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Informal Report

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Uranium Hydrogeochemical and Stream Sediment Reconnaissance of the Thermopolis NTMS Quadrangle, Wyoming, Including Concentrations of Forty-Two Additional Elements

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Uranium Hydrogeochemical and Stream Sediment Reconnaissance of the Thermopolis NTMS Quadrangle, Wyoming, Including Concentrations of Forty-Two Additional Elements

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URANIUM HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE OF THE THERMOPOLIS NTMS QUADRANGLE, WYOMING, INCLUDING CONCENTRATIONS OF FORTY-TWO ADDITIONAL ELEMENTS

by

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ABSTRACT

The Los Alamos Scientific Laboratory conducted a hydrogeochemical and stream sediment reconnaissance for uranium in the Thermopolis National Topographic Map Series quadrangle, Wyoming. Totals of 920 water and 1821 sediment samples were collected from 1977 locations at an average density of one sample location per 9 km^2 over an 18 000-km^2 area. Water samples were collected from streams, springs, and wells; sediment samples were collected from streams and springs.

The uranium contents of water samples range from below the detection limit of 0.02 parts per billion (ppb) to 307.98 ppb with a median of 0.56 ppb. Six clusters of anomalous water samples were delineated within the Wind River Basin and are associated predominantly with the Wind River formation. Two clusters of anomalous waters were collected on the southern margin of the Bighorn Basin and are associated with sandstone and shales of Permian through Cretaceous age.

The uranium contents of sediment samples range from 0.43 to 94.65 parts per million (ppm) with a median of 2.90 ppm. Most sediment samples with uranium concentrations of greater than 12 ppm are underlain by Precambrian crystalline rocks of the Wind River Range; this area contains the highest uranium values found in sediments from the Thermopolis quadrangle. Other samples containing greater than 12 ppm uranium are found associated with the Wind River and Aycross formations along the northern margin of the Wind River Basin, and one sample was collected from Precambrian granitic terrain of the Owl Creek Mountains.

I. INTRODUCTION

This report presents uranium and other elemental data resulting from the Hydrogeochemical and Stream Sediment Reconnaissance (HSSR) of the Thermopolis National Topographic Map Series (NTMS) quadrangle, Wyoming, by the Los Alamos Scientific Laboratory (LASL). The LASL is responsible for conducting the HSSR primarily in the Rocky Mountain states of New Mexico, Colorado, Wyoming, and Montana and in Alaska (Sharp, 1977). This study was conducted as part of the United States Department of Energy's National Uranium Resource Evaluation (NURE), which is designed to provide an improved estimate for the availability and economics of nuclear fuel resources and to make available to industry information for use in the development and production of uranium resources. The HSSR data will ultimately be integrated with data from other NURE programs (e.g., airborne radiometric surveys and geological investigations) to complete the entire NURE program by 1988.

Totals of 920 water and 1821 sediment samples were collected from 1977 locations in the Thermopolis quadrangle at an average density of one sample per 9 km^2. Of the 1821 sediment samples, 131 were collected during the summers of 1968 and 1969 in the course of wilderness studies by the US Geological Survey (Granger et al, 1971; Antweiler et al, in preparation). No water samples were available from these sites. The remaining sediment samples and all water samples were collected by private contractors under separate contracts to the LASL during the summers of 1976, 1977, and 1979.

The LASL analyzed all water samples for uranium (Appendix I-A); all sediment samples were analyzed for uranium, thorium, and 41 additional elements (Appendix I-B). Field measurements, weather, geologic, and geographic data for each sample site are also included in Appendixes I-A and I-B. The data presented in Appendix I are available on magnetic tape from: GJOIS Project, UCC-ND, Computer Applications Department, 4500 North Building, Oak Ridge National Laboratory, P. O. Box X, Oak Ridge, Tennessee 37830. Standardized field, analytical, and data base management procedures were used in all phases of this study.

To facilitate the timely use of these data for the NURE, only the results of the uranium analyses are discussed in this report. A supplemental report that includes results of analyses for several elements in the water samples from this quadrangle is planned to be released in the future.

II. DESCRIPTION OF STUDY AREA

Location and Geographic Setting

The Thermopolis quadrangle covers about 18 000 km^2 in west-central Wyoming (Fig. 1). The area is mainly within Fremont and Hot Springs Counties, but also includes portions of Sublette, Park, and Washakie Counties. The Wind River Indian Reservation covers more than 6500 km^2 in the central portion of the quadrangle and is home to more than 3000 Shoshone and Arapahoe Indians. Major population centers (1970 census) are Riverton (7995) and Thermopolis (3063).

The study area includes portions of the Middle Rocky Mountains and Wyoming Basin physiographic provinces (Hunt, 1974). The Wind River Basin comprises the Wyoming Basin province within the quadrangle. It connects with and generally resembles the Great Plains province to the east. Altitudes are generally between 1500 and 1800 m above sea level. Large areas of good

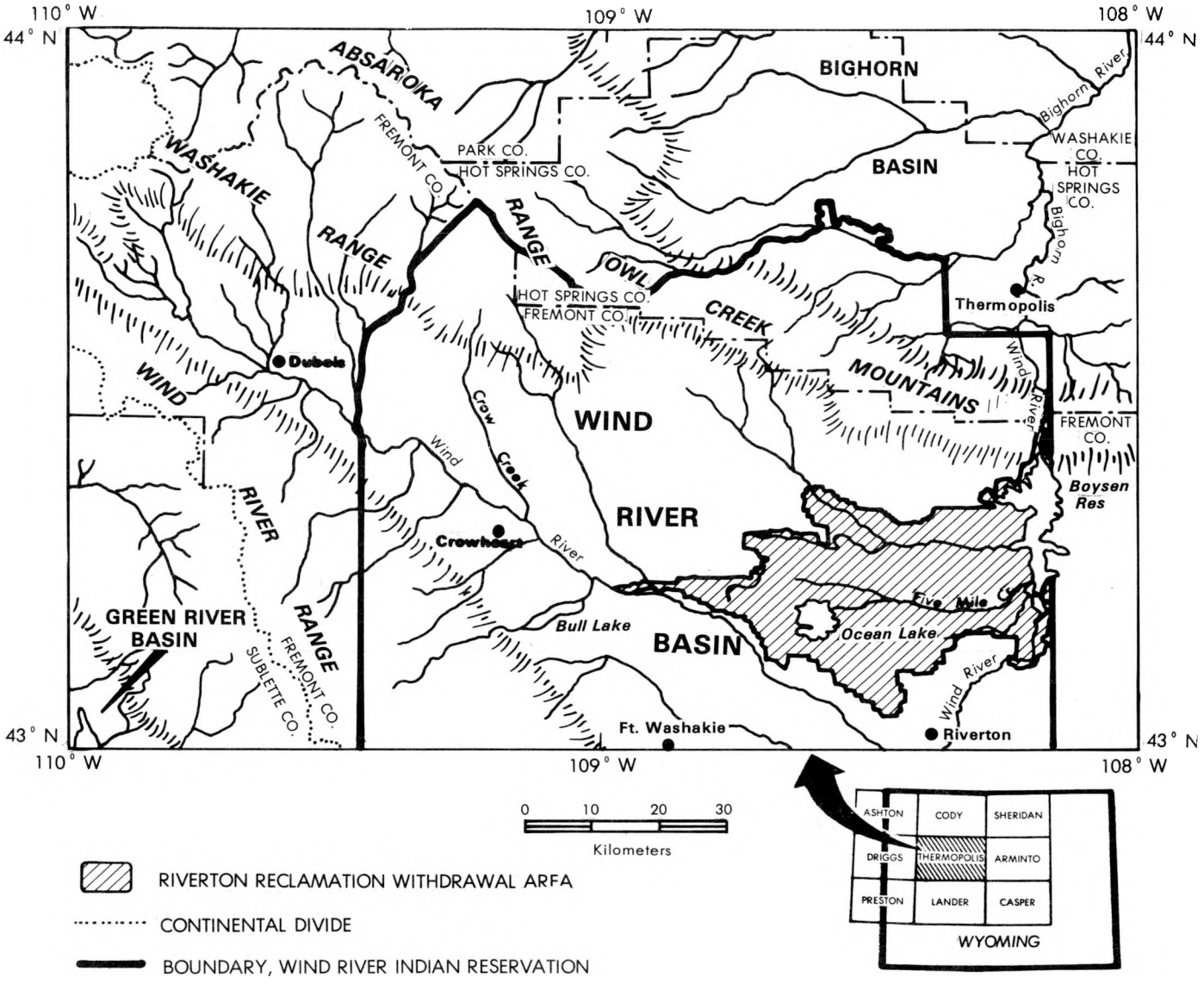


Fig. 1. Location and drainage map of the Thermopolis NTMS quadrangle, Wyoming.

grazing land are found in the middle and eastern portions of the Wind River Basin, though much of this lowland area is badlands (Fenneman, 1931).

The Wind River, Washakie, and Absaroka Ranges, Owl Creek Mountains, and Bighorn Basin are within the Middle Rocky Mountains province. This province is characterized by diversity of rock types and structural geologic settings, relief often exceeding 1500 m, altitudes of many summits exceeding 4000 m, extensive conifer forests, and abundant water supplies (Hunt, 1974). Several glaciers and snowfields are found along the Continental Divide in the Wind River Range.

Climate

The climate of the Thermopolis quadrangle ranges from arid in the lower elevations to humid in the mountain regions. In general, the mean monthly

temperatures for the non-mountain areas of the quadrangle are -9.4°C and 21.1°C for January and July, respectively, and in the mountain regions -11.1°C and 15.5°C for January and July, respectively (Becker and Alyea, 1964a). Annual precipitation averages about 220 mm in the inner basins, and 600 mm or greater in the higher mountains (Becker and Alyea, 1964b). About 50% of the annual precipitation in the lower elevations falls in April, May, and June; most of the precipitation in the mountain areas falls as snow. Information about the local weather conditions was recorded by the samplers at each site. This information is included in the data listings in Appendix I.

Hydrology

The Wind and Bighorn Rivers provide the main surface drainage within the quadrangle. The Wind River receives most of the water it carries from headwaters in the Wind River, Washakie, and Absaroka Ranges. North of Riverton it takes a seemingly anomalous course through a gorge in the Owl Creek Mountains where its name changes to Bighorn River.

The total dissolved solids (TDS) content of streams in the mountain areas and Wind River Basin is generally less than 350 parts per million (ppm), but streams immediately north and south of the Owl Creek Mountains may contain as much as 2600 ppm TDS. In the Bighorn Basin the TDS content ranges between 350 and 750 ppm. Streams of the Wind River drainage are generally of the calcium-magnesium carbonate type and those of the Bighorn River drainage are of the calcium-magnesium sulfate type (Rainwater, 1962).

The water table in the Riverton Reclamation Project Area is high due to irrigation. Surplus irrigation water and seepage of ground water from the irrigated lands has caused the formation of Ocean Lake and has made formerly intermittent Fivemile Creek perennial (McGreevy et al, 1969).

The most important aquifer in the Thermopolis quadrangle is the Wind River formation which contains water under artesian conditions. Well depths range from 15 to 365 m; the average depth is about 75 m. The TDS content varies from less than 300 ppm to more than 4500 ppm, but most wells produce water having less than 1000 ppm TDS (Whitcomb and Lowry, 1968).

Other important aquifers in the area are Quaternary alluvial deposits (300-1200 ppm TDS) in the valleys of perennial streams, and the Tertiary Arikaree (350 ppm TDS) and Fort Union formations (1000 ppm TDS). Rocks of Cretaceous age are considered poor aquifers and are used only when a better source is not economically available. Rocks of pre-Cretaceous age are generally too deep to be used extensively as aquifers except where they crop out near the flanks of mountain ranges (Whitcomb and Lowry, 1968).

III. GEOLOGY

A published preliminary 1:250 000-scale geologic map of the Thermopolis quadrangle (Love et al, 1979) is available from the US Geological Survey (USGS). A brief description of the principal stratigraphic units in the area is given in Table I. Descriptions of the local geology are found in Colby et al (1956), Berry and Littleton (1961), and Keefer (1970).

Stratigraphy

Rock units representing all geologic periods except the Silurian are exposed within the Thermopolis quadrangle. The oldest rocks in the area are Precambrian rocks exposed in the Wind River and Washakie Ranges and the Owl Creek Mountains and include predominantly granite, granite gneiss, and schist.

TABLE I

PRINCIPAL STRATIGRAPHIC UNITS IN THE THERMOPOLIS QUADRANGLE, WYOMING

Age	Thickness	Rock Unit	Lithology
Quaternary	0 - 10 m	Surficial deposits	Alluvium, colluvium, terrace and pediment gravels, landslide and glacial deposits, eolian sand, and travertine deposits.
Eocene	0 - 210 m	Wagon Bed formation	Arkosic sandstone and conglomerate; tuffaceous siltstone, claystone, and sandstone.
	0 - 910 m	Wiggins formation	Volcanic conglomerate and tuffaceous sandstone.
	0 - 760 m	Teepee Trail formation	Andesitic conglomerate, sandstone, and claystone.
		Aycross formation	Tuffaceous claystone and sandstone.
	0 - 80(?)m	Wasatch formation	Claystone; lenticular beds of sandstone, conglomerate locally; lesser of shale, lignite, and limestone.
	0 - 600 m	Willwood formation	Claystone, sandstone, and conglomerate.
	0 -2740 m	Wind River formation	Sandstone, conglomerate, siltstone, and claystone.
		Indian Meadows formation	Conglomerate, sandstone, and siltstone.
Paleocene	0 -2440 m	Fort Union formation	Sandstone, siltstone, and shale.
Cretaceous	0 -1830 m	Lance formation	Sandstone, shale, and claystone.
	60 - 400 m	Meeteetse formation	Sandstone, siltstone, carbonaceous shale, and coal.
	210 - 600 m	Mesaverde formation	Sandstone, siltstone, carbonaceous shale, and coal.
	1100 -1520 m	Cody shale	Shale and shaly sandstone.
	180 - 300 m	Frontier formation	Sandstone and shale.
	70 - 210 m	Mowry shale	Shale and bentonite.
	40 - 70 m	Thermopolis shale	Shale; muddy sandstone member at top.
	60 - 210 m	Cloverly formation	Sandstone, siltstone, claystone, and conglomerate.
Jurassic	60 - 170 m	Morrison and Sundance formations	Sandstone, limestone, and shale.
	0 - 70 m	Gypsum Spring formation	Limestone, shale, claystone, and gypsum.
Jurassic (?) and Triassic (?)	0 - 500 m	Nugget sandstone	Sandstone; minor shale in lower part.
Triassic	300 - 400 m	Chugwater formation	Siltstone, shale, sandstone, and limestone.
	50 - 200 m	Dinwoody formation	Siltstone, shale, and sandstone.
Permian	60 - 120 m	Park City or Phosphoria formation	Limestone, chert, sandstone, and phosphatic siltstone.
Pennsylvanian	60 - 180 m	Tensleep sandstone	Sandstone.
Pennsylvanian and Mississipian	0 - 120 m	Amsden formation	Sandstone overlain by limestone, dolomite, and shale.
Mississippian	90 - 210 m	Madison limestone	Limestone.
Devonian	0 - 90 m	Darby formation	Dolomite, limestone, shale, and siltstone.
Ordovician	0 - 90 m	Bighorn dolomite	Dolomite.
Cambrian	0 - 110 m	Gallatin limestone	Limestone.
	0 - 210 m	Gros Ventre formation	Shale, limestone, and shaly sandstone.
	15 - 150 m	Flathead sandstone	Sandstone and quartzite.
Precambrian		Igneous and metamorphic rocks	Includes diabase, granite, migmatite, ultramafic rocks, gneiss, and quartz monzonite.

After Keefer (1970) and Love et al (1979).

Paleozoic strata consist predominantly of limestone, dolomite, and sandstone that were deposited in shallow seas that oscillated across the land during Paleozoic and much of Mesozoic time (Keefer, 1970). Mesozoic strata are chiefly shale, siltstone, and sandstone. In late Cretaceous time, a series of transgressions and regressions resulted in deposition of marine and marginal-marine sandstone, siltstone, shales, and some coal beds. Cenozoic sediments stripped from the flanks of mountain masses fill the basins in the Thermopolis quadrangle (Keefer, 1970).

Volcanic rocks of the Absaroka volcanic field are primarily Eocene to Oligocene in age. These rocks are composed dominantly of calc-alkalic andesites, quartz latites, and dacites that were extruded from composite stratovolcanoes (Nelson et al, 1980). The total thickness of the volcanic series ranges from about 100 m at the periphery to more than 1900 m in the central portion of the field (Rouse, 1947).

Structure

The earliest deformations in the Thermopolis quadrangle occurred in Precambrian time. This is evidenced by Precambrian rocks exposed in the cores of the Wind River, Washakie, and Owl Creek uplifts, which indicate a long and complex history of sedimentation, metamorphism, plutonism, and deformation during Precambrian time (Keefer, 1970).

Laramide mountain building and basin subsidence is responsible for the present day structural features evident in the Thermopolis quadrangle. Downwarping of the Wind River Basin and uplift of the Washakie Range began in latest Cretaceous time and culminated in early Eocene time. Uplift of the Wind River Range and Owl Creek Mountains began in earliest Paleocene time. By the end of early Eocene time, orogenic activity had virtually ceased (Keefer, 1965).

The Wind River Basin is a well defined, asymmetric structural depression. Paleozoic and Mesozoic rocks dip 15-20° northeastward (basinward) along the Wind River uplift, whereas dips along the margin of the Washakie and Owl Creek uplifts vary from vertical to overturned. The structural relief between the mountains and basin exceeds 10 600 m close to the northeastern flank of the Wind River uplift, and 9100 m on the north side of the basin near the Owl Creek uplift (Keefer, 1970).

The Bighorn Basin dominates the geography of the northeastern portion of the quadrangle. It is one of the several structural basins of the Middle Rocky Mountains that were formed during Laramide time. The Precambrian basement in the deeper parts of the Bighorn Basin is estimated to be more than 9100 m below sea level (Stearns, 1975).

Uranium Occurrences

There has been no significant production of uranium from the Thermopolis quadrangle. However, uranium occurrences of various sizes and types are known in the area; most are of low grade and have had no past production. These occurrences are briefly described in Table II and their locations shown on Fig. 2.

