian Flathead sandstone and Precambrian metamorphic rocks at one locality within this cluster (Sahinen, 1955). Simons et al (1973) report uraninite in some pegmatites in the Beartooth Mountains southeast of the Bozeman quadrangle.

Cluster S2 contains 14 anomalous sediment samples whose locations generally outline Precambrian rocks in the Madison Range. The uranium in these samples is probably associated with the granitic gneiss and pegmatites in these mountains (Becraft et al, 1966).

The third cluster, designated S3 in Fig. 6, contains five stream samples taken from drainages that cut Precambrian rocks in the Tobacco Root Mountains.

TABLE V
SUMMARY OF URANIUM DATA FOR SEDIMENT SAMPLES
FROM THE BOZEMAN QUADRANGLE, MONTANA

Sample Type	Sample Size	Range (ppm)		Mean (ppm)	Standard Deviation
		Minimum	Maximum		
All Sediments ^a	1536	0.90	94.3	3.71	3.81
Spring Sediments	38	1.80	6.9	3.33	1.13
Wet Stream Sediments ^b	1167	1.00	94.3	3.80	4.15
Dry Stream Sediments	331	0.90	32.9	3.43	2.55

^a The recalculated mean after dropping the highest uranium value (94.30 ppm) is 3.65 ppm.

^b The recalculated mean after dropping the highest uranium value (94.30 ppm) is 3.72 ppm.

These mountains are a batholithic intrusion that was emplaced about the same time as the Boulder batholith (late Cretaceous). Uraniferous siliceous veins associated with these batholiths provide a good potential for low grade uranium deposits (Castor and Robins, 1978) and the anomalous uranium contents in sediments from this area are probably associated with veins of this type.

Correlation Between Known Uranium Occurrences and Anomaly Clusters

Only seven uranium occurrences are reported in the Bozeman quadrangle (Table I), and none of these contain major amounts of uranium mineralization. Therefore, one would not necessarily expect to find any indication of their existence unless a water or sediment sample was taken within a few hundred meters of the occurrence. However, all but localities 6 and 7 (in Table I) have sample locations within 5 km, and of the seven reported occurrences, all but one are in or very near clusters of either anomalous sediment or anomalous water samples. The one known occurrence which did not show up (locality 2 in Table I) is reported as a radioactive spring for which no uranium mineralization has been reported (Sahinen, 1955).

V. SUMMARY AND CONCLUSIONS

A total of 1251 water and 1536 sediment samples were collected over a 17 400-km² area from 1586 sample locations in the Bozeman quadrangle, Montana, at a nominal density of one sample per 10 km². Water and sediment samples were collected predominantly from surface streams, although 38 ground water locations were also sampled.

The mean uranium concentration found for all waters is 1.17 ppb. Spring waters have slightly higher uranium concentrations than stream waters but the significance of this is difficult to interpret because of the small population

Fig. 7. Histogram for uranium concentrations in all sediments from the Bozeman quadrangle, Montana.

of ground waters. Four clusters of water samples with anomalous uranium concentrations are noted (Fig. 6 and Table IV). Cluster W1 is in an area underlain by Precambrian rocks in the Beartooth Mountains. Uranium in samples from this cluster is probably associated with Precambrian pegmatites and/or mineralization between the Cambrian Flathead sandstone and underlying Precambrian metamorphic rocks. Clusters W2, W3, and W4 are grouped in the Three Forks basin and streams from these clusters drain Tertiary-Quaternary sediments rich in volcanic ash and detritus. Cluster W3 contains three known uranium occurrences that generally are associated with carbonaceous shale interbedded with bentonite and tuff (Becraft, 1958). Wopat et al (1977) rate the Three Forks basin as favorable for uranium mineralization due to the presence of potential host rocks, abundant tuffaceous material, and known uranium occurrences.

The mean uranium concentration found for sediments is 3.71 ppm. As with the waters, spring sediments from within the area have higher uranium concentrations than do the stream sediments. Descriptions of the three areas containing clusters of anomalous sediments are summarized in Table VI. One cluster, designated S1, coincides with water cluster W1 in the Beartooth Mountains. Cluster S2 contains sediment sample locations that outline Precambrian rocks in the Madison Range. Cluster S3 contains sediments taken from streams that drain Precambrian rocks in the Tobacco Root Mountains. The uranium concentrations in the samples in clusters S2 and S3 are probably associated with uraniferous siliceous veins or pegmatites. Castor and Robins (1978) suggest a good potential for low-grade uranium deposits in silicified veins associated with batholiths. Trites and Tooker (1953), Becraft (1958), and Aamodt (1978) have reported torbernite, autunite, and uraninite in veins and pegmatite from nearby similar geologic terrain.

A more thorough evaluation of the data and field work are needed to determine the significance of the high or "anomalous" samples described above, as well as the significance of those samples with uranium concentrations below the arbitrary anomaly threshold. Such a detailed office and field evaluation

a. Spring sediments

b. Dry stream sediments

c. Wet stream sediments

Fig. 8. Histograms for uranium concentrations in spring and stream sediments from the Bozeman quadrangle, Montana.

TABLE VI

SAMPLES WITH ANOMALOUS URANIUM CONCENTRATIONS IN SEDIMENTS (>11 PPM)
FROM THE BOZEMAN QUADRANGLE, MONTANA

<u>Sediment Cluster^a</u>	<u>LASL Sample Location Number^b</u>	<u>Sediment Type</u>	<u>Total Uranium (ppm)</u>	<u>Geology^c/Remarks</u>
S1	M36458	Wet Stream	13.10	These sediments were collected from streams draining predominately Precambrian rocks in the Beartooth Mountains. There is one known uranium occurrence in this cluster.
	M36466	Wet Stream	34.90	
	M36465	Wet Stream	19.10	
	M36460	Wet Stream	28.40	
	M36695	Wet Stream	13.30	
	M36696	Wet Stream	18.40	
	M36704	Wet Stream	94.30	
	M36700	Wet Stream	15.70	
	M36702	Dry Stream	19.20	
S2	M36548	Wet Stream	11.10	Most of the sediments in this group are from locations which outline Precambrian rocks in the Madison Range. Two sample locations occur in alluvium on the western flank of the Range.
	M36549	Wet Stream	17.50	
	M36004	Wet Stream	18.70	
	M36002	Wet Stream	19.10	
	M36005	Wet Stream	19.60	
	M37548	Wet Stream	14.40	
	M37415	Wet Stream	24.50	
	M37579	Dry Stream	16.20	
	M36171	Wet Stream	20.40	
	M36645	Wet Stream	16.90	
	M36041	Wet Stream	19.60	
	M36648	Wet Stream	24.20	
	M36320	Wet Stream	16.30	
	M36474	Wet Stream	19.90	
S3	M36179	Wet Stream	30.20	The sediments in this cluster are from drainages that cut Precambrian rocks in the Tobacco Root Mountains.
	M37435	Wet Stream	20.60	
	M37423	Wet Stream	16.20	
	M37424	Wet Stream	23.80	
	M37455	Wet Stream	21.00	
none	M37507	Dry Stream	18.20	This sample was collected in alluvium near Tertiary volcanics.
none	M36420	Dry Stream	32.90	Eocene intrusives underlie this sample location.
none	M36397	Wet Stream	23.00	This sample location is surrounded by Precambrian rocks.
none	M37112	Dry stream	13.00	These locations occur in Quaternary-Tertiary sediments.
	M37531	Dry Stream	12.60	
	M36155	Wet Stream	12.00	
	M36368	Wet Stream	24.20	
none	M37223	Wet Stream	19.90	Cretaceous claystones and sandstones are drained by the stream from which this sample was taken.
none	M37027	Wet Stream	11.70	This sample is from a location that is in the drainage of the Tertiary Livingston formation.
none	M36622	Wet Stream	12.30	Alluvium surrounded by Precambrian rocks underlie this stream sample location.
none	M36476	Wet Stream	24.60	These samples were collected from drainages that cut Tertiary intrusives and volcanics.
	M36682	Wet Stream	14.80	
	M36427	Wet Stream	19.00	

^a The sediment sample clusters are shown schematically in Fig. 6.

^b The coordinates and sample descriptions of each sample location are listed in Appendix C.

^c Described from Plate I.

is beyond the LASL's charter and is left to the reader. However, experience at the LASL with HSSR data from other areas (e.g., Alaska) has shown that contouring of the uranium data is particularly useful for evaluating the relationships between the uranium data and other environmental and geologic factors. In turn, these relationships can be used to identify new areas worthy of more detailed investigation.

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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. Note that some water samples for which data are reported herein were not given the standard treatment described above. The treatment received by each sample is designated by the sample type in the listings of Appendix B and described in the codes of Appendix D.

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, rip-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 ($\mu\text{mho}/\text{cm}$) 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 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 a calibration factor obtained from testing of the specific scintillometer 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, water, sediment, vegetation, terrain, weather, possible contaminants, and water well configuration, if applicable. Since these observations are subjective and made quickly in the field they should be held subordinate to any formally documented information such as that provided by published topographic or geologic maps, etc.

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 300 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. The verification, then, is carried out in the same manner.

II. ANALYTICAL PROCEDURES

Water Samples Analyzed for Uranium by Fluorometry

In a controlled laboratory environment, two NaF (98%)-LiF (2%) flux pellets are prepared and placed on platinum dishes. The 25-ml water vial is shaken vigorously and two 0.20-ml aliquots of water are withdrawn and dropped onto the flux pellets, then evaporated under a heat lamp. The sample fluxes are then heated until fused. After they cool, they are excited with ultraviolet radiation in the fluorometer, and the fluorescence of each is read, recorded, and put through a computer routine using standards and blanks run at the same time to obtain the two uranium concentrations. The single uranium concentration of the water samples given in the data listing is the average obtained from the duplicate aliquots. The lower limit of detection for each aliquot by the normal procedure is 0.2 ppb. When a lower concentration than 0.2 ppb is found in an aliquot, it is arbitrarily averaged into the data listings as 0.1 ppb. Therefore, whenever the uranium concentration in a water sample run by fluorometry is given as some value less than 0.2 ppb, one of the two aliquots had a uranium concentration that was too low to detect. If the listed uranium value is 0.1 ppb, both aliquots were below the detectable limit. Analytical precision at the lower limit of detection is ~30%; however, it improves to ~10% one order of magnitude above the lower limit.

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 detection limit for uranium in sediment analyzed by the DNC method is 0.5 ppb (not ppm), and is so low that it has never been reached with a natural sediment sample. Using the DNC method for uranium in sediments, the precision is 4% or better for all analyses.

APPENDIX R

LISTINGS OF FIELD DATA AND URANIUM CONCENTRATIONS FOR WATER SAMPLES
FROM THE BOZEMAN QUADRANGLE, MONTANA

(See Appendix D for Code to Listings)

APPENDIX B. Field Data and Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																	U CONCENTRATION												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	1925-111	1350-2-07	n-M36001	09/27/76-1A	19	7.8	-	-	6.2	478	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.51	
30-45	4159-111	4018-2-07	n-M36002	09/29/76-11	21	8.3	-	-	5.3	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
30-45	4110-111	3971-2-07	n-M36003	09/29/76-11	21	8.5	-	-	5.2	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.24	
30-45	3933-111	4113-2-07	n-M36004	09/29/76-14	22	8.0	-	-	5.0	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.86	
30-45	3940-111	4152-2-07	n-M36005	09/29/76-14	21	8.2	-	-	5.0	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	
30-45	4642-111	4001-2-07	n-M36006	09/30/76-12	22	11.3	-	-	5.6	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
30-45	4632-111	3916-2-07	n-M36007	09/30/76-12	22	9.6	-	-	5.4	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
30-45	4597-111	4219-2-07	n-M36008	09/30/76-13	21	8.5	-	-	5.7	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26	
30-45	4504-111	4325-2-07	n-M36009	09/30/76-14	22	8.4	-	-	5.6	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.38	
30-45	4516-111	4337-2-07	n-M36010	09/30/76-14	22	8.7	-	-	5.6	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14	
30-45	1203-111	1443-2-07	n-M36011	09/27/76-19	11	8.0	-	-	6.1	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
30-45	1343-111	1334-2-07	n-M36012	09/27/76-19	10	10.0	-	-	6.0	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.96	
30-45	1374-111	1264-2-07	n-M36013	09/27/76-19	9	10.0	-	-	6.0	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	
30-45	2176-111	2045-2-07	n-M36014	09/27/76-20	15	7.6	-	-	5.8	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
30-45	2120-111	1903-2-07	n-M36015	09/27/76-19	15	8.0	-	-	6.0	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63	
30-45	2049-111	2033-2-07	n-M36016	09/27/76-19	15	8.0	-	-	5.9	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25	
30-45	2039-111	2015-2-07	n-M36017	09/27/76-19	15	8.4	-	-	6.1	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.09	
30-45	1566-111	1704-2-07	n-M36018	09/27/76-20	4	11.0	-	-	6.0	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
30-45	1419-111	1891-2-07	n-M36019	09/27/76-19	7	10.5	-	-	5.9	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.81	
30-45	2069-111	1670-2-07	n-M36022	09/27/76-18	17	8.5	-	-	5.6	104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.43	
30-45	2070-111	1809-2-07	n-M36023	09/27/76-19	15	8.2	-	-	5.6	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49	
30-45	1670-110	0000-2-07	n-M36024	09/20/76-13	13	7.4	-	-	5.5	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
30-45	1131-110	0020-2-07	n-M36025	09/20/76-16	13	7.2	-	-	5.4	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.43	
30-45	1343-110	0060-2-07	n-M36026	09/20/76-17	13	7.2	-	-	5.4	165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.79	
30-45	4810-111	0420-2-06	n-M36027	09/21/76-13	20	9.0	-	-	6.0	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.36	
30-45	4735-111	0446-2-07	n-M36028	09/21/76-13	20	7.0	-	-	6.0	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	4571-111	0351-2-07	n-M36029	09/21/76-13	20	7.0	-	-	6.1	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31	
30-45	4508-111	3719-2-07	n-M36030	09/29/76-9	18	9.5	-	-	5.2	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25	
30-45	1002-111	1888-2-07	n-M36031	09/27/76-17	19	10.0	-	-	5.9	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.88	
30-45	1250-111	1633-2-07	n-M36032	09/27/76-17	20	10.0	-	-	6.0	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
30-45	1246-111	1581-2-07	n-M36033	09/27/76-18	17	9.0	-	-	6.1	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.95	
30-45	1209-111	1521-2-07	n-M36034	09/27/76-18	15	9.0	-	-	5.9	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
30-45	1206-111	1419-2-07	n-M36035	09/27/76-18	14	11.5	-	-	6.2	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
30-45	1196-111	1425-2-07	n-M36036	09/27/76-18	15	12.0	-	-	6.1	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.75	
30-45	2023-111	1597-2-07	n-M36037	09/27/76-18	16	8.0	-	-	5.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32	
30-45	5607-111	1116-2-07	n-M36038	09/10/76-12	12	8.5	-	-	6.1	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29	
30-45	5414-111	0971-2-07	n-M36039	09/10/76-13	14	11.2	-	-	5.9	225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
30-45	5384-111	1334-2-07	n-M36040	09/10/76-13	11	8.0	-	-	5.9	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.99	
30-45	5423-111	1647-2-07	n-M36041	09/10/76-14	14	13.0	-	-	6.1	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	
30-45	5334-111	1579-2-07	n-M36042	09/10/76-14	12	9.0	-	-	6.1	225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27	
30-45	5440-111	1742-2-07	n-M36043	09/10/76-15	13	13.5	-	-	6.1	225	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45	
30-45	5269-111	1915-2-07	n-M36044	09/10/76-15	15	12.0	-	-	6.1	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45	
30-45	5165-111	1795-2-07	n-M36045	09/10/76-16	14	12.0	-	-	5.9	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31	
30-45	5206-111	2441-2-07	n-M36047	09/10/76-17	15	12.0	-	-	5.9	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.21	
30-45	5705-111	2434-2-07	n-M36048	09/10/76-17	13	12.0	-	-	6.3	265	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.96	
30-45	5968-111	2406-2-07	n-M36049	09/10/76-18	15	14.5	-	-	5.9	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
30-45	6682-111	2285-2-07	n-M36050	09/10/76-18	13	17.0	-	-	6.3	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10	
30-45	6663-111	2140-2-07	n-M36051	09/1																															

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

DOE SAMPLE NUMBER					LASL SAMPLE LOCATION NUMBER AND FIELD DATA																	U CONCENTRATION												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (cpm/ppm)	ROCK TYPE	K/LR/LULR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																										
30-45.7452-111.2204-2-07-	n-M36055-09/11/76-11-	12-10.5-	-	6.1-	470-	19-4-	3-7-1-1-1-2-3-4-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72			
30-45.7452-111.1399-2-07-	n-M36056-09/11/76-12-	12-11.0-	-	6.1-	250-	12-4-	3-7-3-3-2-2-4-3-1-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.11			
30-45.7139-111.1123-2-07-	n-M36057-09/11/76-12-	13-11.0-	-	6.3-	260-	6-4-	5-8-3-3-3-2-4-4-2-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.11			
30-45.6994-111.1749-2-07-	n-M36058-09/11/76-13-	12-10.0-	-	6.3-	240-	12-4-	3-6-4-3-2-2-3-5-1-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.68			
30-45.6995-111.1362-2-07-	n-M36059-09/11/76-13-	13-11.0-	-	6.5-	460-	0-4-	5-3-3-2-2-3-4-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.24			
30-45.6706-111.0094-2-07-	n-M36062-09/11/76-15-	14-11.5-	-	-	255-	3-4-	3-6-4-3-1-2-3-4-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70			
30-45.5803-111.1697-2-07-	n-M36063-09/11/76-16-	13-11.0-	-	5.9-	275-	16-4-	3-6-3-3-2-2-3-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.73			
30-45.6233-111.1335-2-07-	n-M36064-09/11/76-16-	14-11.0-	-	6.3-	305-	9-4-	6-8-3-3-2-2-4-4-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.91			
30-45.6554-111.1132-2-07-	n-M36065-09/11/76-17-	14-13.0-	-	3.6-	230-	0-4-	2-6-3-3-2-2-4-3-1-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55			
30-45.6627-111.1048-2-07-	n-M36066-09/11/76-17-	15-12.5-	-	6.3-	420-	9-4-	5-8-2-3-1-3-4-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.81			
30-45.6444-111.0687-2-07-	n-M36067-09/11/76-17-	15-13.0-	-	6.3-	300-	0-4-	5-8-3-3-1-3-4-4-1-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.62			
30-45.6337-111.0312-2-07-	n-M36068-09/11/76-18-	14-11.0-	-	6.1-	280-	12-4-	2-6-3-3-1-2-3-4-2-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39			
30-45.6191-111.0178-2-07-	n-M36069-09/11/76-18-	13-10.0-	-	5.9-	105-	3-4-	3-6-3-3-2-3-3-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25			
30-45.6041-111.0085-2-07-	n-M36070-09/11/76-18-	13-10.0-	-	6.3-	250-	3-4-	3-4-3-3-1-3-4-4-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.68			
30-45.5977-111.1163-2-07-	n-M36071-09/11/76-19-	13-11.5-	-	6.3-	210-	12-4-	5-8-2-2-3																											

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

DOE SAMPLE NUMBER					LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION						
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
30-45	1017-110.0656-2-07-					n-M36109-10/22/76-12-	4-	1.7-	-	5.8-	170-	-	5.7-	145-	-	3-6-4-6-3-3-1-2-4-2-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.28	
30-45	1145-110.1815-2-07-					n-M36110-10/22/76-12-	4-	1.0-	-	5.7-	145-	-	5.7-	145-	-	-2-7-4-6-4-3-1-2-1-3-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29	
30-45	1132-110.1816-2-07-					n-M36111-10/22/76-12-	4-	1.0-	-	5.7-	145-	-	5.7-	145-	-	-2-7-4-6-4-3-1-2-1-3-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	
30-45	1315-110.0719-2-07-					n-M36112-10/22/76-13-	4-	1.2-	-	5.7-	145-	-	5.7-	145-	-	-4-7-2-7-3-3-1-2-1-4-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	1619-110.1141-2-07-					n-M36113-10/22/76-14-	3-	1.5-	-	5.7-	170-	-	5.7-	170-	-	-3-7-2-4-4-3-1-2-1-3-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24	
30-45	1639-110.1007-2-07-					n-M36114-10/22/76-15-	5-	2.0-	-	5.6-	145-	-	5.6-	145-	-	-3-7-2-4-4-3-1-2-1-3-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	
30-45	0779-110.0781-2-07-					n-M36115-10/22/76-18-	2-	1.0-	-	5.7-	145-	-	5.7-	145-	-	-3-7-2-4-3-3-1-2-1-4-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	
30-45	0987-110.3984-2-07-					n-M36116-10/24/76-14-	2-	1.0-	-	5.7-	210-	-	5.7-	210-	-	-2-6-3-6-3-3-1-2-1-3-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49	
30-45	1477-110.3808-2-07-					n-M36117-10/24/76-11-	2-	1.0-	-	5.8-	210-	-	5.8-	210-	-	-2-7-4-6-3-3-1-2-1-4-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37	
30-45	1682-110.1535-2-07-					n-M36118-10/22/76-15-	3-	1.0-	-	5.7-	145-	-	5.7-	145-	-	-2-4-1-7-3-3-1-2-1-4-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27	
30-45	0728-110.0923-2-07-					n-M36119-10/22/76-18-	3-	2.0-	-	5.7-	145-	-	5.7-	145-	-	-3-7-2-4-3-3-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.35	
30-45	1940-110.3631-2-07-					n-M36120-10/24/76-14-	4-	2.0-	-	5.7-	100-	-	5.7-	100-	-	-2-6-2-6-4-3-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.38	
30-45	0419-110.1842-2-07-					n-M36121-10/24/76-17-	-	1.0-	-	5.8-	170-	-	5.8-	170-	-	-2-6-3-6-3-3-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.68	
30-45	2031-110.3633-2-07-					n-M36122-10/24/76-15-	2-	1.0-	-	5.8-	175-	-	5.8-	175-	-	-2-6-3-6-3-3-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.82	
30-45	1520-110.1285-2-07-					n-M36123-10/22/76-14-	3-	1.4-	-	5.7-	145-	-	5.7-	145-	-	-2-7-2-7-4-3-1-2-1-4-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67	
30-45	2120-110.3571-2-07-					n-M36124-10/24/76-16-	1-	1.0-	-	5.8-	170-	-	5.8-	170-	-	-2-6-3-6-3-3-1-2-1-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
30-45	0700-110.4249-2-07-					n-M36125-10/24/76-12-	-	1.0-	-	5.7-	100-	-	5.7-	100-	-	-2-6-3-6-3-3-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25	
30-45	0075-110.3803-2-07-					n-M36126-10/24/76-9-	-	1.0-	-	5.7-	210-	-	5.7-	210-	-	-2-6-3-6-3-3-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45	
30-45	0058-110.3739-2-07-					n-M36127-10/24/76-9-	-2-	1.0-	-	5.7-	220-	-	5.7-	220-	-	-2-6-3-6-3-3-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32	
30-45	1454-110.2659-2-07-					n-M36128-10/23/76-14-	4-	1.0-	-	5.7-	90-	-	5.7-	90-	-	-2-6-3-6-3-3-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.66	
30-45	1082-110.4764-2-07-					n-M36129-10/24/76-14-	-1-	1.0-	-	5.7-	90-	-	5.7-	90-	-	-2-6-3-6-3-3-1-2-1-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
30-45	0776-110.2721-2-07-					n-M36130-10/23/76-12-	5-	2.0-	-	5.7-	90-	-	5.7-	90-	-	-3-4-2-6-3-3-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	0987-110.2620-2-07-					n-M36131-10/23/76-14-	6-	2.0-	-	5.7-	90-	-	5.7-	90-	-	-2-6-3-6-3-3-1-2-1-3-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45	
30-45	0059-110.4149-2-07-					n-M36132-10/24/76-8-	-	1.0-	-	5.7-	210-	-	5.7-	210-	-	-2-6-4-6-3-3-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.44	
30-45	0779-110.4217-2-07-					n-M36133-10/24/76-12-	-1-	-	-	5.7-	100-	-	5.7-	100-	-	-2-6-3-6-3-3-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46	
30-45	5452-111.8009-2-02-					n-M36135-10/20/76-9-	1-	1.5-	-	5.5-	200-	-	5.5-	200-	-	-2-7-5-6-2-2-1-2-4-3-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.78	
30-45	5127-111.8205-2-02-					n-M36137-10/20/76-10-	2-	2.0-	-	5.5-	200-	-	5.5-	200-	-	-2-7-4-1-3-2-1-2-4-4-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.91	
30-45	5342-111.8847-2-02-					n-M36139-10/20/76-11-	2-	1.0-	-	5.2-	180-	-	5.2-	180-	-	-2-7-3-1-2-2-1-2-3-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30	
30-45	5207-111.8860-2-02-					n-M36140-10/20/76-11-	2-	1.0-	-	5.5-	240-	-	5.5-	240-	-	-2-1-3-7-2-2-1-2-3-2-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45	
30-45	5049-111.9096-2-02-					n-M36142-10/20/76-12-	4-	1.0-	-	5.7-	210-	-	5.7-	210-	-	-2-7-3-1-2-2-1-2-2-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27	
30-45	5435-111.7717-2-02-					n-M36143-10/20/76-12-	4-	1.5-	-	5.9-	230-	-	5.9-	230-	-	-2-7-4-1-2-2-1-2-2-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.44	
30-45	5530-111.7742-2-02-					n-M36144-10/20/76-13-	4-	1.5-	-	5.5-	210-	-	5.5-	210-	-	-2-7-3-1-2-2-1-2-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	
30-45	6624-111.9165-2-02-					n-M36145-10/19/76-12-	2-	2.0-	-	5.7-	270-	-	5.7-	270-	-	-2-7-4-6-3-2-1-2-2-2-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
30-45	8468-111.5185-2-02-					n-M36148-10/19/76-11-	1-	-	-	5.2-	410-	-	5.2-	410-	-	-2-7-4-1-2-2-2-2-4-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	
30-45	7715-111.5423-2-02-					n-M36150-10/19/76-11-	1-	-	-	5.2-	380-	-	5.2-	380-	-	-2-1-4-1-2-2-1-2-4-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	
30-45	7582-111.4864-2-02-					n-M36151-10/19/76-12-	2-	1.0-	-	5.5-	280-	-	5.5-	280-	-	-2-7-3-1-2-2-1-2-3-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	
30-45	7550-111.4266-2-02-					n-M36152-10/19/76-12-	2-	1.0-	-	5.2-	310-	-	5.2-	310-	-	-2-7-3-7-2-2-1-2-4-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
30-45	7658-111.3324-2-02-					n-M36155-10/19/76-13-	4-	1.5-	-	5.5-	240-	-	5.5-	240-	-	-2-7-4-1-2-2-1-2-4-2-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
30-45	7826-111.3339-2-02-					n-M36156-10/19/76-14-	5-	2.0-	-	5.5-	310-	-	5.5-	310-	-	-2-7-4-6-2-2-1-2-4-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
30-45	7930-111.3156-2-02-					n-M36158-10/19/76-14-	5-	2.0-	-	5.7-	320-	-	5.7-	320-	-	-2-7-4-1-2-2-1-2-2-2-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32	
30-45	5791-111.3735-2-02-					n-M36161-10/19/76-16-	4-	1.0-	-	5.5-	210-	-	5.5-	210-	-	-2-7-3-7-2-2-1-2-2-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	
30-45	5905-111.3805-2-02-					n-M36162-10/19/76-16-	3-	1.0-	-	5.5-	190-	-	5.5-	190-	-	-2-7-4-1-2-2-1-2-2-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27	
30-45	5929-111.3873-2-02-					n-M36163-10/19/76-17-	3-	1.0-	-	5.5-	180-	-	5.5-	180-	-	-2-7-4-1-3-2-1-2-3-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	5988-111.3904-2-02-					n-M36164-10/19/76-17-	3-	0.5-	-	5.5-	180-	-	5.5-	180-	-	-2-7-3-7-3-2-1-2-1-2-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	7623-111.8782-2-02-					n-M36165-10/20/76-13-	5-	2.5-	-	5.2-	450-	-	5.2-	450-	-	-2-7-5-6-2-2-2-1-4-4-2-3-	-	-	-	-	-														

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DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																					U CONCENTRATION								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILOMETER (cu, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	2970-111.6307	-2-02-	n-M36176	-10/20/76-13-		5	1.0		5.4	340						-2-7-5-6-2-2-1-2-4-3-2-3-	3-																	0.31	
30-45	3493-111.3282	-2-02-	n-M36177	-10/20/76-14-		5	1.0		5.4	190						-2-7-3-7-3-2-1-2-3-3-3-3-	3-																		0.46
30-45	3479-111.3282	-2-02-	n-M36178	-10/20/76-14-		5	1.0		5.4	210						-2-7-3-7-2-2-1-2-3-3-3-3-	3-																		0.15
30-45	3429-111.3120	-2-02-	n-M36179	-10/20/76-15-		4	2.0		5.5	220						-2-7-3-7-2-2-1-2-3-3-3-3-	3-																		0.55
30-45	3145-111.3194	-2-02-	n-M36180	-10/20/76-15-		5	2.0		5.5	220						-2-7-4-1-2-2-1-2-3-3-3-3-	3-																		0.19
30-45	2791-111.3038	-2-02-	n-M36182	-10/20/76-16-		4	1.0		5.7	220						-2-7-4-1-2-2-1-2-3-3-3-3-	3-																		0.10
30-45	3336-111.4491	-2-07-	n-M36183	-10/20/76-8-		1	1.0		5.5	190						-1-4-1-6-1-3-1-2-2-3-3-1-	1-																		0.22
30-45	3210-111.4424	-2-07-	n-M36184	-10/20/76-9-		2	1.0		5.5	190						-1-4-2-6-3-3-1-1-1-3-3-1-	1-																		0.28
30-45	3211-111.4353	-2-07-	n-M36185	-10/20/76-10-		3	2.0		5.5	200						-1-4-2-6-3-3-1-2-1-3-4-1-	1-																		0.21
30-45	0274-111.0401	-2-07-	n-M36186	-10/18/76-10-		4	2.0		5.5	65						-3-7-1-6-4-3-1-2-1-3-4-1-	1-																		0.10
30-45	3489-111.4716	-2-07-	n-M36187	-10/20/76-12-		1	1.0		5.5	100						-1-4-2-6-3-3-1-2-1-3-3-1-	1-																		0.25
30-45	2619-111.4877	-2-07-	n-M36188	-10/20/76-17-		3	1.0		5.5	180						-1-4-1-6-3-3-1-2-1-3-3-1-	1-																		0.88
30-45	3071-111.4695	-2-07-	n-M36189	-10/20/76-15-		7	1.0	C	5.7	180						-1-4-1-6-3-3-1-2-1-3-3-1-	1-																		0.29
30-45	3341-111.4786	-2-07-	n-M36190	-10/20/76-8-		1	1.0		5.5	190						-1-4-1-6-3-1-3-1-2-2-3-3-1-	1-																		0.52
30-45	0282-111.0474	-2-07-	n-M36191	-10/18/76-10-		4	2.0		5.5	65						-3-7-1-6-4-3-1-2-1-3-4-1-	1-																		0.10
30-45	0290-111.0397	-2-07-	n-M36192	-10/18/76-10-		4	2.0		5.5	65						-3-7-1-6-4-3-1-2-1-3-4-1-	1-																		0.27
30-45	0418-110.9561	-2-07-	n-M36193	-10/18/76-16-		4	1.0		5.5	60						-3-7-2-6-4-3-1-2-1-3-3-1-	1-																		0.23
30-45	3015-111.4883	-2-07-	n-M36194	-10/20/76-15-		9	1.0	C	5.6	210						-1-7-1-6-5-3-1-2-1-3-5-1-	1-																		0.32
30-45	3021-111.4865	-2-07-	n-M36195	-10/20/76-15-		9	1.0	C	5.5	190						-1-7-1-6-4-3-1-2-1-3-4-1-	1-																		0.28
30-45	2826-111.4927	-2-07-	n-M36196	-10/20/76-16-		4	1.0		5.5	190						-1-4-1-6-3-3-1-2-1-3-3-1-	1-																		1.52
30-45	3529-111.4912	-2-07-	n-M36197	-10/20/76-13-		5	1.0	C	5.5	200						-1-4-1-6-2-3-1-2-1-3-3-1-	1-																		1.40
30-45	0677-111.0186	-2-07-	n-M36198	-10/18/76-11-		6	1.0		5.7	60						-3-7-2-6-3-3-1-2-1-3-3-1-	1-																		0.10
30-45	0715-111.0075	-2-07-	n-M36199	-10/18/76-12-		9	2.0		5.5	65						-3-7-1-6-3-2-1-2-3-3-4-1-	1-																		0.75
30-45	0717-111.0079	-2-07-	n-M36200	-10/18/76-12-		9	2.0		5.5	65						-3-7-1-6-3-2-1-2-1-3-3-1-	1-																		0.60
30-45	0270-110.9764	-2-07-	n-M36201	-10/18/76-15-		6	3.0		5.7	70						-3-7-1-6-4-3-1-2-1-3-4-1-	1-																		0.17
30-45	3285-111.4596	-2-07-	n-M36202	-10/20/76-9-		1	1.0		5.6	195						-1-4-2-6-4-4-1-1-1-3-4-1-	1-																		0.96
30-45	0281-111.0072	-2-07-	n-M36203	-10/18/76-14-		11	1.0		5.5	65						-3-7-2-6-4-3-1-2-1-3-4-1-	1-																		0.33
30-45	0514-111.0270	-2-07-	n-M36204	-10/18/76-11-		4	1.0		5.7	65						-3-7-1-6-3-3-1-2-1-3-3-1-	1-																		0.10
30-45	0259-110.9765	-2-07-	n-M36205	-10/18/76-15-		7	3.0		5.7	70						-3-7-1-6-4-3-1-2-1-3-4-1-	1-																		0.95
30-45	0294-111.0074	-2-07-	n-M36205	-10/18/76-14-		11	1.0		5.5	70						-3-7-2-6-3-3-1-2-1-3-4-1-	1-																		0.15
30-45	0398-110.4556	-2-07-	n-M36207	-10/18/76-16-		4	1.0		5.5	60						-3-7-2-6-4-3-1-2-1-2-3-1-	1-																		0.30
30-45	1710-110.3991	-2-07-	n-M36208	-10/24/76-15-		4	2.0		5.7	220						-2-5-1-6-3-2-1-2-1-4-4-3-	1-																		0.59
30-45	1735-110.3989	-2-07-	n-M36209	-10/24/76-14-		4	2.0		5.5	200						-2-5-1-6-3-3-1-2-1-3-4-3-	1-																		0.14
30-45	0241-110.4403	-2-07-	n-M36210	-10/24/76-15-		3	1.0		5.7	210						-2-5-4-6-3-3-1-2-1-3-4-3-	1-																		0.10
30-45	0554-110.4397	-2-07-	n-M36211	-10/24/76-17-		5	1.0		5.7	200						-2-5-4-6-3-3-1-2-1-4-3-3-	1-																		0.71
30-45	1684-110.4624	-2-07-	n-M36212	-10/24/76-16-		1	1.0		5.6	220						-2-7-4-6-3-3-1-2-1-4-4-2-	1-																		0.59
30-45	0547-110.4562	-2-07-	n-M36213	-10/24/76-18-		8	2.0		5.7	200						-2-5-4-6-3-3-1-2-1-4-3-3-	1-																		0.28
30-45	0987-110.3855	-2-07-	n-M36214	-10/24/76-15-		3	1.0		5.7	210						-2-5-1-6-3-3-1-2-1-4-4-3-	1-																		0.61
30-45	0908-110.3456	-2-07-	n-M36215	-10/24/76-17-		-1	1.0		5.5	220						-2-7-4-6-3-3-1-2-1-4-4-2-	1-																		0.20
30-45	0402-110.3998	-2-07-	n-M36216	-10/24/76-14-		1	1.0		5.7	200						-2-7-4-6-3-2-1-2-1-4-4-3-	1-																		0.47
30-45	0396-110.4024	-2-07-	n-M36217	-10/24/76-14-		1	1.0		5.7	200						-2-7-4-6-3-2-1-2-1-4-4-3-	1-																		0.35
30-45	1507-110.4361	-2-07-	n-M36218	-10/24/76-14-		1	1.0		5.7	200						-2-4-1-6-3-3-1-2-3-3-4-3-	1-																		0.42
30-45	3075-110.3186	-2-07-	n-M36219	-10/16/76-12-		8	3.5		5.7	160						-1-7-3-6-3-3-1-2-1-4-4-2-	1-																		3.67
30-45	1923-110.1821	-2-07-	n-M36220	-10/16/76-17-		5	2.5		5.5	70						-1-7-3-6-2-3-1-2-3-4-3-2-	1-																		0.57
30-45	4661-110.3722	-2-07-	n-M36221	-10/16/76-10-		6	2.0		6.1	350						-1-7-2-6-3-2-1-2-1-2-3-2-	1-																		1.78
30-45	4925-110.3674	-2-07-	n-M36222	-10/16/76-8-		4	2.5		6.1	290						-1-7-2-6-2-2-1-2-3-4-2-2-	1-																		0.92
30-45	3050-110.3210	-2-07-	n-M36223	-10/16/76-12-		8	3.5		5.5	160						-1-7-2-6-3-2-1-2-1-2-4-2-	1-																		4.42
30-45	3042-110.3203	-2-07-	n-M36224	-10/16/76-12-		8	3.5		5.5	140						-1-7-3-6-3-3-1-2-1-3-3-2-	1-																		4.58
30-45	2361-110.1866	-2-07-	n-M36225	-10/16/76-18-		3	2.5		5.2	75						-1-7-4-6-3-3-1-2-1-3-3-2-	1-																		0.32
30-45	4620-110.3796	-2-07-	n-M36226	-10/16/76-11-		5	2.0		6.3	350						-1-7-3-6-3-3-1-2-1-2-4-2-	1-																		1.07
30-45	4523-110.3794	-2-07-	n-M36227	-10/16/76																															

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

DOE SAMPLE NUMBER					LASL SAMPLE LOCATION NUMBER AND FIELD DATA																	U CONCENTRATION													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	4244-110.4055-2-07-	n-M36228-10/16/76-14-	10-	3.5-	-	6.1-	275-	-1-7-3-6-3-2-1-2-2-3-3-2-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.04			
30-45	4450-111.4702-2-07-	n-M36229-10/19/76-14-	14-	5.0-	-	5.7-	225-	-1-7-3-6-3-3-1-1-3-4-3-1-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80			
30-45	071-110.3788-2-07-	n-M36230-10/24/76-14-	3-	1.0-	-	5.6-	145-	-2-7-4-6-3-3-1-2-1-4-4-2-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.48			
30-45	0771-111.1565-2-07-	n-M36231-10/25/76-10-	2-	1.4-	-	6.1-	490-	-3-7-3-4-3-3-1-2-1-3-3-2-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.03			
30-45	0813-111.1188-2-07-	n-M36232-10/25/76-12-	4-	1.5-	-	5.9-	350-	-2-7-4-4-3-3-1-2-1-3-3-2-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.28			
30-45	0812-111.1164-2-07-	n-M36233-10/25/76-12-	4-	1.5-	-	5.9-	360-	-2-7-4-4-3-3-1-2-1-3-3-2-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49			
30-45	0911-110.3644-2-07-	n-M36234-10/24/76-11-	3-	1.0-	-	5.4-	140-	-2-7-4-6-3-3-1-2-1-4-4-3-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19			
30-45	4581-110.3811-2-07-	n-M36235-10/16/76-11-	6-	2.0-	-	6.1-	340-	-1-7-3-6-3-2-1-2-1-3-4-2-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70			
30-45	4506-110.3919-2-07-	n-M36236-10/16/76-11-	10-	2.5-	-	6.1-	350-	-1-7-3-6-2-3-1-2-2-3-3-2-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.77			
30-45	0308-110.8801-2-07-	n-M36237-10/31/76-11-	1-	1.0-	-	5.5-	80-	-2-6-4-6-3-3-1-2-3-4-4-1-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.48			
30-45	0158-110.8833-2-07-	n-M36238-10/31/76-11-	-1-	1.0-	-	5.7-	210-	-2-6-1-6-3-3-1-2-1-4-3-1-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23			
30-45	1682-110.3825-2-07-	n-M36239-10/24/76-13-	2-	1.0-	-	5.7-	200-	-2-6-2-6-3-2-1-2-2-3-4-3-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18			
30-45	1750-110.3966-2-07-	n-M36240-10/24/76-15-	2-	1.0-	-	5.7-	320-	-2-6-1-6-3-2-1-2-1-3-4-3-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.37			
30-45	0164-110.8883-2-07-	n-M36241-10/31/76-11-	-1-	1.0-	-	5.7-	210-	-2-6-1-6-3-3-1-2-1-4-3-1-	1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18			
30-45	0147-110.9514-2-07-	n-M36242-10/31/76-13-</																																	

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
30-45	7475-110.6885	-2-07-	n-M36283	09/15/76-12-	18-	8.0-	-	6.1-	320-	0-1-6-3-6-3-2-1-	2-4-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.62	
30-45	7702-110.7264	-2-07-	n-M36284	09/15/76-12-	17-	12.0-	-	6.1-	295-	0-1-6-3-6-3-2-1-	2-4-2-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.62	
30-45	1161-110.3868	-2-07-	n-M36288	10/24/76-11-	2-	1.0-	-	5.8-	210-	-2-7-6-6-3-3-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.54	
30-45	0159-111.2165	-2-07-	n-M36289	10/25/76-10-	2-	1.0-	-	5.7-	390-	-1-6-1-6-3-3-1-	2-1-4-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63	
30-45	1254-110.3988	-2-07-	n-M36290	10/24/76-13-	4-	2.0-	-	5.7-	260-	-2-6-3-6-3-3-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.28	
30-45	0158-111.2151	-2-07-	n-M36291	10/25/76-10-	7-	3.0-	-	5.9-	400-	-1-6-1-6-3-3-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61	
30-45	0718-111.2676	-2-07-	n-M36292	10/26/76-9-	3-	1.0-	-	6.1-	360-	-2-7-2-4-3-3-1-	2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61	
30-45	0217-111.3078	-2-07-	n-M36293	10/26/76-12-	4-	1.0-	-	6.0-	350-	-2-1-4-6-3-3-1-	2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.54	
30-45	1614-110.7442	-2-07-	n-M36294	11/02/76-8-	1-	1.0-	-	5.5-	80-	-2-6-1-6-3-3-1-	2-1-2-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61	
30-45	1617-110.7217	-2-07-	n-M36295	11/02/76-9-	1-	1.0-	-	5.5-	80-	-2-6-2-6-3-3-1-	2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55	
30-45	0243-111.1942	-2-07-	n-M36296	10/25/76-9-	2-	1.0-	-	5.9-	410-	-1-6-2-6-3-3-1-	2-1-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63	
30-45	0249-111.1959	-2-07-	n-M36297	10/25/76-9-	2-	1.0-	-	5.9-	400-	-1-6-2-6-3-3-1-	2-1-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.91	
30-45	0834-110.4009	-2-07-	n-M36298	10/24/76-11-	1-	1.0-	-	5.7-	280-	-2-6-4-6-3-3-1-	2-1-3-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
30-45	1590-110.3355	-2-07-	n-M36299	10/24/76-12-	3-	1.0-	-	6.0-	365-	-2-7-2-4-3-3-1-	2-1-4-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.96	
30-45	1129-110.4279	-2-07-	n-M36300	10/25/76-9-	3-	1.4-	-	6.1-	405-	-2-7-4-6-3-3-1-	2-1-4-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.93	
30-45	0853-110.4025	-2-07-	n-M36301	10/24/76-11-	2-	1.0-	-	5.8-	210-	-2-6-4-6-3-3-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	1811-110.3073	-2-07-	n-M36302	10/24/76-11-	3-	1.5-	-	5.9-	350-	-2-6-1-1-3-3-1-	2-1-4-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.34	
30-45	1262-110.3808	-2-07-	n-M36303	10/24/76-9-	2-	1.0-	-	5.7-	135-	-2-7-2-4-3-3-1-	2-1-4-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.59	
30-45	0069-111.3839	-2-07-	n-M36304	10/26/76-13-	4-	1.0-	-	5.6-	200-	-2-1-2-4-3-3-1-	2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.62	
30-45	0051-111.3856	-2-07-	n-M36305	10/26/76-13-	4-	1.0-	-	5.7-	270-	-2-1-2-4-3-3-1-	2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72	
30-45	0078-111.2814	-2-07-	n-M36306	10/26/76-13-	4-	1.0-	-	6.0-	360-	-2-1-4-6-3-3-1-	2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
30-45	0362-111.3991	-2-07-	n-M36307	10/26/76-10-	4-	1.0-	-	5.7-	290-	-2-7-2-4-3-3-1-	2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
30-45	0353-111.4002	-2-07-	n-M36308	10/26/76-10-	4-	1.0-	-	5.7-	280-	-2-7-2-4-3-3-1-	2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72	
30-45	1480-110.3451	-2-07-	n-M36309	10/24/76-11-	3-	1.0-	-	6.0-	350-	-2-7-2-4-3-3-1-	2-1-4-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.93	
30-45	3946-110.6063	-2-07-	n-M36310	10/30/76-9-	-5-	1.0-	-	5.7-	165-	-2-6-3-6-3-3-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.62	
30-45	0569-110.8688	-2-07-	n-M36311	10/31/76-9-	-	1.0-	-	5.5-	280-	-2-6-1-6-3-3-1-	2-3-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13	
30-45	0643-110.8788	-2-07-	n-M36312	10/31/76-10-	1-	1.0-	-	5.5-	80-	-2-6-1-6-3-3-1-	2-1-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	3821-110.6121	-2-07-	n-M36313	10/30/76-8-	-4-	1.0-	-	5.7-	160-	-2-6-3-6-3-3-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	3763-111.1363	-2-07-	n-M36314	09/18/76-15-	15-	8.5-	-	5.6-	220-	-1-7-2-4-4-3-1-	2-1-4-4-2-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.75	
30-45	3766-111.0885	-2-07-	n-M36315	09/18/76-16-	14-	8.0-	-	5.5-	82-	-1-7-3-7-3-3-1-	2-1-4-4-2-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	3761-111.0761	-2-07-	n-M36316	09/18/76-16-	12-	7.5-	-	5.5-	84-	-1-7-3-7-3-3-1-	2-1-5-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.12	
30-45	3784-111.0226	-2-07-	n-M36317	09/18/76-17-	11-	6.2-	-	6.0-	177-	-1-6-3-4-3-3-1-	3-1-5-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.85	
30-45	3578-111.0601	-2-07-	n-M36318	09/18/76-18-	12-	9.1-	-	5.6-	88-	-1-6-6-6-2-3-2-	1-1-5-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24	
30-45	3577-111.0626	-2-07-	n-M36319	09/18/76-18-	12-	7.4-	-	5.5-	75-	-1-6-3-6-3-3-1-	3-1-5-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
30-45	3713-111.2475	-2-07-	n-M36320	09/18/76-20-	13-	8.5-	-	5.2-	68-	-3-7-3-4-3-3-1-	3-1-3-4-2-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27	
30-45	4589-110.9275	-2-07-	n-M36321	09/21/76-12-	17-	7.3-	-	5.4-	62-	-1-6-3-4-3-3-1-	3-1-3-5-1-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.18	
30-45	4430-110.9093	-2-07-	n-M36322	09/21/76-12-	17-	8.8-	-	5.2-	69-	-1-6-3-4-3-3-1-	3-1-2-5-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	4434-110.9622	-2-07-	n-M36323	09/21/76-13-	17-	7.0-	-	5.1-	64-	-3-6-3-4-3-3-1-	1-1-2-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	4224-110.9594	-2-07-	n-M36324	09/21/76-14-	17-	7.2-	-	5.3-	66-	-3-6-3-4-3-3-1-	2-1-2-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	1871-111.1288	-2-07-	n-M36325	09/27/76-17-	19-	7.8-	-	6.1-	500-	-3-7-4-6-2-3-1-	2-2-2-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.43	
30-45	1857-111.1342	-2-07-	n-M36326	09/27/76-17-	19-	8.0-	-	6.0-	222-	-3-7-3-7-3-3-1-	2-2-2-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29	
30-45	2191-110.7401	-2-07-	n-M36327	10/12/76-17-	9-	6.0-	-	6.2-	70-	-1-6-2-6-3-3-1-	2-1-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	
30-45	2373-110.6746	-2-07-	n-M36328	10/12/76-10-	7-	6.0-	-	5.8-	165-	-1-6-3-6-3-2-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.57	
30-45	1962-110.6431	-2-07-	n-M36329	10/12/76-12-	9-	5.0-0-	-	5.9-	150-	-1-6-2-4-4-2-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	
30-45	1353-111.3333	-2-07-	n-M36330	10/15/76-13-	9-	6.0-	-	5.7-	150-	-1-7-3-6-3-3-1-	2-1-2-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.96	
30-45	2691-111.3406	-2-07-	n-M36331	10/13/76-16-	10-	5.0-	-	5.7-	200-	-1-6-3-6-3-2-1-	2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29	
30-45	2535-111.4426	-2-07-	n-M36332	10/14/76-15-	10-	4.0-	-	5.8-	150-	-1-6-4-6-2-2																								

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

[illegible]