Uranium deposits in Wyoming are found in a variety of geologic settings; however, most are in arkosic sandstones and conglomerates of early Eocene age. Major uranium producing areas adjacent to the Thermopolis quadrangle are the Copper Mountain District, which lies adjacent to the east-central edge of the quadrangle, and the Gas Hills District, which lies 65 km southeast of Riverton. Both districts have uranium mineralization hosted in the lower Eocene Wind

TABLE II

GENERALIZED DESCRIPTIONS OF URANIUM OCCURRENCES
IN THE THERMOPOLIS QUADRANGLE, WYOMING[a]

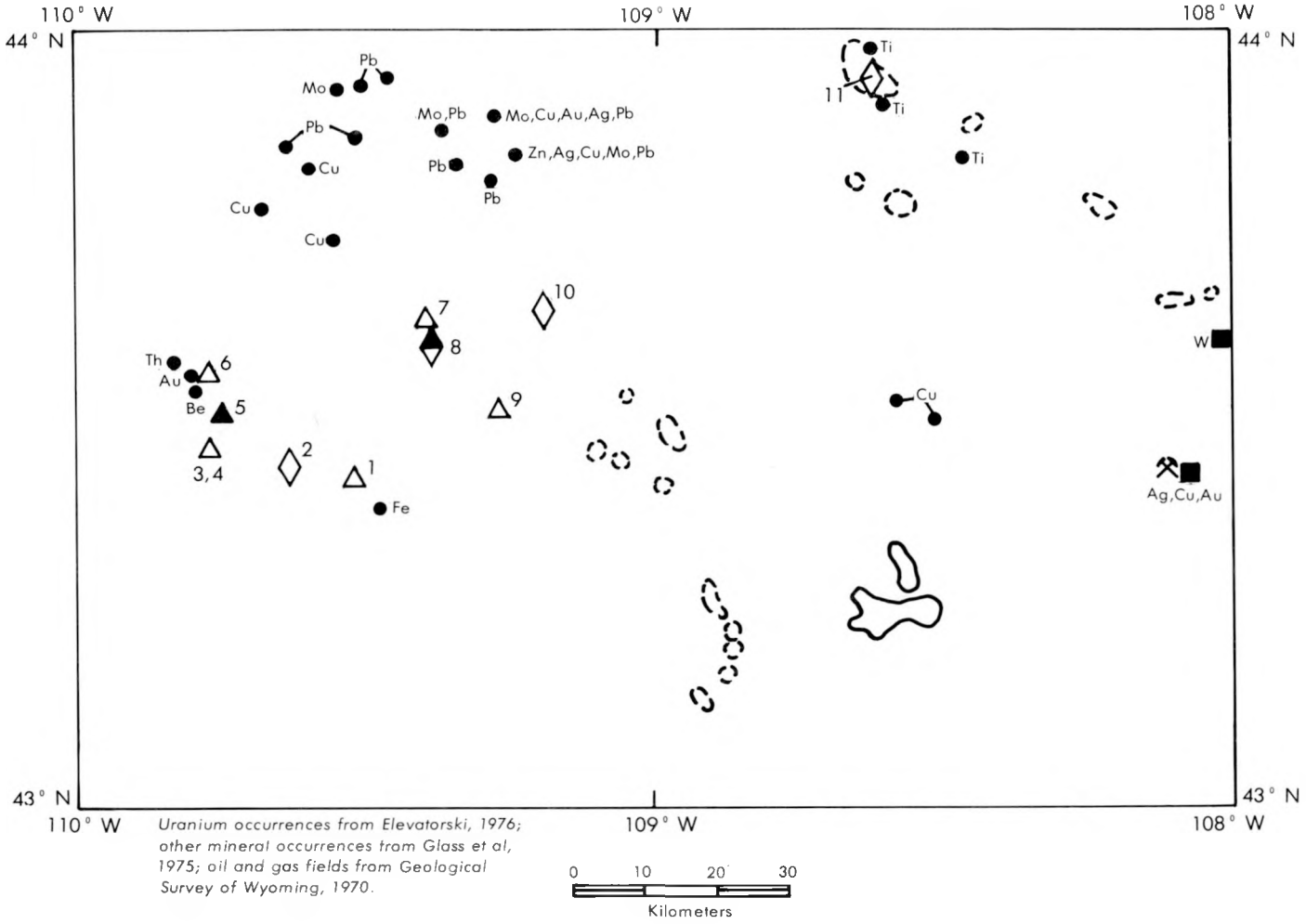
No.	Name of Occurrence	Latitude/Longitude[b]		Remarks
1.	Blue Hole Creek	43° 25'	109° 31'	Uranium occurrence in quartz monzonite.
2.	Whiskey Mountain Claim No. 1	43° 26'	109° 38'	Carnotite with fluorite in cavities of claystone and dolomitic limestone (Cambrian).
3.	Long Shot 4	43° 27'	109° 47'	Vein type occurrence. Dull yellow uranium mineral coating on fracture surface.
4.	Union Peak, Long Shot 1	43° 27'	109° 47'	Uranophane in fractured Precambrian granite gneiss.
5.	Little Warm Springs Creek, DuBois Claim	43° 30'	109° 45'	Past production of uranophane, allanite, and pitchblende in fractures of Precambrian granite gneiss.
6.	Warm Springs Mountain	43° 33'	109° 48'	Uranium occurrence in granite.
7.	East Fork Wind River	43° 37'	109° 24'	Uranium occurrence in granite.
8.	East Fork, Wind River	43° 36'	109° 24'	Occurrence in Eocene Aycross formation.
9.	Crow Creek	43° 31'	109° 17'	Vein type occurrence.
10.	Absaroka Range	43° 39'	109° 12'	Uranium occurrence.
11.	Grass Creek Basin	43° 57'	108° 38'	Uranium occurrence in sandstone.

[a] From Wilson, 1960; Elevatorski, 1976
[b] Location shown in Fig. 2.

River formation (Elevatorski, 1976); however, recent exploration activity is aimed at developing a deposit that occurs in Precambrian granite and metamorphic rocks on the south slopes of Copper Mountain (Yellich et al, 1978). Wilson (1960) lists the principal uranium-bearing minerals in Wyoming as being autunite, metaautunite, carnotite, schroeckingerite, tyuyamunite, metatyuyamunite, uranophane, uraninite, and coffinite.

IV. PRESENTATION OF ANALYTICAL AND STATISTICAL DATA

Field measurements and analytical data for each sample site are given for waters in Appendix I-A and for sediments in Appendix I-B. Water samples were intially analyzed for uranium by fluorometry. All water samples containing more than 40 parts per billion (ppb) uranium were reanalyzed by



LEGEND

- Oil field
- Gas Field
- Mineral occurrences as noted

URANIUM OCCURRENCES

- Plutonic - Significant prospect or mine reporting minor production.
- Plutonic - Minor prospect or mineral occurrence.
- Sedimentary - Significant prospect or mine reporting minor production.
- Sedimentary - Minor prospect or mineral occurrence.

- Underground mine
- Open pit

NO.	NAME OF OCCURRENCE
1.	Blue Hole Creek
2.	Whiskey Mtn. Claim No. 1
3.	Long Shot 4
4.	Union Peak, Long Shot 1
5.	Little Warm Springs Creek, DuBois Claim
6.	Warm Springs Mtn.
7.	East Fork Wind River
8.	East Fork, Wind River
9.	Crow Creek
10.	Absaroka Range
11.	Grass Creek Basin

Fig. 2. Economic resources map of the Thermopolis quadrangle, Wyoming.

delayed-neutron counting (DNC). All sediments were analyzed for uranium by DNC. Elemental concentrations in sediments were determined by neutron activation analysis for 31 elements, by x-ray fluorescence for 9 elements, and by arc-source emission spectrography for 2 elements.

Appendixes II-A and II-B contain histograms showing the distribution of uranium concentrations for waters and sediments, respectively. Appendix II-C contains histograms of thorium concentrations in sediments. Field and analytical procedures used are described in Appendix III-A and detailed field methodology is described by Sharp and Aamodt (1978); Appendixes III-B and III-C explain the codes used in Appendix I.

Plates included in the rear pocket consist of a sample location overlay (Plate I), a uranium concentration overlay for waters (Plate II), a water conductivity overlay (Plate III), a uranium concentration overlay for sediments (Plate IV), and a thorium concentration overlay for sediments (Plate V). All plates are 1:250 000 scale and can be used with the Thermopolis topographic map (USGS, 1955) and geologic map (Love et al, 1979) that are published at the same scale.

Although uranium data from different sample types may not be directly comparable, the water and sediment samples are each considered to be single populations in discussion of the data. Limiting the discussion to a few areas having the highest uranium values should not be construed as discounting the possible significance of the remaining samples. Subtle variations in low-level uranium concentrations also have been useful guides in geochemical exploration in places where other geologic factors call attention to an area as a possible exploration target.

Uranium Concentrations in Water Samples

Water samples were collected from 920 locations in the Thermopolis quadrangle, including 663 streams, 120 springs, and 137 wells. The uranium content of all waters ranges from below the detection limit of 0.02 ppb to 307.98 ppb and has a median of 0.56 ppb (Table III). In general, well waters have the highest median uranium concentrations, whereas streams have the lowest. Although samples taken from different water sources should be considered separately in a more detailed examination of the data, no distinction is made among sample types in the following discussion.

In view of the obvious differences in the uranium contents of these water samples with respect to topography and geology, no single uranium value

TABLE III

SUMMARY OF URANIUM DATA FOR WATER SAMPLES FROM THE THERMOPOLIS QUADRANGLE, WYOMING

Sample Type	Population Size	Range (ppb) Min.	Range (ppb) Max.	Mean (ppb)	Standard Deviation	Median (ppb)
All waters	920	0.01	307.98	4.61	18.54	.56
Stream waters	663	0.01	99.38	2.22	8.25	.39
Spring waters	120	0.01	40.21	3.00	5.82	1.00
Well waters	137	0.07	307.98	17.60	41.96	2.50

can be chosen as an anomaly threshold. Therefore, anomalous samples will be defined as samples that have uranium concentrations significantly higher than background uranium concentrations. Discussion will be limited to groups of samples, defined as clusters, where the samples have uranium concentrations significantly above local background levels. The clusters of water samples discussed are briefly described in Table IV and their locations are shown in Fig. 3.

Most anomaly clusters listed in Table IV are within the Wind River Basin and are associated with sedimentary rocks of the Eocene Wind River formation. Four clusters (W1-W4) occur within or immediately adjacent to the Riverton Reclamation Project area. This is a relatively low-lying area where the water table is shallow due to extensive irrigation. Uranium concentrations in this area are among the highest measured in the study; approximately 80% (37 out of 47) of all water samples containing greater than 20 ppb uranium lie within or

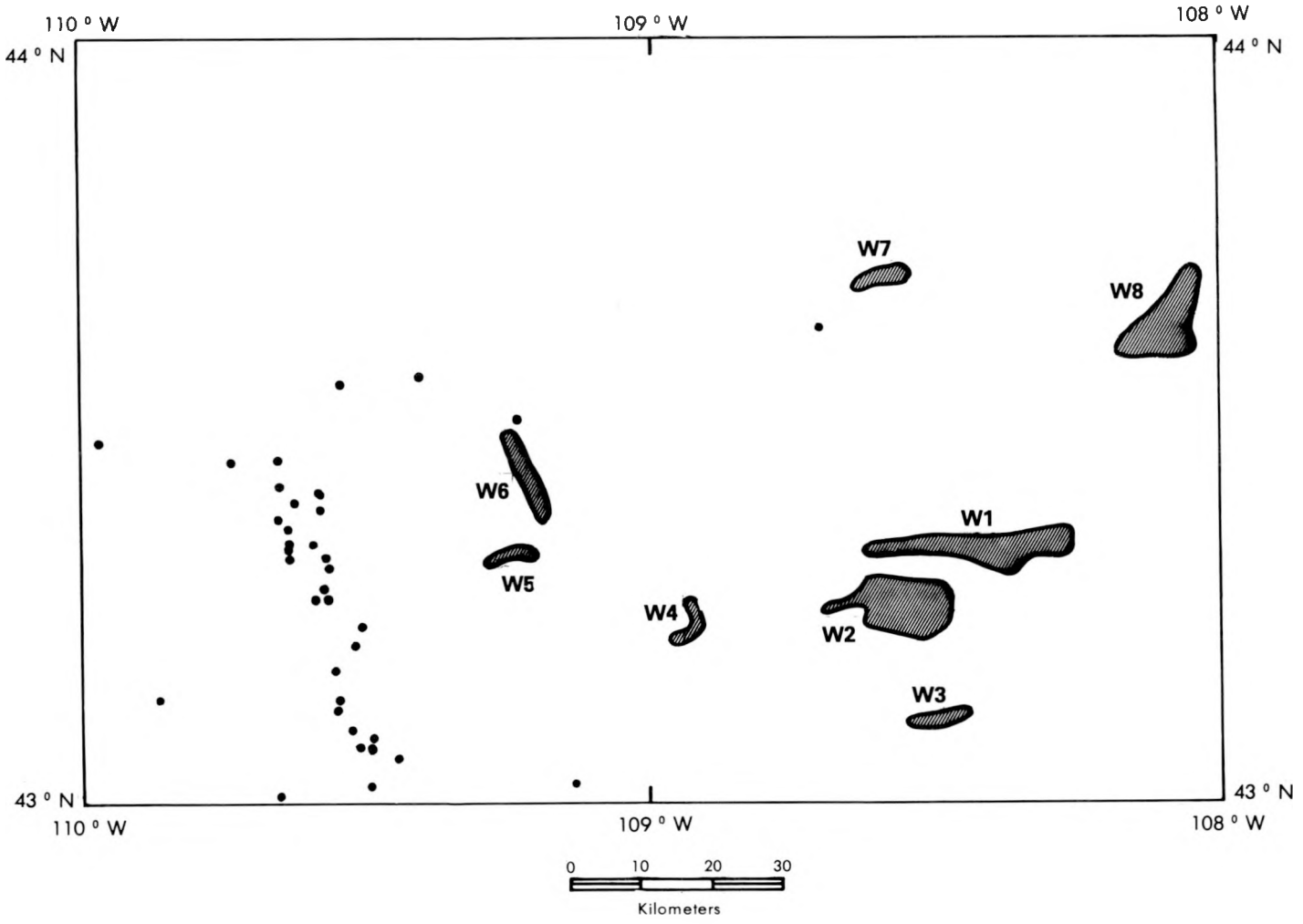


Fig. 3 Schematic diagram showing principal uranium anomaly clusters for water samples (W) and locations of sediment samples (•) containing ≥ 12 ppm uranium from the Thermopolis quadrangle, Wyoming.

TABLE IV

CLUSTERS OF WATER SAMPLES WITH ANOMALOUS URANIUM CONCENTRATIONS FROM THE THERMOPOLIS QUADRANGLE, WYOMING

Water Cluster*	Sample Location	Sample Source	pH	Uranium (ppb)	Conductivity µmho/cm	Geology/Remarks
W1	W07691	Stream	7.6	99.38	3850	Northern portion of the Riverton Reclamation Withdrawal Area, about 15 km south of the Owl Creek Mountains. The area is underlain by Wind River formation and by Quaternary alluvium.
	W07730	Well	7.5	86.21	1450	
	W07732	Well	7.3	107.73	2500	
	W07734	Stream	7.3	60.27	3100	
	W07740	Stream	7.1	69.93	2350	
	W07781	Well	7.2	80.60	15	
	W07783	Stream	7.4	71.82	30000	
	W07785	Stream	No data	85.43	28500	
	W07786	Well	7.3	106.66	4200	
	W07789	Stream	7.7	53.87	1550	
	W07896	Stream	7.5	41.14	1150	
	W07961	Well	7.1	28.65	1400	
	W07962	Well	7.3	33.11	4650	
W2	W07050	Well	7.4	36.01	1230	Just north of Ocean Lake, within the Riverton Reclamation Withdrawal Area. Underlain by Wind River formation and by Quaternary alluvium. A low level airborne radiometric anomaly is associated with this cluster.
	W07052	Well	7.5	115.02	3090	
	W07055	Well	7.3	57.41	3800	
	W07694	Well	7.4	64.41	1500	
	W07696	Stream	7.2	60.29	2350	
	W07697	Well	6.9	126.65	2000	
	W07698	Well	7.1	33.09	1450	
	W07701	Well	7.4	56.42	1600	
	W07775	Well	7.4	307.98	2050	
	W07776	Well	7.0	37.41	29000	
W3	W06956	Well	7.2	34.71	790	These wells in the Riverton Reclamation Withdrawal Area are underlain by Wind River formation and by Quaternary alluvium.
	W06957	Well	7.8	44.84	535	
	W07042	Well	8.4	35.43	554	
	W07066	Well	7.7	282.68	900	
W4	W07348	Well	7.3	70.95	2000	Extreme western portion of Riverton Reclamation Withdrawal Area. Bedrock Wind River formation and Quaternary alluvium. Adjacent to Steamboat Butte oil field.
	W07354	Well	6.8	14.67	4500	
	W07356	Well	7.6	24.02	900	
W5	W07075	Stream	7.7	9.83	490	Underlain by Jurassic through Quaternary sedimentary rocks of Wind River Basin. Associated with low level airborne radiometric anomaly.
	W07076	Stream	7.6	11.00	890	
	W07077	Well	7.5	11.45	420	
	W07196	Spring	7.1	8.47	2490	
W6	W07363	Well	7.5	22.53	600	In alluvium of Crow Creek. Underlain by Wind River formation. Vein-type uranium occurrence just upstream.
	W07365	Stream	7.4	8.19	No data	
	W07367	Stream	7.4	5.13	380	
	W07370	Stream	7.4	10.06	No data	
	W07374	Stream	8.1	6.54	550	
	W07376	Stream	8.3	5.67	600	
W7	W07429	Stream	7.6	7.76	3250	Samples from streams draining sedimentary strata of Permian through Cretaceous age. Minor faulting associated with this cluster.
	W07430	Stream	7.6	7.80	4350	
	W07431	Stream	7.8	7.07	2800	
	W07440	Stream	7.7	6.07	3300	
W8	W06244	Stream	6.5	16.50	3000	Underlain by various Mesozoic strata. Eastward-trending fault bisects this cluster. Unsubstantiated uranium claim in northern portion of cluster. Oil production in vicinity.
	W06250	Spring	6.3	14.90	2000	
	W06251	Spring	6.0	15.70	1200	
	W06256	Well	6.3	26.90	1800	
	W06261	Well	6.9	49.20	2200	
	W06275	Spring	7.2	17.20	3500	
	W06278	Spring	7.1	17.00	2600	
	W07559	Spring	7.1	40.21	2500	

* Location shown in Fig. 3.

adjacent to this area. Field samplers reported a white alkali precipitate on some of the stream banks (samples W07783, W07785, and W07789) of cluster W1. Evidence of alkali-rich waters is borne out by the very high conductivities in these stream waters, which reflect a high concentration of TDS. One well-water sample, W07781, is of particular interest in that it contains a high uranium value of 80.60 ppm and a conductance of only 15 µmho/cm.

The association of high uranium concentrations with moderate-to-high conductivity values in the four clusters described above is difficult to interpret. While the Precambrian crystalline core of the Wind River range and Owl Creek Mountains could serve as a source for uranium in this area, the amount of uranium enrichment seen in these samples could also be due to the long and intimate contact of ground waters with surrounding bedrock units and to the evaporative concentration of uranium in surface waters in an arid climate. Also, clusters W1, W2, and W4 are spatially associated with oil and/or gas fields. Hawley et al (1968) suggests that uranium ores may form as a reaction between introduced aqueous solutions and petroleum contained in the host rocks. Therefore, while some of the high uranium concentrations in clusters W1-W4 may reflect environmental factors (e.g., long contact time of ground waters with bedrock units), the possibility of uranium mineralization in the Wind River formation should not be overlooked.

Cluster W5 is in the central portion of the quadrangle within the Wind River Basin and consists of two streams, one spring, and one well. Associated geologic units are Quaternary terrace and glacial outwash deposits, the Eocene Wind River formation, and various Cretaceous strata. Because of the complexity of geology and sample sources, the significance of this cluster is difficult to assess. However, the uranium concentrations of these samples are almost 10 times background.

Cluster W6 consists of five stream samples taken within Crow Creek and one well sample taken adjacent to Crow Creek. The area is underlain by Quaternary alluvium, which in turn is underlain by Wind River formation. The relatively low conductivities associated with these samples may indicate potential uranium enrichment in this area rather than high uranium concentrations due to evaporative concentration or water chemistry. The cluster lies about 4 km downstream from a reported vein-type uranium occurrence (Elevatorski, 1976). Murphy (1956), in a study done by the Wyoming Geological Survey, also found water samples in this area to be anomalously high in uranium.

Clusters W7 (one stream, five springs, and two wells) and W8 (four streams), on the southern margin of the Bighorn Basin, are associated predominantly with sandstones and shales of Permian through upper Cretaceous age. Oil is currently being produced within the boundaries of cluster W8 and further investigation in this area may be warranted.

Uranium Concentrations in Sediment Samples

Sediment samples were collected from 1821 locations in the Thermopolis quadrangle, including 1699 streams and 122 springs. Uranium data for these sediments are summarized by source type in Table V. Sediment samples with uranium concentrations greater than 12 ppm will be considered for purposes of discussion in this report. This includes approximately 2% of the sediment samples collected. The significance of an isolated sample with a relatively high uranium concentration is difficult to determine; however, a brief description of each will be given where appropriate. The locations of samples containing greater than 12 ppm uranium are shown in Fig. 3 and relevant data are given in Table VI.

TABLE V

SUMMARY OF URANIUM DATA FOR SEDIMENT SAMPLES FROM THE THERMOPOLIS QUADRANGLE, WYOMING

Sample Type	Population Size	Range (ppm) Min.	Max.	Mean (ppm)	Standard Deviation	Median (ppm)
All sediments	1821	0.43	94.65	3.61	4.40	2.90
Dry streams	907	1.19	12.69	3.25	1.15	3.04
Wet streams (-100 mesh)	661	0.43	28.64	2.93	2.02	2.53
Wet streams (-80 mesh)	131	1.24	94.65	9.82	14.00	5.45
Wet springs	104	1.15	7.92	3.11	1.44	2.75
Dry springs	18	1.77	23.72	4.48	4.90	3.68

Note that the 131 wet stream samples (W06811 to W06941) collected from the Glacer Primitive Area study (Granger et al, 1971) and the Teton Wilderness Area study (Antweiler et al, in preparation) were sieved through an 80-mesh stainless steel screen; these coarser sediment samples have a higher median uranium content than do the -100-mesh samples. Most -80-mesh samples obtained from the Glacier Primitive Area study were collected from streams that overlie Precambrian granitic rocks of the Wind River Range. These samples have the highest uranium concentrations obtained from the Thermopolis quadrangle. In contrast, sediment samples obtained from the Teton Wilderness area study are underlain by rocks derived from the Absaroka volcanics; these samples contain some of the lowest uranium concentrations obtained in the quadrangle. It would seem, therefore, that the granitic provenance of the sediments, rather than the sieve size, is responsible for the differences in median uranium content of the two populations. This conclusion was also reached by Shannon (1979) in a HSSR of the Lander quadrangle immediately to the south. In addition, Warren (in preparation), in a HSSR of the Dixon Entrance NTMS and Prince Rupert D6 quadrangles, Alaska, has concluded that the difference in uranium content of the -80 and -100 mesh sieve sizes for samples taken at the same sample site is not significant.