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																		U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	7220-111	9597-2-02				n-M36349	10/19/76	10	1	1.4	-	-	5.7	330	-	2-1-6-6-3-3-1-2-1-2-2-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29	
30-45	7226-111	9633-2-02				n-M36400	10/19/76	10	1	1.4	-	-	5.5	275	-	2-1-6-6-3-3-1-2-1-2-3-2-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	
30-45	7281-111	9722-2-02				n-M36401	10/19/76	11	2	2.2	-	-	5.7	165	-	2-7-6-6-3-3-1-2-1-3-2-2-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	
30-45	6442-111	9231-2-02				n-M36406	10/19/76	13	2	3.4	-	-	5.5	225	-	2-7-6-6-3-3-1-2-1-2-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.66	
30-45	6236-111	9453-2-02				n-M36407	10/19/76	13	2	2.4	-	-	5.7	260	-	2-7-6-6-6-1-2-2-1-2-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
30-45	6752-111	7675-2-02				n-M36409	10/19/76	14	2	2.2	-	-	5.5	250	-	2-7-6-6-3-3-1-2-2-3-2-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	6230-111	8578-2-02				n-M36412	10/19/76	16	2	3.2	-	-	5.5	175	-	2-6-6-6-3-3-1-2-2-3-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
30-45	6202-111	8639-2-02				n-M36413	10/19/76	15	2	2.0	-	-	5.5	210	-	2-7-3-1-2-2-1-2-3-3-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.01	
30-45	6071-111	8653-2-02				n-M36414	10/19/76	16	2	2.0	-	-	5.7	180	-	2-7-6-1-2-2-1-2-4-3-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.11	
30-45	6050-111	9005-2-01				n-M36415	10/19/76	16	1	4.0	-	-	5.5	200	-	2-7-3-7-2-2-3-1-2-4-3-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.37	
30-45	6020-111	9035-2-02				n-M36416	10/19/76	16	1	1.0	-	-	5.5	100	-	2-7-3-7-2-2-1-2-4-3-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.96	
30-45	5944-111	9009-2-02				n-M36417	10/19/76	17	2	2.0	-	-	5.9	210	-	2-7-4-1-2-2-1-2-3-2-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.74	
30-45	5684-111	9208-2-02				n-M36418	10/19/76	17	3	1.5	-	-	5.9	220	-	2-7-3-7-2-2-1-2-2-3-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24	
30-45	5595-111	9580-2-02				n-M36419	10/19/76	17	2	1.0	-	-	5.5	220	-	2-7-4-1-2-2-1-2-3-3-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.85	
30-45	6077-111	8087-2-02				n-M36421	10/19/76	18	2	2.5	-	-	5.7	230	-	2-7-5-6-2-2-1-2-2-1-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.75	
30-45	6054-111	7943-2-02				n-M36422	10/19/76	18	2	1.5	-	-	5.2	190	-	2-7-3-7-2-2-1-2-4-3-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49	
30-45	5604-111	7638-2-02				n-M36423	10/19/76	19	1	1.0	-	-	5.2	100	-	2-7-3-7-2-2-1-2-3-2-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.36	
30-45	5651-111	7604-2-02				n-M36424	10/20/76	8	-	-	-	-	5.4	245	-	2-7-3-7-2-2-1-2-4-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13	
30-45	5630-111	7505-2-02				n-M36425	10/20/76	8	-1	-	-	-	5.5	100	-	2-7-5-6-2-2-1-2-2-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26	
30-45	1064-110	6532-2-07				n-M36426	10/14/76	17	4	2.3	-	-	5.5	90	-	1-4-3-6-2-2-1-2-1-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
30-45	2914-110	9822-2-07				n-M36427	10/14/76	11	5	2.3	-	-	5.2	105	-	1-6-1-6-4-3-1-2-1-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25	
30-45	2351-110	1491-2-07				n-M36428	10/16/76	18	1	2.0	-	-	5.5	65	-	2-6-1-6-3-3-1-2-1-4-4-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.97	
30-45	2677-110	10301-2-07				n-M36429	10/14/76	12	5	2.0	-	-	5.5	05	-	1-6-2-6-4-3-1-2-3-4-4-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.48	
30-45	2337-110	1494-2-07				n-M36430	10/16/76	18	1	2.0	-	-	5.2	62	-	2-6-2-6-3-3-1-2-1-3-3-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25	
30-45	2259-110	2588-2-07				n-M36431	10/16/76	16	5	2.5	-	-	5.5	100	-	1-1-2-6-2-2-1-2-1-3-2-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	2049-110	2402-2-07				n-M36432	10/16/76	16	5	2.5	-	-	5.2	100	-	1-7-4-6-3-2-1-2-1-3-2-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30	
30-45	1139-110	5067-2-07				n-M36433	10/14/76	14	7	4.0	-	-	5.5	90	-	1-7-1-6-3-3-1-2-1-3-4-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
30-45	1123-110	5074-2-07				n-M36434	10/14/76	14	7	4.0	-	-	5.2	80	-	1-7-2-6-3-2-1-2-4-4-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46	
30-45	3112-110	9183-2-07				n-M36435	10/14/76	8	2	3.2	-	-	5.4	150	-	1-6-2-6-4-3-2-1-2-2-4-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.62	
30-45	2905-110	9835-2-07				n-M36436	10/14/76	11	5	3.4	-	-	5.5	09	-	1-6-1-6-3-2-1-2-1-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.18	
30-45	3079-110	9262-2-07				n-M36437	10/14/76	8	2	3.0	-	-	5.4	130	-	1-7-6-6-3-2-1-2-1-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	
30-45	2668-111	0400-2-07				n-M36438	10/14/76	12	5	2.0	-	-	5.5	140	-	1-7-3-6-2-3-1-1-1-2-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.54	
30-45	2758-111	0103-2-07				n-M36439	10/14/76	12	5	2.2	-	-	5.5	100	-	1-6-2-6-2-2-1-2-1-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46	
30-45	2999-110	9515-2-07				n-M36440	10/14/76	9	3	2.2	-	-	5.5	150	-	1-6-2-6-3-2-1-2-1-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
30-45	1115-110	6007-2-07				n-M36441	10/14/76	11	7	2.0	-	-	5.5	45	-	1-6-3-6-3-3-1-2-1-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90	
30-45	2849-110	9781-2-07				n-M36442	10/14/76	10	2	2.0	-	-	5.3	150	-	1-6-4-6-3-2-1-2-2-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
30-45	2655-111	0401-2-07				n-M36443	10/14/76	12	5	2.0	-	-	5.2	140	-	1-6-2-6-3-2-1-2-3-2-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29	
30-45	3147-110	9712-2-07				n-M36444	10/14/76	10	2	2.0	-	-	5.3	150	-	1-7-4-6-2-2-1-2-4-3-2-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	3913-110	3090-2-07				n-M36445	10/16/76	18	5	3.0	-	-	5.2	65	-	2-7-1-6-2-2-1-2-1-4-3-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42	
30-45	1853-110	1590-2-07				n-M36446	10/16/76	17	5	2.5	-	-	5.2	60	-	2-7-1-6-2-2-1-2-1-3-3-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41	
30-45	0015-111	2798-2-07				n-M36447	10/26/76	13	4	1.0	-	-	6.0	360	-	2-1-4-6-3-3-1-2-1-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.34	
30-45	2475-111	0651-2-07				n-M36448	10/14/76	13	4	2.1	-	-	5.4	120	-	1-7-3-6-2-2-1-2-2-3-2-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.77	
30-45	2081-110	1847-2-07				n-M36449	10/16/76	17	5	2.5	-	-	5.5	90	-	1-7-1-6-3-3-1-2-2-2-3-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18	
30-45	2122-110	2558-2-07				n-M36450	10/16/76	16	5	2.5	-	-	5.2	70	-	1-7-1-6-4-2-1-2-1-5-4-2-1	-	-																	

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

DOE SAMPLE NUMBER					LASL SAMPLE LOCATION NUMBER AND FIELD DATA																			U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (c.u. ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	2361-110	1886-2-07				n-M36458	10/16/76	18	3	2.5			5.7	65		-1-7-1-6-3-3-1-2-1-4-4-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.04	
30-45	2509-110	2928-2-07				n-M36459	10/16/76	15	8	3.5	C		5.5	65		-1-7-1-6-3-2-1-2-1-3-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	
30-45	3768-110	3174-2-07				n-M36460	10/16/76	17	7	3.5			5.7	60		-1-7-2-6-3-2-1-2-1-3-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.46	
30-45	3978-110	3303-2-07				n-M36461	10/16/76	17	7	3.5	C		5.5	68		-1-7-3-6-3-3-1-2-1-3-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.57	
30-45	3880-110	2747-2-07				n-M36462	10/16/76	16	9	3.0	C		5.7	69		-1-7-3-6-2-2-1-2-1-4-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.88	
30-45	4900-111	4592-2-07				n-M36463	10/19/76	13	14	4.0			5.7	235		-1-7-3-6-3-2-1-2-2-2-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.67	
30-45	3363-110	2886-2-07				n-M36464	10/16/76	8	3	5.5	C		5.2	75		-1-7-3-6-3-3-1-2-1-4-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24	
30-45	3161-110	2919-2-07				n-M36465	10/16/76	12	8	3.5			5.7	160		-1-7-3-6-2-2-1-2-4-3-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.16	
30-45	2615-110	3028-2-07				n-M36466	10/16/76	15	9	3.0			5.2	50		-1-7-4-6-2-3-1-2-1-2-4-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.36	
30-45	3104-110	3092-2-07				n-M36467	10/16/76	12	8	3.5			5.5	150		-1-7-3-6-2-3-1-2-1-3-2-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.19	
30-45	4820-111	4485-2-07				n-M36468	10/19/76	14	12	4.0	C		5.7	260		-1-7-2-6-3-2-1-1-1-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.63	
30-45	2178-110	2506-2-07				n-M36469	10/16/76	16	5	2.5			5.2	65		-1-7-3-6-3-2-1-2-1-3-4-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.87	
30-45	3320-110	2726-2-07				n-M36470	10/16/76	8	3	5.0			5.2	65		-1-7-4-6-2-2-1-2-1-3-2-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50	
30-45	0564-111	0831-2-07				n-M36471	10/25/76	14	4	1.5			5.7	160		-2-7-3-4-3-3-1-2-1-3-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	
30-45	2329-110	0883-2-07				n-M36472	10/14/76	16	4	2.2	C		5.5	105		-2-7-1-6-2-3-1-2-1-2-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.98	
30-45	2085-111	0434-2-07				n-M36473	10/14/76	18	2	2.0			5.8	260		-1-1-3-6-3-2-1-2-2-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.19	
30-45	3978-111	2951-2-07				n-M36474	10/10/76	11	8	4.0			6.0	60		-2-1-1-7-4-3-1-1-4-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	3948-111	2919-2-07				n-M36475	10/10/76	10	8	4.0			6.0	65		-2-7-1-7-4-3-1-2-1-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	
30-45	2444-110	4621-2-07				n-M36476	10/09/76	8	5	4.2			5.2	70		-2-7-2-4-3-3-1-2-1-4-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	1890-110	5961-2-07				n-M36477	10/09/76	11	8	5.0			5.8	100		-2-7-2-4-3-3-1-2-1-4-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
30-45	2402-110	5640-2-07				n-M36478	10/09/76	8	5	4.0			5.2	72		-2-7-2-4-3-3-1-2-1-4-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.43	
30-45	2306-110	5564-2-07				n-M36479	10/09/76	9	5	4.3			5.8	189		-2-7-2-4-3-3-1-2-1-4-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42	
30-45	2009-110	5760-2-07				n-M36480	10/09/76	10	8	4.2			5.2	70		-2-7-2-4-3-3-1-2-1-4-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	2049-110	5745-2-07				n-M36481	10/09/76	10	8	5.8			5.6	128		-2-7-2-4-3-3-1-2-1-4-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	2027-110	5711-2-07				n-M36482	10/09/76	10	8	6.0			5.6	128		-2-7-2-4-3-3-1-2-1-4-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	
30-45	3207-110	4729-2-07				n-M36483	10/09/76	9	11	6.5			6.1	410		-1-1-3-1-3-2-1-2-1-5-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61	
30-45	3268-110	4429-2-07				n-M36484	10/09/76	13	12	7.0			5.7	260		-1-3-2-7-3-2-1-2-3-3-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63	
30-45	3361-110	4293-2-07				n-M36485	10/09/76	13	12	7.0			5.3	145		-1-7-2-6-2-2-1-2-4-2-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53	
30-45	3406-110	3966-2-07				n-M36486	10/09/76	14	11	6.0	C		5.4	155		-1-6-1-6-4-3-1-2-3-2-5-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
30-45	2674-110	4690-2-07				n-M36487	10/10/76	12	12	7.0			5.6	150		-1-4-3-7-3-2-1-2-1-3-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	2350-110	4937-2-07				n-M36488	10/10/76	8	6	6.0			5.8	120		-1-6-3-6-3-3-1-2-1-3-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72	
30-45	2063-110	5221-2-07				n-M36489	10/10/76	7	5	6.0			5.8	130		-1-7-2-6-3-2-1-2-1-3-3-3	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.17	
30-45	2186-110	4796-2-07				n-M36490	10/10/76	9	6	6.0			5.8	130		-1-6-2-6-3-3-1-2-3-3-4-3	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	2677-110	4342-2-07				n-M36491	10/10/76	14	11	6.0			5.6	140		-1-6-2-6-3-2-1-2-1-3-3-4	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	2604-110	4192-2-07				n-M36492	10/10/76	15	10	5.0			5.6	150		-1-6-3-6-2-2-1-2-1-3-3-4	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.25	
30-45	3316-110	4340-2-07				n-M36493	10/09/76	13	15	7.0			5.6	210		-1-3-3-7-2-3-1-2-1-3-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53	
30-45	2639-110	4011-2-07				n-M36494	10/10/76	15	9	5.0			5.7	160		-1-6-3-6-3-3-1-2-1-3-3-4	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	2477-110	4414-2-07				n-M36495	10/10/76	13	12	7.0			5.7	145		-1-6-3-7-3-2-1-2-3-3-4-4	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19	
30-45	2721-110	3858-2-07				n-M36496	10/10/76	17	9	6.0			5.6	135		-1-6-3-6-3-3-1-2-1-3-3-4	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.15	
30-45	2714-110	4596-2-07				n-M36497	10/10/76	12	16	6.0			5.6	200		-1-3-3-7-3-2-1-2-1-4-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31	
30-45	2687-110	4685-2-07				n-M36498	10/10/76	12	16	7.0			5.6	140		-1-4-3-7-3-2-1-2-1-3-3-2	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29	
30-45	2956-110	4171-2-07				n-M36499	10/10/76	18	8	5.0	C		6.1	150		-1-6-3-6-3-3-1-2-1-3-4-4	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37	
30-45	3053-110	6840-2-07				n-M36500	10/11/76	10	9	6.2			5.5	167		-2-7-3-4-4-3-1-2-1-2-5-3	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53	
30-45	2809-110	6790-2-07				n-M36501	10/11/76	10	9	5.9			5.5	110		-2-7-3-4-4-3-1-2-1-2-5-3	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	2529-110	6647-2-07																																	

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																	U CONCENTRATION												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN
							DATE	HOUR																											
30-45	2354	-110.7429	-2-07-	n-M36509	-10/12/76-18-	8-5.0-	-	5.1-	200-	-1-4-2-6-3-3-1-	2-1-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	4444	-110.7936	-2-07-	n-M36510	-10/11/76-9-	9-6.0-	-	5.5-	210-	-1-4-4-6-3-2-1-	1-2-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.71	
30-45	4444	-110.8263	-2-07-	n-M36511	-10/11/76-10-	10-6.0-	-	5.6-	200-	-1-4-4-6-3-2-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29	
30-45	4442	-110.8276	-2-07-	n-M36512	-10/11/76-10-	10-6.0-	-	5.5-	200-	-1-4-4-6-3-2-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32	
30-45	4522	-110.8505	-2-07-	n-M36513	-10/11/76-12-	13-5.0-	-	5.6-	250-	-3-4-4-6-4-3-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.36	
30-45	4466	-110.8802	-2-07-	n-M36514	-10/11/76-13-	12-6.0-	-	5.8-	265-	-3-4-4-6-4-3-1-	2-1-4-5-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	4537	-110.8498	-2-07-	n-M36515	-10/11/76-12-	13-5.0-	-	5.7-	260-	-3-4-4-6-4-3-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	
30-45	1371	-110.5573	-2-07-	n-M36516	-10/14/76-12-	7-2.5-	-	5.7-	60-	-1-4-3-6-2-2-1-	2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41	
30-45	3183	-111.2598	-2-07-	n-M36517	-10/13/76-10-	8-4.0-	-	5.6-	260-	-1-7-3-6-3-3-1-	2-1-4-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.58	
30-45	2364	-111.4099	-2-07-	n-M36518	-10/14/76-13-	11-4.0-	-	5.5-	165-	-1-7-4-6-3-3-1-	2-1-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26	
30-45	1288	-111.3227	-2-07-	n-M36519	-10/15/76-12-	8-5.0-	-	5.7-	160-	-1-1-2-6-3-2-1-	2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.18	
30-45	2194	-111.4556	-2-07-	n-M36520	-10/14/76-18-	7-5.0-	-	5.9-	260-	-1-2-4-6-2-2-1-	1-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53	
30-45	3047	-111.3337	-2-07-	n-M36521	-10/13/76-14-	12-6.5-	-	5.7-	260-	-1-4-4-6-2-2-1-	1-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37	
30-45	2433	-111.3287	-2-07-	n-M36522	-10/13/76-13-	12-6.0-	-	5.8-	260-	-1-4-1-6-3-2-1-	2-1-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26	
30-45	2368	-111.3756	-2-07-	n-M36523	-10/14/76-12-	11-5.0-	-	5.6-	160-	-1-4-2-6-2-3-1-	2-2-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63	
30-45	0133	-111.0754	-2-27-	n-M36524	-09/18/76-17-	8-7.5-	-	5.5-	60-	-4-2-7-4-2-1-	2-1-2-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.12	
30-45	0350	-111.1127	-2-27-	n-M36525	-09/18/76-17-	8-7.5-	-	5.7-	160-	-4-2-7-3-2-1-	2-1-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70	
30-45	0352	-111.1176	-2-27-	n-M36526	-09/18/76-17-	7-8.5-	-	5.7-	220-	-4-2-1-4-2-1-	2-3-2-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20	
30-45	0481	-111.1383	-2-27-	n-M36527	-09/18/76-18-	9-10.0-	-	5.9-	360-	-4-2-6-3-2-1-	2-4-3-2-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80	
30-45	0455	-111.1422	-2-27-	n-M36528	-09/18/76-18-	8-10.0-	-	5.9-	350-	-4-2-7-3-2-2-	2-3-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
30-45	0628	-111.1679	-2-27-	n-M36529	-09/18/76-18-	8-9.0-	-	6.3-	500-	-2-7-2-6-3-2-3-	2-3-3-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60	
30-45	0629	-111.2066	-2-27-	n-M36530	-09/18/76-18-	8-10.0-	-	6.0-	280-	-1-4-2-6-4-2-1-	2-1-2-2-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.94	
30-45	0141	-111.1258	-2-27-	n-M36531	-09/19/76-15-	16-7.5-	-	5.9-	340-	3-2-7-2-7-3-2-1-	2-4-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55	
30-45	0997	-111.2190	-2-27-	n-M36532	-09/19/76-16-	15-13.0-	-	6.5-	400-	0-1-1-5-6-2-2-1-	2-3-3-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.32	
30-45	1573	-111.2433	-2-27-	n-M36534	-09/19/76-16-	12-10.0-	-	5.9-	260-	4-1-1-2-7-4-2-3-	2-1-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63	
30-45	4373	-111.3533	-2-07-	n-M36535	-09/29/76-15-	18-7.6-	-	6.0-	365-	-3-7-4-6-3-3-1-	2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24	
30-45	4410	-111.4584	-2-07-	n-M36536	-09/30/76-15-	22-9.3-	-	5.6-	168-	-3-7-3-4-4-3-1-	2-1-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20	
30-45	1783	-111.5481	-2-07-	n-M36539	-10/03/76-9-	9-10.0-	-	5.7-	220-	-2-4-3-6-3-2-1-	2-2-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.38	
30-45	1772	-111.5472	-2-07-	n-M36540	-10/03/76-9-	9-10.0-	-	5.7-	210-	-2-4-4-6-3-2-1-	1-2-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
30-45	1995	-111.5130	-2-07-	n-M36541	-10/03/76-11-	8-11.0-	-	5.8-	210-	-2-4-4-6-2-2-1-	2-1-2-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50	
30-45	1984	-111.5140	-2-07-	n-M36542	-10/03/76-11-	8-11.0-	-	5.7-	230-	-2-4-3-6-2-2-1-	2-1-2-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41	
30-45	1766	-111.5024	-2-07-	n-M36543	-10/03/76-13-	9-10.0-	-	5.9-	210-	-2-7-3-6-3-2-1-	2-1-4-5-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.78	
30-45	1519	-111.5190	-2-07-	n-M36544	-10/03/76-15-	6-11.0-	-	5.7-	200-	-2-7-5-6-2-2-1-	3-3-5-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.64	
30-45	1133	-111.5091	-2-07-	n-M36545	-10/03/76-17-	8-11.0-	-	5.8-	210-	-2-7-4-3-2-2-1-	1-1-2-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.59	
30-45	0504	-111.5367	-2-07-	n-M36546	-10/03/76-19-	7-10.0-	-	5.9-	220-	-2-6-3-6-2-2-1-	2-1-3-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.87	
30-45	0589	-111.5380	-2-07-	n-M36547	-10/03/76-19-	7-10.0-	-	5.9-	200-	-2-7-4-7-3-2-1-	2-1-3-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
30-45	3511	-111.3116	-2-07-	n-M36548	-10/10/76-13-	9-4.0-	-	5.2-	405-	-2-7-1-7-3-3-1-	2-1-3-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	
30-45	3507	-111.3179	-2-07-	n-M36549	-10/10/76-14-	7-4.0-	-	5.5-	475-	-2-4-1-7-4-3-1-	2-1-4-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.03	
30-45	3371	-110.4742	-2-07-	n-M36550	-10/09/76-10-	11-5.0-	-	6.2-	455-	-1-3-1-3-3-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.71	
30-45	3222	-110.4736	-2-07-	n-M36551	-10/09/76-9-	11-6.5-	-	6.1-	420-	-1-1-3-1-2-2-1-	2-1-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.02	
30-45	0490	-111.4524	-2-07-	n-M36552	-10/04/76-16-	11-10.0-	-	5.8-	210-	-2-3-3-6-4-3-1-	2-1-3-4-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.23	
30-45	1468	-111.4211	-2-07-	n-M36553	-10/04/76-12-	12-9.0-	-	5.7-	260-	-2-7-4-6-3-2-1-	2-1-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.66	
30-45	1465	-111.4221	-2-07-	n-M36554	-10/04/76-12-	13-10.0-	-	5.7-	260-	-2-7-4-6-2-2-1-	1-3-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.83	
30-45	1370	-111.4416	-2-07-	n-M																															

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																		U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE ($\mu\text{mho/cm}$)	SCINTILLOMETER (cpm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	2245-111.2372-2-27					n-M36564-09/19/76-17	11-10-5	-	5.8-	100-					6-1-4-2-7-3-2-3-2-1-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.66	
30-45	1950-111.2312-2-27					n-M36566-09/19/76-18	13-11-0	-	5.9-	260-					9-1-4-1-7-4-2-2-2-1-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
30-45	1447-111.2423-2-27					n-M36567-09/19/76-18	10-10-0	-	5.8-	260-					3-1-4-1-7-4-2-3-2-1-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.17	
30-45	2186-110.9301-2-07					n-M36569-09/21/76-9	13-8-0	-	5.9-	260-					7-2-7-3-7-3-2-1-2-2-3-4-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60	
30-45	2180-110.9320-2-07					n-M36570-09/21/76-9	10-7-5	-	5.7-	150-					2-2-7-1-7-4-2-1-2-2-1-4-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60	
30-45	1988-110.9093-2-07					n-M36571-09/21/76-10	10-8-0	-	5.7-	160-					2-1-4-2-7-4-2-1-2-2-3-3-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70	
30-45	1975-110.9161-2-07					n-M36572-09/21/76-11	10-8-0	-	5.8-	190-					3-2-7-3-6-4-2-2-2-2-4-3-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50	
30-45	1905-110.9359-2-07					n-M36573-09/21/76-11	11-7-5	-	5.9-	160-					8-2-7-1-7-4-2-1-2-2-4-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.36	
30-45	1528-110.9611-2-07					n-M36574-09/21/76-11	11-7-0	-	5.6-	100-					3-2-7-2-7-3-2-1-2-2-3-3-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14	
30-45	1341-110.9650-2-07					n-M36575-09/21/76-12	12-8-0	-	5.7-	170-					6-1-7-2-7-2-2-1-2-2-2-4-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.29	
30-45	1379-110.9636-2-07					n-M36576-09/21/76-12	10-6-0	-	5.2-	55-					8-1-6-2-6-3-2-1-2-1-3-3-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70	
30-45	1630-110.9821-2-07					n-M36577-09/21/76-13	11-8-0	-	5.5-	120-					4-1-6-2-7-4-2-1-2-2-3-3-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30	
30-45	1600-110.9824-2-07					n-M36578-09/21/76-13	11-10-0	-	5.5-	580-					6-1-6-5-8-2-2-1-1-3-3-4-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.43	
30-45	1422-111.0131-2-07					n-M36579-09/21/76-14	10-8-5	-	5.2-	80-					7-1-6-6-8-2-2-5-1-3-2-2-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	1278-111.0203-2-07					n-M36580-09/21/76-14	10-7-0	-	5.7-	120-					1-1-6-5-8-3-2-1-1-2-4-4-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.49	
30-45	1286-111.0191-2-07					n-M36581-09/21/76-14	9-5-5	-	5.4-	70-					0-1-6-2-7-4-2-1-2-2-2-3-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39	
30-45	1218-111.0358-2-07					n-M36582-09/21/76-14	9-6-5	-	5.7-	90-					1-1-6-2-7-4-2-1-2-3-3-3-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67	
30-45	1218-111.0345-2-07					n-M36583-09/21/76-15	8-6-0	-	5.5-	70-					0-1-6-2-6-3-2-1-2-2-3-3-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60	
30-45	1243-111.0401-2-07					n-M36584-09/21/76-15	9-7-5	-	5.7-	150-					3-1-6-5-6-2-2-1-2-3-2-2-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80	
30-45	1242-111.0509-2-07					n-M36585-09/21/76-15	8-6-5	-	5.6-	90-					0-1-6-2-7-4-2-1-2-2-3-2-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27	
30-45	1386-111.0729-2-07					n-M36586-09/21/76-16	8-6-5	-	5.5-	180-					3-1-6-2-7-3-2-1-2-1-3-3-4-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	1767-110.9613-2-07					n-M36587-09/21/76-16	10-8-0	-	5.7-	180-					3-1-6-2-7-4-2-1-2-2-3-3-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.28	
30-45	1785-110.8763-2-07					n-M36589-09/21/76-17	12-9-0	-	6.1-	510-					2-1-7-4-6-2-2-1-2-3-2-4-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14	
30-45	0904-110.7735-2-06					n-M36590-09/22/76-11	20-50	-	6.8-	240-					6-1-4-2-6-4-3-5-3-5-3-4-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.57	
30-45	0650-110.7760-2-07					n-M36595-09/22/76-12	13-7-5	-	5.7-	30-					2-1-4-2-7-4-2-1-2-4-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.63	
30-45	1276-110.8077-2-07					n-M36598-09/22/76-13	13-8-5	-	5.9-	260-					8-1-4-2-7-4-2-1-2-2-3-3-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45	1086-110.8191-2-07					n-M36599-09/22/76-13	14-9-0	-	5.9-	380-					9-1-7-2-4-4-2-1-2-2-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.88	
30-45	0999-110.8207-2-07					n-M36600-09/22/76-13	14-9-0	-	5.7-	270-					7-1-7-2-7-4-2-1-2-2-3-3-2-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.65	
30-45	1459-110.8040-2-07					n-M36601-09/22/76-14	14-9-0	-	5.7-	100-					4-1-4-2-7-4-2-1-2-2-3-3-3-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60	
30-45	1648-110.8343-2-07					n-M36602-09/22/76-14	22-14	-	5.9-	250-					1-1-7-2-7-3-2-5-2-2-3-4-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
30-45	4882-110.5932-2-07					n-M36604-09/28/76-10	14-5-5	-	5.5-	110-					8-1-1-3-7-2-2-3-2-4-4-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.74	
30-45	4815-110.5618-2-07					n-M36605-09/28/76-10	7-6-0	-	5.7-	140-					4-1-7-2-7-3-2-1-2-3-2-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
30-45	4781-110.5717-2-07					n-M36606-09/28/76-11	10-6-0	-	5.5-	180-					3-1-7-5-8-4-2-1-2-4-4-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
30-45	2661-110.5805-2-07					n-M36607-09/28/76-11	11-5-5	-	5.7-	140-					3-2-7-2-7-4-2-1-2-1-3-4-1-	-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30	
30-45	2868-110.5744-2-07					n-M36608-09/28/76-12	13-6-0	-	5.7-	120-					5-2-7-2-7-4-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	2958-110.5691-2-07					n-M36609-09/28/76-12	7-5-5	-	5.5-	120-					6-2-7-2-7-4-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.38	
30-45	2738-110.5005-2-07					n-M36610-09/28/76-12	13-5-0	-	5.7-	150-					1-2-7-2-7-4-2-1-2-1-3-3-1-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	2840-110.5079-2-07					n-M36611-09/28/76-13	25-5-5	-	6.0-	440-					2-1-7-3-6-3-2-1-2-1-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55	
30-45	2851-110.5240-2-07					n-M36612-09/28/76-13	10-5-5	-	5.7-	270-					3-1-7-2-6-3-2-1-2-2-2-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.47	
30-45	3214-110.5294-2-07					n-M36613-09/28/76-14	13-10-5	-	6.1-	380-					1-1-7-2-7-3-2-1-2-2-3-3-1-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.64	
30-45	3183-110.5109-2-07					n-M36614-09/28/76-14	12-6-5	-	5.7-	170-					5-2-7-2-7-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90	
30-45	3123-110.5579-2-07					n-M36616-09/28/76-14	22-7-5	-	5.7-	180-					5-1-2-2-1-4-2-1-2-3-3-3-1-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.12	
30-45	3171-110.7011-2-07					n-M36617-09/28/76-15	14-8-0	-	5.7-	130-					0-1-7-2-7-4-2-1-2-2-3-3-1-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.68	
30-45	3250-110.7120-2-07					n-M36618-09/28/76-16	11-8-0	-</																											

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

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	RELIEF	WEATHER	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																										
30-45.0749-110.6277-2-07-						n-M36628-09/22/76-10-	7-	6.2-	-	5.5-	70-				16-1-4-4-6-3-2-1-2-1-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.69	
30-45.0483-110.6287-2-07-						n-M36629-09/22/76-11-	8-	6.2-	-	5.9-	100-				16-3-7-3-4-2-2-1-2-1-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
30-45.0665-110.6792-2-07-						n-M36630-09/22/76-11-	8-	7.6-	-	5.5-	155-				9-1-1-3-4-3-2-1-2-3-1-2-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26	
30-45.0368-110.6645-2-07-						n-M36631-09/22/76-12-	14-	9.0-	-	5.9-	170-				24-1-5-4-4-4-2-1-2-3-2-4-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.24	
30-45.0647-110.7420-2-07-						n-M36633-09/22/76-14-	13-	6.0-	-	5.2-	110-				6-1-4-4-6-3-3-1-2-2-3-2-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31	
30-45.0435-110.7468-2-07-						n-M36634-09/22/76-15-	13-	13.0-	-	5.7-	220-				3-1-4-4-6-2-2-1-2-4-4-1-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.51	
30-45.4964-111.3058-2-07-						n-M36635-09/24/76-8-	7-	7.0-	-	5.2-	110-				40-2-4-3-4-3-3-1-2-3-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45	
30-45.5000-111.3200-2-07-						n-M36636-09/24/76-8-	8-	7.4-	-	5.5-	100-				16-2-4-3-4-3-3-1-2-4-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.97	
30-45.4962-111.3433-2-07-						n-M36637-09/24/76-9-	10-	7.8-	-	5.7-	160-				16-1-4-4-6-3-3-1-2-3-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.60	
30-45.5000-111.3547-2-07-						n-M36638-09/24/76-9-	11-	8.8-	-	5.9-	280-				16-1-1-4-6-2-2-1-2-4-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87	
30-45.4953-111.3553-2-07-						n-M36639-09/24/76-10-	12-	8.0-	-	5.5-	00-				8-1-1-4-6-3-3-1-2-3-3-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.36	
30-45.4978-111.3581-2-07-						n-M36640-09/24/76-10-	12-	8.0-	-	6.1-	500-				16-1-1-4-6-2-2-1-2-4-3-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.09	
30-45.4967-111.4150-2-27-						n-M36641-09/24/76-10-	18-	12.0-	-	5.9-	275-				16-1-1-3-6-2-2-2-2-4-3-1-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.81	
30-45.4931-111.2864-2-07-						n-M36642-09/24/76-12-	18-	8.0-	-	5.9-	280-				16-2-4-4-6-3-3-1-2-3-2-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.89	
30-45.4969-111.3228-2-07-						n-M36643-09/24/76-12-	20-	8.6-	-	5.5-	80-				24-1-1-4-6-4-3-1-2-2-3-1-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
30-45.4925-111.3226-2-07-						n-M36644-09/24/76-13-	20-	8.6-	-	5.5-	160-				24-1-4-4-6-3-2-1-2-4-3-1-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.21	
30-45.4966-111.3272-2-07-						n-M36645-09/24/76-13-	18-	8.2-	-	5.5-	80-				32-1-1-4-6-3-3-1-2-4-3-1-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
30-45.4744-111.2689-2-07-						n-M36646-09/24/76-13-	15-	12.0-	-	6.1-	280-				8-1-2-3-6-3-2-1-2-2-2-2-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
30-45.4534-111.2450-2-07-						n-M36647-09/24/76-14-	15-	8.0-	-	5.2-	80-				16-2-4-4-6-3-2-1-2-1-2-2-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.44	
30-45.4476-111.2400-2-07-						n-M36648-09/24/76-14-	15-	7.8-	-	5.5-	60-				24-2-2-3-4-4-3-1-2-1-3-2-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.03	
30-45.4017-111.2213-2-07-						n-M36649-09/24/76-14-	16-	9.0-	-	5.5-	26-				8-3-4-4-6-3-3-1-2-2-3-1-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.51	
30-45.4422-111.2088-2-07-						n-M36650-09/24/76-15-	14-	8.8-	-	5.9-	200-				19-1-1-4-6-3-3-1-2-1-3-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	
30-45.4480-111.1754-2-07-						n-M36651-09/24/76-15-	14-	8.4-	-	5.9-	170-				8-1-1-4-6-3-3-1-2-1-2-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23	
30-45.4367-111.1671-2-07-						n-M36652-09/24/76-13-	12-	9.0-	-	5.7-	65-				16-3-3-4-6-3-3-1-2-1-4-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20	
30-45.4342-111.1680-2-07-						n-M36653-09/24/76-16-	13-	10.0-C-	-	5.9-	280-				3-7-4-5-2-2-1-2-1-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11	
30-45.4849-111.2646-2-07-						n-M36654-09/27/76-11-	9-	9.0-C-	-	5.9-	250-				1-2-5-8-2-2-1-2-4-2-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.57	
30-45.4339-111.1524-2-07-						n-M36655-09/27/76-12-	17-	7.2-C-	-	5.7-	150-				1-1-4-4-3-3-1-2-2-2-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.74	
30-45.4266-111.1305-2-07-						n-M36656-09/27/76-12-	17-	6.8-C-	-	5.9-	95-				1-1-4-6-3-3-1-2-1-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50	
30-45.4241-111.1180-2-07-						n-M36657-09/27/76-13-	16-	6.0-C-	-	5.7-	00-				3-4-4-6-3-3-1-2-1-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46	
30-45.4210-111.1182-2-07-						n-M36658-09/27/76-13-	18-	6.6-C-	-	5.5-	120-				3-7-3-4-4-3-1-2-1-2-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.40	
30-45.4196-111.0916-2-07-						n-M36659-09/27/76-13-	18-	6.0-C-	-	5.2-	95-				3-4-3-4-3-2-1-2-1-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67	
30-45.4190-111.0710-2-07-						n-M36660-09/27/76-14-	18-	7.8-C-	-	5.5-	70-				2-8-4-6-3-3-1-2-4-2-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.73	
30-45.4086-111.0373-2-07-						n-M36662-09/27/76-14-	16-	6.8-C-	-	5.2-	25-				3-4-4-4-3-3-1-2-1-3-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
30-45.4251-111.1476-2-07-						n-M36663-09/27/76-15-	16-	8.4-C-	-	5.7-	220-				3-7-4-6-2-2-1-2-1-3-1-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53	
30-45.3823-111.1768-2-07-						n-M36664-09/27/76-16-	15-	8.8-C-	-	5.9-	180-				3-5-4-4-3-3-1-2-1-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.30	
30-45.3721-111.1725-2-07-						n-M36665-09/27/76-16-	18-	7.4-C-	-	3.2-	80-				3-7-4-6-3-3-1-2-1-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45.3508-111.1572-2-07-						n-M36666-09/27/76-16-	18-	7.6-C-	-	5.9-	210-				3-4-4-6-4-3-1-1-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21	
30-45.3409-111.1315-2-07-						n-M36667-09/27/76-16-	13-	8.6-C-	-	5.2-	260-				3-1-4-6-2-2-1-2-1-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.51	
30-45.0162-110.6918-2-07-						n-M36668-09/28/76-11-	10-	6.2-C-	-	6.4-	780-				1-1-4-6-2-2-1-2-4-2-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.54	
30-45.0022-110.7055-2-07-						n-M36669-09/28/76-11-	11-	9.8-C-	-	5.9-	280-				1-1-3-6-2-2-1-2-4-2-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90	
30-45.0876-110.8343-2-07-						n-M36672-09/28/76-13-	11-	6.2-C-	-	6.6-	680-				1-5-3-7-2-2-1-2-1-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.69	
30-45.0732-110.8546-2-07-						n-M36674-09/28/76-14-	15-	13.0-C-	-	5.9-	180-				3-6-4-4-2-2-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.22	
30-45.1172-110.8634-2-07-						n-M36675-09/29/76-9-	7-	-	-	5.9-	265-				5-1-7-3-8-2-2-2-2-2-2-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45.1121-110.8573-2-07-						n-M36676-09/29/76-10-	8-	4.6-	-	5.7-	120-				3-3-4-3-4-3-3-1-2-2-2-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.34	
30-45.1121-110.8837-2-07-						n-M36677-09/29/76-10-	8-	5.6-	-	5.7-	180-				4-3-4-4-8-3-3-1-2-2-																			

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																	U CONCENTRATION												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	PFLUICATE	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	2440-110	7621-2-07	n-M36686	09/29/76	17	11	7.0	-	5.7	120	11-2-4-3-4-3-3-1-2-1-3-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.64		
30-45	2474-110	8586-2-06	n-M36687	09/29/76	17	11	8.6	-	6.1	220	11-3-1-4-3-1-4-3-1-4-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.05		
30-45	2493-110	8621-2-07	n-M36688	09/29/76	18	11	3.0	-	6.1	400	9-3-4-4-6-2-2-1-2-4-2-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.92		
30-45	4789-110	2003-2-07	n-M36690	09/29/76	11	22	7.0	-	5.5	110	7-3-1-3-6-4-3-1-2-1-4-2-1	-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.89		
30-45	4504-110	1911-2-07	n-M36691	09/29/76	11	22	6.4	-	5.5	120	1-3-4-4-6-3-3-1-2-2-1-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.14		
30-45	4370-110	1919-2-07	n-M36692	09/29/76	12	23	6.6	-	5.2	00	3-3-1-4-1-3-3-1-2-1-4-1-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20		
30-45	4024-110	1946-2-07	n-M36694	09/29/76	12	22	8.2	-	5.5	00	4-3-5-5-8-3-3-1-3-1-3-2-1	-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26		
30-45	3800-110	2021-2-07	n-M36695	09/29/76	13	24	6.6	-	5.7	45	1-3-4-4-4-4-3-1-2-1-3-2-1	-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30		
30-45	3663-110	2138-2-07	n-M36696	09/29/76	13	24	5.4	-	5.5	270	24-3-5-3-4-4-3-1-2-1-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.76		
30-45	3406-110	2441-2-07	n-M36697	09/29/76	14	10	5.6	-	5.2	460	4-3-1-4-6-3-3-1-2-1-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41		
30-45	3398-110	2423-2-07	n-M36698	09/29/76	14	11	5.8	-	5.9	120	4-3-4-4-6-3-3-1-2-1-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.76		
30-45	3187-110	2315-2-07	n-M36699	09/29/76	15	16	7.0	-	5.2	44	8-3-4-4-4-2-2-1-2-1-4-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.88		
30-45	3082-110	2364-2-07	n-M36700	09/29/76	15	14	7.6	-	5.5	200	11-3-1-3-4-3-3-1-2-1-3-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55		
30-45	2884-110	2436-2-07	n-M36701	09/29/76	16	11	5.0	-	5.7	80	8-3-1-4-4-3-3-1-1-3-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70		
30-45	2968-110	2418-2-07	n-M36703	09/29/76	16	11	6.8	-	5.7	120	6-3-4-4-6-3-3-1-2-1-3-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.56		
30-45	3598-110	2180-2-07	n-M36704	09/29/76	17	10	6.0	-	5.5	45	16-3-4-6-6-2-2-2-1-1-3-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.19		
30-45	4362-110	1879-2-07	n-M36705	09/29/76	17	10	7.8	-	5.5	80	13-3-4-6-4-3-1-2-1-3-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10		
30-45	4971-110	2267-2-07	n-M36707	09/29/76	18	10	7.0	-	5.5	55	8-3-1-4-6-4-3-1-2-1-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.44		
30-45	5836-110	4965-2-07	n-M36708	10/01/76	10	7	6.0	-	5.9	245	3-3-4-4-4-3-2-1-2-1-4-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.34		
30-45	5750-110	4990-2-07	n-M36710	10/01/76	10	7	5.6	-	6.1	220	4-3-4-4-4-2-2-1-2-2-4-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.36		
30-45	6004-110	3899-2-07	n-M36711	10/01/76	13	14	7.8	-	6.3	250	3-1-2-3-4-3-3-1-2-1-3-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.51		
30-45	6093-110	3828-2-07	n-M36712	10/01/76	13	18	8.0	-	6.6	220	3-1-1-3-6-3-2-1-2-1-2-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16		
30-45	6151-110	3798-2-07	n-M36713	10/01/76	13	18	8.8	-	6.3	245	7-1-1-4-1-3-3-1-2-2-2-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.29		
30-45	6260-110	4195-2-07	n-M36714	10/01/76	14	14	10.4	-	6.6	290	5-1-2-4-4-2-2-1-2-2-2-2-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.07		
30-45	6544-110	4396-2-07	n-M36715	10/01/76	15	16	11.0	-	6.6	800	6-1-1-5-8-2-2-1-3-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.80		
30-45	6544-110	4698-2-07	n-M36716	10/01/76	15	13	14.0	-	6.9	600	3-1-7-5-8-2-2-1-2-4-3-1-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.74		
30-45	6815-110	4904-2-07	n-M36717	10/01/76	16	15	14.0	-	6.9	500	10-1-1-5-8-2-2-2-2-2-2-1-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14		
30-45	6990-110	4590-2-07	n-M36718	10/01/76	17	18	15.0	-	6.6	450	4-1-1-3-6-2-2-2-2-4-3-1-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.73		
30-45	7100-110	4187-2-07	n-M36719	10/04/76	9	5	5.2	-	6.3	550	6-1-1-5-6-2-2-1-2-4-3-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.54		
30-45	7064-110	3999-2-07	n-M36720	10/04/76	10	6	5.4	-	6.3	370	6-1-1-4-6-3-3-1-2-2-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90		
30-45	6686-110	3961-2-07	n-M36721	10/04/76	10	9	9.1	-	6.6	450	7-1-1-5-8-2-2-2-2-4-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.18		
30-45	6488-110	3937-2-07	n-M36722	10/04/76	10	10	5.0	-	6.6	460	8-1-6-4-6-2-2-2-2-2-3-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90		
30-45	4466-110	5922-2-07	n-M36723	09/29/76	10	16	7.0	-	5.2	50	9-1-7-2-7-3-2-1-2-2-3-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21		
30-45	4259-110	6141-2-07	n-M36725	09/29/76	11	15	11.0	-	5.7	200	4-1-7-5-6-3-2-2-2-4-3-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33		
30-45	2828-110	7531-2-07	n-M36726	09/29/76	12	11	6.5	-	5.7	220	3-1-7-3-6-4-2-1-2-3-3-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.58		
30-45	2941-110	7488-2-07	n-M36727	09/29/76	12	19	7.5	-	5.9	170	7-1-7-3-6-4-2-1-2-4-3-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.39		
30-45	2612-110	7616-2-07	n-M36728	09/29/76	12	14	7.5	-	5.8	200	0-1-7-2-7-4-2-1-2-2-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.44		
30-45	4654-110	6530-2-07	n-M36729	09/29/76	13	21	12.5	-	5.7	190	4-1-1-5-6-2-2-2-3-4-4-1-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23		
30-45	4685-110	6936-2-07	n-M36735	09/29/76	16	25	12.0	-	5.7	260	6-1-7-5-6-3-2-1-2-4-2-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21		
30-45	4387-110	7354-2-07	n-M36736	09/29/76	16	16	8.5	-	5.6	60	2-1-7-2-6-3-2-1-2-2-2-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10		
30-45	3069-110	8519-2-07	n-M36738	09/29/76	17	26	9.5	-	5.5	100	5-1-7-2-7-4-2-1-2-2-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.69		
30-45	3156-110	8962-2-07	n-M36739	09/29/76	17	12	8.0	-	5.5	80	6-2-7-2-7-4-2-1-2-1-2-4-1	-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.23		
30-45	3558-110	7804-2-07	n-M36740	09/29/76	18	12	10.5	-	5.5	60	1-1-1-2-7-3-2-1-2-2-2-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10		
30-45	3614-110	7983-2-07	n-M36741	09/30/76	11	13	7.0	-	5.2	65	6-1-4-2-7-3-2-1-2-2-2-3-1	-1																							

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[illegible]

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																		U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (eu, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	5385	-110.3205	-2-27			n-M36811	10/06/76	15	12	3.0	-	-	6.3	125		A-1-6-4-6-2-2-2-2-1-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32	
30-45	6233	-110.2167	-2-27			n-M36813	10/06/76	16	10	9.0	-	-	6.3	750		-1-6-3-1-2-2-2-2-4-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.13	
30-45	5478	-110.2133	-2-27			n-M36815	10/07/76	10	8	5.0	-	-	6.6	470		5-1-2-7-6-2-2-1-2-4-3-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.79	
30-45	5555	-110.1990	-2-27			n-M36817	10/07/76	11	10	5.8	-	-	6.3	370		9-1-1-4-6-2-2-2-3-4-2-1	-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.74	
30-45	6143	-110.1248	-2-27			n-M36818	10/07/76	11	12	6.2	-	-	5.9	370		4-3-1-4-6-3-2-1-2-2-3-1-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.69	
30-45	5936	-110.1076	-2-27			n-M36819	10/07/76	12	13	5.0	-	-	6.6	1600		1-1-6-4-6-3-3-1-2-4-4-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.67	
30-45	6752	-110.5099	-2-07			n-M36821	10/01/76	16	21	12.0	-	-	6.1	320		4-1-1-2-1-2-2-1-2-3-1-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.34	
30-45	6640	-110.5027	-2-07			n-M36822	10/01/76	17	19	12.0	-	-	6.0	500		-1-1-3-0-3-2-1-2-4-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.11	
30-45	6803	-110.5610	-2-07			n-M36826	10/02/76	10	11	10.5	-	-	5.9	650		4-3-7-6-6-1-2-5-1-6-4-1-3	-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.67	
30-45	7078	-110.5393	-2-07			n-M36828	10/02/76	10	12	9.5	-	-	6.1	400		6-3-1-3-7-3-2-1-2-2-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.71	
30-45	7255	-110.5662	-2-07			n-M36829	10/02/76	11	12	8.5	-	-	6.3	35		3-1-1-2-7-3-2-1-2-4-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.94	
30-45	7474	-110.5706	-2-07			n-M36830	10/02/76	11	13	9.0	-	-	6.3	40		3-1-1-5-7-2-2-1-2-4-2-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.25	
30-45	7522	-110.5842	-2-07			n-M36831	10/02/76	12	15	10.3	-	-	6.3	60		4-1-4-6-6-1-2-5-1-4-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.92	
30-45	7514	-110.5125	-2-07			n-M36834	10/02/76	12	15	9.2	-	-	6.3	40		2-1-1-6-7-2-1-1-2-4-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.04	
30-45	7642	-110.5097	-2-07			n-M36835	10/02/76	13	16	10.2	-	-	6.3	50		4-1-1-5-6-2-2-3-2-3-4-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.13	
30-45	6330	-110.6161	-2-07			n-M36837	10/02/76	15	15	9.8	-	-	5.9	600		4-1-1-3-6-3-2-1-1-4-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.92	
30-45	6446	-110.6081	-2-07			n-M36838	10/02/76	15	16	10.2	-	-	5.9	550		4-1-1-5-6-2-2-3-2-2-3-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.75	
30-45	6647	-110.6050	-2-07			n-M36840	10/02/76	16	18	9.5	-	-	6.1	440		5-1-1-2-6-3-2-1-2-2-4-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27	
30-45	6900	-110.6636	-2-07			n-M36842	10/02/76	17	18	10.6	-	-	5.9	330		4-1-7-5-6-2-2-1-2-4-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.67	
30-45	6916	-110.6938	-2-06			n-M36843	10/02/76	17	18	9.5	-	-	5.9	335		3-1-1-5-6-1-2-1-3-1-1-2	-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.09	
30-45	6975	-110.6767	-2-07			n-M36844	10/02/76	17	18	9.8	-	-	5.7	330		4-1-1-2-7-3-2-1-2-2-2-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.91	
30-45	6587	-110.6483	-2-07			n-M36845	10/03/76	8	11	9.5	-	-	5.9	425		0-1-1-5-6-3-2-2-2-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.99	
30-45	6437	-110.6673	-2-07			n-M36846	10/03/76	8	11	9.0	-	-	6.1	600		0-1-1-5-8-2-2-1-2-4-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30	
30-45	6366	-110.7143	-2-07			n-M36847	10/03/76	9	12	10.2	-	-	5.7	440		3-1-1-5-6-3-2-4-2-2-4-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50	
30-45	6179	-110.7355	-2-07			n-M36848	10/03/76	9	12	10.5	-	-	5.8	335		2-3-7-5-6-2-2-2-2-4-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.56	
30-45	6373	-110.7477	-2-07			n-M36849	10/03/76	10	13	9.6	-	-	5.9	330		1-1-1-3-1-2-2-1-2-3-2-4-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	
30-45	6698	-110.6815	-2-07			n-M36850	10/03/76	10	13	10.2	-	-	5.7	300		0-1-1-3-6-2-2-3-2-4-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.99	
30-45	6607	-110.7051	-2-07			n-M36851	10/03/76	11	13	9.8	-	-	5.9	350		4-1-1-6-6-3-2-4-2-2-2-3-2	-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.57	
30-45	6644	-110.7195	-2-07			n-M36852	10/03/76	11	14	10.0	-	-	5.7	400		3-1-1-5-6-3-2-4-2-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.12	
30-45	8050	-110.5428	-2-07			n-M36853	10/03/76	13	15	9.8	-	-	6.3	550		3-1-1-5-6-2-2-2-2-4-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.69	
30-45	7914	-110.5436	-2-07			n-M36854	10/03/76	13	14	9.8	-	-	5.9	500		3-1-1-3-7-2-2-1-2-4-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.05	
30-45	8178	-110.5528	-2-07			n-M36855	10/03/76	13	15	10.2	-	-	5.7	350		3-1-1-3-6-3-2-3-2-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53	
30-45	8386	-110.5844	-2-07			n-M36856	10/03/76	14	16	9.8	-	-	5.7	400		1-1-1-5-6-3-2-2-2-2-4-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.47	
30-45	8600	-110.6175	-2-07			n-M36857	10/03/76	14	16	11.0	-	-	5.7	400		4-1-1-2-1-4-2-3-2-2-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63	
30-45	8647	-110.5803	-2-07			n-M36858	10/03/76	14	16	10.5	-	-	5.9	500		0-1-1-5-6-2-2-2-2-2-2-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.45	
30-45	8650	-110.5800	-2-07			n-M36859	10/03/76	15	17	10.2	-	-	5.9	60		4-1-6-5-6-2-2-1-2-4-4-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.57	
30-45	8519	-110.5756	-2-07			n-M36860	10/03/76	15	18	9.9	-	-	5.9	300		8-1-6-2-7-4-2-3-2-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45	
30-45	8472	-110.5736	-2-07			n-M36861	10/03/76	15	18	10.0	-	-	5.9	400		5-1-6-5-6-2-2-2-2-4-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53	
30-45	8275	-110.5469	-2-07			n-M36862	10/03/76	15	18	11.0	-	-	5.9	400		0-1-1-5-6-4-2-3-2-2-4-4-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.76	
30-45	8458	-110.5064	-2-07			n-M36863	10/03/76	16	19	11.0	-	-	5.7	100		4-1-1-2-1-3-2-1-2-2-2-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.57	
30-45	8800	-110.5886	-2-07			n-M36864	10/03/76	16	18	10.5	-	-	5.7	480		5-1-1-5-6-2-2-1-2-4-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.99	
30-45	8914	-110.5992	-2-07			n-M36865	10/03/76	17	19	9.9	-	-	5.9	280		3-1-1-2-1-3-2-1-2-2-3-3-2	-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.55	
30-45	8903	-110.5344	-2-07			n-M36866	10/04/76	11	15	9.8	-	-	5.9	370		8-1-1-2-7-3-2-1-2-2-2-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	
30-45	8961	-110.5267	-2-07			n-M36867	10/04/76	12																											