Of the 113 samples collected by the USGS in the Wind River Range, 85 are underlain by Precambrian rocks. Thirty of these have uranium concentrations greater than 12 ppm. These samples are generally characterized by high concentrations of rare earth elements (REEs), a low hafnium content, and high uranium to thorium (U/Th) ratios. In particular, of the 16 sediment samples collected in the Thermopolis quadrangle with U/Th ratios greater than one, 13 come from this area. A detailed interpretation of U/Th ratios will not be presented here; however, in general, the greater the U/Th ratio, the greater the amount of soluble uranium (Gabelman, 1977). The source of the uranium in these samples could be monazite, which can contain up to 1 weight percent U_3O_8 (Palache et al, 1951). On the other hand, uraninite, which is found in association with monazite in pegmatites (Palache et al, 1944) could also be the source of the uranium. Rocks exposed in the area are granites, gneisses, and migmatites, along with associated pegmatite dikes.

TABLE VI

SEDIMENT SAMPLES THAT CONTAIN ≥ 12 PPM URANIUM
FROM THE THERMOPOLIS QUADRANGLE, WYOMING

Sample[a] No.	Sediment Source	Uranium (ppm)	U/Th Ratio	Associated Element[b]
W06290	Wet Stream	28.64	0.079	Bi, Cr, Hf, Mn, Ni, Pb, REE, Tb, Th, Ti, W
W06571[c]	Wet Stream	12.00	0.217	Cl, Hf, REE, Th, Ti, Zn
W06640	Dry Stream	12.69	0.197	Ag, Au, Hf, REE, Th
W06826	Wet Stream	29.53	0.461	Bi, Hf, Pb, REE, Th
W06827	Wet Stream	22.00	1.146	Cu, Zn
W06832	Wet Stream	24.67	0.748	Pb
W06835	Wet Stream	19.26	1.052	Zn
W06850[c]	Wet Stream	68.15	1.981	Fe, Mn, Th, REE, Zn
W06855	Wet Stream	17.11	0.716	Pb, Zn
W06857	Wet Stream	39.19	0.790	Bi, Cl, Co, Fe, La, Pb, Rb, Th
W06858	Wet Stream	40.03	1.097	Cl, Pb, Th
W06859	Wet Stream	86.99	2.620	Pb, REE, Th
W06860	Wet Stream	12.85	0.403	REE, Th
W06861	Wet Stream	94.65	2.384	Cu, Pb, REE, Th
W06862	Wet Stream	50.90	0.953	REE, Th, W
W06864	Wet Stream	20.08	0.495	REE, Th
W06865	Wet Stream	16.19	0.313	Th
W06866	Wet Stream	15.42	0.847	Al, Ba, Rb
W06870	Wet Stream	32.47	1.143	Al, Cu, Pb, REE, Th
W06872	Wet Stream	12.95	0.292	Cr, REE, Th, V
W06881	Wet Stream	19.25	0.809	Cr, Mg, Mn, Ni, Th
W06899	Wet Stream	17.55	1.887	Ni
W06906	Wet Stream	12.74	1.300	Ni, V, Zn
W06907[c]	Wet Stream	13.84	1.427	Zn
W06910[c]	Wet Stream	18.38	0.817	Ba, Cl, Mn, REE, Th, V, Zn
W06911	Wet Stream	13.59	0.781	Cu, REE, Th, V
W06915	Wet Stream	14.03	1.253	Co, Cr, Cu, Hf, Mn, Ni, V, Zn
W06917	Wet Stream	12.91	0.833	Pb, Th, Ti, Zn
W06919[c]	Wet Stream	13.50	1.038	Co, Cr, Mn, V, Zn
W06920	Wet Stream	15.67	0.922	Th, Zn
W06922	Wet Stream	22.04	0.892	Cr, Mn, Pb, REE, Th, V, Zn
W06924	Wet Stream	17.92	0.720	Cr, Cu, Mn, Ni, Pb, Th, V
W06937	Wet Stream	14.88	0.447	REE, Th, Zn
W07098	Wet Stream	13.82	0.864	Hf, Mn, REE, V
W07286	Dry Spring	23.72	1.561	Sr
W07483	Dry Stream	12.37	0.065	Bi, Cr, Hf, Ni, Pb, REE, Th, Ti, V
W07749	Wet Stream	25.74	0.727	Ce, Co, Mn, Ni, Th

[a] See Plate I for sample location.

[b] These elements are present in concentrations significantly above the median values for all sediment samples. REE = Rare-earth elements

[c] Insufficient sample for analysis by x-ray fluorescence.

Samples with the highest concentrations of uranium (up to 94.7 ppm) in the Wind River Range tend to center around Middle Mountain batholith (Granger et al, 1971). This north-trending granitic body comprises Downs Mountain and extends northward to the Whiskey Mountain area. Since the area expresses a potential for uranium mineralization, a more detailed examination is recommended. It should be noted that Shannon (1979) also found the granitic terrain of the Wind River Range favorable for uranium mineralization in the Lander quadrangle.

Samples W06571 and W06640 (12.0 and 12.7 ppm uranium, respectively) are also underlain by Precambrian rocks of the Wind River Range but are on the southwestern flank of the range. These two stream sediment samples have moderate to low U/Th ratios and a high REE and Hf content. This may indicate that the uranium is tied up in resistate minerals rather than existing in more soluble forms.

Sample W06290 (28.6 ppm uranium) was collected from a stream that drains areas of Wind River formation and Quaternary glacial deposits near the west-central edge of the quadrangle. The high concentration of REE in this sample suggests that resistate minerals may be the source of the uranium.

One sample (W06906) with a uranium content of 12.7 ppm comes from a stream draining Table Mountain (USGS, 1955) about 7 km northeast of Dubois. The area is mapped as being underlain by lower Eocene rocks (Love et al, 1979), but these are probably Wind River formation. This sample has a low concentration of REE and a U/Th ratio of 1.30, which may be an indication of uranium mineralization in the vicinity.

Sample W07483 (12.4 ppm uranium) was collected from a stream that drains Aycross formation and rocks mapped as lower Eocene (Love et al, 1979) along the northern margin of the Wind River Basin. The sample is characterized by a low U/Th ratio and a high REE content. Uranium mineralization is known to occur in the Aycross formation about 5 km to the north (Elevatorski, 1976).

Of particular interest, sample W07286 (23.7 ppm uranium) was collected from a dry spring within the Crow Creek drainage just upstream from water cluster W6. This sample, with a U/Th ratio of 1.56 and a low REE concentration, could be an indication of uranium mineralization within the Wind River formation.

Sample W07749, containing 25.7 ppm uranium, was collected from a stream draining Precambrian rocks of the Owl Creek Mountains about 35 km west of Thermopolis. Other samples in the vicinity show a slight increase in uranium (range 6.2-7.3 ppm) over background uranium concentrations (<3 ppm).

V. SUMMARY AND CONCLUSIONS

Totals of 920 water and 1821 sediment samples were collected from 1977 locations within the 18 000 km^2 area of the Thermopolis quadrangle. Water samples were collected from streams, springs, and wells, and sediment samples were collected from streams and springs. Water samples were analyzed for uranium and sediment samples were analyzed for uranium and 42 additional elements. A preliminary interpretation of uranium concentrations is emphasized in this report.

Uranium concentrations in water samples range from below the detection limit of 0.02 to 307.98 ppb, with a median of 0.56 ppb. Clusters of water samples with uranium concentrations significantly above background were chosen for discussion. Using this criterion, 8 water clusters were delineated.

Clusters W1 through W6 are underlain primarily by Eocene Wind River formation and are within the Wind River Basin; Clusters W7 and W8 are associated with rocks of Permian through Cretaceous age and are on the southern margin of the Bighorn Basin. Clusters W1, W2, W4, and W8 are of particular interest because they are associated with oil and/or gas fields, which may tend to reduce the hexavalent uranium. Cluster W6 is from an area found by Murphy (1956) to have high uranium concentration in water samples; a sediment sample just upstream from this cluster had a uranium concentration of 23.72 ppm.

Uranium concentrations in sediment samples range from 0.43 to 94.65 ppm, with a median of 2.90 ppm. Samples with uranium concentrations greater than 12 ppm were selected for discussion. The majority of these were collected from streams on northeastern flanks of the Wind River Range. This area is considered worthy of further investigation. The remaining sediment samples containing greater than 12 ppm uranium are scattered primarily around the northern margin of the Wind River Basin, where samples W06906 and W07286 may be an indication of uranium enrichment in those areas.

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APPENDIX I

LISTINGS OF FIELD DATA AND ELEMENTAL CONCENTRATIONS FOR SAMPLES FROM THE THERMOPOLIS NTMS QUADRANGLE, WYOMING

APPENDIX I-A

Listings of Field Data and Uranium Concentrations
for Water Samples from the Thermopolis Quadrangle, Wyoming
(Pages 18 through 36)

(See Appendix IV-B for Code to Listings)

APPENDIX I-A. Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (W) UNITS IN ppb
56-	43.5950-	108.2125-	2-	07-		C-WC6035-08/05/76-11-	30-	21.C-	-	-		6.9-	3300-		9-1-7-4-6-3-3-1-	-4-	2-	1-	1-	-1-	-	-	-	-	-	-	-	-	-	-	26.5C*
56-	43.5736-	108.1394-	2-	08-		C-WC6037-08/05/76-12-	32-	15.5-	-	-		6.9-	2400-		9-1-7-	-	-	-	-1-	-4-	3-	1-	1-	-1-	5-	5-100-	60-				0.61
56-	43.7442-	108.5781-	2-	07-		C-WC6039-08/28/76-12-	28-	22.C-	-	-		6.3-	200-		19-1-7-4-6-2-3-1-2-2-3-2-1-				-1-	-		-	-								0.72
56-	43.7431-	108.5794-	2-	07-		C-WC6040-08/28/76-12-	28-	22.C-	-	-		6.6-	230-		14-1-7-4-6-2-3-1-2-2-2-2-1-				-1-	-		-	-								0.35
56-	43.7250-	108.5561-	2-	07-		C-WC6042-08/28/76-13-	28-	23.C-	-	-		6.8-	240-		16-1-7-4-6-2-3-1-2-2-2-2-1-				-1-	-		-	-								0.49
56-	43.7236-	108.5575-	2-	07-		C-WC6043-08/28/76-13-	28-	22.C-	-	-		6.9-	270-		11-1-7-4-6-2-3-1-2-2-2-2-1-				-1-	-		-	-								0.55
56-	43.7072-	108.5150-	2-	07-		C-WC6046-08/28/76-13-	28-	23.C-	-	-		6.9-	270-		14-1-7-4-6-2-3-1-2-2-3-2-1-				-1-	-		-	-								0.21
56-	43.7475-	108.8122-	2-	07-		C-WC6049-08/28/76-14-	30-	21.C-	-	-		6.6-	250-		11-1-7-4-6-2-3-1-2-2-2-2-1-				-1-	-		-	-								0.10
56-	43.6917-	108.5672-	2-	07-		C-WC6055-08/28/76-16-	30-	23.C-	-	-		6.9-	300-		9-1-7-4-6-2-3-1-2-	-	-	2-	1-	1-	-	-	-	-	-	-	-	-	-	-	0.61
56-	43.6722-	108.8622-	2-	07-		C-WC6061-08/28/76-17-	28-	22.C-	-	-		6.6-	250-		14-1-7-4-6-2-3-1-2-2-2-2-1-				-1-	-		-	-								0.51
56-	43.6669-	108.8556-	2-	07-		C-WC6063-08/28/76-17-	26-	23.C-	-	-		6.6-	300-		12-1-7-4-6-2-3-1-2-2-2-2-1-				-1-	-		-	-								0.96
56-	43.6892-	108.8414-	2-	07-		C-WC6064-08/28/76-17-	26-	22.C-	-	-		6.7-	270-		17-1-7-4-6-2-3-1-2-2-2-2-1-				-1-	-		-	-								0.80
56-	43.7094-	108.7439-	2-	07-		C-WC6067-08/28/76-17-	26-	23.5-	-	-		6.7-	350-		9-1-7-4-6-2-3-1-2-2-2-2-1-				-1-	-		-	-								1.07
56-	43.7075-	108.7150-	2-	07-		C-WC6068-08/28/76-18-	25-	23.C-	-	-		6.8-	250-		8-1-7-4-6-2-3-1-2-3-3-2-1-				-1-	-		-	-								1.33
56-	43.7358-	108.6417-	2-	07-		C-WC6072-08/28/76-18-	24-	23.C-	-	-		6.9-	360-		9-1-7-4-6-2-3-1-2-2-2-2-1-				-1-	-		-	-								0.97
56-	43.9167-	108.5333-	2-	07-		C-WC6084-08/19/76-14-	30-	18.C-	-	-		7.2-	3900-		11-1-7-4-6-2-2-2-2-3-3-2-1-				-1-	-		-	-								14.2C
56-	43.9486-	108.7083-	2-	07-		C-WC6092-08/19/76-16-	28-	17.5-	-	-		6.9-	700-		9-1-7-5-6-2-3-1-2-4-4-2-1-				-1-	-		-	-								2.6C
56-	43.9722-	108.7575-	2-	06-		C-WC6095-08/19/76-16-	30-	18.C-C-	-	-		7.8-	34000-		3-1-7-4-6-2-2-1-2-3-3-2-1-				-1-	-		-	-								2.57
56-	43.9917-	108.7411-	2-	07-		C-WC6096-08/19/76-17-	30-	19.C-	-	-		6.8-	800-		16-1-7-4-6-2-2-2-2-3-3-2-1-				-1-	-		-	-								2.19
56-	43.9953-	108.7417-	2-	08-		C-WC6098-08/19/76-17-	30-	14.C-	-	-		7.2-	1400-		11-1-7-	-	-	-	-1-	-4-	3-	2-	1-	-1-	3-	-	-	-				3.38
56-	43.9853-	108.7661-	2-	07-		C-WC6100-08/19/76-17-	30-	14.C-	-	-		6.9-	1000-		12-1-7-4-6-2-3-1-2-3-3-2-1-				-1-	-		-	-								2.95
56-	43.9611-	108.8350-	2-	07-		C-WC6103-08/19/76-18-	30-	14.C-	-	-		7.8-	900-		8-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								3.44
56-	43.9469-	108.8644-	2-	06-		C-WC6104-08/19/76-18-	30-	12.C-	-	-		7.6-	800-		9-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								3.6C
56-	43.9625-	108.8700-	2-	07-		C-WC6105-08/19/76-19-	25-	18.C-	-	-		7.8-	700-		11-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								3.55
56-	43.9531-	108.8986-	2-	07-		C-WC6106-08/19/76-19-	24-	17.C-	-	-		7.8-	700-		11-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								3.8C
56-	43.9328-	108.9325-	2-	06-		C-WC6109-08/19/76-19-	24-	15.C-	-	-		6.5-	430-		16-1-7-	-	-	-	-1-	-4-	2-	2-	1-	-1-	8-	-	-	-				3.77
56-	43.9144-	108.9269-	2-	07-		C-WC6109-08/19/76-19-	23-	15.C-	-	-		6.6-	310-		6-1-7-4-6-3-3-1-2-4-3-2-1-				-1-	-		-	-								2.63
56-	43.9161-	108.8900-	2-	07-		C-WC6111-08/20/76- 8-	18-	15.C-	-	-		6.6-	390-		9-1-7-4-6-2-3-1-2-3-3-2-1-				-1-	-		-	-								2.13
56-	43.9161-	108.8311-	2-	07-		C-WC6113-08/20/76- 8-	18-	15.C-	-	-		6.6-	400-		8-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								1.78
56-	43.9531-	108.7778-	2-	07-		C-WC6114-08/20/76- 9-	20-	16.C-	-	-		6.9-	500-		12-1-7-4-6-2-3-1-2-4-3-2-1-				-1-	-		-	-								1.2C
56-	43.9175-	108.7606-	2-	07-		C-WC6118-08/20/76- 9-	26-	16.C-	-	-		6.9-	550-		12-1-7-4-6-3-3-1-2-4-3-2-1-				-1-	-		-	-								1.27
56-	43.8981-	108.8061-	2-	06-		C-WC6121-08/20/76- 9-	26-	17.C-	-	-		7.2-	400-		17-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								5.1C
56-	43.8897-	108.7986-	2-	07-		C-WC6122-08/20/76- 9-	26-	15.C-	-	-		6.8-	500-		17-1-7-4-6-3-3-1-2-4-3-2-1-				-1-	-		-	-								2.55
56-	43.8400-	108.9000-	2-	06-		C-WC6125-08/20/76-10-	30-	14.C-	-	-		6.9-	350-		16-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								3.02
56-	43.8656-	108.9128-	2-	07-		C-WC6129-08/20/76-11-	32-	15.C-	-	-		6.6-	400-		11-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								1.58
56-	43.8611-	108.9256-	2-	07-		C-WC6130-08/20/76-11-	32-	13.C-	-	-		6.6-	400-		12-1-7-4-6-2-2-1-2-3-3-2-1-				-1-	-		-	-								1.75
56-	43.8600-	108.9411-	2-	07-		C-WC6131-08/20/76-11-	32-	17.C-	-	-		6.6-	340-		9-1-7-4-6-	-	-	-	-	-3-	3-	2-	1-	-1-	-	-	-	-				1.06
56-	43.8600-	108.9500-	2-	07-		C-WC6132-08/20/76-11-	32-	17.C-	-	-		6.8-	240-		4-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								0.10
56-	43.8661-	108.9631-	2-	07-		C-WC6133-08/20/76-11-	32-	15.C-	-	-		6.4-	240-		12-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								0.67
56-	43.8642-	108.9772-	2-	07-		C-WC6134-08/20/76-11-	32-	15.C-	-	-		6.3-	220-		11-1-7-4-6-3-3-1-3-3-3-2-1-				-1-	-		-	-								0.28
56-	43.8686-	108.9564-	2-	07-		C-WC6135-08/20/76-11-	32-	18.C-	-	-		6.5-	230-		9-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								0.21
56-	43.8414-	108.9456-	2-	06-		C-WC6136-08/20/76-12-	32-	-	-	-		7.2-	380-		11-1-7-5-7-3-3-1-2-3-3-2-1-				-1-	-		-	-								2.45
56-	43.8222-	108.9581-	2-	07-		C-WC6137-08/20/76-12-	32-	-	-	-		5.8-	130-		4-1-7-	-	-	-3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-				0.25
56-	43.8206-	108.9589-	2-	07-		C-WC6138-08/20/76-12-	32-	-	-	-		6.5-	150-		6-1-7-4-6-3-3-1-2-3-3-3-2-1-				-1-	-		-	-								0.24
56-	43.8675-	108.9347-	2-	07-		C-WC6139-08/20/76-12-	32-	18.C-	-	-		6.6-	300-		9-1-7-4-6-3-3-1-2-4-3-2-1-				-1-	-		-	-								1.33
56-	43.9731-	108.9814-	2-	06-		C-WC6140-08/24/76-13-	30-	13.C-	-	-		6.8-	300-		11-1-7-5-7-3-3-1-	-4-	2-	3-	1-	-1-	-	-	-	-	-	-	-	-	-	-	1.07
56-	43.9972-	108.9367-	2-	07-		C-WC6143-08/24/76-13-	30-	18.C-	-	-		6.9-	600-		12-1-7-5-6-3-3-1-2-4-3-3-1-				-1-	-		-	-								1.41
56-	43.7917-	108.6889-	2-	07-		C-WC6149-08/20/76-14-	32-	18.C-C-	-	-		6.C-	180-		11-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								0.15
56-	43.7728-	108.8433-	2-	07-		C-WC6151-08/20/76-15-	32-	17.C-	-	-		6.9-	390-		8-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								1.62
56-	43.7625-	108.7181-	2-	07-		C-WC6153-08/20/76-15-	26-	20.C-	-	-		6.8-	420-		16-1-7-4-6-3-3-1-2-3-3-2-1-				-1-	-		-	-								1.44
56-	43.8236-	108.7181-	2-	07-		C-WC6158-08/20/76-20-	22-	20.C-	-	-		6.5-	4100-		9-1-7-4-6-2-3-1-2-3-3-2-1-				-1-	-		-	-								9.8C*