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																		U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	7610-110	2064-2-02				n-M36876-10/07/76-12	15	8.5	-	6.1	750				4-1-1-5-6-3-2-1-2-4-2-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.90	
30-45	7608-110	1807-2-02				n-M36877-10/07/76-12	14	7.0	-	5.9	430				3-1-1-2-6-3-2-1-2-2-2-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.49	
30-45	7360-110	2153-2-02				n-M36878-10/07/76-13	17	12.0	-	5.7	350				4-1-1-7-2-7-3-2-1-2-3-2-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.69	
30-45	6926-110	2127-2-02				n-M36879-10/07/76-13	14	6.5	-	5.7	310				1-1-1-3-7-2-2-1-2-2-1-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.28	
30-45	7032-110	1963-2-02				n-M36880-10/07/76-14	17	7.5	-	5.7	310				3-1-1-2-3-2-2-1-2-3-3-4-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.06	
30-45	7074-110	1942-2-02				n-M36881-10/07/76-14	14	7.5	-	5.7	320				5-1-1-3-6-3-2-1-2-2-3-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.46	
30-45	7087-110	1920-2-02				n-M36883-10/07/76-14	14	8.5	-	5.7	300				0-1-7-2-7-2-2-1-2-2-1-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.25	
30-45	6946-110	1775-2-02				n-M36884-10/07/76-15	16	8.5	-	5.7	300				3-1-1-2-3-2-2-1-2-2-2-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.68	
30-45	7243-110	1999-2-02				n-M36885-10/07/76-15	20	11.0	-	5.7	650				2-1-1-2-3-2-2-1-2-3-3-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.34	
30-45	7252-110	1561-2-02				n-M36887-10/07/76-16	18	9.5	-	5.7	270				4-1-1-2-6-2-2-1-2-3-2-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10	
30-45	7475-110	1340-2-02				n-M36889-10/07/76-16	19	11.0	-	5.7	270				1-1-7-3-6-2-2-1-2-3-3-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14	
30-45	7700-110	0819-2-02				n-M36890-10/07/76-16	17	10.0	-	5.9	360				4-1-7-5-6-4-2-1-2-4-3-4-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.49	
30-45	7750-110	0642-2-02				n-M36892-10/07/76-17	18	10.0	-	5.7	270				3-1-1-3-6-2-2-1-2-2-3-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37	
30-45	8978-110	4981-2-02				n-M36893-10/08/76-9	6	6.0	-	5.7	100				4-1-1-2-7-4-2-1-2-2-1-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.32	
30-45	9022-110	4925-2-02				n-M36894-10/08/76-9	5	5.0	-	5.7	450				2-1-1-5-6-3-2-3-2-2-3-4-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.79	
30-45	8875-110	4872-2-02				n-M36895-10/08/76-10	10	6.0	-	5.7	380				9-1-1-5-6-2-2-1-2-4-3-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.81	
30-45	8772-110	4767-2-02				n-M36896-10/08/76-10	13	5.5	-	5.7	280				9-1-1-5-6-3-2-1-2-4-3-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.54	
30-45	8786-110	4303-2-02				n-M36897-10/08/76-10	8	4.0	-	5.9	375				2-1-1-3-6-3-2-1-2-4-3-4-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.22	
30-45	8992-110	4311-2-02				n-M36898-10/08/76-11	3	4.0	-	5.7	350				3-1-1-2-6-3-2-1-2-1-2-4-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50	
30-45	9062-110	4317-2-02				n-M36899-10/08/76-11	4	6.0	-	5.5	160				5-1-1-2-1-4-2-1-2-1-2-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37	
30-45	9147-110	4239-2-02				n-M36900-10/08/76-11	8	6.0	-	5.7	240				3-1-1-2-1-4-2-1-2-3-2-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72	
30-45	9200-110	4325-2-02				n-M36901-10/08/76-11	16	6.0	-	6.1	500				0-1-1-5-6-3-2-1-2-4-3-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.93	
30-45	9233-110	4342-2-02				n-M36902-10/08/76-12	14	5.0	-	5.9	480				3-1-1-5-6-2-2-1-2-2-3-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.79	
30-45	9508-110	4528-2-02				n-M36903-10/08/76-12	18	6.5	-	5.5	160				4-1-1-2-6-3-2-1-2-2-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	9528-110	4744-2-02				n-M36904-10/08/76-12	21	12.0	-	5.7	280				3-1-1-2-1-2-2-1-2-4-2-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32	
30-45	9574-110	4869-2-02				n-M36905-10/08/76-13	19	9.5	-	5.7	260				6-1-1-5-6-3-2-1-1-6-3-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40	
30-45	9992-110	4222-2-02				n-M36906-10/08/76-13	25	11.0	-	5.5	70				5-3-7-2-7-3-2-1-2-1-3-4-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.24	
30-45	9967-110	4233-2-02				n-M36907-10/08/76-13	24	9.0	-	5.5	75				5-3-7-2-7-3-2-1-2-1-3-3-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	7711-110	4794-2-02				n-M36909-10/08/76-15	20	11.0	-	5.9	550				1-1-1-3-7-2-2-1-2-4-3-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.31	
30-45	8006-110	4806-2-02				n-M36910-10/08/76-16	21	9.0	-	5.9	500				4-1-1-3-1-3-2-1-2-2-3-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.02	
30-45	8203-110	4992-2-02				n-M36911-10/08/76-16	17	11.0	-	5.9	600				5-1-1-5-6-2-2-3-2-2-2-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.49	
30-45	7578-110	4533-2-02				n-M36913-10/09/76-9	11	7.0	-	5.9	460				4-1-1-5-6-2-2-1-2-2-2-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41	
30-45	8458-110	4106-2-02				n-M36915-10/09/76-10	13	7.0	-	5.7	600				2-3-7-3-6-2-2-1-2-4-2-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.59	
30-45	8292-110	4400-2-02				n-M36916-10/09/76-11	14	7.0	-	5.7	550				0-1-1-3-1-2-2-1-2-4-2-3-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.01	
30-45	8325-110	4725-2-02				n-M36918-10/09/76-12	18	8.0	-	5.9	450				7-1-1-5-6-2-2-1-2-3-2-2-1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.67	
30-45	9825-110	5183-2-07				n-M36919-10/04/76-13	17	12.2	-	5.7	335				2-1-1-3-6-3-2-2-2-2-3-2-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70	
30-45	9861-110	5019-2-07				n-M36920-10/04/76-13	15	9.9	-	5.7	310				7-1-1-3-7-3-2-1-2-2-1-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14	
30-45	9850-110	5014-2-07				n-M36921-10/04/76-13	17	10.2	-	5.8	500				4-1-1-3-7-3-2-1-2-2-1-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.15	
30-45	9056-110	5144-2-07				n-M36922-10/04/76-14	17	10.0	-	5.9	345				5-1-1-2-7-3-2-2-2-4-3-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53	
30-45	9956-110	5372-2-07				n-M36923-10/04/76-14	18	9.9	-	5.7	360				5-1-1-2-7-2-2-1-2-2-3-2-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.32	
30-45	9833-110	6139-2-07				n-M36924-10/04/76-15	19	9.8	-	5.7	440				8-1-6-2-7-3-2-3-2-2-2-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.03	
30-45	9689-110	5516-2-07				n-M36926-10/04/76-15	19	12.5	-	5.7	420				2-1-1-3-6-3-2-1-2-2-1-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.71	
30-45	9641-110	6455-2-07				n-M36928-10/04/76-16	20	9.8	-	5.9	520				4-1-1-5-7-3-2-2-2-4-3-3-2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.11	
30-45	9652-110	6460-2-07				n-M36929-10/																													

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																			U CONCENTRATION										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (cpm/ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45.9077-110.6292-2-07-	n-M36938-10/05/76-12-	8-	9.0-C-	-	6.1-	1050-																												1.61	
30-45.8733-110.7246-2-07-	n-M36939-10/05/76-13-	7-	7.0-C-	-	5.7-	500-																											1.68		
30-45.8843-110.7264-2-02-	n-M36940-10/05/76-13-	5-	5.0-C-	-	5.7-	360-																											0.29		
30-45.8817-110.7149-2-02-	n-M36941-10/05/76-13-	5-	5.5-C-	-	5.7-	750-																											0.76		
30-45.8645-110.7458-2-02-	n-M36942-10/05/76-14-	6-	5.5-C-	-	5.9-	300-																											0.18		
30-45.8414-110.7397-2-02-	n-M36943-10/05/76-14-	6-	4.5-C-	-	5.7-	30-																											0.22		
30-45.8700-110.6981-2-02-	n-M36945-10/05/76-14-	6-	7.0-	-	5.9-	360-																											1.70		
30-45.8668-110.6681-2-02-	n-M36946-10/05/76-15-	6-	6.0-C-	-	5.9-	370-																											0.88		
30-45.8663-110.6728-2-02-	n-M36947-10/05/76-15-	8-	6.5-C-	-	5.9-	350-																											1.09		
30-45.8650-110.6458-2-02-	n-M36948-10/05/76-15-	8-	5.5-C-	-	5.9-	310-																											1.21		
30-45.8350-110.6519-2-02-	n-M36949-10/05/76-16-	8-	5.0-C-	-	5.7-	310-																											0.68		
30-45.8303-110.6394-2-02-	n-M36950-10/05/76-14-	7-	5.0-C-	-	5.7-	360-																											0.54		
30-45.8136-110.6539-2-02-	n-M36951-10/05/76-16-	9-	5.5-C-	-	5.7-	360-																											0.33		
30-45.9151-110.0106-2-02-	n-M36953-10/06/76-11-	14-	7.5-C-	-	5.9-	500-																											1.77		
30-45.8966-110.0236-2-02-	n-M36954-10/06/76-11-	13-	8.0-C-	-	5.9-	360-																											0.65		
30-45.8707-110.0047-2-02-	n-M36955-10/06/76-11-	12-	8.5-C-	-	5.9-	650-																											1.94		
30-45.8828-110.0286-2-02-	n-M36956-10/06/76-12-	12-	8.5-C-	-	5.9-	700-																											1.21		
30-45.8817-110.0608-2-02-	n																																		

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																		U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	7911-110.0422	-2-07-	n-M37011	-10/12/76-11-	12-	7.6-	-	-	6.3-	300-	3-1-4-5-7-2-2-2-2-4-4-1-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.04		
30-45	7911-110.1247	-2-07-	n-M37012	-10/12/76-12-	14-	7.0-	-	-	6.6-	750-	5-1-7-5-6-2-2-2-2-4-4-1-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.46		
30-45	7978-110.1042	-2-07-	n-M37013	-10/12/76-12-	14-	10.2-	-	-	6.6-	500-	6-1-4-5-8-2-2-2-2-4-3-1-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.35		
30-45	7904-110.1092	-2-07-	n-M37014	-10/12/76-12-	14-	8.6-	-	-	6.6-	800-	4-1-6-4-6-2-2-2-2-4-3-1-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.15		
30-45	8083-110.0692	-2-07-	n-M37015	-10/12/76-13-	14-	8.0-	-	-	6.6-	500-	7-1-4-4-6-2-2-2-2-4-3-1-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.47		
30-45	8300-110.0447	-2-07-	n-M37016	-10/12/76-13-	14-	9.0-	-	-	6.6-	450-	4-1-4-4-6-2-2-2-2-2-2-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.66		
30-45	8324-110.0534	-2-07-	n-M37017	-10/12/76-14-	13-	9.0-	-	-	6.6-	500-	2-1-4-4-6-2-2-2-2-2-2-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.26		
30-45	7978-110.4381	-2-02-	n-M37019	-10/09/76-12-	17-	9.0-C-	-	-	5.9-	250-	2-1-1-5-6-2-2-2-1-2-3-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66		
30-45	7808-110.4347	-2-02-	n-M37020	-10/09/76-12-	19-	9.0-C-	-	-	5.7-	200-	3-1-1-3-6-3-2-1-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.82		
30-45	8083-110.4250	-2-02-	n-M37021	-10/09/76-13-	19-	8.5-C-	-	-	5.9-	300-	1-1-1-5-6-2-2-2-1-2-3-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.34		
30-45	8100-110.4031	-2-02-	n-M37022	-10/09/76-13-	21-	9.0-C-	-	-	5.9-	200-	4-1-1-5-6-2-2-2-1-2-3-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.09		
30-45	8002-110.4028	-2-02-	n-M37023	-10/09/76-13-	20-	9.0-C-	-	-	5.9-	200-	5-1-1-5-6-2-2-2-1-2-3-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.40		
30-45	7921-110.3725	-2-02-	n-M37024	-10/09/76-14-	18-	9.5-C-	-	-	5.7-	200-	1-1-1-3-6-2-2-2-1-2-3-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.90		
30-45	8069-110.3083	-2-02-	n-M37025	-10/09/76-15-	21-	9.0-C-	-	-	5.7-	270-	1-1-1-5-6-2-2-2-1-2-2-2-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45		
30-45	8124-110.3086	-2-02-	n-M37026	-10/09/76-15-	21-	9.5-C-	-	-	5.9-	200-	3-1-1-5-6-2-2-2-1-2-2-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14		
30-45	8097-110.3322	-2-02-	n-M37027	-10/09/76-16-	20-	8.5-C-	-	-	5.9-	200-	5-1-1-5-6-2-2-2-1-2-2-2-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.84		
30-45	7679-110.6411	-2-07-	n-M37029	-10/10/76-	8-	11-	6.5-C-	-	5.9-	200-	1-1-1-5-6-2-2-2-1-2-3-3-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.28		
30-45	7655-110.6746	-2-07-	n-M37030	-10/10/76-	8-	10-	7.5-C-	-	5.7-	500-	1-1-1-5-6-2-2-2-1-2-4-3-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00		
30-45	7741-110.7017	-2-07-	n-M37031	-10/10/76-	9-	10-	7.5-C-	-	5.7-	450-	1-1-1-5-6-2-2-2-3-2-4-3-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.73		
30-45	7153-110.6973	-2-07-	n-M37033	-10/10/76-	9-	10-	6.0-C-	-	5.7-	900-	1-1-1-5-6-2-2-2-1-2-3-4-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10		
30-45	7131-110.6972	-2-07-	n-M37034	-10/10/76-	9-	11-	6.5-C-	-	5.7-	200-	1-1-1-3-6-2-2-2-1-2-3-3-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.95		
30-45	6880-110.7171	-2-07-	n-M37035	-10/10/76-	10-	10-	6.0-C-	-	5.9-	200-	1-1-1-5-6-2-2-2-1-2-3-3-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.61		
30-45	7159-110.6574	-2-06-	n-M37036	-10/10/76-	10-	11-	6.5-C-	-	6.1-	450-	1-1-1-5-6-2-2-2-1-2-2-2-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.54		
30-45	7002-110.6609	-2-06-	n-M37037	-10/10/76-	10-	11-	6.0-C-	-	6.1-	550-	1-1-1-5-6-2-2-2-1-3-2-3-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.28		
30-45	6571-110.6353	-2-07-	n-M37038	-10/10/76-	11-	11-	7.0-C-	-	5.9-	200-	1-1-1-3-6-3-2-2-1-2-2-3-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.07		
30-45	7671-110.8806	-2-07-	n-M37039	-10/10/76-	11-	6-	4.0-C-	-	5.9-	200-	1-1-2-7-3-2-2-1-2-2-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.54		
30-45	7708-110.8186	-2-07-	n-M37040	-10/10/76-	11-	1-	1.5-C-	-	5.7-	200-	1-1-2-7-2-2-2-1-2-1-3-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.83		
30-45	7502-110.8669	-2-07-	n-M37041	-10/10/76-	11-	2-	1.5-C-	-	5.7-	200-	1-1-2-7-3-2-2-1-2-2-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.88		
30-45	7667-110.8784	-2-07-	n-M37042	-10/10/76-	12-	2-	3.5-C-	-	5.9-	200-	1-1-2-7-3-2-2-1-2-3-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.35		
30-45	7758-110.8734	-2-07-	n-M37043	-10/10/76-	12-	1-	1.5-C-	-	5.7-	200-	1-1-2-7-3-2-2-1-2-3-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.96		
30-45	7875-110.8847	-2-07-	n-M37044	-10/10/76-	12-	8-	3.0-C-	-	5.7-	200-	1-1-2-7-3-2-2-1-2-2-3-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.45		
30-45	8194-110.8939	-2-07-	n-M37046	-10/10/76-	13-	5-	3.5-C-	-	5.7-	200-	1-1-2-7-4-2-2-1-2-2-3-3-2-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.51		
30-45	8208-110.8867	-2-07-	n-M37047	-10/10/76-	13-	6-	4.0-C-	-	5.7-	200-	1-1-2-7-3-2-2-1-2-2-3-3-2-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53		
30-45	8577-110.8833	-2-07-	n-M37048	-10/10/76-	13-	8-	3.5-C-	-	5.7-	200-	1-1-2-7-2-2-2-1-2-2-3-2-1-	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.20		
30-45	8597-110.9003	-2-07-	n-M37049	-10/10/76-	13-	8-	3.5-C-	-	5.7-	200-	1-1-2-7-3-2-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72		
30-45	8718-110.9097	-2-07-	n-M37050	-10/10/76-	13-	7-	4.0-C-	-	5.9-	200-	1-1-2-7-2-2-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.31		
30-45	8722-110.9033	-2-07-	n-M37051	-10/10/76-	13-	8-	2.0-C-	-	5.9-	200-	1-1-3-7-2-2-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.58		
30-45	8619-110.8392	-2-07-	n-M37052	-10/10/76-	14-	7-	3.5-C-	-	5.9-	200-	1-1-2-7-3-2-2-1-2-1-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.40		
30-45	8647-110.8204	-2-06-	n-M37053	-10/10/76-	14-	8-	3.5-C-	-	5.7-	200-	1-1-3-7-2-2-2-1-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.73		
30-45	8628-110.8108	-2-07-	n-M37054	-10/10/76-	14-	8-	4.0-C-	-	5.7-	200-	1-1-3-7-3-2-2-1-2-2-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63		
30-45	8329-110.8333	-2-07-	n-M37055	-10/10/76-	15-	8-	4.0-C-	-	5.9-	200-	1-1-3-7-2-2-2-1-2-3-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.42		
30-45	8389-110.8000	-2-07-	n-M37056	-10/10/76-	15-	9-	4.5-C-	-	5.9-	200-	1-1-2-7-2-2-2-1-2-3-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.25		
30-45	8306-110.7753	-2-07-	n-M37057	-10/10/76-	15-	8-	4.0-C-	-	5.9-	200-	1-1-2-7-2-2-2-1-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.69		
30-45	8808-110.7889	-2-07-	n-M37058	-10/10/76-	16-	9-	4.0-C-</																												

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																			U CONCENTRATION										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (c.u. ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	9453-110	8839-2-07	n-M37066	10/11/76	8	-1	0.4	C	-	5.8	440	-	-1-1-4-6-3-2-3-2-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.58			
30-45	9429-110	8886-2-07	n-M37067	10/11/76	8	-1	0.4	C	-	5.8	500	-	-1-1-5-6-2-2-1-2-2-3-4-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.99			
30-45	9361-110	9161-2-07	n-M37068	10/10/76	8	6	4.3	C	-	5.7	320	-	-1-1-5-6-3-2-1-2-4-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.62			
30-45	9053-110	1339-2-07	n-M37069	10/10/76	8	6	1.0	-	-	6.3	310	-	-1-1-4-6-3-3-2-2-2-4-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.50			
30-45	9425-110	1908-2-07	n-M37070	10/10/76	8	6	-	-	-	6.3	250	-	-1-1-4-6-3-2-1-2-2-2-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.98			
30-45	9406-110	1942-2-07	n-M37071	10/10/76	10	8	-	-	-	6.3	255	-	-1-1-4-6-3-2-1-2-2-2-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.82			
30-45	9594-110	1683-2-07	n-M37073	10/10/76	10	8	2.8	-	-	6.6	205	-	-1-1-4-4-8-2-2-2-2-2-3-1-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.19			
30-45	9897-110	1400-2-02	n-M37074	10/10/76	10	7	3.8	-	-	6.3	170	-	-1-1-4-6-3-2-1-2-2-3-1-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10			
30-45	9911-110	1411-2-02	n-M37075	10/10/76	11	7	2.6	-	-	6.6	220	-	-1-1-4-6-3-2-1-2-2-3-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10			
30-45	9581-110	1303-2-02	n-M37076	10/10/76	11	6	-	-	-	6.6	250	-	-1-1-4-5-8-2-2-2-2-2-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.63			
30-45	7717-111	7580-2-02	n-M37078	10/10/76	12	5	-	-	-	6.6	750	-	-1-1-4-5-8-2-2-1-2-4-3-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.06			
30-45	7545-111	7639-2-02	n-M37079	10/10/76	12	6	2.0	-	-	6.6	800	-	-1-1-4-5-8-2-2-2-2-4-3-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.94			
30-45	8137-111	9511-2-02	n-M37088	10/10/76	15	8	7.0	-	-	6.6	600	-	-1-1-4-4-6-2-2-1-2-2-2-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.52			
30-45	7955-111	9175-2-02	n-M37090	10/10/76	15	8	3.0	-	-	6.6	600	-	-1-1-4-4-7-2-2-1-2-2-3-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.26			
30-45	7534-111	9644-2-02	n-M37092	10/10/76	16	8	3.0	-	-	6.6																									

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DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION									
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOUR																											
30-45	8950-110.3603-2-07-	n-M37156-10/11/76-17-	5-	2.0-	-	6.3-	200-	-	1-6-4-7-2-2-1-2-1-3-3-2-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.94			
30-45	8958-110.3219-2-07-	n-M37157-10/11/76-17-	5-	6.0-	-	6.3-	250-	-	-	1-6-4-6-3-2-1-2-4-3-4-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.12			
30-45	9169-110.3175-2-07-	n-M37158-10/11/76-18-	8-	3.0-	-	6.3-	220-	-	-	1-6-4-6-4-3-2-1-3-4-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.70			
30-45	8781-110.2744-2-07-	n-M37159-10/11/76-18-	10-	2.4-	-	6.3-	200-	-	-	1-6-4-6-2-2-1-2-4-3-4-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.74			
30-45	8800-110.2800-2-07-	n-M37160-10/11/76-18-	9-	3.0-	-	6.6-	300-	-	-	1-6-3-6-2-2-1-2-2-4-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.58			
30-45	8831-110.2561-2-07-	n-M37161-10/11/76-18-	9-	0.8-	-	6.3-	185-	-	-	1-6-4-6-2-2-1-2-2-4-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.18			
30-45	8711-110.2478-2-07-	n-M37162-10/11/76-19-	9-	1.4-	-	6.3-	210-	-	-	1-6-4-6-3-3-1-2-2-3-4-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.56			
30-45	8761-110.2464-2-07-	n-M37163-10/11/76-19-	9-	2.0-	-	6.3-	220-	-	-	1-6-4-6-2-2-1-2-2-4-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.03			
30-45	8856-110.2100-2-07-	n-M37165-10/11/76-17-	8-	4.0-	-	6.6-	300-	-	-	1-6-4-6-2-2-1-2-2-4-3-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.42			
30-45	8869-110.1931-2-07-	n-M37166-10/15/76-18-	8-	3.6-	-	6.6-	550-	-	-	1-6-4-6-2-2-1-2-2-2-2-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.71			
30-45	9839-111.7685-2-01-	n-M37167-10/15/76-18-	4-	-	-	6.6-	470-	-	-	1-6-4-6-2-2-2-4-3-3-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.19			
30-45	9017-111.3121-2-02-	n-M37168-10/15/76-18-	5-	-	-	6.9-	1300-	-	-	1-6-4-6-2-2-2-2-2-2-1-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.22			
30-45	9120-111.7648-2-01-	n-M37172-10/15/76-19-	1-	-	-	6.6-	2000-	-	-	1-6-5-8-2-2-3-4-4-1-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.20			
30-45	8648-111.8605-2-01-	n-M37176-10/15/76-10-	2-	-	-	6.3-	550-	-	-	1-6-5-6-2-2-1-4-3-3-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00			
30-45	9617-111.3095-2-01-	n-M37190-10/15/76-13-	9-	5.2-	-	6																													

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

DOE SAMPLE NUMBER					LASL SAMPLE LOCATION NUMBER AND FIELD DATA																			U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY	UNITS IN ppb
							DATE	HOURS																											
30-45	3442-111	5327-2-07-	n-M37556	10/20/76	17-	3-	1.0	-	5.7	220	-	-	5.7	220	-	1-4-4-6-4-3-1	2-1-3-4-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.65		
30-45	6873-111	7433-2-02-	n-M37557	10/18/76	8-	2-	1.0	-	5.7	250	-	-	5.7	250	-	2-7-3-1-2-2-1	2-3-3-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.28			
30-45	6475-111	7478-2-02-	n-M37558	10/18/76	8-	1-	-	-	5.4	260	-	-	5.4	260	-	2-7-3-1-2-2-1	2-4-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.23			
30-45	6419-111	6514-2-02-	n-M37559	10/18/76	8-	1-	-	-	5.4	260	-	-	5.4	260	-	2-7-3-7-2-2-1	2-3-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.78			
30-45	6555-111	6532-2-01-	n-M37560	10/18/76	9-	4-	3.0	-	5.2	210	-	-	5.2	210	-	2-7-4-1-2-2-1	1-4-3-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.06			
30-45	6776-111	6578-2-02-	n-M37561	10/18/76	9-	3-	1.0	-	5.8	250	-	-	5.8	250	-	2-7-3-1-2-2-1	2-4-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.20			
30-45	6900-111	6805-2-02-	n-M37564	10/18/76	9-	3-	1.0	-	5.5	280	-	-	5.5	280	-	2-7-3-1-2-2-1	2-4-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.34			
30-45	7217-111	6357-2-02-	n-M37565	10/18/76	10-	4-	2.0	-	5.5	220	-	-	5.5	220	-	2-7-3-1-2-2-1	2-4-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.85			
30-45	7476-111	6516-2-02-	n-M37566	10/18/76	10-	4-	3.0	-	5.6	210	-	-	5.6	210	-	2-7-4-1-2-2-1	2-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.34			
30-45	6162-111	6120-2-02-	n-M37567	10/18/76	10-	3-	2.0	-	5.8	280	-	-	5.8	280	-	2-7-4-1-2-2-1	2-4-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.59			
30-45	6153-111	6415-2-01-	n-M37568	10/18/76	11-	4-	1.0	-	5.8	280	-	-	5.8	280	-	2-7-3-7-2-2-1	2-4-2-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.68			
30-45	5854-111	6472-2-02-	n-M37569	10/18/76	11-	5-	2.0	-	5.8	250	-	-	5.8	250	-	2-7-4-1-2-2-1	2-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.82			
30-45	5855-111	6700-2-02-	n-M37570	10/18/76	11-	4-	-	-	5.4	220	-	-	5.4	220	-	2-7-3-7-2-2-1	2-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.69			
30-45	5981-111	6891-2-01-	n-M37571	10/18/76	12-	4-	1.0	-	5.4	260	-	-	5.4	260	-	2-7-3-7-2-2-1	1-6-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41			
30-45	6117-111	7218-2-02-	n-M37572																																

APPENDIX C

LISTINGS OF FIELD DATA AND URANIUM CONCENTRATIONS FOR SEDIMENT SAMPLES
FROM THE BOZEMAN QUADRANGLE, MONTANA

(See Appendix D for Code to Listings)