APPENDIX I-A. (continued). 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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 OR DNC (#) UNITS IN ppb
36-43.8897-	108.7642-2-07-		0-WQ6162-	08/26/76-	12-	26-	18.0-	-	-	6.7-	850-	11-1-7-4-6-3-3-1-2-3-2-3-3-	-1-	-	-	-	-	2.19													
36-43.8611-	108.8158-2-07-		0-WQ6163-	08/26/76-	12-	26-	17.0-	-	-	6.8-	800-	9-1-7-6-7-3-3-1-2-3-3-2-3-	-1-	-	-	-	-	1.95													
36-43.8464-	108.8439-2-07-		0-WQ6164-	08/26/76-	12-	26-	17.0-	-	-	6.8-	700-	9-1-7-6-7-3-3-1-2-3-3-3-3-	-1-	-	-	-	-	3.43													
36-43.8303-	108.8278-2-06-		0-WQ6167-	08/26/76-	13-	20-	14.0-	-	-	6.5-	280-	9-1-7-6-6-	-	-1-	-3-2-3-3-	-1-	-	-	-	-	1.03											
36-43.8350-	108.8106-2-06-		0-WQ6168-	08/26/76-	13-	20-	14.0-	-	-	6.6-	300-	14-1-7-5-6-	-	-1-	-3-2-3-3-	-1-	-	-	-	-	2.18											
36-43.8472-	108.7856-2-06-		0-WQ6170-	08/26/76-	13-	20-	-	-	-	6.6-	320-	12-1-7-5-6-	-	-1-	-3-3-3-3-	-1-	-	-	-	-	2.27											
36-43.8425-	108.7617-2-07-		0-WQ6171-	08/26/76-	14-	20-	-	-	-	6.7-	390-	17-1-7-5-6-3-3-1-2-3-3-3-3-	-1-	-	-	-	-	1.69													
36-43.8319-	108.6833-2-06-		0-WQ6182-	08/26/76-	17-	22-	12.0-	0-	-	6.6-	800-	6-1-7-	-	-	-	-1-	-3-3-3-3-	-1-	-	-	-	3.48										
36-43.9139-	108.4917-2-07-		0-WQ6188-	08/30/76-	11-	30-	22.0-	-	-	7.2-	2500-	12-1-7-4-6-2-3-1-2-2-2-2-1-	-1-	-	-	-	-	8.64													
36-43.8639-	108.3708-2-07-		0-WQ6191-	08/30/76-	12-	30-	23.0-	-	-	7.2-	2600-	16-1-7-4-6-2-3-1-2-3-3-2-1-	-1-	-	-	-	-	15.00*													
36-43.8597-	108.3750-2-07-		0-WQ6192-	08/30/76-	12-	30-	22.0-	-	-	7.7-	4600-	9-1-7-4-6-2-3-1-2-2-2-2-1-	-1-	-	-	-	-	16.50*													
36-43.7133-	108.4175-2-08-		0-WQ6233-	08/31/76-	11-	28-	26.0-	-	-	7.2-	3500-	8-1-7-	-	-	-	-1-	-2-2-2-1-	-1-4-	-	-	-	34.10*										
36-43.6908-	108.3278-2-07-		0-WQ6237-	08/31/76-	12-	30-	23.0-	-	-	6.9-	4000-	12-1-7-4-6-2-3-1-2-3-3-2-1-	-1-	-	-	-	-	40.20*													
36-43.6492-	108.2333-2-06-		0-WQ6235-	08/31/76-	14-	32-	12.0-	-	-	6.6-	1700-	11-1-7-	-	-	-	-1-	-3-3-2-1-	-1-	-	-	-	6.79										
36-43.6414-	108.1053-2-07-		0-WQ6244-	08/31/76-	17-	26-	24.0-	-	-	6.5-	3000-	11-1-7-4-6-2-3-1-2-3-2-2-1-	-1-	-	-	-	-	16.50*													
36-43.5122-	108.0744-2-06-		0-WQ6248-	09/02/76-	10-	30-	15.0-	-	-	6.5-	330-	15-1-6-5-7-2-2-1-	-3-2-3-1-	-1-	-	-	-	0.51													
36-43.6161-	108.0889-2-06-		0-WQ6250-	09/02/76-	11-	34-	14.0-	-	-	6.3-	2000-	9-1-4-5-4-2-2-1-	-3-2-3-1-	-1-	-	-	-	14.90*													
36-43.6161-	108.0681-2-06-		0-WQ6251-	09/02/76-	11-	33-	13.0-	-	-	6.0-	1200-	9-1-4-5-4-2-2-1-	-3-2-3-1-	-1-	-	-	-	15.70*													
36-43.5239-	108.0361-2-07-		0-WQ6253-	09/02/76-	12-	31-	18.0-	-	-	6.5-	220-	12-1-6-5-6-2-2-1-1-3-2-3-1-	-1-	-	-	-	-	1.67													
36-43.5022-	108.0244-2-06-		0-WQ6254-	09/02/76-	13-	31-	13.0-	-	-	6.3-	310-	9-1-6-5-6-2-2-1-	-3-2-3-1-	-1-	-	-	-	0.64													
36-43.5933-	108.0461-2-08-		0-WQ6256-	09/02/76-	14-	35-	17.0-	-	-	6.3-	1800-	12-1-4-	-	-	-	-	-	-3-2-2-1-	-1-	-	-	-	26.90*									
36-43.5989-	108.0133-2-08-		0-WQ6257-	09/02/76-	14-	34-	14.0-	-	-	6.6-	12000-	9-1-4-	-	-	-	-1-	-3-2-2-1-	-1-	-	-	-	5.90*										
36-43.5942-	108.1589-2-06-		0-WQ6261-	09/02/76-	10-	26-	11.0-	-	-	6.9-	2200-	14-1-4-	-	-	-	-1-	-4-3-2-1-	-1-8-	-	-	-	49.20*										
36-43.6953-	108.1436-2-06-		0-WQ6267-	09/02/76-	11-	30-	13.0-	-	-	7.0-	3600-	8-1-7-6-8-2-	-1-	-4-2-3-1-	-1-	-	-	-	6.31													
36-43.7361-	108.0281-2-08-		0-WQ6270-	09/02/76-	12-	32-	18.0-	0-	-	8.1-	1900-	9-1-7-	-	-2-3-1-	-3-3-2-1-	-1-9-	-	-	-	0.54												
36-43.7322-	108.0047-2-08-		0-WQ6271-	09/02/76-	12-	32-	12.0-	0-	-	7.4-	900-	12-1-7-	-	-2-	-1-	-3-3-2-1-	-1-9-	-	-	-	0.20											
36-43.6944-	108.0031-2-08-		0-WQ6272-	09/02/76-	12-	32-	19.0-	0-	-	8.2-	1800-	8-1-7-	-	-2-	-1-	-3-2-2-1-	-1-9-	-	-	-	0.17											
36-43.6933-	108.0453-2-06-		0-WQ6275-	09/02/76-	13-	32-	12.0-	-	-	7.2-	3500-	16-1-7-4-4-2-	-1-	-3-3-2-1-	-1-	-	-	-	17.20*													
36-43.6486-	108.0458-2-06-		0-WQ6278-	09/02/76-	13-	32-	15.5-	-	-	7.1-	2600-	14-1-7-4-4-2-	-1-	-3-2-3-1-	-1-	-	-	-	17.00*													
36-43.7153-	108.1764-2-07-		0-WQ6280-	09/02/76-	14-	30-	14.0-	-	-	7.2-	1600-	6-1-7-4-6-2-3-1-2-2-2-1-1-	-1-	-	-	-	-	12.00*													
36-43.7019-	108.2258-2-07-		0-WQ6281-	09/02/76-	15-	30-	14.0-	-	-	7.2-	1800-	8-1-7-4-6-2-3-1-2-4-3-2-1-	-1-	-	-	-	-	12.90*													
36-43.6744-	108.2039-2-06-		0-WQ6285-	09/02/76-	15-	30-	52.0-	0-	-	8.3-	3000-	16-1-4-	-	-3-3-1-	-4-3-2-1-	-1-	-	-	-	0.92												
36-43.7508-	109.5778-2-07-		0-WQ6286-	06/07/77-	10-	14-	6.5-	0-	-	8.2-	55-	9-1-6-2-7-4-3-1-2-1-3-3-2-	-4-	-	-	-	-	0.30													
36-43.7117-	109.5842-2-07-		0-WQ6287-	06/07/77-	11-	25-	9.5-	-	-	8.0-	165-	13-1-6-3-6-3-3-1-2-2-2-2-2-	-1-	-	-	-	-	0.56													
36-43.4708-	109.9111-2-06-		0-WQ6288-	06/07/77-	10-	17-	5.0-	0-	-	5.7-	115-	2-1-1-5-6-3-3-1-2-4-3-4-3-	-1-	-	-	-	-	0.72													
36-43.4603-	109.9522-2-07-		0-WQ6289-	06/07/77-	10-	19-	10.0-	-	-	5.7-	180-	4-3-1-5-6-2-3-1-2-3-3-1-2-	-1-	-	-	-	-	0.21													
36-43.4789-	109.9772-2-07-		0-WQ6290-	06/07/77-	12-	20-	9.5-	-	-	5.5-	30-	20-3-7-1-7-4-4-2-2-3-4-2-2-	-1-	-	-	-	-	0.36													
36-43.4803-	109.9789-2-07-		0-WQ6291-	06/07/77-	12-	19-	8.5-	-	-	5.5-	31-	18-3-7-1-1-3-4-2-2-4-4-3-2-	-1-	-	-	-	-	0.15													
36-43.4769-	109.9906-2-07-		0-WQ6292-	06/07/77-	12-	20-	8.5-	-	-	5.5-	30-	13-3-7-1-1-3-4-2-2-4-4-3-2-	-1-	-	-	-	-	0.36													
36-43.4925-	109.9647-2-06-		0-WQ6295-	06/07/77-	15-	18-	15.0-	-	-	5.5-	150-	22-4- -3-6-3-3-1-2-4-3-2-2-	-1-	-	-	-	-	1.38													
36-43.5092-	109.9858-2-07-		0-WQ6296-	06/07/77-	16-	19-	12.5-	-	-	5.7-	180-	15-4- -2-7-2-2-1-2-2-3-3-2-	-1-	-	-	-	-	0.60													
36-43.5103-	109.9869-2-07-		0-WQ6297-	06/07/77-	16-	19-	12.0-	-	-	5.7-	160-	13-4- -2-7-2-2-1-2-2-3-3-4-	-1-	-	-	-	-	0.61													
36-43.4875-	109.9414-2-06-		0-WQ6298-	06/07/77-	16-	20-	12.5-	-	-	5.7-	95-	9-4- -2-1-2-3-1-2-2-3-2-2-	-1-	-	-	-	-	0.40													
36-43.4567-	109.8981-2-07-		0-WQ6299-	06/07/77-	17-	17-	16.5-	-	-	5.7-	35-	6-4- -2-7-3-3-2-2-2-4-2-3-	-1-	-	-	-	-	0.29													
36-43.4900-	109.8778-2-07-		0-WQ6300-	06/07/77-	17-	17-	11.5-	-	-	5.7-	31-	2-3-1-1-1-4-4-1-2-4-3-2-4-	-1-	-	-	-	-	0.19													
36-43.4892-	109.8508-2-07-		0-WQ6301-	06/07/77-	18-	16-	4.5-	0-	-	5.5-	29-	9-3-1-4-6-2-3-1-2-3-3-2-4-	-1-	-	-	-	-	0.40													
36-43.5558-	109.8722-2-07-		0-WQ6302-	06/08/77-	9-	14-	9.5-	-	-	5.5-	70-	4-1-1-2-1-4-3-1-2-1-3-4-1-	-1-	-	-	-	-	0.27													
36-43.5728-	109.8994-2-07-		0-WQ6304-	06/08/77-	10-	17-	8.5-	-	-	5.7-	160-	15-1-3-5-6-2-3-2-2-3-4-2-2-	-1-	-	-	-	-	0.52													
36-43.5822-	109.9256-2-07-		0-WQ6305-	06/08/77-	10-	18-	10.0-	-	-	5.9-	155-	4-1-3-2-3-3-2-1-2-3-4-2-2-	-1-	-	-	-	-	0.21													
36-43.5875-	109.9169-2-07-		0-WQ6306-	06/08/77-	11-	17-	13.0-	-	-	5.9-	160-	2-1-1-2-1-3-3-1-2-3-4-3-2-	-1-	-	-	-	-	0.47													
36-43.5817-	109.9669-2-07-		0-WQ6307-	06/08/77-	11-	16-	13.5-	-	-	5.7-	155-	4-1-1-3-1-3-3-1-2-3-4-3-2-	-1-	-	-	-	-	0.39													

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
							TIME SAMPLED																							
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (##) UNITS IN ppb
56-43.5917-109.9853-2-07-						0-WQ6308-06/08/77-12-			16-12.5-	-	-	-	5.7-	165-	4-4-	-5-6-2-3-1-2-4-4-2-2-	-1-	-	-	-	-										0.52
56-43.5933-109.9844-2-07-						0-WQ6309-06/08/77-12-			17-13.0-	-	-	-	5.7-	130-	9-4-	-2-1-4-3-1-2-3-4-2-2-	-1-	-	-	-	-										0.97
56-43.5911-109.9367-2-07-						0-WQ6310-06/08/77-12-			19-14.5-	-	-	-	5.9-	205-	4-	- -1-1-3-3-1-2-3-4-2-2-	-1-	-	-	-	-										0.36
56-43.5647-109.8403-2-07-						0-WQ6311-06/08/77-13-			19-11.0-	-	-	-	5.7-	110-	22-1-1-4-6-3-3-1-2-1-3-4-2-		-1-	-	-	-	-										1.25
56-43.4419-109.4681-2-07-						0-WQ6312-06/07/77- 9-			22- 9.5-	-	-	-	7.9-	650-	2-1-4-5-4-3-3-2-1-3-3-4-2-		-1-	-	-	-	-										0.39
56-43.4492-109.4756-2-07-						0-WQ6313-06/07/77- 9-			22-10.0-0-	-	-	-	7.5-	700-	1-1-4-5-4-3-3-2-2-3-3-4-2-		-1-	-	-	-	-										0.18
56-43.4242-109.5569-2-06-						0-WQ6314-06/07/77-11-			23-15.0-	-	-	-	7.0-	500-	3-1-7-5-8-1-2-5-3-3-4-5-3-		-1-	-	-	-	-										12.34
56-43.4653-109.5931-2-07-						0-WQ6318-06/07/77-13-			24-17.0-	-	-	-	8.4-	180-	2-3-4-4-6-3-3-2-2-3-3-4-2-		-1-	-	-	-	-										0.03
56-43.4972-109.5667-2-07-						0-WQ6320-06/07/77-14-			27-15.0-	-	-	-	7.8-	60-	3-3-4-4-4-4-4-1-2-2-4-2-2-		-1-	-	-	-	-										0.21
56-43.7092-109.3592-2-07-						0-WQ6334-06/09/77-12-			26-15.0-	-	-	-	6.3-	170-	2-3-7-4-7-3-3-2-1-2-3-5-2-		-1-	-	-	-	-										0.07
56-43.7014-109.3597-2-07-						0-WQ6335-06/09/77-13-			27-12.5-	-	-	-	6.5-	180-	3-3-7-4-7-3-3-2-1-2-3-5-2-		-1-	-	-	-	-										0.45
56-43.7033-109.3533-2-07-						0-WQ6336-06/09/77-13-			27-13.5-	-	-	-	6.8-	160-	2-3-7-4-7-3-3-2-3-3-4-5-2-		-1-	-	-	-	-										0.01
56-43.6947-109.3531-2-07-						0-WQ6337-06/09/77-14-			27-14.0-	-	-	-	6.3-	170-	4-3-7-4-7-3-3-2-1-2-4-5-2-		-1-	-	-	-	-										0.01
56-43.7056-109.4272-2-06-						0-WQ6338-06/09/77-15-			26-14.5-	-	-	-	6.8-	330-	4-1-7-5-7-3-3-2-1-2-3-3-2-		-1-	-	-	-	-										0.42
56-43.6433-109.4067-2-06-						0-WQ6342-06/09/77-17-			24-12.0-	-	-	-	6.5-	280-	5-3-4-4-4-2-2-1-1-2-4-4-2-		-1-	-	-	-	-										0.16
56-43.6128-109.6556-2-07-						0-WQ6347-06/09/77- 8-			22-12.5-0-	-	-	-	6.8-	600-	5-1-4-5-4-2-2-3-1-3-4-3-2-		-2-	-	-	-	-										1.17
56-43.5878-109.6303-2-07-						0-WQ6348-06/09/77- 9-			23-14.0-	-	-	-	6.5-	550-	6-1-4-5-4-2-2-3-1-3-4-3-2-		-1-	-	-	-	-										0.94
56-43.5297-109.6394-2-07-						0-WQ6354-06/09/77-12-			25-11.0-	-	-	-	7.0-	650-	7-1-4-4-4-3-3-2-1-3-4-3-2-		-1-	-	-	-	-										0.71
56-43.6792-109.5939-2-06-						0-WQ6355-06/07/77-11-			22-11.5-	-	-	-	7.2-	600-	13-4-	-5-6-2-2-1-2-3-3-4-2-	-3-	-	-	-	-										2.05
56-43.6467-109.5536-2-06-						0-WQ6356-06/07/77-12-			18- 9.5-	-	-	-	8.0-	290-	9-4-	-3-6-3-3-1-2-3-4-4-2-	-3-	-	-	-	-										0.35
56-43.6997-109.6114-2-06-						0-WQ6357-06/07/77-13-			20-13.5-	-	-	-	8.0-	340-	4-4-	-5-6-3-3-1-2-4-3-3-2-	-3-	-	-	-	-										2.15
56-43.6542-109.6142-2-07-						0-WQ6358-06/07/77-14-			17-18.5-	-	-	-	7.8-	430-	C-4-	-5-6-2-3-1-2-1-2-3-2-	-3-	-	-	-	-										1.36
56-43.7097-109.6400-2-07-						0-WQ6359-06/07/77-15-			16- 9.5-	-	-	-	8.0-	70-	9-4-	-1-6-3-3-1-2-1-4-5-2-	-1-	-	-	-	-										0.25
56-43.7400-109.6675-2-07-						0-WQ6360-06/07/77-15-			22-10.0-	-	-	-	7.8-	40-	9-4-	-2-7-4-3-1-2-1-4-4-2-	-1-	-	-	-	-										0.01
56-43.7406-109.6667-2-07-						0-WQ6361-06/07/77-15-			20- 7.5-	-	-	-	7.4-	18-	9-4-	-2-6-4-4-2-2-1-3-3-2-	-1-	-	-	-	-										0.02
56-43.7081-109.6875-2-07-						0-WQ6362-06/07/77-16-			20- 7.5-	-	-	-	7.2-	34-	9-4-	-2-6-3-4-2-2-1-3-3-4-	-1-	-	-	-	-										0.32
56-43.7022-109.6792-2-07-						0-WQ6363-06/07/77-17-			20-11.0-	-	-	-	7.6-	75-	-4-	-3-6-3-3-1-2-1-3-2-2-	-1-	-	-	-	-										0.01
56-43.6961-109.6692-2-07-						0-WQ6364-06/07/77-17-			22-10.0-	-	-	-	7.6-	70-	13-4-	-3-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-										0.03
56-43.6986-109.6650-2-07-						0-WQ6365-06/07/77-17-			22- 8.5-	-	-	-	7.6-	270-	4-4-	-3-6-3-4-2-1-1-3-3-2-	-1-	-	-	-	-										0.25
56-43.6725-109.6417-2-07-						0-WQ6366-06/07/77-18-			22-12.5-	-	-	-	7.2-	44-	13-1-4-3-6-3-3-2-1-2-3-3-2-		-1-	-	-	-	-										0.19
56-43.6258-109.9678-2-06-						0-WQ6367-06/08/77- 9-			18- 5.0-0-	-	-	-	8.0-	240-	9-4-	-3-7-3-2-1-2-1-3-5-1-	-1-	-	-	-	-										0.03
56-43.6464-109.8444-2-07-						0-WQ6369-06/08/77-11-			21-11.5-	-	-	-	8.2-	430-	9-1-4-4-6-3-3-1-2-3-3-2-2-		-3-	-	-	-	-										0.63
56-43.6561-109.8433-2-07-						0-WQ6369-06/08/77-11-			22-12.0-0-	-	-	-	8.4-	220-	22-1-1-4-6-2-3-2-2-4-3-2-2-		-3-	-	-	-	-										1.33
56-43.6561-109.8411-2-07-						0-WQ6370-06/08/77-11-			22-10.0-	-	-	-	8.2-	360-	9-4-	-5-6-2-3-1-2-3-4-3-2-	-3-	-	-	-	-										2.07
56-43.7128-109.8375-2-07-						0-WQ6371-06/08/77-12-			24-12.0-0-	-	-	-	8.6-	310-	4-4-	-3-1-3-3-1-2-2-3-2-2-	-3-	-	-	-	-										0.56
56-43.7256-109.8308-2-07-						0-WQ6372-06/08/77-12-			23- 8.5-	-	-	-	8.6-	28-	18-1-4-3-7-4-3-1-2-2-2-3-2-		-3-	-	-	-	-										0.49
56-43.6908-109.8100-2-07-						0-WQ6373-06/08/77-13-			24-16.0-	-	-	-	8.4-	42-	9-4-	-3-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-										0.18
56-43.7092-109.7853-2-07-						0-WQ6374-06/08/77-13-			24-12.0-0-	-	-	-	8.4-	38-	4-4-	-3-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-										0.22
56-43.6964-109.7942-2-07-						0-WQ6376-06/08/77-14-			22-11.5-	-	-	-	8.2-	32-	18-1-6-3-6-4-3-2-2-1-3-3-2-		-3-	-	-	-	-										0.01
56-43.6731-109.7717-2-07-						0-WQ6378-06/08/77-15-			20-16.5-	-	-	-	8.8-	140-	13-4-	-3-7-3-3-1-2-1-3-3-2-	-3-	-	-	-	-										0.57
56-43.6825-109.7564-2-06-						0-WQ6379-06/08/77-16-			20- 8.5-	-	-	-	8.2-	125-	9-4-	-4-6-3-3-1-2-1-3-2-2-	-3-	-	-	-	-										0.37
56-43.6922-109.7389-2-07-						0-WQ6380-06/08/77-16-			22-10.5-	-	-	-	8.4-	90-	9-4-	-3-6-3-3-3-2-1-3-3-2-	-3-	-	-	-	-										0.01
56-43.6667-109.5503-2-07-						0-WQ6383-06/09/77-10-			20- 7.5-	-	-	-	7.8-	430-	22-2-6-3-7-3-3-1-2-1-3-4-2-		-1-	-	-	-	-										4.08
56-43.6575-109.6544-2-07-						0-WQ6384-06/09/77-11-			23-11.5-	-	-	-	8.4-	150-	13-1-1-3-6-3-3-1-2-2-3-3-2-		-3-	-	-	-	-										0.05
56-43.6586-109.6939-2-06-						0-WQ6385-06/09/77-12-			20-14.5-	-	-	-	7.6-	600-	18-4-	-4-4-2-3-1-2-2-3-3-2-	-3-	-	-	-	-										2.98
56-43.6525-109.7164-2-07-						0-WQ6387-06/09/77-14-			22- 7.5-	-	-	-	8.2-	80-	9-4-	-3-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-										0.01
56-43.6533-109.7206-2-07-						0-WQ6388-06/09/77-14-			20- 8.0-	-	-	-	8.2-	140-	13-4-	-3-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-										0.01
56-43.6358-109.7247-2-07-						0-WQ6389-06/09/77-15-			20-10.0-	-	-	-	8.0-	220-	18-4-	-5-6-3-3-1-2-2-3-3-2-	-3-	-	-	-	-										0.37
56-43.6281-109.6542-2-07-						0-WQ6390-06/09/77-15-			19-15.0-	-	-	-	8.0-	550-	9-4-	-5-6-3-3-2-2-3-3-2-4-	-3-	-	-	-	-										1.39
56-43.6211-109.6058-2-07-						0-WQ6393-06/09/77-16-			17-14.0-	-	-	-	8.4-	900-	13-4-	-5-6-2-3-2-2-2-3-3-3-	-3-	-	-	-	-										0.41
56-43.6125-109.6100-2-07-						0-WQ6394-06/09/77-17-			17-16.5-	-	-	-	8.4-	500-	13-4-	-3-4-2-3-2-2-2-3-3-4-	-3-	-	-	-	-										2.41