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

DOE SAMPLE NUMBER					LASI SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICA#	LASI 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm	
							DATE	HOUR																											
30-45	1017-110	0456-2-12				0-M36109	10/22/75	12	4	1.7	-	-	5.8	170	-	3-4-4-6-3-3-1	2-4-2-2-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40		
30-45	1145-110	1015-2-12				0-M36110	10/22/75	12	4	1.0	-	-	5.7	165	-	2-7-4-6-6-3-1	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	1132-110	1016-2-12				0-M36111	10/22/75	12	4	1.0	-	-	5.7	165	-	2-7-4-6-6-3-1	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45	1315-110	0719-2-12				0-M36112	10/22/75	13	4	1.2	-	-	5.7	165	-	4-7-2-7-3-3-1	2-1-4-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45	1619-110	1141-2-12				0-M36113	10/22/75	16	3	1.5	-	-	5.7	170	-	3-7-2-4-6-3-1	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.10	
30-45	1639-110	1007-2-12				0-M36114	10/22/75	15	5	2.0	-	-	5.6	165	-	3-7-2-4-4-3-1	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50	
30-45	0779-110	0781-2-12				0-M36115	10/22/75	18	2	1.0	-	-	5.7	165	-	3-7-2-4-3-3-1	2-1-4-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80	
30-45	0987-110	3094-2-12				0-M36116	10/24/75	14	2	1.0	-	-	5.7	200	-	2-6-3-6-3-3-1	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	1477-110	3008-2-12				0-M36117	10/24/75	11	2	1.0	-	-	5.8	210	-	2-7-4-6-3-3-1	2-1-4-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90	
30-45	1682-110	1535-2-12				0-M36118	10/22/75	15	3	1.0	-	-	5.7	165	-	2-6-1-7-3-3-1	2-1-4-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20	
30-45	0738-110	0023-2-12				0-M36119	10/22/75	18	3	2.0	-	-	5.7	165	-	3-7-2-4-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70	
30-45	1940-110	3631-2-12				0-M36120	10/24/75	14	4	2.0	-	-	5.7	190	-	2-6-2-6-4-3-1	2-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.20	
30-45	0419-110	1842-2-12				0-M36121	10/24/75	17	-	1.0	-	-	5.8	170	-	2-6-3-6-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.70	
30-45	2031-110	3433-2-12				0-M36122	10/24/75	15	2	1.0	-	-	5.8	175	-	2-6-3-6-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80	
30-45	1520-110	1295-2-12				0-M36123	10/22/75	14	3	1.4	-	-	5.7	165	-	2-7-2-7-4-3-1	2-1-4-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90	
30-45	2120-110	3671-2-12				0-M36124	10/24/75	16	1	1.0	-	-	5.8	170	-	2-6-3-6-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20	
30-45	0780-110	4249-2-12				0-M36125	10/24/75	12	-	1.0	-	-	5.7	180	-	2-6-3-6-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.50	
30-45	0075-110	3003-2-12				0-M36126	10/24/75	9	-	1.0	-	-	5.7	210	-	2-6-3-6-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70	
30-45	0058-110	3739-2-12				0-M36127	10/24/75	9	-2	1.0	-	-	5.7	220	-	2-6-3-6-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	1454-110	2459-2-12				0-M36128	10/23/75	14	4	1.0	-	-	5.7	90	-	2-6-3-6-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
30-45	0176-110	2721-2-12				0-M36130	10/23/75	12	5	2.0	-	-	5.7	90	-	3-4-2-6-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80	
30-45	0029-110	4149-2-12				0-M36132	10/24/75	8	-	1.0	-	-	5.7	210	-	2-6-4-6-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	0779-110	4217-2-12				0-M36133	10/24/75	12	-1	-	-	-	5.7	100	-	2-6-3-6-3-3-1	2-1-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.60	
30-45	5592-111	8208-2-10				0-M36134	10/20/75	9	1	-	-	-	-	-	-	2-7-4-1	-	1	-	2-2-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
30-45	5452-111	8000-2-12				0-M36135	10/20/75	9	1	1.5	-	-	5.5	200	-	2-7-5-6-2-2-1	2-4-3-2-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60	
30-45	5513-111	8215-2-10				0-M36136	10/20/75	9	1	-	-	-	-	-	-	2-7-3-7	-	1	-	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.90
30-45	5127-111	8205-2-12				0-M36137	10/20/75	10	2	2.0	-	-	5.6	200	-	2-7-4-1-3-2-1	2-4-4-2-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45	5036-111	8435-2-10				0-M36138	10/20/75	10	1	-	-	-	-	-	-	2-7-3-7	-	1	-	2-4-2-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
30-45	5342-111	8047-2-12				0-M36139	10/20/75	11	2	1.0	-	-	5.2	180	-	2-7-3-1-2-2-1	2-3-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.60	
30-45	5297-111	8050-2-12				0-M36140	10/20/75	11	2	1.0	-	-	5.5	240	-	2-7-3-7-2-2-1	2-3-2-2-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	5090-111	9075-2-10				0-M36141	10/20/75	11	2	-	-	-	-	-	-	2-7-4-6	-	1	-	2-3-2-2-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
30-45	5049-111	9036-2-12				0-M36142	10/20/75	12	3	1.0	-	-	5.7	210	-	2-7-3-1-2-2-1	2-2-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45	5435-111	7717-2-12				0-M36143	10/20/75	12	4	1.5	-	-	5.9	230	-	2-7-4-1-2-2-1	2-2-3-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45	5530-111	7742-2-12				0-M36144	10/20/75	13	4	1.5	-	-	5.5	210	-	2-7-3-1-2-2-1	2-3-3-3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
30-45	6624-111	0155-2-12				0-M36145	10/19/75	12	2	2.0	-	-	5.7	270	-	2-7-4-6-3-2-1	2-2-2-3-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45	8149-111	5134-2-10				0-M36146	10/10/75	10	-	-	-	-	-	-	-	2-1-4-1	-	1	-	2-4-4-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
30-45	8252-111	5138-2-10				0-M36147	10/19/75	10	-	-	-	-	-	-	-	2-1-4-1	-	1	-	2-4-4-1-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
30-45	8468-111	5195-2-12				0-M36148	10/10/75	11	1	-	-	-	5.2	410	-	2-7-4-1-2-2-2	2-4-3-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45	8574-111	5251-2-10				0-M36149	10/19/75	11	1	-	-	-	-	-	-	2-6-4-1	-	1	-	2-4-4-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
30-45	7715-111	5423-2-12				0-M36150	10/10/75	11	1	-	-	-	5.2	390	-	2-1-4-1-2-2-1	2-4-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45	7582-111	4450-2-12				0-M36151	10/19/75	12	2	1.0	-	-	5.5	280	-	2-7-3-7-2-2-1	2-3-3-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50	
30-45	7550-111	4266-2-12				0-M36152	10/10/75	12	2	1.0	-	-	5.2	310	-	2-7-3-7-2-2-1	2-4-3-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70	
30-45	7526-111	3067-2-10				0-M36153	10/19/75	13	4	-	-	-	-	-	-	2-7-4-1	-	1	-	2-4-4-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
30-45	7559-111	3593-2-10				0-M36154	10/19/75	13	4	-	-	-	-	-	-	2-7-4-1	-	1	-	2-4-4-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
30-45	7658-111	3226-2-12				0-M36155	10/19/75	13	4	1.5	-	-	5.5	240	-	2-7-4-1-2-2-1	2-4-4-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.00	
30-45	7426-111	3330-2-12				0-M36156	10/10/75	14	5	2.0	-	-	5.5	310	-	2-7-4-6-2-2-1	2-4-3-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.30	
30-45	8015-111	3414-2-10				0-M36157	10/19/75	14	6	-	-	-	-	-	-	2-7-4-1	-	1	-	2-4-2-2-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
30-45	7430-111	3156-2-12				0-M36158	10/19/75	14	5	2.0	-	-	5.7	320	-	2-7-4-1-2-2-1	2-4-2-2-1	-	-	-	-	-	-	-	-	-	-	-</							

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[illegible]

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DOE SAMPLE NUMBER					LASL SAMPLE LOCATION NUMBER AND FIELD DATA																	U CONCENTRATION												
SITE#	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (eu, ppm)	ROCK TYPE	POCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	SIPRAV CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																										
30-45,4729-110,9582-2-12-	0-436375-09/15/75-12-	14	2.0	-	7.5	55	4-3-4-4-3-2-1-2-4-4-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10			
30-45,4889-110,9732-2-12-	0-436376-09/15/75-13-	14	2.0	-	7.5	140	4-1-1-4-4-3-2-1-2-1-3-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70			
30-45,7868-111,1112-2-12-	0-436377-09/15/75-15-	20	12.6	-	5.0	398	4-1-1-4-4-3-2-1-2-1-3-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90			
30-45,7375-111,7448-2-12-	0-436380-10/10/75-14-	5	1.0	-	5.8	470	2-7-4-1-2-2-4-2-4-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60			
30-45,7169-111,7775-2-12-	0-436381-10/10/75-15-	5	1.0	-	5.6	420	2-7-4-1-2-2-4-2-4-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30			
30-45,7150-111,7736-2-12-	0-436382-10/10/75-15-	5	1.0	-	5.7	340	2-7-4-1-2-2-4-2-4-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.70			
30-45,5701-111,7223-2-12-	0-436383-10/10/75-16-	5	1.0	-	5.7	230	2-7-3-1-1-1-2-4-3-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30			
30-45,5662-111,6415-2-12-	0-436384-10/10/75-16-	5	1.5	-	5.3	345	2-7-4-1-2-2-4-2-4-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.70			
30-45,5526-111,6658-2-12-	0-436385-10/10/75-16-	6	1.0	-	5.2	340	2-7-5-6-2-2-2-2-3-4-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60			
30-45,5330-111,6283-2-12-	0-436386-10/10/75-17-	4	-	-	5.6	240	2-7-4-1-2-2-1-2-3-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.60			
30-45,6021-111,6436-2-12-	0-436387-10/10/75-18-	4	1.0	-	5.3	270	2-7-4-1-2-2-4-2-3-3-3-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.50			
30-45,7291-111,8133-2-12-	0-436388-10/10/75-9-	1	2.2	-	5.5	175	2-7-4-6-3-3-1-2-2-2-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40			
30-45,7366-111,8504-2-12-	0-436389-10/10/75-8-	2	0.2	-	5.7	255	2-7-3-6-3-3-1-2-2-2-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20			
30-45,7326-111,8688-2-12-	0-436390-10/10/75-8-	2	-	-	-	-	2-7-4-6-3-1-2-3-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40			
30-45,7306-111,8730-2-12-	0-436391-10/10/75-8-	1	-	-	-	-	2-7-4-6-3-1-2-3-3-2-																											

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

[illegible]

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DOE SAMPLE NUMBER					LASL SAMPLE LOCATION NUMBER AND FIELD DATA																			U CONCENTRATION										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICAT	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																										
30-45	2086-110	7635-2-12	0-M36507	10/12/75	17	10	6.0	-	5.1	50	-	-	5.1	50	-	1-4-2-4-3-3-1	-	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30		
30-45	2071-110	6646-2-12	0-M36508	10/12/75	16	11	6.5	-	5.2	55	-	-	5.2	55	-	1-4-2-4-3-3-1	-	2-1-3-5-2	-	-	-	-	-	-	-	-	-	-	-	-	5.10			
30-45	2358-110	7429-2-12	0-M36509	10/12/75	18	8	5.0	-	5.1	50	-	-	5.1	50	-	1-4-2-6-3-3-1	-	2-1-4-3-2	-	-	-	-	-	-	-	-	-	-	-	-	3.70			
30-45	4444-110	7386-2-12	0-M36510	10/11/75	9	0	6.0	-	5.5	210	-	-	5.5	210	-	1-4-4-6-3-2-1	-	1-2-2-3-2	-	-	-	-	-	-	-	-	-	-	-	-	3.00			
30-45	4444-110	8253-2-12	0-M36511	10/11/75	10	10	6.0	-	5.6	200	-	-	5.6	200	-	1-4-4-6-3-2-1	-	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	2.10			
30-45	4442-110	8276-2-12	0-M36512	10/11/75	10	10	6.0	-	5.5	200	-	-	5.5	200	-	1-4-4-6-3-2-1	-	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	4.70			
30-45	4522-110	8505-2-12	0-M36513	10/11/75	12	12	5.0	-	5.6	250	-	-	5.6	250	-	3-4-4-6-4-3-1	-	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	2.60			
30-45	4466-110	8802-2-12	0-M36514	10/11/75	13	12	6.0	-	5.8	255	-	-	5.8	255	-	3-4-4-6-4-3-1	-	2-1-4-5-2	-	-	-	-	-	-	-	-	-	-	-	-	2.90			
30-45	4537-110	8498-2-12	0-M36515	10/11/75	12	12	5.0	-	5.7	260	-	-	5.7	260	-	3-4-4-6-4-3-1	-	2-1-3-4-2	-	-	-	-	-	-	-	-	-	-	-	-	2.90			
30-45	1371-110	5673-2-12	0-M36516	10/14/75	12	7	2.5	-	5.7	90	-	-	5.7	90	-	1-4-3-6-2-2-1	-	2-1-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	3.50			
30-45	3183-111	7638-2-12	0-M36517	10/13/75	10	8	4.0	-	5.6	140	-	-	5.6	140	-	1-7-3-6-3-3-1	-	2-1-4-4-1	-	-	-	-	-	-	-	-	-	-	-	-	3.90			
30-45	2364-111	4699-2-12	0-M36518	10/14/75	13	11	4.0	-	5.5	145	-	-	5.5	145	-	1-7-4-6-3-3-1	-	2-1-2-2-1	-	-	-	-	-	-	-	-	-	-	-	-	3.10			
30-45	1288-111	7227-2-12	0-M36519	10/15/75	12	8	5.0	-	5.7	150	-	-	5.7	150	-	1-1-2-6-3-2-1	-	2-1-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	5.30			
30-45	2194-111	4656-2-12	0-M36520	10/14/75	18	7	5.0	-	5.9	240	-	-	5.9	240	-	1-5-4-6-7-2-1	-	1-1-3-3-1	-	-	-	-	-	-	-	-	-	-	-	-	4.70			
30-45	3047-111	7637-2-12	0-M36521	10/13/75	14	12	6.5	-	5.7																									

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION AND FIELD DATA																				U CONCENTRATION								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILOMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
30-45	1243-111	4773-2-12	0-M36559	10/04/75	8	0-M36559	10/04/75	8	0.0	5.6	240	-3-7-3-7-3-3-1-2-1-3-4-2-1	4.90																					
30-45	1251-111	4783-2-12	0-M36559	10/04/75	9	0-M36559	10/04/75	9	0.0	5.9	310	-3-7-3-7-3-3-1-2-1-3-4-2-1	3.50																					
30-45	1173-111	4832-2-12	0-M36560	10/04/75	7	0-M36560	10/04/75	7	0.0	5.8	310	-3-7-3-7-3-3-1-2-1-3-4-2-1	4.50																					
30-45	1158-111	4978-2-11	0-M36561	10/04/75	7	0-M36561	10/04/75	7	0.0	5.7	310	-4-7-3-7-3-2-1-2-1-3-3-2-1	4.40																					
30-45	1671-111	2472-2-12	0-M36563	09/19/75	17	0-M36563	09/19/75	17	0.0	5.9	300	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.60																					
30-45	2245-111	2472-2-12	0-M36564	09/19/75	17	0-M36564	09/19/75	17	0.0	5.8	190	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.30																					
30-45	2051-111	2431-2-15	0-M36565	09/19/75	17	0-M36565	09/19/75	17	0.0	5.8	190	0-1-4-2-1-4-2-1-2-1-2-3-2-1	3.70																					
30-45	1950-111	2412-2-12	0-M36566	09/19/75	18	0-M36566	09/19/75	18	0.0	5.9	260	0-1-4-2-1-4-2-1-2-1-2-3-2-1	3.30																					
30-45	1447-111	2423-2-12	0-M36567	09/19/75	18	0-M36567	09/19/75	18	0.0	5.8	260	0-1-4-2-1-4-2-1-2-1-2-3-2-1	3.40																					
30-45	1035-111	2228-2-15	0-M36568	09/19/75	18	0-M36568	09/19/75	18	0.0	5.8	260	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.60																					
30-45	2186-110	9401-2-12	0-M36569	09/21/75	9	0-M36569	09/21/75	9	0.0	5.9	200	0-1-4-2-1-4-2-1-2-1-2-3-2-1	3.60																					
30-45	2180-110	9420-2-12	0-M36570	09/21/75	9	0-M36570	09/21/75	9	0.0	5.7	150	0-1-4-2-1-4-2-1-2-1-2-3-2-1	1.60																					
30-45	1988-110	9433-2-12	0-M36571	09/21/75	10	0-M36571	09/21/75	10	0.0	5.8	150	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.70																					
30-45	1915-110	9461-2-12	0-M36572	09/21/75	11	0-M36572	09/21/75	11	0.0	5.8	190	0-1-4-2-1-4-2-1-2-1-2-3-2-1	4.50																					
30-45	1905-110	9459-2-12	0-M36573	09/21/75	11	0-M36573	09/21/75	11	0.0	5.9	160	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.30																					
30-45	1528-110	9411-2-12	0-M36574	09/21/75	11	0-M36574	09/21/75	11	0.0	5.6	100	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.20																					
30-45	1341-110	9450-2-12	0-M36575	09/21/75	12	0-M36575	09/21/75	12	0.0	5.7	170	0-1-4-2-1-4-2-1-2-1-2-3-2-1	3.10																					
30-45	1349-110	9436-2-12	0-M36576	09/21/75	12	0-M36576	09/21/75	12	0.0	5.2	55	0-1-4-2-1-4-2-1-2-1-2-3-2-1	1.40																					
30-45	1630-110	9421-2-12	0-M36577	09/21/75	13	0-M36577	09/21/75	13	0.0	5.5	120	0-1-4-2-1-4-2-1-2-1-2-3-2-1	1.70																					
30-45	1600-110	9424-2-12	0-M36578	09/21/75	13	0-M36578	09/21/75	13	0.0	5.5	500	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.90																					
30-45	1422-111	0131-2-12	0-M36579	09/21/75	14	0-M36579	09/21/75	14	0.0	5.2	90	0-1-4-2-1-4-2-1-2-1-2-3-2-1	6.90																					
30-45	1278-111	0203-2-12	0-M36580	09/21/75	14	0-M36580	09/21/75	14	0.0	5.7	120	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.50																					
30-45	1286-111	0191-2-12	0-M36581	09/21/75	14	0-M36581	09/21/75	14	0.0	5.4	70	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.40																					
30-45	1218-111	0358-2-12	0-M36582	09/21/75	14	0-M36582	09/21/75	14	0.0	5.7	90	0-1-4-2-1-4-2-1-2-1-2-3-2-1	1.60																					
30-45	1218-111	0345-2-12	0-M36583	09/21/75	15	0-M36583	09/21/75	15	0.0	5.5	70	0-1-4-2-1-4-2-1-2-1-2-3-2-1	1.80																					
30-45	1263-111	0401-2-12	0-M36584	09/21/75	15	0-M36584	09/21/75	15	0.0	5.7	150	0-1-4-2-1-4-2-1-2-1-2-3-2-1	1.40																					
30-45	1262-111	0509-2-12	0-M36585	09/21/75	15	0-M36585	09/21/75	15	0.0	5.6	90	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.80																					
30-45	1306-111	0729-2-12	0-M36586	09/21/75	16	0-M36586	09/21/75	16	0.0	5.5	100	0-1-4-2-1-4-2-1-2-1-2-3-2-1	1.70																					
30-45	1767-110	9413-2-12	0-M36587	09/21/75	16	0-M36587	09/21/75	16	0.0	5.7	190	0-1-4-2-1-4-2-1-2-1-2-3-2-1	1.60																					
30-45	1758-110	9498-2-15	0-M36588	09/21/75	17	0-M36588	09/21/75	17	0.0	5.8	240	0-1-4-2-1-4-2-1-2-1-2-3-2-1	1.50																					
30-45	1705-110	8763-2-12	0-M36589	09/21/75	17	0-M36589	09/21/75	17	0.0	5.1	510	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.50																					
30-45	0904-110	7735-2-11	0-M36590	09/22/75	11	0-M36590	09/22/75	11	0.0	5.8	240	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.40																					
30-45	0804-110	7427-2-15	0-M36591	09/22/75	11	0-M36591	09/22/75	11	0.0	5.8	240	0-1-4-2-1-4-2-1-2-1-2-3-2-1	3.20																					
30-45	1107-110	7862-2-15	0-M36592	09/22/75	11	0-M36592	09/22/75	11	0.0	5.8	240	0-1-4-2-1-4-2-1-2-1-2-3-2-1	6.80																					
30-45	0472-110	7540-2-15	0-M36593	09/22/75	12	0-M36593	09/22/75	12	0.0	5.8	240	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.60																					
30-45	0526-110	7426-2-15	0-M36594	09/22/75	12	0-M36594	09/22/75	12	0.0	5.8	240	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.60																					
30-45	0650-110	7740-2-12	0-M36595	09/22/75	12	0-M36595	09/22/75	12	0.0	5.7	30	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.70																					
30-45	0697-110	7775-2-15	0-M36596	09/22/75	12	0-M36596	09/22/75	12	0.0	5.8	240	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.90																					
30-45	0863-110	7837-2-15	0-M36597	09/22/75	12	0-M36597	09/22/75	12	0.0	5.8	240	0-1-4-2-1-4-2-1-2-1-2-3-2-1	3.50																					
30-45	1276-110	8077-2-12	0-M36598	09/22/75	13	0-M36598	09/22/75	13	0.0	5.9	240	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.30																					
30-45	1086-110	8191-2-12	0-M36599	09/22/75	13	0-M36599	09/22/75	13	0.0	5.9	300	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.70																					
30-45	0998-110	8207-2-12	0-M36600	09/22/75	13	0-M36600	09/22/75	13	0.0	5.7	270	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.40																					
30-45	1459-110	8040-2-12	0-M36601	09/22/75	14	0-M36601	09/22/75	14	0.0	5.7	130	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.20																					
30-45	1648-110	8343-2-12	0-M36602	09/22/75	14	0-M36602	09/22/75	14	0.0	5.9	250	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.20																					
30-45	1666-110	8379-2-15	0-M36603	09/22/75	15	0-M36603	09/22/75	15	0.0	5.8	240	0-1-4-2-1-4-2-1-2-1-2-3-2-1	3.00																					
30-45	4882-110	5032-2-12	0-M36604	09/28/75	10	0-M36604	09/28/75	10	0.0	5.5	110	0-1-4-2-1-4-2-1-2-1-2-3-2-1	3.10																					
30-45	4815-110	5618-2-12	0-M36605	09/28/75	10	0-M36605	09/28/75	10	0.0	5.7	140	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.50																					
30-45	4781-110	5717-2-12	0-M36606	09/28/75	11	0-M36606	09/28/75	11	0.0	5.5	100	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.90																					
30-45	2661-110	5805-2-12	0-M36607	09/29/75	11	0-M36607	09/29/75	11	0.0	5.7	140	0-1-4-2-1-4-2-1-2-1-2-3-2-1	3.40																					
30-45	2868-110	5744-2-12	0-M36608	09/29/75	12	0-M36608	09/29/75	12	0.0	5.7	120	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.50																					
30-45	2958-110	5631-2-12	0-M36609	09/29/75	12	0-M36609	09/29/75	12	0.0	5.5	120	0-1-4-2-1-4-2-1-2-1-2-3-2-1	2.60																					

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DOE SAMPLE NUMBER						LASI SAMPLE LOCAT ON NUMBER AND FIELD DATA																	U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	DEPTH (ft)	LASI 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																										
30-45.2738	-110.5405	-2-12	0-M36610	09/20/75	12	12	5.0	-	5.7	150	1-2-7-2-7-4-2-1	-2-1-3-3-1	-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50		
30-45.2840	-110.5479	-2-12	0-M36611	09/20/75	13	25	5.5	-	5.0	440	2-1-7-3-6-3-2-1	-2-1-3-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50		
30-45.2871	-110.5240	-2-12	0-M36612	09/20/75	13	10	5.5	-	5.7	270	3-1-7-2-6-3-2-1	-2-2-2-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60		
30-45.3214	-110.5299	-2-12	0-M36613	09/20/75	14	12	10.5	-	5.1	300	1-1-7-2-7-3-2-1	-2-2-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90		
30-45.3183	-110.5109	-2-12	0-M36614	09/20/75	14	12	6.5	-	5.7	170	5-2-7-2-7-3-2-1	-2-1-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.00		
30-45.3193	-110.5197	-2-12	0-M36615	09/20/75	14	11	5.0	-	5.7	130	4-7-7-5-8-1	-3-1-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.10		
30-45.3163	-110.5579	-2-12	0-M36616	09/20/75	14	22	7.5	-	5.7	130	5-1-7-2-1-4-2-1	-2-2-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50		
30-45.3171	-110.7011	-2-12	0-M36617	09/20/75	15	14	8.0	-	5.7	130	0-1-7-2-7-4-2-1	-2-2-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.00		
30-45.3220	-110.7120	-2-12	0-M36618	09/20/75	15	11	9.0	-	5.5	130	7-1-7-3-7-4-2-1	-2-2-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80		
30-45.3395	-110.6746	-2-12	0-M36619	09/20/75	15	22	15.0	-	5.7	150	5-4-7-3-6-2-2-1	-2-4-3-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10		
30-45.4885	-110.5007	-2-12	0-M36620	09/20/75	9	5	5.0	-	5.4	50	6-1-7-1-7-4-2-1	-2-1-3-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.60		
30-45.4873	-110.5011	-2-12	0-M36621	09/20/75	9	5	5.5	-	5.2	55	3-1-7-2-7-2-2-1	-2-1-3-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70		
30-45.4621	-110.5072	-2-12	0-M36622	09/20/75	10	8	9.0	-	5.5	210	4-1-7-2-7-2-2-1	-2-4-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.30		
30-45.4614	-110.5072	-2-12	0-M36623	09/20/75	10	8	9.0	-	5.5	210	11-1-7-2-7-1	-2-2-2-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00		
30-45.4758	-111.7625	-2-12	0-M36624	10/20/75	12																													