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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 OR DNC (Ⓐ) UNITS IN ppb
56-	43.5431-	109.6728-	2-	07-		0-WO6395-	06/09/77-	12-	26-	12.0-	-	-	6.8-	650-	7-1-4-4-4-2-2-2-1-2-3-3-2-												-1-	-	-	-	-	3.16
56-43.	5394-	109.7258-	2-	07-		0-WO6396-	06/09/77-	13-	26-	11.5-	-	-	7.0-	600-	4-1-4-4-4-3-3-1-1-2-4-3-2-												-1-	-	-	-	-	4.76
56-43.	6161-	109.4719-	2-	07-		0-WO6397-	06/09/77-	14-	24-	10.0-	-	-	6.3-	120-	6-1-6-5-6-3-3-2-2-2-3-4-3-												-1-	-	-	-	-	0.03
56-43.	6292-	109.4803-	2-	07-		0-WO6398-	06/09/77-	14-	25-	12.0-	-	-	5.9-	150-	10-1-6-5-6-3-3-2-1-3-4-3-3-												-1-	-	-	-	-	0.47
56-43.	6319-	109.4592-	2-	06-		0-WO6399-	06/09/77-	15-	23-	10.5-	-	-	5.9-	110-	12-1-6-5-6-2-2-2-3-3-5-4-4-												-1-	-	-	-	-	0.36
56-43.	5461-	109.8094-	2-	07-		0-WO6400-	06/08/77-	14-	19-	12.0-	-	-	5.7-	155-	9-4- -5-6-3-3-1-2-1-3-4-2-												-1-	-	-	-	-	0.24
56-43.	5450-	109.8075-	2-	07-		0-WO6401-	06/08/77-	14-	18-	9.0-	-	-	5.5-	55-	6-2-7-1-7-4-4-1-2-1-3-4-2-												-1-	-	-	-	-	0.01
56-43.	5308-	109.7783-	2-	07-		0-WO6402-	06/08/77-	15-	18-	12.0-	-	-	5.5-	50-	15-2-7-2-7-3-3-2-1-2-1-3-3-2-												-1-	-	-	-	-	0.32
56-43.	5081-	109.8436-	2-	06-		0-WO6403-	06/08/77-	15-	13-	11.5-	-	-	5.5-	125-	9-4- -6-6-2-3-1-2-6-3-3-4-												-1-	-	-	-	-	0.19
56-43.	5158-	109.8617-	2-	06-		0-WO6404-	06/08/77-	16-	13-	11.0-	-	-	5.5-	130-	9-4- -6-6-2-3-1-2-6-4-3-4-												-1-	-	-	-	-	0.15
56-43.	5725-	109.8136-	2-	06-		0-WO6405-	06/09/77-	16-	19-	15.5-	-	-	6.5-	440-	2-4- -6-8-1-3-5-1-6-4-1-2-												-1-	-	-	-	-	1.08
56-43.	6081-	109.8358-	2-	07-		0-WO6409-	06/09/77-	10-	17-	10.0-	-	-	5.9-	510-	6-3-7-5-8-3-3-1-2-4-4-3-2-												-3-	-	-	-	-	0.24
56-43.	5894-	109.8428-	2-	07-		0-WO6411-	06/09/77-	11-	20-	23.0-	-	-	6.5-	800-	4-1-1-6-6-2-2-1-1-4-4-1-2-												-3-	-	-	-	-	0.03
56-43.	7206-	109.9725-	2-	07-		0-WO6412-	06/10/77-	10-	16-	6.0-	-	-	6.0-	220-	13-3-7-5-6-3-2-1-2-1-3-3-2-												-1-	-	-	-	-	0.16
56-43.	7242-	109.9831-	2-	07-		0-WO6413-	06/10/77-	11-	16-	6.5-	-	-	5.7-	55-	9-4- -2-7-4-3-2-2-1-3-4-2-												-1-	-	-	-	-	0.20
56-43.	7011-	109.9831-	2-	07-		0-WO6414-	06/10/77-	12-	16-	6.5-	-	-	5.7-	70-	18-4- -2-6-3-3-1-2-3-3-3-3-4-												-1-	-	-	-	-	0.29
56-43.	7014-	109.9814-	2-	07-		0-WO6415-	06/10/77-	12-	16-	9.0-	-	-	5.7-	65-	22-4- -1-1-4-3-3-2-3-4-3-3-												-1-	-	-	-	-	0.71
56-43.	6872-	109.9689-	2-	07-		0-WO6416-	06/10/77-	12-	14-	7.5-	-	-	6.0-	55-	6-4- -2-6-4-3-1-2-3-4-3-4-												-1-	-	-	-	-	0.65
56-43.	6306-	109.9219-	2-	07-		0-WO6418-	06/10/77-	10-	19-	8.0-	-	-	6.7-	90-	4-1-7-5-6-3-2-2-1-1-3-2-2-												-1-	-	-	-	-	0.79
56-43.	6297-	109.9208-	2-	07-		0-WO6419-	06/10/77-	11-	20-	6.0-	-	-	6.8-	255-	6-1-7-5-6-2-2-1-2-1-3-2-2-												-1-	-	-	-	-	1.12
56-43.	6622-	109.9856-	2-	06-		0-WO6420-	06/10/77-	12-	19-	6.0-	-	-	6.3-	70-	6-3-7-4-6-3-3-2-2-1-4-3-4-												-1-	-	-	-	-	0.54
56-43.	6653-	109.9653-	2-	07-		0-WO6421-	06/10/77-	12-	20-	7.5-	-	-	6.4-	70-	15-3-7-5-6-3-3-2-2-3-3-3-4-												-1-	-	-	-	-	0.83
56-43.	6569-	109.9078-	2-	07-		0-WO6422-	06/10/77-	13-	18-	9.0-	-	-	6.9-	290-	11-1-7-4-6-2-2-1-2-2-4-3-4-												-1-	-	-	-	-	2.44
56-43.	6783-	109.8769-	2-	07-		0-WO6423-	06/10/77-	13-	19-	9.5-	-	-	6.9-	235-	13-1-7-5-6-2-2-2-2-1-3-3-3-												-1-	-	-	-	-	1.16
56-43.	3908-	108.0842-	2-	07-		0-WO6426-	06/27/77-	11-	28-	26.3-	-	-	6.9-	510-	9-1-7-3-7-2-2-1-1-3-2-4-2-												-1-	-	-	-	-	2.18
56-43.	3911-	108.0858-	2-	07-		0-WO6427-	06/27/77-	11-	28-	19.0-	-	-	6.8-	460-	9-1-7-3-7-3-3-2-2-3-2-4-2-												-1-	-	-	-	-	1.91
56-43.	4447-	108.0892-	2-	06-		0-WO6432-	06/27/77-	14-	27-	24.2-	-	-	6.3-	263-	13-1-4-3-4-2-2-2-1-3-2-4-2-												-3-	-	-	-	-	0.15
56-43.	4756-	108.0847-	2-	07-		0-WO6433-	06/27/77-	15-	24-	20.1-	-	-	6.0-	140-	9-1-8-3-7-3-3-1-2-4-3-4-3-												-3-	-	-	-	-	0.08
56-43.	4972-	108.0822-	2-	07-		0-WO6434-	06/27/77-	15-	25-	19.2-	0-	-	6.3-	271-	9-1-1-3-6-2-2-3-2-4-3-3-3-												-3-	-	-	-	-	0.16
56-43.	1631-	109.9022-	2-	07-		0-WO6491-	07/25/77-	15-	16-	11.0-	-	-	5.9-	40-	-3-6-4-6-2-3-1-1-1-3-2-3-												-1-	-	-	-	-	0.07
56-43.	1642-	109.9039-	2-	07-		0-WO6492-	07/25/77-	14-	16-	12.0-	-	-	5.7-	40-	-3-6-4-6-3-3-1-2-1-3-3-3-												-1-	-	-	-	-	0.23
56-43.	4394-	109.8272-	2-	07-		0-WO6483-	07/26/77-	18-	14-	11.0-	-	-	5.7-	100-	-3-6-4-6-3-3-2-1-2-4-4-3-2-												-1-	-	-	-	-	0.01
56-43.	4336-	109.8242-	2-	07-		0-WO6484-	07/26/77-	18-	12-	7.0-	-	-	5.7-	100-	-3-6-4-6-3-2-1-2-3-3-2-2-												-1-	-	-	-	-	0.01
56-43.	4319-	109.8111-	2-	07-		0-WO6485-	07/26/77-	19-	11-	8.0-	-	-	5.7-	90-	-3-6-4-6-3-2-1-2-1-2-3-2-												-1-	-	-	-	-	0.01
56-43.	4306-	109.8114-	2-	07-		0-WO6486-	07/26/77-	19-	10-	9.0-	-	-	5.7-	90-	-3-6-4-6-3-2-1-2-1-3-3-2-												-1-	-	-	-	-	0.01
56-43.	3839-	109.9844-	2-	07-		0-WO6488-	07/25/77-	6-	10-	10.0-	-	-	5.9-	180-	-3-6-4-6-3-3-1-2-1-4-4-3-												-1-	-	-	-	-	0.50
56-43.	9383-	109.2169-	2-	07-		0-WO6489-	07/07/77-	0-	11-	9.0-	-	-	5.9-	140-	-3-6-4-6-3-2-1-2-1-3-3-1-												-1-	-	-	-	-	0.12
56-43.	9297-	109.2331-	2-	07-		0-WO6490-	07/07/77-	0-	11-	10.0-	-	-	5.7-	130-	-3-6-4-6-2-3-1-2-1-4-3-1-												-1-	-	-	-	-	0.04
56-43.	9217-	109.2450-	2-	07-		0-WO6491-	07/07/77-	0-	11-	8.0-	-	-	5.9-	150-	-3-6-4-6-3-2-1-2-1-3-3-1-												-1-	-	-	-	-	0.07
56-43.	9028-	109.2675-	2-	07-		0-WO6492-	07/07/77-	10-	14-	11.0-	-	-	5.9-	140-	-3-6-4-6-3-2-1-2-1-4-3-1-												-1-	-	-	-	-	0.51
56-43.	8978-	109.2767-	2-	07-		0-WO6493-	07/07/77-	11-	10-	12.0-	-	-	5.7-	140-	-3-6-4-6-2-3-1-2-1-5-3-1-												-1-	-	-	-	-	0.37
56-43.	8969-	109.2781-	2-	07-		0-WO6494-	07/07/77-	11-	16-	9.0-	-	-	5.9-	150-	-3-6-2-6-4-3-1-2-1-3-5-1-												-1-	-	-	-	-	0.52
56-43.	8953-	109.2772-	2-	07-		0-WO6495-	07/07/77-	11-	16-	9.0-	-	-	5.9-	130-	-3-6-2-6-3-2-1-2-1-2-5-1-												-1-	-	-	-	-	0.58
56-43.	8822-	109.2839-	2-	07-		0-WO6496-	07/07/77-	13-	18-	10.0-	-	-	5.9-	150-	-3-6-4-6-3-2-1-2-4-3-3-1-												-1-	-	-	-	-	0.49
56-43.	8781-	109.2975-	2-	07-		0-WO6497-	07/07/77-	13-	17-	12.0-	-	-	5.9-	140-	-3-6-3-6-3-3-1-2-1-4-3-1-												-1-	-	-	-	-	0.54
56-43.	8725-	109.2981-	2-	07-		0-WO6498-	07/07/77-	14-	19-	12.0-	-	-	5.7-	130-	-3-6-3-6-2-3-1-3-1-4-3-1-												-1-	-	-	-	-	0.21
56-43.	8722-	109.3039-	2-	07-		0-WO6499-	07/07/77-	13-	19-	12.0-	-	-	5.9-	150-	-3-6-2-6-2-3-1-2-1-5-3-1-												-1-	-	-	-	-	0.69
56-43.	8611-	109.3253-	2-	07-		0-WO6500-	07/07/77-	15-	19-	9.0-	-	-	5.9-	130-	-3-6-4-6-2-3-1-2-1-4-3-1-												-1-	-	-	-	-	0.02
56-43.	8583-	109.3281-	2-	07-		0-WO6501-	07/07/77-	15-	18-	10.0-	-	-	5.7-	150-	-3-6-4-6-2-3-1-2-1-4-3-1-												-1-	-	-	-	-	0.01
56-43.	8592-	109.3294-	2-	07-		0-WO6502-	07/07/77-	15-	17-	9.0-	-	-	5.7-	440-	-3-6-4-6-2-3-1-2-4-3-2-1-												-1-	-	-	-	-	0.18
56-43.	8544-	109.3381-	2-	06-		0-WO6503-	07/07/77-	16-	19-	12.0-	-	-	5.7-	140-	-2-6-4-6-3-2-1-2-1-3-3-1-												-1-	-	-	-	-	0.22

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
STATE	LATITUDE	LONGITUDE	DOE LAD	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (θ) UNITS IN ppb
							DATE	HOUR																									
56-43.9456-109.0711-2-07-						0-W06504-07/07/77-20-		12-	8.0-	-	-	6.1-	160-		-3-6-4-6-3-2-1-2-4-3-3-1-											-1-	-	-	-	-	0.49
56-43.9928-109.0911-2-07-						0-W06505-07/07/77-21-		12-	11.0-	-	-	6.8-	430-		-3-6-4-6-3-2-1-1-2-3-2-1-											-1-	-	-	-	-	1.32
56-43.9469-109.1011-2-06-						0-W06506-07/07/77-20-		14-	6.0-	-	-	6.3-	140-		-3-6-5-6-2-3- -2-4-3-3-1-											-1-	-	-	-	-	0.59
56-43.9847-109.1131-2-07-						0-W06507-07/07/77-21-		12-	9.0-	-	-	6.8-	440-		-1-6-4-6-2-3-1-2-2-3-2-1-											-1-	-	-	-	-	0.68
56-43.9911-109.1378-2-07-						0-W06508-07/07/77-22-		13-	9.0-	-	-	6.6-	440-		-1-6-4-6-2-3-1-3-2-3-3-1-											-1-	-	-	-	-	1.32
56-43.9897-109.1356-2-07-						0-W06509-07/07/77-22-		12-	9.0-	-	-	6.6-	440-		-1-6-4-6-2-3-1-2-2-3-2-1-											-1-	-	-	-	-	0.53
56-43.9336-109.7500-2-07-						0-W06510-07/06/77-13-		22-14.0-		-	-	5.7-	130-		-2-6-4-6-2-2-1-3-4-2-2-1-											-1-	-	-	-	-	0.29
56-43.9300-109.7692-2-07-						0-W06511-07/06/77-13-		22-11.0-		-	-	5.7-	95-		-2-6-4-6-2-2-1-2-3-3-2-1-											-1-	-	-	-	-	0.01
56-43.9328-109.7856-2-07-						0-W06512-07/06/77-13-		22-10.0-		-	-	5.7-	100-		-2-6-2-6-3-3-1-2-1-3-3-1-											-1-	-	-	-	-	0.19
56-43.9342-109.7858-2-07-						0-W06513-07/06/77-13-		20-11.0-		-	-	5.7-	175-		-2-6-3-6-3-2-1-2-1-4-3-1-											-1-	-	-	-	-	0.26
56-43.9342-109.8175-2-07-						0-W06514-07/06/77-13-		21-11.0-		-	-	5.7-	80-		-2-6-2-6-4-2-1-2-3-3-4-1-											-1-	-	-	-	-	0.21
56-43.9328-109.8186-2-07-						0-W06515-07/06/77-13-		21-11.0-		-	-	5.7-	95-		-2-6-2-6-4-2-1-2-3-3-4-1-											-1-	-	-	-	-	0.01
56-43.8875-109.7600-2-07-						0-W06516-07/06/77-14-		24-10.0-		-	-	5.7-	160-		-2-6-3-6-3-2-1-2- -3-4-1-											-1-	-	-	-	-	0.01
56-43.8783-109.7614-2-07-						0-W06517-07/06/77-14-		22- 9.0-		-	-	5.7-	95-		-2-6-2-6-3-2-1-2-4-2-4-1-											-1-	-	-	-	-	0.29
56-43.8756-109.7750-2-07-						0-W06518-07/06/77-14-		21-11.0-		-	-	5.7-	90-		-2-6-4-6-3-2-1-2-1-2-3-1-											-1-	-	-	-	-	0.29
56-43.8478-109.7811-2-07-						0-W06519-07/06/77-15-		20-12.0-		-	-	5.7-	100-		-2-6-4-6-3-2-1-2-3-4-3-1-											-1-	-	-	-	-	0.18
56-43.8444-109.7872-2-07-						0-W06520-07/06/77-15-		19- 9.0-		-	-	5.7-	80-		-2-6-4-6-3-2-1-2-3-4-3-1-											-1-	-	-	-	-	0.01
56-43.8439-109.7897-2-07-						0-W06521-07/06/77-15-		19- 9.0-		-	-	5.7-	70-		-2-6-4-6-3-2-1-2-3-4-3-1-											-1-	-	-	-	-	0.46
56-43.8458-109.7906-2-07-						0-W06522-07/06/77-15-		21- 9.0-		-	-	5.7-	60-		-2-6-2-4-4-2-1-2-4-2-3-1-											-1-	-	-	-	-	0.22
56-43.8592-109.7331-2-07-						0-W06523-07/06/77-16-		12-11.0-		-	-	5.7-	100-		-2-6-4-6-3-2-1-2-3-1-4-1-											-1-	-	-	-	-	0.01
56-43.8647-109.6939-2-07-						0-W06524-07/06/77-16-		14-11.0-		-	-	5.7-	180-		-2-6-4-6-3-2-1-2-1-3-3-1-											-1-	-	-	-	-	0.47
56-43.8647-109.6917-2-07-						0-W06525-07/06/77-18-		14-11.0-		-	-	5.7-	160-		-2-6-4-6-3-2-1-2-1-3-3-1-											-1-	-	-	-	-	0.60
56-43.8761-109.1956-2-07-						0-W06526-07/07/77-16-		23-10.0-		-	-	5.7-	140-		-3-6-3-6-3-2-1-2-1-4-3-1-											-1-	-	-	-	-	0.70
56-43.9147-109.1731-2-07-						0-W06527-07/07/77-17-		23- 9.0-		-	-	5.7-	130-		-3-6-3-6-2-3-1-2-1-4-3-1-											-1-	-	-	-	-	0.42
56-43.9161-109.1722-2-07-						0-W06528-07/07/77-17-		23- 9.0-		-	-	5.7-	130-		-3-6-4-6-2-3-1-2-1-4-3-1-											-1-	-	-	-	-	0.17
56-43.9278-109.1381-2-07-						0-W06529-07/07/77-18-		19-11.0-		-	-	5.9-	130-		-3-6-4-6-2-3-1-2-1-3-2-1-											-1-	-	-	-	-	0.65
56-43.9342-109.1414-2-07-						0-W06530-07/07/77-19-		16-11.0-		-	-	5.7-	130-		-3-6-1-6-2-2-1-2-4-2-3-1-											-1-	-	-	-	-	0.29
56-43.9789-109.0572-2-07-						0-W06532-07/07/77-	-	13-	9.0-	-	-	6.6-	440-		-1-6-4-6-2-3-1-2-2-3-2-1-											-1-	-	-	-	-	0.29
56-43.9033-109.3306-2-07-						0-W06533-07/08/77-16-		20-11.0-		-	-	6.1-	120-		-1-6-4-6-3-2-1-2-1-4-3-1-											-1-	-	-	-	-	0.03
56-43.6828-109.4617-2-07-						0-W06534-07/11/77-11-		23-17.0-		-	-	5.7-	90-		-1-6-4-6-3-2-1-2-2-3-2-1-											-1-	-	-	-	-	0.02
56-43.8903-109.5400-2-07-						0-W06535-07/09/77-12-		23- 9.0-		-	-	5.7-	40-		-1-6-4-6-2-2-1-2-1-3-3-1-											-1-	-	-	-	-	0.17
56-43.8961-109.5531-2-07-						0-W06536-07/09/77-12-		23-11.0-		-	-	5.5-	40-		-1-6-4-6-3-3-2-2-1-3-2-1-											-1-	-	-	-	-	0.28
56-43.8992-109.5061-2-07-						0-W06537-07/09/77-13-		21- 8.0-		-	-	5.7-	35-		-1-6-4-6-2-3-1-2-1-4-2-1-											-1-	-	-	-	-	0.01
56-43.8044-109.2317-2-07-						0-W06538-07/07/77-13-		16-10.0-		-	-	6.3-	200-		-3-6-2-6-3-3-1-2-1-3-3-1-											-1-	-	-	-	-	0.93
56-43.8047-109.2297-2-07-						0-W06539-07/07/77-13-		16-11.0-		-	-	6.2-	200-		-3-6-4-6-2-3-1-2-1-4-2-1-											-1-	-	-	-	-	0.13
56-43.8219-109.2078-2-07-						0-W06540-07/07/77-13-		16-12.0-		-	-	6.2-	190-		-3-6-2-6-3-2-1-2-1-4-3-1-											-1-	-	-	-	-	0.13
56-43.8200-109.2058-2-07-						0-W06541-07/07/77-13-		16-12.0-		-	-	6.2-	190-		-3-6-2-6-3-2-1-2-1-4-3-1-											-1-	-	-	-	-	0.03
56-43.8256-109.1617-2-07-						0-W06542-07/07/77-13-		13-11.0-		-	-	6.3-	200-		-3-6-4-6-3-2-1-2-1-4-3-1-											-1-	-	-	-	-	0.14
56-43.8253-109.1597-2-07-						0-W06543-07/07/77-13-		13- 9.0-		-	-	6.1-	180-		-3-6-4-6-3-2-1-2-1-3-3-1-											-1-	-	-	-	-	0.41
56-43.8750-109.1956-2-07-						0-W06544-07/07/77-16-		23-10.0-		-	-	5.9-	130-		-3-6-2-6-3-2-1-2-1-3-3-1-											-1-	-	-	-	-	0.26
56-43.8603-109.1917-2-07-						0-W06545-07/07/77-16-		19-10.0-		-	-	5.9-	140-		-3-6-4-6-3-2-1-2-1-2-3-1-											-1-	-	-	-	-	0.22
56-43.8428-109.2453-2-07-						0-W06546-07/07/77-15-		17- 9.0-		-	-	6.9-	130-		-3-6-2-6-3-2-1-2-1-3-4-1-											-1-	-	-	-	-	0.07
56-43.8419-109.2472-2-07-						0-W06547-07/07/77-15-		17-10.0-		-	-	6.3-	130-		-3-6-4-6-3-3-1-2-1-4-3-1-											-1-	-	-	-	-	0.24
56-43.8303-109.2686-2-07-						0-W06548-07/07/77-15-		17- 9.0-		-	-	6.1-	180-		-3-6-3-6-2-2-1-2- -4-3-1-											-1-	-	-	-	-	0.18
56-43.8294-109.2664-2-07-						0-W06549-07/07/77-15-		16-10.0-		-	-	6.3-	200-		-3-6-4-6-3-2-1-2-3-3-4-1-											-1-	-	-	-	-	0.55
56-43.8275-109.1589-2-07-						0-W06550-07/07/77-12-		13- 9.0-		-	-	6.1-	185-		-3-6-4-6-2-3-1-2-1-3-4-1-											-1-	-	-	-	-	0.37
56-43.8417-109.1714-2-07-						0-W06551-07/07/77-12-		13- 9.0-		-	-	6.3-	190-		-3-6-4-6-3-4-1-2-3-3-3-1-											-1-	-	-	-	-	0.18
56-43.8639-109.1436-2-07-						0-W06552-07/07/77-11-		14-12.0-		-	-	6.3-	190-		-3-6-2-6-3-3-1-2-1-3-3-1-											-1-	-	-	-	-	0.09
56-43.8642-109.1408-2-07-						0-W06553-07/07/77-11-		14-12.0-		-	-	6.1-	200-		-3-6-4-6-3-2-1-2-1-3-3-1-											-1-	-	-	-	-	0.07
56-43.8633-109.1294-2-07-						0-W06554-07/07/77-10-		13-11.0-		-	-	6.1-	190-		-3-6-4-6-3-2-1-2-1-4-2-1-											-1-	-	-	-	-	0.16
56-43.8889-109.1308-2-07-						0-W06555-07/07/77-10-		13- 9.0-		-	-	6.1-	200-		-3-6-3-6-2-2-1-2-1-3-3-1-											-1-	-	-	-	-	0.34

APPENDIX I-A. (continued). 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (H) UNITS IN ppb
56-43.9108-109.0933-2-07-						0-WQ6554-07/07/77-	9-	11-11.0-	-	-	6.3-	190-		-3-6-3-6-3-2-1-2-4-3-3-1-	-1-	-	-	-	-										0.57
56-43.9114-109.0911-2-07-						0-WQ6557-07/07/77-	9-	11-11.0-	-	-	6.1-	190-		-3-6-3-6-3-2-1-2-4-3-3-1-	-1-	-	-	-	-										0.37
56-43.9919-109.6572-2-07-						0-WQ6559-07/06/77-	9-	16-13.0-	-	-	5.7-	60-		-2-6-4-6-2-2-1-1-3-4-2-1-	-1-	-	-	-	-										0.54
56-43.9853-109.7239-2-07-						0-WQ6560-07/06/77-	9-	18-11.0-	-	-	5.7-	160-		-2-6-4-6-2-2-1-2-2-2-3-1-	-1-	-	-	-	-										0.51
56-43.9839-109.7250-2-07-						0-WQ6560-07/06/77-	9-	18-11.0-	-	-	5.7-	160-		-2-6-4-6-2-2-1-2-1-3-2-1-	-1-	-	-	-	-										0.63
56-43.9550-109.6842-2-07-						0-WQ6561-07/06/77-10-		16-11.0-	-	-	5.7-	105-		-2-6-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-										0.01
56-43.9539-109.6856-2-07-						0-WQ6562-07/06/77-10-		16-14.0-	-	-	5.7-	160-		-2-6-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-										0.01
56-43.9589-109.6669-2-07-						0-WQ6563-07/06/77-10-		16-12.0-	-	-	5.7-	60-		-2-6-2-6-2-2-1-1-3-2-2-1-	-1-	-	-	-	-										0.20
56-43.9581-109.6653-2-07-						0-WQ6564-07/06/77-10-		17-12.0-	-	-	5.7-	70-		-2-6-3-6-3-2-1-2-1-4-2-1-	-1-	-	-	-	-										0.03
56-43.9319-109.6844-2-07-						0-WQ6565-07/06/77-11-		20-10.0-	-	-	5.7-	160-		-2-6-2-6-4-3-1-2-1-2-3-1-	-1-	-	-	-	-										0.27
56-43.9197-109.6908-2-07-						0-WQ6566-07/06/77-11-		18- 9.0-	-	-	5.7-	140-		-2-6-3-6-3-3-1-2-3-5-4-1-	-1-	-	-	-	-										0.34
56-43.9186-109.6897-2-07-						0-WQ6567-07/06/77-11-		18- 9.0-	-	-	5.7-	90-		-2-6-3-6-3-3-1-2-3-5-4-1-	-1-	-	-	-	-										0.01
56-43.9508-109.7269-2-07-						0-WQ6568-07/06/77-12-		20-11.0-	-	-	5.7-	100-		-2-4-4-6-2-2-1-1-2-4-2-1-	-1-	-	-	-	-										0.01
56-43.9625-109.7617-2-07-						0-WQ6569-07/06/77-12-		20-10.0-0-	-	-	5.7-	20-		-2-6-4-6-3-2-1-2-2-3-3-1-	-1-	-	-	-	-										0.01
56-43.9597-109.7628-2-07-						0-WQ6570-07/06/77-12-		20-11.0-	-	-	5.7-	60-		-2-6-4-6-3-2-1-2-3-4-4-1-	-1-	-	-	-	-										0.01
56-43.0117-109.6575-2-07-						0-WQ6571-07/23/77-11-		25-12.0-	-	-	5.6-	35-		-3-7-1-7-3-3-1-2-1-3-5-2-	-1-	-	-	-	-										0.02
56-43.0194-109.6686-2-07-						0-WQ6572-07/23/77-12-		25-12.0-	-	-	5.6-	15-		-3-7-3-1-3-3-1-2-1-3-5-2-	-1-	-	-	-	-										0.09
56-43.0172-109.6758-2-07-						0-WQ6573-07/23/77-11-		25-12.0-	-	-	5.6-	36-		-3-7-1-7-3-3-1-2-1-3-5-2-	-1-	-	-	-	-										0.09
56-43.0258-109.5947-2-07-						0-WQ6574-07/23/77-12-		25-12.0-	-	-	5.6-	15-		-3-1-3-1-3-3-1-2-1-3-5-2-	-1-	-	-	-	-										0.11
56-43.0403-109.5903-2-07-						0-WQ6575-07/23/77-12-		25-12.0-	-	-	5.6-	15-		-3-7-2-7-3-3-1-2-1-3-5-2-	-1-	-	-	-	-										0.07
56-43.0467-109.5992-2-07-						0-WQ6576-07/23/77-12-		25-12.0-	-	-	5.6-	12-		-3-7-2-7-3-3-1-2-1-3-5-2-	-1-	-	-	-	-										0.09
56-43.0306-109.7578-2-07-						0-WQ6577-07/23/77-11-		23-10.0-	-	-	5.6-	15-		-3-6-2-6-4-3-1-2-1-2-4-2-	-1-	-	-	-	-										0.21
56-43.0336-109.7556-2-07-						0-WQ6578-07/23/77-12-		23-13.0-	-	-	5.7-	20-		-3-6-2-6-4-3-1-2-1-3-4-2-	-1-	-	-	-	-										0.31
56-43.0353-109.7569-2-07-						0-WQ6579-07/23/77-12-		21-16.0-	-	-	5.5-	15-		-3-6-2-6-4-3-1-2-1-3-4-2-	-1-	-	-	-	-										0.20
56-43.0372-109.7622-2-07-						0-WQ6580-07/23/77-12-		24-11.0-	-	-	5.5-	15-		-3-6-1-6-4-3-1-2-1-3-4-2-	-1-	-	-	-	-										0.03
56-43.0442-109.8239-2-07-						0-WQ6581-07/23/77-13-		23-16.0-	-	-	5.6-	35-		-3-6-3-6-4-2-1-2-1-3-4-3-	-1-	-	-	-	-										0.11
56-43.1331-109.6422-2-07-						0-WQ6582-07/23/77-14-		23-16.0-	-	-	5.5-	10-		-3-7-3-1-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.38
56-43.1342-109.6403-2-07-						0-WQ6583-07/23/77-14-		23-16.0-	-	-	5.5-	10-		-3-7-3-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.68
56-43.1142-109.6719-2-07-						0-WQ6584-07/23/77-14-		23-16.0-	-	-	5.7-	50-		-3-7-3-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.01
56-43.0847-109.6653-2-07-						0-WQ6585-07/23/77-17-		20-14.0-	-	-	5.6-	15-		-3-6-2-7-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.11
56-43.0883-109.7964-2-07-						0-WQ6586-07/23/77-14-		23-16.0-	-	-	5.6-	15-		-3-1-4-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.33
56-43.1114-109.7719-2-07-						0-WQ6587-07/23/77-15-		23-16.0-	-	-	5.6-	30-		-3-7-4-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.16
56-43.0822-109.8194-2-07-						0-WQ6588-07/23/77-14-		23-16.0-	-	-	5.7-	35-		-3-1-3-1-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.28
56-43.0836-109.6642-2-07-						0-WQ6589-07/23/77-17-		20-14.0-	-	-	5.6-	15-		-3-6-2-7-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.31
56-43.1242-109.7364-2-07-						0-WQ6590-07/23/77-15-		23-16.0-	-	-	5.4-	15-		-3-6-3-7-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.48
56-43.1189-109.7264-2-07-						0-WQ6591-07/23/77-15-		23-16.0-	-	-	5.4-	15-		-3-6-3-7-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.41
56-43.0956-109.7425-2-07-						0-WQ6592-07/23/77-15-		23-16.0-	-	-	5.5-	15-		-3-6-3-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.37
56-43.1317-109.6844-2-07-						0-WQ6593-07/23/77-15-		23-16.0-	-	-	5.8-	45-		-3-7-3-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.55
56-43.1294-109.7003-2-07-						0-WQ6594-07/23/77-15-		23-16.0-	-	-	5.6-	15-		-3-6-3-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.18
56-43.1283-109.7400-2-07-						0-WQ6595-07/23/77-15-		23-16.0-	-	-	5.8-	45-		-3-6-4-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.36
56-43.0844-109.8281-2-07-						0-WQ6596-07/23/77-14-		23-16.0-	-	-	5.7-	35-		-3-1-3-1-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.35
56-43.0350-109.8592-2-07-						0-WQ6597-07/23/77-14-		23-16.0-	-	-	5.7-	15-		-3-7-4-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.02
56-43.0456-109.8233-2-07-						0-WQ6598-07/23/77-13-		23-16.0-	-	-	5.7-	30-		-3-6-3-1-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.04
56-43.0442-109.7903-2-07-						0-WQ6599-07/23/77-13-		23-16.0-	-	-	5.5-	15-		-3-6-3-6-4-2-1-2-1-3-4-3-	-1-	-	-	-	-										0.18
56-43.0253-109.7775-2-07-						0-WQ6600-07/23/77-11-		20-11.0-	-	-	5.6-	15-		-3-6-3-6-3-3-2-1-2-1-3-3-4-	-1-	-	-	-	-										0.18
56-43.0208-109.7689-2-07-						0-WQ6601-07/23/77-11-		20-13.0-	-	-	5.8-	50-		-3-6-4-7-2-2-1-2-2-3-3-2-	-1-	-	-	-	-										0.01
56-43.0819-109.6278-2-07-						0-WQ6602-07/23/77-17-		20-14.0-	-	-	5.6-	15-		-3-1-2-1-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.03
56-43.0939-109.6289-2-07-						0-WQ6603-07/23/77-17-		20-14.0-	-	-	5.7-	10-		-3-1-3-1-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.26
56-43.0972-109.6317-2-07-						0-WQ6604-07/23/77-17-		20-14.0-	-	-	5.7-	10-		-3-1-3-1-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.27
56-43.0431-109.6722-2-07-						0-WQ6605-07/23/77-18-		20-14.0-	-	-	5.5-	15-		-3-7-3-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.25
56-43.0406-109.6750-2-07-						0-WQ6606-07/23/77-18-		20-14.0-	-	-	5.5-	15-		-3-7-3-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-										0.03