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																							U CONCENTRATION					
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																										
30-45	5513-110	5198-2-12-				0-M36764-10/01/75-12-	12	7.0-C-	-	5.8	120-				4-1-7-2-7-3-2-1-2-1-2-2-1-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
30-45	5715-110	5210-2-12-				0-M36765-10/01/75-12-	12	8.0-C-	-	5.7	340-				3-1-7-2-3-3-2-1-2-2-2-2-1-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30	
30-45	5657-110	5471-2-12-				0-M36766-10/01/75-13-	20	8.0-C-	-	5.9	345-				4-1-1-2-3-3-2-1-2-2-2-2-1-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
30-45	5705-110	5486-2-12-				0-M36767-10/01/75-13-	12	10.0-C-	-	5.3	340-				3-1-7-2-7-2-2-1-2-2-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
30-45	6233-110	5085-2-12-				0-M36768-10/01/75-13-	12	12.5-C-	-	5.5	700-				4-1-1-6-6-1-2-1-1-6-3-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
30-45	6158-110	5026-2-11-				0-M36769-10/01/75-14-	12	10.5-C-	-	5.3	480-				1-1-1-3-6-2-2-1-2-2-3-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
30-45	6212-110	5860-2-12-				0-M36770-10/01/75-14-	10	12.0-C-	-	5.3	480-				1-1-1-6-6-2-2-1-2-6-3-6-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45	6303-110	5555-2-12-				0-M36771-10/01/75-16-	22	12.0-C-	-	5.3	450-				2-3-7-5-6-2-2-1-2-4-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45	6492-110	3824-2-12-				0-M36772-10/04/75-11-	11	7.0-	-	5.3	310-				3-1-1-1-3-2-2-1-2-2-3-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20	
30-45	7331-110	4686-2-12-				0-M36773-10/04/75-12-	10	-	-	-	-				7-1-5-4-6-1-1-4-3-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
30-45	7436-110	4894-2-12-				0-M36774-10/04/75-12-	10	8.4-	-	5.6	500-				3-1-7-5-8-2-2-1-2-2-3-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
30-45	7260-110	4589-2-12-				0-M36775-10/04/75-12-	14	-	-	-	-				1-1-7-4-6-1-1-4-2-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	7309-110	3874-2-12-				0-M36776-10/04/75-13-	14	-	-	-	-				7-1-7-4-6-1-1-4-2-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45	7373-110	3556-2-12-				0-M36777-10/04/75-13-	14	8.0-	-	5.3	440-				4-1-7-4-6-2-2-2-1-4-2-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	7436-110	3218-2-12-				0-M36778-10/04/75-13-	14	9.4-	-	5.3	410-				6-1-7-5-6-2-2-2-2-4-2-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	7467-110	2853-2-12-				0-M36779-10/04/75-14-	12	10.0-	-	5.9	600-				5-1-7-4-6-2-2-2-2-2-2-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45	7045-110	3430-2-12-				0-M36780-10/04/75-15-	12	-	-	-	-				8-1-1-5-6-1-1-4-4-1-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60	
30-45	6756-110	3401-2-12-				0-M36781-10/04/75-15-	12	8.0-	-	5.6	410-				6-1-6-4-6-2-2-1-2-4-6-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	6651-110	3277-2-12-				0-M36782-10/04/75-16-	11	8.2-	-	5.6	420-				5-1-6-4-6-3-3-1-2-2-2-4-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	6949-110	3247-2-12-				0-M36783-10/04/75-17-	10	1.0-	-	5.3	400-				7-1-1-4-6-2-2-1-2-4-3-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	6926-110	3150-2-12-				0-M36784-10/05/75-9-	9	4.8-	-	5.3	410-				7-1-6-4-6-3-2-2-2-4-2-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.90	
30-45	6912-110	3030-2-12-				0-M36785-10/05/75-10-	5	7.0-	-	5.6	500-				1-1-6-4-6-2-2-2-2-4-2-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	6896-110	2745-2-12-				0-M36786-10/05/75-10-	6	7.2-	-	5.3	450-				10-1-6-4-6-2-2-1-2-2-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	6895-110	2742-2-12-				0-M36787-10/05/75-10-	6	5.6-	-	5.3	375-				6-1-6-4-6-2-2-1-2-2-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.90	
30-45	6732-110	2818-2-12-				0-M36788-10/05/75-11-	9	-	-	-	-				3-1-6-1-1-3-3-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50	
30-45	6565-110	2054-2-12-				0-M36789-10/05/75-12-	11	5.8-	-	5.6	330-				5-1-6-4-6-2-2-1-2-2-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
30-45	6567-110	2030-2-12-				0-M36790-10/05/75-12-	11	4.4-	-	5.3	390-				7-1-6-4-6-3-2-1-2-2-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
30-45	6885-110	2656-2-12-				0-M36791-10/05/75-13-	6	-	-	-	-				6-1-6-4-6-1-1-4-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20	
30-45	6757-110	2503-2-12-				0-M36792-10/05/75-13-	6	6.0-	-	5.3	340-				3-1-6-4-6-2-2-1-2-2-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
30-45	6971-110	2650-2-12-				0-M36793-10/05/75-14-	6	7.0-	-	5.3	400-				5-1-6-4-6-2-2-1-2-4-3-3-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20	
30-45	6026-110	3746-2-12-				0-M36794-10/05/75-15-	6	4.0-	-	5.3	330-				7-1-1-4-6-3-3-1-2-1-3-3-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20	
30-45	6040-110	3730-2-12-				0-M36795-10/05/75-15-	6	4.6-	-	5.6	340-				8-1-1-4-6-3-3-1-2-1-3-3-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45	6050-110	4018-2-12-				0-M36796-10/05/75-15-	6	-	-	-	-				9-1-1-5-8-1-1-1-3-4-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45	6142-110	3530-2-12-				0-M36797-10/05/75-16-	7	5.0-	-	5.6	340-				6-1-1-4-6-3-2-1-2-2-2-4-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	6041-110	3330-2-12-				0-M36798-10/05/75-16-	6	6.0-	-	5.9	550-				5-1-6-4-6-3-2-1-2-2-3-4-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
30-45	5992-110	3261-2-12-				0-M36799-10/05/75-17-	6	5.0-	-	5.3	275-				6-1-6-4-6-2-2-1-2-2-3-4-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45	6237-110	4017-2-12-				0-M36800-10/06/75-9-	4	4.2-	-	5.3	480-				8-1-6-4-6-2-2-3-2-4-2-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45	5955-110	3279-2-12-				0-M36801-10/06/75-9-	5	3.2-	-	5.3	340-				6-1-6-4-6-3-2-1-2-2-2-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80	
30-45	5872-110	3230-2-12-				0-M36802-10/06/75-9-	6	2.8-	-	5.3	225-				7-1-1-4-6-3-2-1-2-4-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	5914-110	3296-2-12-				0-M36803-10/06/75-10-	6	-	-	-	-				1-1-6-5-9-1-1-2-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.80	
30-45	5744-110	3257-2-12-				0-M36804-10/06/75-11-	3	3.0-	-	5.3	490-				7-1-7-4-6-2-2-2-2-1-2-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70	
30-45	5746-110	3279-2-12-				0-M36805-10/06/75-11-	3	3.0-	-	5.3	330-				2-1-7-4-6-3-2-1-2-1-2-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20	
30-45	6081-110	3183-2-12-				0-M36806-10/06/75-12-	5	5.8-	-	5.6	650-				5-1-7-4-6-2-2-2-2-4-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45	6107-110	2472-2-12-				0-M36807-10/06/75-12-	6	5.2-	-	5.3	550-				8-1-7-4-6-2-2-2-2-4-3-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
30-45	6142-110	2676-2-12-				0-M36808-10/06/75-13-	2	6.6-	-	5.3	500-				3-1-7-3-8-2-2-2-2-4-3-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
30-45	5773-110	2650-2-12-				0-M36809-10/06/75-14-	11	5.6-	-	5.6	390-				7-1-6-4-8-2-2-1-2-2-2-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
30-45	5698-110	2735-2-12-				0-M36810-10/06/75-14-	1	5.2-	-	5.3	395-				8-1-6-3-1-3-3-1-2-2-3-3-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
30-45	5385-110	3205-2-12-				0-M36811-10/06/75-15-	12	3.0-	-	5.3	135-				8-1-6-4-6-2-2-2-2-1-2-2-2-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	6112-110	2689-2-12-				0-M3681																												

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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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																										
30-45.5478-110.2133-2-12-	0-M36815-10/07/75-10-	8	5.0-C-	5.6-	470-	5-1-3-7-6-2-2-1-2-4-3-3-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60		
30-45.5197-110.2258-2-12-	0-M36816-10/07/75-10-	9-	-	-	-	9-1-1-7-6-2-2-1-2-3-3-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45.5555-110.1030-2-12-	0-M36817-10/07/75-11-	10-	5.8-	-	5.3-	9-1-1-6-6-2-2-1-2-3-4-2-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45.6143-110.1268-2-12-	0-M36818-10/07/75-11-	12-	6.2-	-	5.9-	4-3-1-4-6-3-2-2-1-2-2-3-1-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70	
30-45.5936-110.1076-2-12-	0-M36819-10/07/75-12-	13-	5.0-	-	5.6-	1-1-4-6-6-3-3-1-2-4-4-2-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45.6329-110.5557-2-12-	0-M36820-10/01/75-16-	10-	-	-	-	4-3-7-5-6-1-1-2-4-3-3-2-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45.6152-110.5639-2-12-	0-M36821-10/01/75-16-	21-12-	0-C-	5.1-	320-	4-1-1-2-1-2-2-1-2-3-1-3-1-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45.6640-110.5027-2-12-	0-M36822-10/01/75-17-	10-12-	0-C-	5.0-	500-	-1-1-3-6-3-2-1-2-4-3-3-2-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
30-45.6182-110.5201-2-12-	0-M36823-10/02/75-9-	10-	-	-	-	3-3-7-5-6-1-1-1-4-3-4-3-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45.6185-110.5220-2-12-	0-M36824-10/02/75-9-	10-	-	-	-	5-3-7-5-6-1-1-1-4-3-4-3-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45.6315-110.5121-2-12-	0-M36825-10/02/75-9-	11-	-	-	-	6-1-1-5-6-1-1-2-3-3-3-3-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20	
30-45.6893-110.5610-2-12-	0-M36826-10/02/75-10-	11-10-	5-C-	5.9-	650-	6-3-7-4-6-1-2-5-1-6-4-1-3-	5-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45.6881-110.5648-2-12-	0-M36827-10/02/75-10-	11-	-	-	-	0-3-7-6-7-1-1-2-3-3-2-3-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45.7078-110.5393-2-12-	0-M36828-10/02/75-10-	12-	0.5-C-	5.1-	40-	6-3-1-3-7-3-2-1-2-2-2-3-3-	3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
30-45.7256-110.5452-2-12-	0-M36829-10/02/75-11-	12-	0																															

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION				
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																										
30-45.8903-110.5344-2-12-						0-M36866-10/04/75-11-	15	0.8-C-	-	3.9-	370-			8-1-1-2-7-3-2-1-2-2-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45.8981-110.5257-2-12-						0-M36867-10/04/75-12-	15	10.0-	-	5.7-	210-			1-1-1-2-7-3-2-1-2-2-3-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45.8978-110.5131-2-12-						0-M36868-10/04/75-12-	15	0.5-	-	3.7-	200-			4-1-1-3-7-2-2-1-2-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
30-45.9406-110.5200-2-12-						0-M36869-10/04/75-12-	16	1.2-	-	5.5-	205-			4-1-1-2-1-4-2-1-2-2-3-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45.7446-110.7342-2-12-						0-M36870-10/07/75-10-	13	6.0-C-	-	6.1-	500-			3-1-1-5-6-3-2-3-2-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45.7349-110.2636-2-15-						0-M36871-10/07/75-10-	10-	-C-	-	-	-			3-1-1-5-6-1-1-2-4-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45.7590-110.2687-2-12-						0-M36872-10/07/75-10-	11-	5.0-C-	-	3.7-	450-			2-1-1-5-6-2-2-1-2-4-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45.8022-110.2335-2-12-						0-M36873-10/07/75-11-	10-	5.5-C-	-	3.9-	360-			3-1-6-5-6-3-2-1-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20	
30-45.7989-110.2638-2-12-						0-M36874-10/07/75-11-	12-	6.5-	-	3.9-	500-			8-1-1-6-6-2-2-1-2-6-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45.7932-110.2628-2-12-						0-M36875-10/07/75-12-	13-	6.0-C-	-	3.9-	340-			0-1-1-2-1-3-2-1-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
30-45.7610-110.2654-2-12-						0-M36876-10/07/75-12-	15-	9.5-C-	-	5.1-	750-			4-1-1-5-6-3-2-1-2-4-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80	
30-45.7698-110.1807-2-12-						0-M36877-10/07/75-12-	14-	7.0-	-	3.9-	430-			3-1-1-2-6-3-2-1-2-2-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20	
30-45.7360-110.2153-2-12-						0-M36878-10/07/75-13-	17-	12.0-C-	-	3.7-	350-			4-1-7-2-7-3-2-1-2-3-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
30-45.6926-110.2127-2-12-						0-M36879-10/07/75-13-	14-	6.5-	-	3.7-	310-			1-1-6-3-7-2-2-1-2-3-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45.7032-110.1943-2-12-						0-M36880-10/07/75-14-	17-	7.5-C-	-	3.7-	310-			3-1-3-2-3-2-2-1-2-3-3-4-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
30-45.7074-110.1942-2-12-						0-M36881-10/07/75-14-	14-	7.5-C-	-	3.7-	330-			5-1-3-3-6-3-2-1-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
30-45.7150-110.1889-2-15-						0-M36882-10/07/75-14-	16-	-C-	-	-	-			2-1-7-3-7-1-1-2-4-2-6-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45.7087-110.1920-2-12-						0-M36883-10/07/75-14-	14-	9.5-C-	-	3.7-	390-			0-1-7-2-7-2-2-1-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20	
30-45.6946-110.1775-2-12-						0-M36884-10/07/75-15-	16-	9.5-C-	-	3.7-	300-			3-1-1-2-3-2-2-1-2-2-2-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45.7243-110.1999-2-12-						0-M36885-10/07/75-15-	20-	11.0-C-	-	3.7-	650-			2-1-1-2-3-2-2-1-2-3-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90	
30-45.7251-110.1540-2-15-						0-M36886-10/07/75-15-	10-	-C-	-	-	-			4-1-1-1-3-1-1-1-2-3-2-4-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80	
30-45.7252-110.1561-2-12-						0-M36887-10/07/75-16-	18-	9.5-	-	3.7-	270-			4-1-1-2-6-2-2-1-2-3-2-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80	
30-45.7543-110.1330-2-15-						0-M36888-10/07/75-16-	16-	-C-	-	-	-			0-1-1-2-7-1-1-1-2-3-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.30	
30-45.7475-110.1340-2-12-						0-M36889-10/07/75-16-	19-	11.0-C-	-	3.7-	270-			1-1-7-3-6-2-2-1-2-3-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70	
30-45.7700-110.0819-2-12-						0-M36890-10/07/75-16-	17-	10.0-	-	3.9-	360-			4-1-7-5-6-4-2-1-2-4-3-4-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45.7681-110.0642-2-15-						0-M36891-10/07/75-17-	17-	-C-	-	-	-			5-1-1-5-7-1-1-2-2-2-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60	
30-45.7750-110.0642-2-12-						0-M36892-10/07/75-17-	16-	10.0-C-	-	3.7-	270-			2-1-1-3-6-7-2-1-2-2-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60	
30-45.8978-110.4081-2-12-						0-M36893-10/08/75-9-	6-	6.0-C-	-	3.7-	190-			4-1-1-2-7-4-2-1-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45.9022-110.4925-2-12-						0-M36894-10/08/75-9-	6-	5.0-C-	-	3.7-	450-			2-1-1-5-6-3-2-3-2-2-3-4-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45.8875-110.4872-2-12-						0-M36895-10/08/75-10-	10-	6.0-C-	-	3.7-	390-			9-1-1-5-6-7-2-1-2-4-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20	
30-45.8772-110.4757-2-12-						0-M36896-10/08/75-10-	13-	5.5-	-	3.7-	280-			9-1-1-5-6-3-2-1-2-4-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90	
30-45.8786-110.4303-2-12-						0-M36897-10/08/75-10-	8-	6.0-C-	-	3.9-	375-			2-1-1-3-6-3-2-1-2-4-3-4-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45.8992-110.4311-2-12-						0-M36898-10/08/75-11-	3-	4.0-C-	-	3.7-	350-			3-1-1-2-6-3-2-1-2-1-2-4-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45.9042-110.4317-2-12-						0-M36899-10/08/75-11-	4-	6.0-C-	-	3.5-	140-			5-1-1-2-1-4-2-1-2-1-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45.9147-110.4239-2-12-						0-M36900-10/08/75-11-	8-	6.0-C-	-	3.7-	240-			3-1-1-2-1-4-2-1-2-3-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45.9200-110.4325-2-12-						0-M36901-10/08/75-11-	16-	6.0-C-	-	3.1-	500-			0-1-1-5-6-3-2-1-2-4-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45.9233-110.4362-2-12-						0-M36902-10/08/75-12-	15-	5.0-C-	-	3.9-	480-			3-1-1-5-6-7-2-1-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45.9508-110.4588-2-12-						0-M36903-10/08/75-12-	18-	6.5-	-	3.5-	140-			4-1-1-2-6-3-2-1-2-2-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45.9528-110.4744-2-12-						0-M36904-10/08/75-12-	21-	12.0-C-	-	3.7-	280-			3-1-1-2-1-2-2-1-2-4-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
30-45.9544-110.4659-2-12-						0-M36905-10/08/75-13-	10-	9.5-C-	-	3.7-	240-			6-1-1-5-6-3-2-1-1-6-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45.9992-110.4222-2-12-						0-M36906-10/08/75-13-	25-	11.0-	-	3.5-	70-			5-3-7-2-7-3-2-1-2-1-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45.9967-110.4233-2-12-						0-M36907-10/08/75-13-	24-	9.0-	-	3.5-	75-			5-3-7-2-7-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45.9011-110.3736-2-15-						0-M36908-10/08/75-14-	22-	-C-	-	-	-			4-3-7-2-1-1-1-2-4-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45.7711-110.4794-2-12-						0-M36909-10/08/75-15-	20-	11.0-C-	-	3.9-	550-			1-1-1-3-7-2-2-1-2-4-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20	
30-45.8006-110.4806-2-12-						0-M36910-10/08/75-16-	21-	0.0-	-	3.9-	500-			4-1-1-3-1-3-2-1-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90	
30-45.8203-110.4932-2-12-						0-M36911-10/08/75-16-	17-	11.0-C-	-	3.9-	600-			5-1-1-5-6-7-2-2-2-2-2-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
30-45.8192-110.4733-2-15-						0-M36912-10/08/75-17-	10-	-C-	-	-	-			1-1-1-5-6-1-1-2-4-4-4-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80	
30-45.7578-110.4533-2-12-						0-M36913-10/08/75-9-	11-	7.0-C-	-	3.9-	440-			4-1-1-5-6-7-2-1-2-2-2-3-1-</																				

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

DOE SAMPLE NUMBER					LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION					
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLUMETER (eU, ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																										
30-45	8292-110	4489-2-15	0-M36917	10/09/75-11	12	-	C-									4-1-1-5-6-	-1-	-2-3-2-3-1-	-3-														2.10	
30-45	8325-110	4725-2-12	0-M36918	10/09/75-12	18	0.0-C-			5.9	450						7-1-1-5-6-2-2-	1-2-2-3-2-2-1-	-3-															2.10	
30-45	9825-110	5183-2-12	0-M36919	10/04/75-13	17	12.2-C-			5.7	335						2-1-1-3-6-3-2-	2-2-2-3-2-2-	-3-															3.70	
30-45	9861-110	5119-2-12	0-M36920	10/04/75-13	15	0.9-C-			5.7	310						7-1-1-3-7-3-2-	1-2-2-3-3-2-	-3-															2.50	
30-45	9850-110	5114-2-12	0-M36921	10/04/75-13	17	10.2-C-			5.8	500						4-1-1-3-7-3-2-	1-2-2-3-3-2-	-3-															2.20	
30-45	9956-110	5144-2-12	0-M36922	10/04/75-14	17	10.0-C-			5.9	345						5-1-1-2-7-3-2-	2-2-4-3-3-2-	-3-															2.60	
30-45	9956-110	5372-2-12	0-M36923	10/04/75-14	18	0.9-C-			5.7	340						5-1-1-2-7-2-	2-1-2-3-2-2-	-3-															2.70	
30-45	9833-110	6139-2-12	0-M36924	10/04/75-15	10	0.8-			5.7	440						8-1-6-2-7-3-2-	2-2-2-2-2-2-	-3-															2.40	
30-45	9889-110	6178-2-15	0-M36925	10/04/75-15	10	-C-										5-1-6-	-1-	-2-6-3-2-2-	-3-														2.30	
30-45	9689-110	6514-2-12	0-M36926	10/04/75-15	10	12.5-			5.7	420						2-1-1-3-6-3-2-	1-2-2-3-3-2-	-3-															2.40	
30-45	9497-110	6025-2-15	0-M36927	10/04/75-16	10	-C-										0-1-1-5-6-	-1-	-2-6-3-4-2-	-3-														3.00	
30-45	9641-110	6455-2-12	0-M36928	10/04/75-16	20	0.8-			5.9	520						4-1-1-5-7-3-2-	2-2-2-4-3-3-2-	-3-															2.30	
30-45	9622-110	6460-2-12	0-M36929	10/04/75-16	10	0.8-			5.9	610						3-1-1-5-6-2-2-	5-2-6-3-3-2-	-3-															2.10	
30-45	9310-110	6462-2-12	0-M36930	10/04/75-17	20	10.6-			5.7	700						4-1-1-5-6-2-2-	1-2-6-3-1-2-	-3-															1.80	
30-45	9338-110	6254-2-12	0-M36931	10/04/75-17	20	11.0-			5.9	850						1-1-1-6-6-1-2-	1-2-4-3-4-2-	-3-															2.70	
30-45	9381-110	5394-2-12	0-M36932	10/05/75-10	8	2.5-			5.7	450						7-1-1-5-6-3-2-	1-2-4-3-3-3-	-3-															2.20	
30-45	9461-110	5636-2-12	0-M36933	10/05/75-10	6	2.5-			5.7	360						1-1-1-3-6-3-2-	1-2-2-3-3-3-	-3-															2.40	
30-45	9826-110	7298-2-15	0-M36934	10/05/75-11	9	-C-										6-1-1-5-7-	-1-	-2-4-3-1-3-	-3-														1.80	
30-45	9919-110	7181-2-12	0-M36935	10/05/75-11	9	4.5-C-			5.9	500						3-1-1-2-1-4-2-	1-2-2-2-3-3-	-3-															1.90	
30-45	9163-110	7126-2-12	0-M36936	10/05/75-11	11	2.0-			5.7	650						4-1-1-5-6-3-2-	1-2-4-3-2-3-	-3-															2.10	
30-45	9101-110	6497-2-12	0-M36937	10/05/75-12	9	4.0-C-			5.9	1200						4-1-1-5-6-2-2-	1-2-3-4-2-3-	-3-															2.60	
30-45	9077-110	6292-2-12	0-M36938	10/05/75-12	8	0.0-C-			6.1	1050						-1-1-5-6-2-1-	2-2-3-3-3-3-	-3-															2.20	
30-45	8733-110	7244-2-12	0-M36939	10/05/75-13	7	7.0-C-			5.7	500						1-1-1-2-7-2-2-	1-2-2-2-3-4-	-3-															3.80	
30-45	8833-110	7259-2-12	0-M36940	10/05/75-13	5	5.0-C-			5.7	360						6-1-1-2-7-3-2-	1-2-4-3-3-4-	-3-															2.50	
30-45	8817-110	7149-2-12	0-M36941	10/05/75-13	5	5.5-C-			5.7	750						1-1-1-3-7-2-2-	1-2-3-4-4-4-	-3-															2.40	
30-45	8425-110	7458-2-12	0-M36942	10/05/75-14	6	5.5-C-			5.9	300						4-1-1-2-7-2-2-	1-2-2-2-4-4-	-3-															4.00	
30-45	8414-110	7392-2-12	0-M36943	10/05/75-14	6	4.5-C-			5.7	30						5-1-1-2-7-2-2-	1-2-2-3-3-4-	-3-															2.20	
30-45	8736-110	7108-2-15	0-M36944	10/05/75-14	7	-C-										5-1-6-5-6-	-1-	-2-4-3-4-4-	-3-														1.90	
30-45	8700-110	6081-2-12	0-M36945	10/05/75-14	6	7.0-			5.9	340						4-1-6-2-6-3-2-	1-2-2-4-3-4-	-3-															2.00	
30-45	8658-110	6491-2-12	0-M36946	10/05/75-15	8	6.0-C-			5.9	370						3-1-6-5-6-2-2-	1-2-4-3-3-4-	-3-															2.00	
30-45	8653-110	6728-2-12	0-M36947	10/05/75-15	8	6.5-C-			5.9	350						3-1-6-5-6-2-2-	1-2-4-3-3-4-	-3-															1.90	
30-45	8650-110	6458-2-12	0-M36948	10/05/75-15	8	5.5-C-			5.9	310						4-3-7-2-7-3-2-	1-2-2-3-3-4-	-3-															2.20	
30-45	8350-110	6519-2-12	0-M36949	10/05/75-16	8	5.0-C-			5.7	310						5-3-7-5-8-2-2-	1-2-2-3-3-4-	-3-															2.10	
30-45	8303-110	6394-2-12	0-M36950	10/05/75-14	7	5.0-C-			5.7	340						5-3-7-2-7-2-2-	1-2-3-3-4-4-	-3-															2.80	
30-45	8136-110	6539-2-12	0-M36951	10/05/75-16	9	5.5-C-			5.7	340						6-1-6-2-7-3-2-	1-2-2-3-3-4-	-3-															2.10	
30-45	8131-110	6314-2-15	0-M36952	10/05/75-17	0	-C-										4-1-6-5-7-	-1-	-2-3-2-3-4-	-3-														2.80	
30-45	9131-110	0106-2-12	0-M36953	10/06/75-11	14	7.5-C-			5.9	500						3-1-1-2-7-2-2-	1-2-4-3-4-2-	-3-															2.50	
30-45	8956-110	0234-2-12	0-M36954	10/06/75-11	13	8.0-C-			5.9	350						6-1-1-2-1-3-2-	1-2-2-2-3-2-	-3-															5.90	
30-45	8797-110	0047-2-12	0-M36955	10/06/75-11	12	8.5-C-			5.9	650						3-1-1-5-6-2-2-	1-2-4-3-3-2-	-3-															2.60	
30-45	8828-110	0286-2-12	0-M36956	10/06/75-12	12	8.5-C-			5.9	700						4-1-1-5-7-1-2-	1-1-6-3-2-2-	-3-															2.40	
30-45	8819-110	0408-2-12	0-M36957	10/06/75-12	13	7.5-C-			5.9	500						4-1-1-2-1-3-2-	1-2-4-3-3-2-	-3-															2.30	
30-45	9233-110	0494-2-15	0-M36958	10/06/75-13	13	-C-										4-1-1-5-7-	-1-	-2-4-2-2-2-	-3-														2.40	
30-45	9361-110	0050-2-12	0-M36959	10/06/75-13	13	0.0-C-			5.9	500						3-1-1-5-6-2-2-	1-2-4-3-4-2-	-3-		</														

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

[illegible]