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																									
STATE	LATITUDE	LONGITUDE	DOE LAD	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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 OR DNC (W) UNITS IN ppb
56-43.3850-109.9731-2-07-						0-WQ6608-07/25/77- 6-			10-10.0-	-	-		6.2-	315-		-3-6-4-6-3-4-1-2-1-4-4-3-		-1-	-	-	-	-	0.01								
56-43.3819-109.9711-2-07-						0-WQ6609-07/25/77- 6-			10-10.0-	-	-		6.3-	325-		-3-6-4-6-3-4-1-2-1-4-4-3-		-1-	-	-	-	-	0.21								
56-43.4194-109.8519-2-07-						0-WQ6610-07/25/77- 7-			10-10.0-	-	-		6.2-	415-		-3-6-2-6-3-3-1-2-1-4-4-3-		-1-	-	-	-	-	0.70								
56-43.3678-109.8686-2-07-						0-WQ6611-07/25/77- 8-			10-10.0-	-	-		6.0-	180-		-3-7-2-7-3-3-1-2-1-4-4-3-		-1-	-	-	-	-	0.20								
56-43.3161-109.8519-2-07-						0-WQ6612-07/25/77-10-			15-10.0-	-	-		5.7-	43-		-3-6-3-6-3-3-1-2-1-4-3-3-		-1-	-	-	-	-	0.32								
56-43.2933-109.8092-2-07-						0-WQ6613-07/25/77-10-			15-10.0-	-	-		6.7-	485-		-3-7-3-6-3-3-1-2-1-4-3-3-		-1-	-	-	-	-	0.20								
56-43.4178-109.8922-2-07-						0-WQ6614-07/25/77- 7-			10-10.0-	-	-		6.2-	415-		-3-6-2-6-3-3-1-2-1-4-4-3-		-1-	-	-	-	-	0.23								
56-43.3017-109.8011-2-07-						0-WQ6615-07/25/77-10-			15-10.0-	-	-		6.3-	415-		-3-6-4-6-3-3-1-2-1-3-3-3-		-1-	-	-	-	-	0.13								
56-43.3025-109.7994-2-07-						0-WQ6616-07/25/77-10-			15-10.0-	-	-		6.8-	500-		-3-6-3-6-3-3-1-2-1-4-3-3-		-1-	-	-	-	-	0.29								
56-43.3081-109.7811-2-07-						0-WQ6617-07/25/77-10-			15-10.0-	-	-		5.7-	1000-		-3-6-3-6-3-3-1-2-1-4-3-2-		-1-	-	-	-	-	0.17								
56-43.3114-109.7644-2-07-						0-WQ6618-07/25/77-11-			15-10.0-	-	-		6.5-	600-		-3-6-3-6-3-3-1-2-1-4-3-2-		-1-	-	-	-	-	1.38								
56-43.2528-109.8147-2-07-						0-WQ6619-07/25/77- 7-			9-11.0-	-	-		5.7-	50-		-3-6-4-6-3-2-1-3-1-3-3-3-		-1-	-	-	-	-	0.55								
56-43.2417-109.8067-2-07-						0-WQ6620-07/25/77- 7-			10-12.0-	-	-		5.9-	610-		-3-6-3-6-3-3-2-2-1-3-3-3-		-1-	-	-	-	-	0.68								
56-43.2311-109.7803-2-07-						0-WQ6621-07/25/77- 8-			11-11.0-	-	-		6.5-	590-		-3-6-4-6-3-3-2-1-1-3-2-3-		-1-	-	-	-	-	0.63								
56-43.2261-109.7631-2-07-						0-WQ6622-07/25/77- 8-			12-12.0-	-	-		6.3-	600-		-3-6-3-6-3-3-1-1-1-4-3-3-		-1-	-	-	-	-	1.07								
56-43.2253-109.7619-2-07-						0-WQ6623-07/25/77- 8-			14-10.0-	-	-		6.5-	600-		-3-6-3-6-3-3-1-2-1-4-4-3-		-1-	-	-	-	-	0.56								
56-43.2106-109.7556-2-07-						0-WQ6624-07/25/77- 8-			12-13.0-	-	-		5.7-	1000-		-3-6-4-6-2-3-1-1-1-3-3-3-		-1-	-	-	-	-	0.01								
56-43.2039-109.7417-2-07-						0-WQ6625-07/25/77- 8-			12-11.0-	-	-		6.1-	180-		-3-6-2-6-3-3-1-2-1-4-3-3-		-1-	-	-	-	-	0.40								
56-43.1947-109.7361-2-07-						0-WQ6626-07/25/77- 8-			12-10.0-	-	-		6.3-	320-		-3-6-3-6-3-3-1-2-1-3-4-3-		-1-	-	-	-	-	0.09								
56-43.1647-109.7206-2-07-						0-WQ6628-07/25/77- 9-			16-10.0-	-	-		6.5-	590-		-3-6-3-6-3-3-1-2-1-3-3-3-		-1-	-	-	-	-	0.26								
56-43.1636-109.7208-2-07-						0-WQ6629-07/25/77- 9-			14-12.0-	-	-		5.7-	40-		-3-6-3-6-3-3-2-2-3-1-4-3-3-		-1-	-	-	-	-	0.07								
56-43.1783-109.7469-2-07-						0-WQ6630-07/25/77-10-			13-11.0-	-	-		5.8-	1000-		-3-6-4-6-2-2-1-3-3-2-3-3-		-1-	-	-	-	-	0.26								
56-43.1775-109.7450-2-07-						0-WQ6631-07/25/77-10-			13-11.0-	-	-		5.7-	1050-		-3-6-4-6-2-2-1-1-3-2-2-3-		-1-	-	-	-	-	0.05								
56-43.1603-109.7447-2-07-						0-WQ6632-07/25/77-10-			12-10.0-	-	-		5.8-	900-		-3-6-4-6-3-2-1-1-1-4-3-3-		-1-	-	-	-	-	0.03								
56-43.1597-109.8206-2-07-						0-WQ6633-07/25/77-12-			13-12.0-	-	-		5.7-	40-		-3-6-4-6-3-3-1-2-1-3-3-3-		-1-	-	-	-	-	0.41								
56-43.1606-109.8194-2-07-						0-WQ6634-07/25/77-12-			14-12.0-	-	-		5.7-	43-		-3-6-4-6-3-3-1-2-1-4-3-3-		-1-	-	-	-	-	0.10								
56-43.1689-109.8358-2-07-						0-WQ6635-07/25/77-12-			14-10.0-	-	-		5.9-	45-		-3-6-4-6-3-3-1-3-1-4-3-3-		-1-	-	-	-	-	0.22								
56-43.1681-109.8394-2-07-						0-WQ6636-07/25/77-12-			19-11.0-	-	-		5.7-	50-		-3-6-4-6-3-2-1-2-1-3-3-3-		-1-	-	-	-	-	0.26								
56-43.1592-109.8467-2-07-						0-WQ6637-07/25/77-13-			20-14.0-	-	-		5.8-	30-		-3-6-4-6-3-3-1-2-1-3-4-3-		-1-	-	-	-	-	0.24								
56-43.1489-109.8442-2-07-						0-WQ6638-07/25/77-13-			19-12.0-	-	-		5.7-	45-		-3-6-4-6-3-3-1-2-1-3-3-3-		-1-	-	-	-	-	0.46								
56-43.1397-109.8708-2-07-						0-WQ6639-07/25/77-13-			18-11.0-	-	-		5.9-	40-		-3-6-3-6-3-3-1-2-1-2-3-3-		-1-	-	-	-	-	0.38								
56-43.1372-109.8803-2-07-						0-WQ6641-07/25/77-14-			20-16.0-	-	-		5.7-	45-		-3-6-3-6-3-3-1-2-1-4-3-3-		-1-	-	-	-	-	0.18								
56-43.9992-109.2619-2-07-						0-WQ6643-07/08/77- 8-			17- 9.0-	-	-		6.1-	140-		-1-6-4-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	0.65								
56-43.9989-109.2650-2-07-						0-WQ6644-07/08/77- 8-			19-10.0-	-	-		6.1-	120-		-1-6-3-6-3-3-1-2-1-3-3-1-		-1-	-	-	-	-	0.06								
56-43.9960-109.5078-2-07-						0-WQ6645-07/09/77-13-			20- 8.0-	-	-		5.7-	50-		-1-6-4-6-2-3-1-2-1-3-3-1-		-1-	-	-	-	-	0.03								
56-43.8622-109.4989-2-07-						0-WQ6646-07/09/77-13-			21- 9.0-	-	-		5.5-	30-		-1-6-3-6-2-3-1-2-3-2-2-1-		-1-	-	-	-	-	0.02								
56-43.9972-109.4119-2-07-						0-WQ6647-07/08/77-11-			17- 9.0-	-	-		5.9-	85-		-1-6-4-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	0.01								
56-43.9933-109.4069-2-07-						0-WQ6648-07/08/77-11-			17-10.0-	-	-		5.9-	90-		-1-6-3-6-2-3-1-2-1-3-3-1-		-1-	-	-	-	-	0.02								
56-43.9781-109.4053-2-07-						0-WQ6649-07/08/77-12-			20-10.0-	-	-		5.9-	90-		-1-6-4-6-2-3-1-2-1-3-3-1-		-1-	-	-	-	-	0.02								
56-43.9744-109.3861-2-07-						0-WQ6650-07/08/77-12-			24-12.0-	-	-		6.1-	120-		-1-6-3-6-3-3-1-2-1-4-3-1-		-1-	-	-	-	-	0.03								
56-43.9622-109.3781-2-07-						0-WQ6651-07/08/77-12-			24-13.0-	-	-		5.9-	80-		-1-6-4-6-3-2-1-2-1-2-3-1-		-1-	-	-	-	-	0.06								
56-43.9536-109.3939-2-07-						0-WQ6652-07/08/77-12-			21-10.0-	-	-		5.9-	80-		-1-6-4-6-3-3-1-2-1-4-4-1-		-1-	-	-	-	-	0.15								
56-43.9531-109.3917-2-07-						0-WQ6653-07/08/77-13-			21- 9.0-	-	-		5.9-	85-		-1-6-4-6-3-3-1-2-1-3-3-1-		-1-	-	-	-	-	0.17								
56-43.9375-109.3614-2-07-						0-WQ6654-07/08/77-14-			24- -	-	-		6.1-	140-		-1-6-4-6-2-3-1-2-1-3-3-1-		-1-	-	-	-	-	0.22								
56-43.9281-109.3554-2-07-						0-WQ6655-07/08/77-14-			24- 6.0-	-	-		6.1-	120-		-1-6-3-6-2-3-1-2-1-3-3-1-		-1-	-	-	-	-	0.51								
56-43.9153-109.3653-2-07-						0-WQ6656-07/08/77-14-			20-10.0-	-	-		6.1-	140-		-1-6-3-6-3-3-1-2-2-2-3-1-		-1-	-	-	-	-	0.06								
56-43.9144-109.3636-2-07-						0-WQ6657-07/08/77-14-			24-10.0-	-	-		5.9-	90-		-1-6-4-6-3-2-1-2-2-2-3-1-		-1-	-	-	-	-	0.25								
56-43.9244-109.3486-2-07-						0-WQ6658-07/08/77-15-			19- 9.0-	-	-		6.1-	120-		-1-6-3-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	0.09								
56-43.9042-109.3286-2-07-						0-WQ6659-07/08/77-15-			19-12.0-	-	-		5.9-	100-		-1-6-2-6-3-2-1-2-1-3-2-1-		-1-	-	-	-	-	0.22								
56-43.9817-109.4939-2-07-						0-WQ6663-07/08/77-12-			26-13.0-	-	-		6.1-	120-		-1-6-3-6-2-2-1-2-1-3-2-1-		-1-	-	-	-	-	0.32								

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
							TIME SAMPLED																							
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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 OR DNC (#) UNITS IN ppb
56-43.8156-109.5431-2-07-						0-WQ6695-07/09/77-11-		10-	5.0-	-	-	5.7-	30-		-1-6-4-6-3-2-1-2-1-3-2-1-	-1-	-	-	-	-									0.02
56-43.8361-109.5328-2-07-						0-WQ6696-07/09/77-11-		10-	5.0-	-	-	5.7-	30-		-1-6-3-6-3-2-1-2-3-3-2-1-	-1-	-	-	-	-									0.05
56-43.8392-109.5356-2-07-						0-WQ6697-07/09/77-11-		21-	9.0-	-	-	5.5-	40-		-1-6-4-6-3-3-1-2-3-2-2-1-	-1-	-	-	-	-									0.03
56-43.8567-109.5203-2-07-						0-WQ6698-07/09/77-12-		20-	9.0-	-	-	5.5-	50-		-1-6-4-6-2-3-1-2-1-3-2-1-	-1-	-	-	-	-									0.05
56-43.8783-109.5125-2-07-						0-WQ6699-07/09/77-12-		20-	9.0-	-	-	5.7-	50-		-1-6-3-6-2-3-1-2-1-4-2-1-	-1-	-	-	-	-									0.01
56-43.8916-109.5339-2-07-						0-WQ6670-07/09/77-12-		19-	8.0-	-	-	5.7-	30-		-1-6-4-6-2-3-1-2-1-3-2-1-	-1-	-	-	-	-									0.22
56-43.8919-109.5328-2-07-						0-WQ6671-07/09/77-12-		21-11.0-	-	-	-	5.5-	30-		-1-6-4-6-3-2-1-2-1-2-3-1-	-1-	-	-	-	-									0.01
56-43.8158-109.5667-2-07-						0-WQ6672-07/09/77-11-		19-	7.0-	-	-	5.7-	40-		-1-6-4-6-3-2-1-2-2-2-2-1-	-1-	-	-	-	-									0.68
56-43.8211-109.5675-2-07-						0-WQ6673-07/09/77-11-		10-	9.0-	-	-	5.5-	40-		-1-6-4-6-2-3-1-2-2-2-2-1-	-1-	-	-	-	-									0.01
56-43.8219-109.5875-2-07-						0-WQ6674-07/09/77-11-		19-	9.0-	-	-	5.7-	40-		-1-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-									0.15
56-43.8303-109.5869-2-07-						0-WQ6675-07/09/77-11-		20-	8.0-	-	-	5.7-	50-		-1-6-4-6-2-3-1-2-1-4-3-1-	-1-	-	-	-	-									0.01
56-43.8481-109.5547-2-07-						0-WQ6676-07/09/77-12-		20-	9.0-	-	-	5.5-	40-		-1-6-3-6-3-2-1-2-1-3-2-1-	-1-	-	-	-	-									0.06
56-43.8469-109.5586-2-07-						0-WQ6677-07/09/77-12-		22-11.0-	-	-	-	5.7-	30-		-1-6-4-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-									0.59
56-43.8589-109.6081-2-07-						0-WQ6678-07/09/77-13-		23-11.0-	-	-	-	5.7-	35-		-1-6-4-6-3-3-1-2-1-2-3-1-	-1-	-	-	-	-									0.32
56-43.8833-109.6147-2-07-						0-WQ6679-07/09/77-13-		21-	8.0-	-	-	5.2-	40-		-1-6-4-6-2-2-1-2-1-3-2-1-	-1-	-	-	-	-									0.18
56-43.8856-109.6161-2-07-						0-WQ6680-07/09/77-13-		21-10.0-	-	-	-	5.5-	30-		-1-6-4-6-3-2-1-2-1-3-2-1-	-1-	-	-	-	-									0.29
56-43.8847-109.6181-2-07-						0-WQ6681-07/09/77-13-		21-10.0-	-	-	-	5.2-	35-		-1-6-3-6-3-3-1-2-1-2-3-1-	-1-	-	-	-	-									0.21
56-43.9061-109.6231-2-07-						0-WQ6682-07/09/77-13-		21-11.0-	-	-	-	5.5-	30-		-1-6-3-6-3-3-1-2-1-2-2-1-	-1-	-	-	-	-									0.01
56-43.6658-109.4986-2-07-						0-WQ6683-07/11/77-14-		26-12.0-	-	-	-	5.7-	150-		-1-6-4-6-3-2-1-2-3-2-3-1-	-1-	-	-	-	-									0.45
56-43.9075-109.6219-2-07-						0-WQ6684-07/09/77-13-		23-11.0-	-	-	-	5.5-	30-		-1-6-4-6-2-2-1-2-1-3-3-1-	-1-	-	-	-	-									0.01
56-43.8639-109.4892-2-07-						0-WQ6685-07/09/77-13-		20-	9.0-	-	-	5.7-	50-		-1-6-4-6-2-3-1-2-1-4-3-1-	-1-	-	-	-	-									0.01
56-43.8656-109.4866-2-07-						0-WQ6686-07/09/77-13-		20-	7.0-	-	-	5.5-	50-		-1-6-3-6-3-2-1-2-1-3-4-1-	-1-	-	-	-	-									0.03
56-43.8883-109.4567-2-07-						0-WQ6687-07/09/77-13-		18-	6.0-	-	-	5.5-	40-		-1-6-3-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-									0.01
56-43.8897-109.4575-2-07-						0-WQ6688-07/09/77-13-		18-	6.0-	-	-	5.7-	50-		-1-6-4-6-2-3-1-2-1-4-3-1-	-1-	-	-	-	-									0.01
56-43.7714-109.5506-2-07-						0-WQ6689-07/09/77-15-		22-11.0-	-	-	-	5.6-	30-		-1-6-3-6-2-3-1-2-2-2-2-1-	-1-	-	-	-	-									0.01
56-43.7489-109.5342-2-07-						0-WQ6690-07/09/77-15-		22-12.0-	-	-	-	5.7-	30-		-1-6-4-6-3-2-1-2-3-3-2-1-	-1-	-	-	-	-									0.16
56-43.7311-109.5489-2-07-						0-WQ6691-07/09/77-16-		23-12.0-	-	-	-	5.7-	50-		-1-6-4-6-2-3-1-2-3-3-2-1-	-1-	-	-	-	-									0.01
56-43.7261-109.5608-2-07-						0-WQ6692-07/09/77-16-		24-14.0-	-	-	-	5.5-	40-		-1-6-4-6-3-2-1-2-2-3-2-1-	-1-	-	-	-	-									0.18
56-43.7794-109.3347-2-07-						0-WQ6694-07/11/77-10-		20-10.0-	-	-	-	5.9-	110-		-1-6-4-6-3-2-1-2-1-3-4-1-	-1-	-	-	-	-									0.18
56-43.8000-109.3392-2-07-						0-WQ6695-07/11/77-11-		22- 7.0-	-	-	-	5.9-	120-		-1-6-4-6-3-3-1-2-1-3-4-1-	-1-	-	-	-	-									0.56
56-43.8239-109.3719-2-07-						0-WQ6696-07/11/77-11-		24-11.0-	-	-	-	5.7-	120-		-1-6-4-6-4-3-1-2-1-3-4-1-	-1-	-	-	-	-									0.22
56-43.4328-109.8508-2-06-						0-WQ6697-07/25/77- 7-		10-12.0-	-	-	-	6.6-	500-		-3-6-4-6-3-3-1-2-1-4-4-3-	-1-	-	-	-	-									0.94
56-43.7283-109.6344-2-07-						0-WQ6698-07/10/77- 7-		12- 8.0-	-	-	-	5.7-	90-		-1-6-4-6-2-3-1-2-3-2-2-1-	-1-	-	-	-	-									0.34
56-43.7286-109.6378-2-07-						0-WQ6699-07/10/77- 7-		13- 8.0-	-	-	-	5.7-	120-		-1-6-4-6-2-2-1-2-3-3-2-1-	-1-	-	-	-	-									0.20
56-43.7508-109.6819-2-07-						0-WQ6700-07/10/77- 8-		14- 9.0-	-	-	-	5.7-	120-		-1-6-4-6-3-2-1-2-3-2-2-1-	-1-	-	-	-	-									0.69
56-43.7486-109.6639-2-07-						0-WQ6701-07/10/77- 8-		18- 6.0-	-	-	-	5.9-	100-		-1-6-4-6-2-3-1-2-1-2-2-1-	-1-	-	-	-	-									0.69
56-43.7903-109.6678-2-07-						0-WQ6702-07/10/77- 8-		16- 6.0-	-	-	-	5.7-	90-		-1-6-4-6-3-3-1-2-1-2-3-1-	-1-	-	-	-	-									0.03
56-43.7811-109.6700-2-07-						0-WQ6703-07/10/77- 8-		16- 9.0-	-	-	-	5.7-	100-		-1-6-4-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-									0.01
56-43.7914-109.6953-2-07-						0-WQ6704-07/10/77- 9-		18- 7.0-	-	-	-	5.9-	100-		-1-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-									0.06
56-43.7950-109.6906-2-07-						0-WQ6705-07/10/77- 9-		18- 7.0-	-	-	-	5.9-	120-		-1-6-4-6-3-3-1-2-1-3-2-1-	-1-	-	-	-	-									1.91
56-43.7972-109.6972-2-07-						0-WQ6706-07/10/77- 9-		16- 6.0-	-	-	-	5.7-	100-		-1-6-4-6-2-2-1-2-4-4-2-1-	-1-	-	-	-	-									0.03
56-43.7622-109.5361-2-07-						0-WQ6707-07/09/77-15-		24-13.0-	-	-	-	5.7-	110-		-1-6-4-6-2-3-1-2-3-2-2-1-	-1-	-	-	-	-									0.05
56-43.7733-109.5161-2-07-						0-WQ6708-07/09/77-15-		24-14.0-	-	-	-	5.9-	100-		-1-6-4-6-2-2-1-1-2-3-2-1-	-1-	-	-	-	-									0.40
56-43.7789-109.5092-2-07-						0-WQ6709-07/09/77-15-		28-14.0-	-	-	-	5.7-	110-		-1-6-3-6-3-2-1-2-3-2-2-1-	-1-	-	-	-	-									0.34
56-43.7806-109.5106-2-07-						0-WQ6710-07/09/77-15-		28-12.0-	-	-	-	5.7-	100-		-1-6-4-6-2-3-1-2-3-2-2-1-	-1-	-	-	-	-									0.58
56-43.7953-109.4972-2-07-						0-WQ6711-07/09/77-16-		26-11.0-	-	-	-	5.9-	100-		-1-6-4-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-									0.41
56-43.7969-109.4978-2-07-						0-WQ6712-07/09/77-16-		24-11.0-	-	-	-	5.7-	110-		-1-6-4-6-3-2-1-2-1-2-5-1-	-1-	-	-	-	-									0.04
56-43.8044-109.4847-2-07-						0-WQ6713-07/09/77-16-		26-14.0-	-	-	-	5.9-	120-		-1-6-4-6-2-2-1-2-1-3-3-1-	-1-	-	-	-	-									0.37
56-43.8128-109.4756-2-07-						0-WQ6714-07/09/77-17-		24-14.0-	-	-	-	5.7-	100-		-1-6-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-									0.49
56-43.8089-109.4722-2-07-						0-WQ6715-07/09/77-17-		21- 9.0-	-	-	-	5.7-	100-		-1-6-4-6-2-3-1-2-1-2-3-1-	-1-	-	-	-	-									0.46
56-43.8128-109.4664-2-07-						0-WQ6716-07/09/77-17-		20- 8.0-	-	-	-	5.7-	110-		-1-6-4-6-3-2-1-2-1-3-4-1-	-1-	-	-	-	-									0.33