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DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																				U CONCENTRATION										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL 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	REFUG	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm		
							DATE	HOUR																												
30-45	7808	-110.4247	-2-12			0-M37020	-10/09/75	-12	10	0.0-C			5.7	380	3-1-1	-3-6-3-2-1	-2-2-3-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40			
30-45	8083	-110.4250	-2-12			0-M37021	-10/09/75	-13	10	0.0-C			5.9	380	1-1-1	-5-6-2-2-1	-2-2-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40		
30-45	8100	-110.4631	-2-12			0-M37022	-10/09/75	-13	21	0.0-C			5.9	360	6-1-1	-5-6-2-2-1	-2-3-3-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40		
30-45	8092	-110.4628	-2-12			0-M37023	-10/09/75	-13	20	0.0-C			5.9	360	5-1-1	-5-6-2-2-1	-2-3-3-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80		
30-45	7931	-110.3725	-2-12			0-M37024	-10/09/75	-14	10	0.0-C			5.7	360	1-1-1	-5-6-2-2-1	-2-3-3-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00		
30-45	8069	-110.3683	-2-12			0-M37025	-10/09/75	-15	21	0.0-C			5.7	370	1-1-1	-5-6-2-2-1	-2-2-2-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20		
30-45	8128	-110.3696	-2-12			0-M37026	-10/09/75	-15	21	0.0-C			5.9	360	3-1-1	-5-6-2-2-1	-2-2-2-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30		
30-45	8097	-110.3722	-2-12			0-M37027	-10/09/75	-16	20	0.0-C			5.9	380	5-1-1	-5-6-2-2-1	-2-2-3-3-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.70		
30-45	7869	-110.6354	-2-15			0-M37028	-10/10/75	-8	11	-	-	-	-	-	1-1-1	-5-7	-1	-2-4-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45	7769	-110.6411	-2-12			0-M37029	-10/10/75	-8	11	6.5-C			5.9	340	1-1-1	-5-6-2-2-1	-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.00	
30-45	7625	-110.6744	-2-12			0-M37030	-10/10/75	-8	10	7.5-C			5.7	500	1-1-1	-5-6-2-2-1	-2-4-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45	7761	-110.7617	-2-12			0-M37031	-10/10/75	-9	10	7.5-C			5.7	450	1-1-1	-5-6-2-2-1	-2-4-3-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45	7858	-110.7639	-2-15			0-M37032	-10/10/75	-9	12	-	-	-	-	-	1-1-1	-5-7	-1	-2-4-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
30-45	7153	-110.6033	-2-12			0-M37033	-10/10/75	-9	10	6.0-C			5.7	900	1-1-1	-5-6-2-2-1	-2-3-4-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	7131	-110.6972	-2-12			0-M37034	-10/10/75	-9	11	6.5-C			5.7	390	1-1-1	-3-6-2-2-1	-2-3-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	6480	-110.7171	-2-12			0-M37035	-10/10/75	-10	10	6.0-C			5.9	360	1-1-1	-5-6-2-2-1	-2-3-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60	
30-45	7159	-110.6578	-2-11			0-M37036	-10/10/75	-10	11	6.5-C			5.1	450	1-1-1	-5-6-2-2-1	-2-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20	
30-45	7092	-110.6609	-2-11			0-M37037	-10/10/75	-10	11	6.0-C			5.1	550	1-1-1	-5-6-2-2-1	-3-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.40	
30-45	6571	-110.6253	-2-12			0-M37038	-10/10/75	-11	11	7.0-C			5.9	340	1-1-1	-3-6-3-2-1	-2-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70	
30-45	7611	-110.8606	-2-12			0-M37039	-10/10/75	-11	6	6.0-C			5.9	345	1-1-1	-2-7-3-2-1	-2-2-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	7708	-110.8196	-2-12			0-M37040	-10/10/75	-11	1	1.5-C			5.7	290	1-1-1	-2-7-3-2-1	-2-1-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	7592	-110.8659	-2-12			0-M37041	-10/10/75	-11	2	1.5-C			5.7	300	1-1-1	-2-7-3-2-1	-2-2-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	7667	-110.8786	-2-12			0-M37042	-10/10/75	-12	2	3.5-C			5.9	320	1-1-1	-2-7-3-2-1	-2-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	7758	-110.8736	-2-12			0-M37043	-10/10/75	-12	1	1.5-C			5.7	295	1-1-1	-2-7-3-2-1	-2-3-3-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20	
30-45	7875	-110.8847	-2-12			0-M37044	-10/10/75	-12	0	0.0-C			5.7	300	1-1-1	-2-7-3-2-1	-2-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	7958	-110.8778	-2-15			0-M37045	-10/10/75	-12	7	-	-	-	-	-	1-1-1	-5-6	-1	-2-4-3-4-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
30-45	8194	-110.8039	-2-12			0-M37046	-10/10/75	-13	6	2.5-C			5.7	325	1-1-1	-2-7-4-2-1	-2-2-3-3-2	-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.10
30-45	8208	-110.8647	-2-12			0-M37047	-10/10/75	-13	6	6.0-C			5.7	300	1-1-1	-2-7-3-2-1	-2-2-3-3-2	-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
30-45	8517	-110.8833	-2-12			0-M37048	-10/10/75	-13	8	2.5-C			5.7	320	1-1-1	-2-7-2-2-1	-2-2-3-2-1	-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
30-45	8597	-110.9003	-2-12			0-M37049	-10/10/75	-13	0	2.5			5.7	290	1-1-1	-2-7-3-2-1	-2-1-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
30-45	8708	-110.9697	-2-12			0-M37050	-10/10/75	-13	7	4.0			5.9	340	1-1-1	-2-7-2-2-1	-2-1-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
30-45	8722	-110.9833	-2-12			0-M37051	-10/10/75	-13	8	2.0			5.9	325	1-1-1	-3-7-2-2-1	-2-1-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
30-45	8619	-110.8722	-2-12			0-M37052	-10/10/75	-14	7	2.5			5.9	320	1-1-1	-2-7-3-2-1	-2-1-2-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
30-45	8647	-110.8208	-2-12			0-M37053	-10/10/75	-14	8	2.5			5.7	310	1-1-1	-3-7-2-2-1	-2-1-2-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
30-45	8628	-110.8108	-2-12			0-M37054	-10/10/75	-14	8	4.0			5.7	290	1-1-1	-3-7-3-2-1	-2-2-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10
30-45	8389	-110.8233	-2-12			0-M37055	-10/10/75	-15	8	4.0			5.9	300	1-1-1	-3-7-2-2-1	-2-3-3-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
30-45	8389	-110.8000	-2-12			0-M37056	-10/10/75	-15	0	4.5			5.9	330	1-1-1	-2-7-2-2-1	-2-3-3-4-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
30-45	8306	-110.8753	-2-12			0-M37057	-10/10/75	-15	8	4.0			5.9	340	1-1-1	-2-7-2-2-1	-2-1-2-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
30-45	8808	-110.7289	-2-12			0-M37058	-10/10/75	-16	0	4.0			5.9	320	1-1-1	-2-7-2-2-1	-2-3-3-3-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
30-45	8908	-110.7958	-2-12			0-M37059	-10/10/75	-16	0	2.5			5.9	310	1-1-1	-2-7-3-2-1	-2-1-3-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
30-45	8744	-110.7722	-2-12			0-M37060	-10/10/75	-16	8	4.0			5.9	310	1-1-1	-3-7-2-2-1	-2-1-3-2-1	-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10
30-45	8472	-110.8475	-2-12			0-M37061	-10/10/75	-17	-	-			5.7	370	1-1-1	-3-7-2-2-1	-2-2-3-2-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
30-45	8944	-110.8731	-2-12			0-M37062	-10/10/75	-17	-2	-			5.5	290	1-1-1	-3-7-3-2-1	-2-2-3-3-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
30-45	9175	-110.8629	-2-12			0-M37063	-10/10/75	-17	-2	-	-	-	5.7	600	1-1-1	-5-6-1-2-2	-2-3-2-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.60
30-45	9256	-110.8417	-2-12			0-M37064	-10/11/75	-8	-2	0.2-C			5.7	340	1-1-1	-5-6-2-2-1	-2-2-2-2-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00
30-45	9281	-110.8933	-2-12			0-M37065	-10/11/75	-8	-2	0.1-C			5.7	350	1-1-1	-5-6-3-2-1	-2-4-3-2-2	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
30-45	9453	-110.8830	-2-12			0-M37066	-10																													

[illegible]

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																							U CONCENTRATION						
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL 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	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC)	UNITS IN ppm
							DATE	HOUR																											
30-45	7888-110	1444-2-12	0-M37122	10/12/75-17	11-10.0	-	-	-	5.9	750	-	-	-	-	7-1-4-5-8-2-2-2-2-4-3-2-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	8394-110	1053-2-12	0-M37123	10/12/75-10	10-6.0	-	-	-	5.3	360	-	-	-	-	7-1-4-5-8-2-2-2-2-3-2-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00
30-45	8477-110	1298-2-12	0-M37124	10/12/75-11	11-7.8	-	-	-	5.3	300	-	-	-	-	8-1-4-5-6-2-2-2-2-3-2-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
30-45	8587-110	1437-2-12	0-M37125	10/12/75-11	11-6.8	-	-	-	5.3	430	-	-	-	-	2-1-4-5-8-2-2-1-2-2-3-3-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
30-45	8914-110	1494-2-12	0-M37126	10/12/75-12	12-10.0	-	-	-	6.3	470	-	-	-	-	8-1-4-5-8-2-2-1-2-3-2-3-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
30-45	9025-110	1417-2-12	0-M37127	10/12/75-12	12-7.0	-	-	-	5.9	550	-	-	-	-	2-1-4-5-2-2-2-1-2-2-3-3-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
30-45	8640-110	1448-2-15	0-M37128	10/12/75-13	13-1.0	-	-	-	-	-	-	-	-	-	6-1-7-5-6-1-1-3-2-3-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
30-45	8508-110	1020-2-12	0-M37129	10/12/75-14	13-8.2	-	-	-	5.6	470	-	-	-	-	6-1-4-5-8-2-2-2-2-2-3-3-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
30-45	8488-110	2057-2-12	0-M37130	10/12/75-14	13-8.6	-	-	-	5.6	260	-	-	-	-	6-1-4-6-6-2-3-1-2-2-3-3-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
30-45	8269-110	1958-2-12	0-M37131	10/12/75-16	14-8.6	-	-	-	5.3	310	-	-	-	-	7-1-4-6-6-3-2-1-2-2-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40
30-45	8270-110	1037-2-12	0-M37132	10/12/75-14	14-10.0	-	-	-	5.6	320	-	-	-	-	7-1-4-6-8-2-2-2-2-2-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
30-45	8238-110	2053-2-15	0-M37133	10/12/75-17	14-1.0	-	-	-	-	-	-	-	-	-	6-1-4-6-6-1-1-4-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
30-45	8166-110	2016-2-15	0-M37134	10/12/75-17	14-1.0	-	-	-	-	-	-	-	-	-	7-1-4-6-6-1-1-2-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
30-45	8092-110	2090-2-15	0-M37135	10/12/75-17	13-1.0	-	-	-	-	-	-	-	-	-	5-1-4-6-1-1-1-2-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
30-45	7813-110	2279-2-15	0-M37136	10/12/75-18	11-1.0	-	-	-	-	-	-	-	-	-	6-1-4-6-6-1-1-3-2-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
30-45	7592-110	2692-2-12	0-M37137	10/11/75-12	10-4.2	-	-	-	5.6	800	-	-	-	-	1-4-5-8-2-2-2-2-2-3-2-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
30-45	7528-110	2761-2-12	0-M37138	10/11/75-12	10-6.0	-	-	-	5.6	600	-	-	-	-	1-4-5-8-2-2-1-2-2-2-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
30-45	7825-110	2075-2-12	0-M37139	10/11/75-12	11-4.6	-	-	-	5.3	320	-	-	-	-	1-4-6-6-2-2-1-2-2-3-2-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
30-45	8061-110	2756-2-12	0-M37140	10/11/75-13	10-5.0	-	-	-	5.6	300	-	-	-	-	1-4-5-8-3-3-1-2-3-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
30-45	8295-110	2471-2-12	0-M37141	10/11/75-13	11-4.8	-	-	-	5.6	500	-	-	-	-	1-4-6-6-2-2-1-2-2-2-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
30-45	8283-110	2783-2-12	0-M37142	10/11/75-13	12-6.0	-	-	-	5.6	450	-	-	-	-	1-4-5-6-1-2-2-2-3-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
30-45	8328-110	2000-2-12	0-M37143	10/11/75-13	13-4.2	-	-	-	5.3	280	-	-	-	-	1-4-3-6-3-3-1-2-2-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
30-45	8311-110	2011-2-12	0-M37144	10/11/75-13	11-6.0	-	-	-	5.6	500	-	-	-	-	1-4-4-6-3-3-1-2-2-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
30-45	8272-110	2042-2-12	0-M37145	10/11/75-14	13-10.0	-	-	-	5.3	500	-	-	-	-	1-4-4-6-2-2-1-2-4-2-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
30-45	8467-110	3203-2-12	0-M37146	10/11/75-14	11-8.0	-	-	-	5.6	275	-	-	-	-	1-4-4-6-3-3-1-2-4-2-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
30-45	8456-110	3208-2-12	0-M37147	10/11/75-14	10-8.6	-	-	-	5.3	320	-	-	-	-	1-4-4-6-3-3-1-2-3-2-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
30-45	8325-110	3214-2-15	0-M37148	10/11/75-15	10-1.0	-	-	-	-	-	-	-	-	-	1-4-4-6-1-1-1-4-2-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
30-45	8286-110	2606-2-15	0-M37149	10/11/75-15	10-1.0	-	-	-	-	-	-	-	-	-	1-4-4-6-1-1-1-3-2-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
30-45	8522-110	2628-2-12	0-M37150	10/11/75-15	10-5.4	-	-	-	5.6	450	-	-	-	-	1-4-5-6-3-2-2-1-2-2-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
30-45	8514-110	2559-2-12	0-M37151	10/11/75-16	10-6.0	-	-	-	5.3	380	-	-	-	-	1-4-4-6-3-2-1-2-2-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40
30-45	8739-110	2736-2-12	0-M37152	10/11/75-16	10-5.8	-	-	-	5.3	360	-	-	-	-	1-4-4-6-2-2-1-2-2-2-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
30-45	8675-110	3047-2-12	0-M37153	10/11/75-16	9-6.4	-	-	-	5.3	410	-	-	-	-	1-4-4-8-3-2-1-2-2-3-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
30-45	8800-110	3219-2-12	0-M37154	10/11/75-16	5-1.0	-	-	-	5.3	200	-	-	-	-	1-4-4-6-3-3-1-2-2-2-3-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50
30-45	8881-110	3483-2-12	0-M37155	10/11/75-15	5-4.0	-	-	-	5.3	345	-	-	-	-	1-4-4-6-2-2-1-1-2-4-2-3-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
30-45	8950-110	3603-2-12	0-M37156	10/11/75-17	5-2.0	-	-	-	5.3	290	-	-	-	-	1-4-4-7-2-2-1-2-1-3-3-2-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
30-45	8928-110	3219-2-12	0-M37157	10/11/75-17	6-6.0	-	-	-	5.3	250	-	-	-	-	1-4-4-6-3-2-1-2-4-3-4-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
30-45	9169-110	3175-2-12	0-M37158	10/11/75-18	8-3.0	-	-	-	-	220	-	-	-	-	1-4-4-6-6-3-2-2-1-3-4-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70
30-45	8781-110	2744-2-12	0-M37159	10/11/75-18	10-2.4	-	-	-	5.3	280	-	-	-	-	1-4-4-6-2-2-1-2-4-3-4-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
30-45	8800-110	2800-2-12	0-M37160	10/11/75-18	9-2.0	-	-	-	5.6	300	-	-	-	-	1-4-3-6-2-2-1-2-2-2-4-1-3-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

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

[illegible]

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

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																							U CONCENTRATION						
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (c.u. ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC)	UNITS IN ppm
							DATE	HOUR																											
30-45.2245-110.0228-2-12-	0-437275-10/30/75-13-	2	1.0	-	5.7	210	-1-6-2-6-3-3-1	2-2-3-4-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10		
30-45.2289-110.0707-2-12-	0-437276-10/30/75-16-	-	1.0	-	5.7	210	-1-6-1-6-4-3-1	2-1-4-5-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10	
30-45.2279-110.0694-2-12-	0-437277-10/30/75-16-	-	1.0	-	5.7	210	-1-6-1-6-4-3-1	2-1-4-5-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20	
30-45.0448-110.8805-2-12-	0-437278-10/31/75-10-	-	1.0	-	5.5	90	-2-6-1-6-3-3-1	2-1-3-4-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
30-45.1623-110.7217-2-12-	0-437279-11/02/75-8-	1	1.0	-	5.7	90	-2-6-1-6-3-3-1	2-1-4-3-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60	
30-45.0115-110.5500-2-12-	0-437280-11/02/75-13-	2	1.0	-	5.7	90	-3-6-1-6-3-3-1	2-1-4-3-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.60	
30-45.0038-110.5106-2-12-	0-437281-11/02/75-15-	1	1.0	-	5.5	90	-3-6-2-6-3-3-1	2-2-4-4-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60	
30-45.0035-110.5094-2-12-	0-437282-11/02/75-15-	1	1.0	-	5.5	90	-3-6-2-6-3-3-1	2-2-4-4-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.50	
30-45.0168-110.6020-2-12-	0-437283-11/02/75-12-	4	1.0	-	5.7	210	-3-6-1-6-3-3-1	2-4-4-3-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50	
30-45.0161-110.5737-2-12-	0-437284-11/02/75-13-	4	1.0	-	5.7	210	-3-6-1-6-3-3-1	2-1-4-3-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
30-45.3771-110.5801-2-12-	0-437285-10/30/75-11-	2	1.0	-	5.7	150	-2-6-1-6-3-3-1	2-1-3-3-2	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
30-45.0381-110.7064-2-12-	0-437286-10/31/75-11-	2	1.0	-	5.5	90	-2-6-2-6-3-3-1	2-3-2-4-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.40	
30-45.0521-110.7000-2-12-	0-437287-10/31/75-10-	1	1.0	-	5.5	90	-2-6-2-6-3-3-1	2-1-3-4-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
30-45.3756-110.5730-2-12-	0-437288-10/30/75-11-	1	1.0	-	5.7	150	-2-6-2-6-3-3-1	2-1-4-4-2	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00	
30-45.3842-110.8794-2-12-	0-437289-10/30/75-15-	1	1.0	-	5.5	90	-2-6-1-6-3-3-1	2-1-4-4-2	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30	
30-45.3854-110.8806-2-12-	0-437290-10/30/75-15-	1	1.0	-	5.5	90	-2-6-1-6-3-3-1	2-3-4-4-2	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45.0377-110.7032-2-12-	0-437291-10/31/75-12-	3	1.0	-	5.5	90	-2-6-1-6-3-3-1	2-3-2-4-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.50	
30-45.9809-111.6382-2-15-	0-437292-10/16/75-12-	2	-	C-	-	-	-1-4-1-	-1-	-2-3-2-3-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
30-45.9805-111.6296-2-15-	0-437293-10/16/75-12-	3	-	C-	-	-	-1-4-1-	-1-	-2-3-2-3-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
30-45.9493-111.5937-2-15-	0-437294-10/16/75-12-	5	-	C-	-	-	-1-4-1-	-1-	-2-3-2-3-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
30-45.9420-111.5884-2-15-	0-437295-10/16/75-13-	3	-	C-	-	-	-1-4-1-	-1-	-2-3-2-4-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10
30-45.9294-111.5644-2-15-	0-437296-10/16/75-13-	2	-	C-	-	-	-1-4-1-	-1-	-2-3-2-4-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
30-45.9469-111.5355-2-15-	0-437297-10/16/75-13-	4	-	C-	-	-	-1-4-1-	-1-	-2-3-2-4-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
30-45.9790-111.5151-2-15-	0-437298-10/16/75-13-	2	-	C-	-	-	-1-3-1-	-1-	-2-3-2-4-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
30-45.9418-111.5061-2-15-	0-437299-10/16/75-14-	4	-	C-	-	-	-1-4-1-	-1-	-2-3-2-2-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
30-45.9447-111.5072-2-15-	0-437300-10/16/75-14-	5	-	C-	-	-	-1-5-6-	-1-	-2-2-2-2-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
30-45.0579-111.2754-2-12-	0-437301-10/16/75-14-	-	1.0	-	5.5	470	-3-7-2-7-3-2-1	2-2-3-3-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.30
30-45.0547-111.2727-2-15-	0-437302-10/16/75-15-	-	-	C-	-	-	-3-7-5-6-	-1-	-2-2-4-2-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
30-45.0506-111.2765-2-15-	0-437303-10/16/75-15-	2	-	C-	-	-	-3-7-5-6-	-1-	-2-2-3-2-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
30-45.0806-111.3739-2-12-	0-437304-10/16/75-15-	10	4.0	C-	-	5.7	500	-1-6-5-6-2-2-2	2-4-3-2-1	-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
30-45.0793-111.3732-2-12-	0-437305-10/16/75-16-	10	4.2	-	5.7	500	-1-6-3-3-3-2-1	2-4-3-2-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.60
30-45.0757-111.3390-2-12-	0-437306-10/16/75-16-	9	4.0	-	5.7	500	-1-7-2-7-3-2-1	2-2-3-4-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.50
30-45.0727-111.3395-2-12-	0-437307-10/16/75-16-	8	3.6	-	5.5	290	-1-1-2-1-4-2-3	2-2-3-2-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.50
30-45.0690-111.3155-2-12-	0-437308-10/16/75-17-	5	3.0	-	5.7	350	-1-1-3-6-3-2-1	2-4-3-2-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
30-45.0628-111.2662-2-12-	0-437309-10/16/75-17-	11	4.0	-	5.6	340	-1-4-2-7-3-2-1	2-4-3-3-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.10
30-45.0614-111.2688-2-12-	0-437310-10/16/75-17-	10	4.0	C-	-	5.7	330	-1-6-5-6-2-2-1	2-2-2-2-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
30-45.2524-111.2637-2-12-	0-437311-10/16/75-18-	9	-	C-	-	5.7	340	-1-7-2-6-3-2-1	2-3-3-3-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00
30-45.2670-111.2725-2-12-	0-437312-10/16/75-18-	11	-	C-	-	5.5	290	-1-7-2-7-3-2-1	2-1-2-3-1	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.40
30-45.2686-111.3031-2-12-	0-437313-10/17/75-8-	17	-	C-	-	5.7	250	-1-7-2-1-3-2-1	2-2-2-3-1	-8-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.60
30-45.2437-111.3258-2-12-	0-437314-10/17/75-8-	12	4.2	-	5.7	260	-1-1-2-1-2-2-1	2-1-2-3-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.30
30-45.2393-111.3409-2-12-	0-437315-10/17/75-8-	12	4.2	C-	-	5.9	450	-1-1-2-1-2-2-1	2-4-3-3-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80
30-45.2373-111.3685-2-12-	0-437316-10/17/75-8-	10	4.4	-	5.5	250	-1-1-2-7-3-2-1	2-1-3-3-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.60
30-45.2287-111.3504-2-12-	0-437317-10/17/75-9-	2	4.0	-	5.7	260	-1-7-2-7-2-2-1	2-1-3-3-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.60
30-45.2731-111.2634-2-12-	0-437318-10/17/75-9-	12	-	-	5.9	550	-1-1-5-6-3-2-1	2-4-3-2-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
30-45.2710-111.2372-2-12-	0-437319-10/17/75-10-	10	-	-	5.7	500	-1-1-4-7-3-2-1	2-1-3-3-1	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
30-45.3018-111.2070-2-12-	0-437320-10/17/75-10-	12	-	-	5.4	70	-1-7-2-7-4-4-1	2-1-3-2-1	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-</	

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

[illegible]

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

[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	South Dakota	= 46
Arizona	= 04	Nebraska	= 31	Texas	= 48
Colorado	= 08	New Mexico	= 35	Utah	= 49
Idaho	= 16	North Dakota	= 38	Wyoming	= 56
Kansas	= 20	Oklahoma	= 40		

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 ($^{\circ}\text{C}$).

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 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 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	3 = Igneous
2 = Metamorphic	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/Buff	4 = Pink/Red	7 = Gray
2 = Yellow	5 = Green	8 = Black
3 = Orange	6 = Brown	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	4 = Sand	7 = Other
2 = Cobbles	5 = Mud	
3 = Gravel	6 = Muck	

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 ppb, or in the sediment sample in ppm.

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 / MEDIUM / TREATMENT</u>
01 -	<u>Spring water sample untreated.</u>
02 -	<u>Stream water sample untreated.</u>
06 -	<u>Spring water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 reagent-grade nitric acid (HNO₃).</u>
07 -	<u>Stream water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO₃).</u>
11 -	<u>Wet spring sediment sample dried at ≤100°C and sieved to -100 mesh through stainless steel sieves.</u>
12 -	<u>Wet stream sediment sample dried at ≤100°C and sieved to -100 mesh through stainless steel sieves.</u>
15 -	<u>Dry stream sediment sample dried at ≤100°C (if necessary) and sieved to -100 mesh through stainless steel sieves.</u>
27 -	<u>Stream water sample acidified to a pH of ≤ 1 with reagent grade nitric acid (HNO₃).</u>

APPENDIX E

CUMULATIVE FREQUENCY PLOTS OF URANIUM CONCENTRATIONS
IN ALL WATERS, SPRING WATERS, AND STREAM WATERS
FROM THE BOZEMAN QUADRANGLE, MONTANA, BY SAMPLE TREATMENT

APPENDIX E

CUMULATIVE FREQUENCY PLOTS OF URANIUM CONCENTRATIONS IN ALL WATERS, SPRING WATERS,
AND STREAM WATERS FROM THE BOZEMAN QUADRANGLE, MONTANA, BY SAMPLE TREATMENT

a. All waters, all treatments

b. Spring water, filtered and acidified

c. Spring water, no treatment

d. Stream water, filtered and acidified

e. Stream water, acidified only

f. Stream water, no treatment

APPENDIX F

CUMULATIVE FREQUENCY PLOT OF URANIUM CONCENTRATIONS IN SEDIMENTS
FROM THE BOZEMAN QUADRANGLE, MONTANA

APPENDIX F

CUMULATIVE FREQUENCY PLOT OF URANIUM CONCENTRATIONS IN SEDIMENTS FROM THE BOZEMAN QUADRANGLE, MONTANA

GEOLOGIC MAP OF THE
BOZEMAN NTMS QUADRANGLE, MONTANA

University of California
LOS ANGELES SCIENTIFIC LABORATORY
Post Office Box 1585 Los Angeles, New Mexico 87545
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The LASL sample location numbers above are the same as those used in APPENDIXES B and C except the leading two alphanumeric characters have been dropped.

SAMPLE LOCATION OVERLAY FOR THE BOZEMAN NTMS QUADRANGLE, MONTANA

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MONTANA

LEGEND

SYMBOLS	CONCENTRATIONS (ppb)
◇ SPRING	0.00 - 0.20
□ SURFACE STREAM	0.21 - 0.50
	0.51 - 1.00
	1.01 - 2.00
	2.01 - 5.00
	5.01 - 10.00
	10.01 - 20.00
	>20.00

URANIUM CONCENTRATIONS (ppb) IN WATERS OVERLAY TO THE BOZEMAN NTMS QUADRANGLE, MONTANA

▲¹ KNOWN URANIUM OCCURRENCES

NOTE: The numbers adjacent to the uranium occurrence symbol refer to the descriptions found in Table I

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SAMPLE TREATMENTS

- Most samples providing data within dashed lines were given no treatment.
- Most samples providing data within solid lines were acidified only.
- All other water samples for which data are provided were filtered and acidified.

LEGEND	
SYMBOLS	CONCENTRATIONS(ppm)
◇ WET SPRING	0.0 - 1.0
□ WET STREAM	1.1 - 3.0
⊠ DRY STREAM	3.1 - 5.0
	5.1 - 7.0
	7.1 - 9.0
	9.1 - 11.0
	11.1 - 13.0
	> 13.0

URANIUM CONCENTRATIONS (ppm) IN SEDIMENTS
OVERLAY TO THE
BOZEMAN NTMS QUADRANGLE, MONTANA

LSA
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