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																								U CONCENTRATION
							TIME SAMPLED																							
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmhos/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 OR DNC (ϕ) UNITS IN ppb
56-43.8094-109.4488-2-07-						C-WC6717-07/09/77-18-			18-	9.0-	-	-	5.9-	110-		-1-6-3-6-2-3-1-2-1-4-4-1-												-1-	-	-	-	-	1.87
56-43.7725-109.4931-2-07-						C-WC6718-07/09/77-18-			17-	9.0-	-	-	5.7-	110-		-1-6-4-6-2-3-1-2-3-3-3-1-												-1-	-	-	-	-	0.22
56-43.7717-109.4942-2-07-						C-WC6719-07/09/77-18-			16-11.0-		-	-	5.7-	120-		-1-6-4-6-3-2-1-2-2-3-3-1-												-1-	-	-	-	-	0.31
56-43.7633-109.7981-2-07-						C-WC6720-07/10/77-13-			24-10.0-		-	-	6.1-	220-		-1-6-3-6-3-2-1-2-1-3-3-1-												-1-	-	-	-	-	0.25
56-43.7644-109.7989-2-07-						C-WC6721-07/10/77-13-			22-	9.0-	-	-	6.1-	220-		-1-6-3-6-3-2-1-2-1-3-3-1-												-1-	-	-	-	-	0.18
56-43.7736-109.7861-2-07-						C-WC6722-07/10/77-14-			26-	6.0-	-	-	6.1-	260-		-1-6-3-6-3-2-1-2-1-3-2-1-												-1-	-	-	-	-	0.88
56-43.7753-109.7869-2-07-						C-WC6723-07/10/77-14-			27-	9.0-	-	-	6.1-	260-		-1-6-3-6-3-2-1-2-1-4-3-1-												-1-	-	-	-	-	0.76
56-43.7894-109.8211-2-07-						C-WC6724-07/10/77-16-			20-	6.0-	-	-	6.1-	270-		-1-6-3-6-3-2-1-2-1-3-2-1-												-1-	-	-	-	-	0.48
56-43.7939-109.8222-2-07-						C-WC6725-07/10/77-16-			21-11.0-		-	-	6.1-	270-		-1-6-3-6-3-2-1-2-1-4-3-1-												-1-	-	-	-	-	1.03
56-43.7975-109.6997-2-07-						C-WC6726-07/10/77- 0-			16-	6.0-	-	-	5.7-	100-		-1-6-4-6-2-3-1-2-4-3-2-1-												-1-	-	-	-	-	0.25
56-43.7967-109.7108-2-07-						C-WC6727-07/10/77- 0-			16-	9.0-	-	-	5.7-	120-		-1-6-4-6-2-2-1-2-4-3-2-1-												-1-	-	-	-	-	0.27
56-43.7953-109.7106-2-07-						C-WC6728-07/10/77- 0-			18-	9.0-	-	-	5.7-	90-		-1-6-4-6-2-3-1-2-3-3-2-1-												-1-	-	-	-	-	0.49
56-43.7517-109.1561-2-07-						C-WC6729-07/12/77- 0-			21-11.0-		-	-	5.7-	150-		-1-6-4-6-3-2-1-2-2-3-2-1-												-1-	-	-	-	-	0.67
56-43.7517-109.1586-2-07-						C-WC6730-07/12/77- 0-			21-11.0-		-	-	5.7-	150-		-1-6-4-6-3-2-1-2-2-3-2-1-												-1-	-	-	-	-	0.60
56-43.7628-109.0131-2-07-						C-WC6731-07/12/77- 0-			18-	9.0-	-	-	5.9-	110-		-1-6-4-6-3-2-1-2-1-3-3-1-												-1-	-	-	-	-	2.15
56-43.7711-109.0339-2-07-						C-WC6732-07/12/77-10-			20-	9.0-	-	-	5.7-	40-		-1-6-3-6-4-2-1-2-1-2-2-1-												-1-	-	-	-	-	0.01
56-43.7725-109.0333-2-07-						C-WC6733-07/12/77-10-			20-11.0-		-	-	5.7-	50-		-1-6-4-6-2-2-1-2-1-3-3-1-												-1-	-	-	-	-	0.55
56-43.7922-109.0558-2-07-						C-WC6734-07/12/77-11-			24-12.0-		-	-	5.9-	120-		-1-6-4-6-3-2-1-2-1-2-3-1-												-1-	-	-	-	-	0.03
56-43.7922-109.0581-2-07-						C-WC6735-07/12/77-11-			26-11.0-		-	-	5.7-	150-		-1-6-4-6-2-3-1-2-1-3-3-1-												-1-	-	-	-	-	0.40
56-43.7681-109.8147-2-07-						C-WC6736-07/10/77-13-			24-	9.0-	-	-	6.1-	275-		-1-6-3-6-3-3-1-2-1-3-3-1-												-1-	-	-	-	-	0.41
56-43.7336-109.8366-2-07-						C-WC6737-07/10/77-12-			24-	9.0-	-	-	6.1-	220-		-1-6-3-6-2-3-1-2-3-3-3-1-												-1-	-	-	-	-	0.37
56-43.7369-109.8625-2-07-						C-WC6738-07/10/77-12-			22-11.0-		-	-	6.1-	230-		-1-6-3-6-2-3-1-2-1-3-2-1-												-1-	-	-	-	-	0.18
56-43.7406-109.8736-2-07-						C-WC6739-07/10/77-13-			20-	9.0-	-	-	5.9-	80-		-1-6-4-6-3-2-1-2-2-2-2-1-												-1-	-	-	-	-	0.01
56-43.7422-109.8736-2-07-						C-WC6740-07/10/77-13-			21-	9.0-	-	-	5.7-	120-		-1-6-4-6-2-3-1-2-2-3-2-1-												-1-	-	-	-	-	0.03
56-43.7419-109.8958-2-07-						C-WC6741-07/10/77-13-			22-11.0-		-	-	5.7-	110-		-1-6-4-6-2-3-1-2-3-2-2-1-												-1-	-	-	-	-	0.05
56-43.7469-109.8906-2-07-						C-WC6742-07/10/77-13-			20-	9.0-	-	-	6.1-	260-		-1-6-4-6-3-3-1-2-3-2-2-1-												-1-	-	-	-	-	0.24
56-43.7606-109.8983-2-07-						C-WC6743-07/10/77-14-			22-	6.0-	-	-	6.1-	220-		-1-6-3-6-2-3-1-2-1-2-2-1-												-1-	-	-	-	-	0.24
56-43.7619-109.8994-2-07-						C-WC6744-07/10/77-14-			20-10.0-		-	-	6.1-	220-		-1-6-4-6-2-3-1-2-1-2-2-1-												-1-	-	-	-	-	0.65
56-43.7761-109.9225-2-07-						C-WC6745-07/10/77-14-			21-11.0-		-	-	6.1-	280-		-1-6-4-6-2-3-1-2-1-2-2-1-												-1-	-	-	-	-	0.63
56-43.7836-109.9239-2-07-						C-WC6746-07/10/77-15-			23-	9.0-	-	-	6.1-	270-		-1-6-3-6-2-3-1-2-1-3-3-1-												-1-	-	-	-	-	0.81
56-43.9275-109.0011-2-07-						C-WC6747-07/08/77-19-			21-12.0-		-	-	6.1-	110-		-2-6-3-6-2-4-1-2-2-3-2-1-												-1-	-	-	-	-	0.27
56-43.9039-109.0092-2-07-						C-WC6748-07/08/77-19-			20-10.0-		-	-	5.9-	75-		-2-6-3-6-3-2-1-2-2-2-2-1-												-1-	-	-	-	-	0.03
56-43.8900-109.0158-2-07-						C-WC6749-07/08/77-19-			19-11.0-		-	-	5.9-	90-		-2-6-4-6-3-2-1-2-2-4-2-1-												-1-	-	-	-	-	0.12
56-43.8900-109.0328-2-07-						C-WC6750-07/08/77-19-			20-10.0-		-	-	6.1-	130-		-2-6-4-6-3-2-1-2-2-3-2-1-												-1-	-	-	-	-	0.61
56-43.8814-109.0400-2-07-						C-WC6751-07/08/77-19-			20-10.0-		-	-	6.3-	120-		-2-6-3-6-3-2-1-2-2-3-2-1-												-1-	-	-	-	-	0.52
56-43.7847-109.9231-2-07-						C-WC6755-07/10/77-15-			20-11.0-		-	-	6.1-	270-		-1-6-4-6-2-3-1-2-1-3-2-1-												-1-	-	-	-	-	0.43
56-43.7714-109.9669-2-07-						C-WC6756-07/10/77-16-			20-	9.0-	-	-	5.9-	80-		-1-6-3-6-2-3-1-2-3-2-3-1-												-1-	-	-	-	-	0.58
56-43.7706-109.9831-2-07-						C-WC6757-07/10/77-16-			22-11.0-		-	-	6.1-	220-		-1-6-3-6-3-3-1-2-1-4-3-1-												-1-	-	-	-	-	1.17
56-43.7700-109.9697-2-07-						C-WC6758-07/10/77-16-			20-	9.0-	-	-	5.9-	75-		-1-6-3-6-3-2-1-2-3-2-3-1-												-1-	-	-	-	-	0.76
56-43.7697-109.9931-2-06-						C-WC6759-07/10/77-17-			20-	5.0-	-	-	6.1-	220-		-1-6-3-6-3-3-1-2-4-3-2-1-												-1-	-	-	-	-	0.44
56-43.8017-109.8268-2-07-						C-WC6760-07/10/77-16-			21-11.0-		-	-	5.9-	80-		-1-6-4-6-3-2-1-2-1-3-3-1-												-1-	-	-	-	-	0.04
56-43.8003-109.8233-2-07-						C-WC6761-07/10/77-16-			20-	6.0-	-	-	5.9-	70-		-1-6-3-6-3-2-1-2-1-3-3-1-												-1-	-	-	-	-	0.01
56-43.8231-109.3728-2-07-						C-WC6762-07/11/77-13-			22-10.0-		-	-	5.9-	110-		-1-6-4-6-4-3-1-2-1-3-4-1-												-1-	-	-	-	-	0.06
56-43.7925-109.3844-2-07-						C-WC6763-07/11/77-13-			22-	9.0-	-	-	5.7-	90-		-1-6-3-6-3-2-1-2-1-2-3-1-												-1-	-	-	-	-	0.06
56-43.7919-109.3867-2-07-						C-WC6764-07/11/77-14-			22-	9.0-	-	-	5.9-	70-		-1-6-3-6-3-2-1-2-1-3-3-1-												-1-	-	-	-	-	0.16
56-43.7833-109.3856-2-07-						C-WC6765-07/11/77-14-			21-10.0-		-	-	5.9-	90-		-1-6-3-6-3-3-1-2-1-4-3-1-												-1-	-	-	-	-	0.07
56-43.7714-109.4036-2-07-						C-WC6766-07/11/77-14-			22-	6.0-	-	-	5.9-	100-		-1-6-3-6-3-3-1-2-1-3-3-1-												-1-	-	-	-	-	0.26
56-43.7672-109.4036-2-07-						C-WC6767-07/11/77-14-			24-11.0-		-	-	5.9-	100-		-1-6-4-6-3-3-1-2-1-3-3-1-												-1-	-	-	-	-	0.05
56-43.7564-109.4169-2-07-						C-WC6768-07/11/77-15-			21-11.0-		-	-	5.7-	70-		-1-6-3-6-3-2-1-2-1-3-3-1-												-1-	-	-	-	-	0.06
56-43.7556-109.4169-2-07-						C-WC6769-07/11/77-15-			22-10.0-		-	-	5.7-	70-		-1-6-4-6-3-3-1-2-1-3-3-1-												-1-	-	-	-	-	0.47
56-43.7369-109.4431-2-06-						C-WC6770-07/11/77-16-			20-	7.0-	-	-	5.7-	150-		-1-6-4-6-2-2-1-2-3-3-2-1-												-1-	-	-	-	-	0.68

APPENDIX I-A. (continued). 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (#) UNITS IN ppb
56-43.7342-109.4431-2-07-						0-WQ6771-07/11/77-17-	18-	9.0-	-	-		5.7-	90-		-1-6-3-6-2-2-1-2-2-2-2-1-	-1-	-	-	-	-											0.17
56-43.6344-109.5286-2-07-						0-WQ6772-07/11/77-15-	22-	12.0-	-	-		5.7-	40-		-1-6-3-6-2-2-1-2-3-2-3-1-	-1-	-	-	-	-											0.44
56-43.7153-109.4744-2-07-						0-WQ6773-07/11/77-17-	24-	11.0-	-	-		5.7-	90-		-1-6-3-6-3-2-1-2-3-3-2-1-	-1-	-	-	-	-											0.01
56-43.7089-109.4806-2-07-						0-WQ6774-07/11/77-17-	24-	11.0-	-	-		5.7-	50-		-1-6-3-6-2-2-1-2-1-2-3-1-	-1-	-	-	-	-											0.49
56-43.7681-109.0556-2-07-						0-WQ6775-07/12/77-13-	27-	11.0-	-	-		5.7-	40-		-1-6-3-6-2-3-1-2-1-2-3-1-	-1-	-	-	-	-											0.01
56-43.7203-109.3436-2-07-						0-WQ6776-07/11/77- 7-	14-	8.0-	-	-		5.9-	110-		-1-6-4-6-2-2-1-2-4-4-2-1-	-1-	-	-	-	-											0.56
56-43.7267-109.3483-2-07-						0-WQ6777-07/11/77- 7-	14-	9.0-	-	-		5.9-	120-		-1-6-4-6-3-3-1-2-4-3-2-1-	-1-	-	-	-	-											0.36
56-43.7422-109.3372-2-07-						0-WQ6778-07/11/77- 8-	17-	11.0-	-	-		5.9-	110-		-1-6-4-6-3-2-1-2-3-3-3-1-	-1-	-	-	-	-											0.51
56-43.7444-109.3372-2-07-						0-WQ6779-07/11/77- 8-	19-	9.0-	-	-		5.9-	110-		-1-6-4-6-2-2-1-2-3-3-2-1-	-1-	-	-	-	-											0.01
56-43.7586-109.3233-2-07-						0-WQ6780-07/11/77- 8-	19-	9.0-	-	-		5.7-	120-		-1-6-4-6-2-2-1-2-1-3-3-1-	-1-	-	-	-	-											0.51
56-43.7606-109.3264-2-07-						0-WQ6781-07/11/77- 9-	21-	9.0-	-	-		5.9-	120-		-1-6-4-6-2-2-1-2-1-3-2-1-	-1-	-	-	-	-											0.22
56-43.7639-109.3006-2-07-						0-WQ6782-07/11/77- 9-	20-	11.0-	-	-		5.7-	110-		-1-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-											0.59
56-43.7659-109.3022-2-07-						0-WQ6783-07/11/77- 9-	18-	12.0-	-	-		5.9-	100-		-1-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-											0.40
56-43.7794-109.3314-2-07-						0-WQ6784-07/11/77-10-	20-	8.0-	-	-		5.8-	110-		-1-6-3-6-3-3-1-2-1-4-4-1-	-1-	-	-	-	-											0.01
56-43.3144-109.7553-2-07-						0-WQ6785-07/25/77-11-	15-	10.0-	-	-		5.7-	900-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.19
56-43.3147-109.7581-2-07-						0-WQ6786-07/25/77-11-	15-	10.0-	-	-		5.8-	1000-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.02
56-43.3486-109.7644-2-07-						0-WQ6787-07/25/77-12-	18-	10.0-	-	-		5.8-	1000-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.10
56-43.3500-109.7642-2-07-						0-WQ6788-07/25/77-12-	18-	10.0-	-	-		5.8-	1000-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.10
56-43.3581-109.8019-2-07-						0-WQ6789-07/25/77-12-	18-	10.0-	-	-		5.8-	1000-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											2.18
56-43.2797-109.7958-2-07-						0-WQ6790-07/25/77-14-	18-	10.0-	-	-		6.5-	585-		-3-6-3-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											1.74
56-43.2683-109.7519-2-07-						0-WQ6792-07/25/77-14-	18-	10.0-	-	-		5.7-	1000-		-3-6-3-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.19
56-43.2667-109.7514-2-07-						0-WQ6794-07/25/77-14-	18-	10.0-	-	-		6.1-	175-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.03
56-43.2722-109.8433-2-07-						0-WQ6795-07/25/77-16-	18-	10.0-	-	-		5.7-	40-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.03
56-43.2708-109.8417-2-07-						0-WQ6796-07/25/77-16-	18-	10.0-	-	-		5.7-	43-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.09
56-43.2344-109.8564-2-07-						0-WQ6798-07/25/77-17-	18-	10.0-	-	-		5.7-	45-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.10
56-43.2450-109.9236-2-07-						0-WQ6799-07/25/77-18-	12-	10.0-	-	-		5.6-	45-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.02
56-43.2444-109.9222-2-07-						0-WQ6800-07/25/77-18-	12-	10.0-	-	-		5.7-	43-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.04
56-43.1997-109.9272-2-07-						0-WQ6801-07/25/77-18-	12-	10.0-	-	-		5.7-	45-		-3-6-4-6-3-3-1-2-1-4-3-2-	-1-	-	-	-	-											0.24
56-43.1189-109.9100-2-07-						0-WQ6803-07/24/77-11-	20-	16.0-	-	-		5.7-	40-		-3-6-4-6-2-2-1-2-2-3-2-3-	-1-	-	-	-	-											5.30
56-43.5478-109.9819-2-07-						0-WQ6806-07/26/77-18-	17-	11.0-	-	-		5.7-	110-		-3-6-3-1-3-3-1-2-1-3-3-2-	-1-	-	-	-	-											0.01
56-43.5369-109.9919-2-06-						0-WQ6807-07/26/77-19-	17-	11.0-	-	-		5.7-	100-		-4-9-4-6-2-3-1-2-1-3-3-2-	-1-	-	-	-	-											0.01
56-43.5239-109.9061-2-07-						0-WQ6808-07/26/77-19-	15-	11.0-	-	-		5.6-	40-		-3-6-3-1-3-3-1-2-1-3-3-2-	-1-	-	-	-	-											0.31
56-43.5228-109.9047-2-07-						0-WQ6809-07/26/77-19-	15-	11.0-	-	-		5.6-	45-		-3-6-3-1-3-3-1-2-1-3-3-2-	-1-	-	-	-	-											0.75
56-43.5625-109.9079-2-07-						0-WQ6810-07/26/77-19-	15-	11.0-	-	-		5.9-	85-		-3-6-4-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-											0.51
56-43.1389-108.4256-2-07-						0-WQ6953-09/26/79-10-	18-	13.8-	-	-		7.1-	443-		8-1-7-5-7-3-4-4-3-4-3-1-1-	-1-	-	-	-	-											9.11
56-43.1189-108.4597-2-08-						0-WQ6956-09/26/79-12-	22-	15.3-C-	-	-		7.2-	790-		8-1-7- - -3-3-1- -4-2-1-2-	-1-4-	6-	80-	-												34.71
56-43.1067-108.4831-2-08-						0-WQ6957-09/26/79-13-	25-	16.2-C-	-	-		7.8-	535-		14-1-7- - -3-3-1- -4-2-2-2-	-1-	-	-	-	-											44.84*
56-43.1569-108.4206-2-08-						0-WQ6958-09/26/79-14-	25-	14.1-	-	-		8.2-	180-		10-1-7- - -3-3-1- -4-2-1-2-	-1-4-	6-	500-	-												0.72
56-43.1681-108.4211-2-07-						0-WQ6959-09/26/79-14-	25-	20.7-	-	-		7.5-	367-		8-1-7-4-7-1-2-2-3-4-3-2-2-	-1-	-	-	-	-											1.36
56-43.2244-108.4836-2-07-						0-WQ6962-09/26/79- 6-	25-	18.1-	-	-		7.9-	735-		6-1-7-5-7-2-3-2-3-4-2-2-2-	-1-	-	-	-	-											15.18
56-43.2000-108.4311-2-08-						0-WQ6965-09/26/79- 7-	22-	15.8-	-	-		8.1-	170-		4-1-6- - -3-3-1- -2-2-2-2-	-1-4-	6-	507-	340-												1.88
56-43.2108-108.4397-2-07-						0-WQ6966-09/26/79- 7-	17-	17.6-	-	-		8.0-	280-		8-1-6-5-6-4-4-3-2-2-2-3-2-	-1-	-	-	-	-											20.73
56-43.1481-108.2869-2-07-						0-WQ6968-09/27/79- 8-	25-	13.7-	-	-		7.5-	575-		14-1-6-4-6-3-3-4-2-1-2-2-2-	-1-	-	-	-	-											11.08
56-43.1581-108.3503-2-08-						0-WQ6969-09/27/79- 9-	25-	13.9-C-	-	-		8.2-	125-		8-1-6- - -3-3-1- -2-2-2-2-	-1-	-	6-	290-												3.79
56-43.1644-108.3614-2-08-						0-WQ6970-09/27/79- 9-	27-	12.2-C-	-	-		8.0-	465-		10-1-6- - -3-3-1- -2-2-2-2-	-1-3-		-220-													0.82
56-43.1856-108.3917-2-07-						0-WQ6971-09/27/79- 9-	27-	13.7-	-	-		7.6-	140-		4-1-6-5-6-2-3-1-2-2-2-2-2-	-1-	-	-	-	-											21.81
56-43.2264-108.3533-2-07-						0-WQ6973-09/27/79-11-	22-	10.8-C-	-	-		7.9-	628-		6-1-7-6-7-3-3-1-3-4-2-1-2-	-1-	-	-	-	-											4.42
56-43.1861-108.3236-2-07-						0-WQ6978-09/27/79- 4-	25-	18.1-	-	-		7.9-	670-		6-1-6-4-6-4-4-3-2-4-3-2-2-	-1-	-	-	-	-											14.40
56-43.1869-108.2566-2-08-						0-WQ6979-09/27/79- 4-	25-	-	-	-		-	-		10-1-6- - -3-3-1- -3-2-2-2-	-1-	-	-	-	-											2.12
56-43.1725-108.2822-2-08-						0-WQ6981-09/27/79- 5-	22-	15.2-	-	-		7.9-	410-		10-1-6- - -3-3-1- -4-2-2-2-	-1-4-	-	-	-	-											3.38
56-43.1525-108.3529-2-07-						0-WQ6982-09/27/79- 6-	17-	17.6-	-	-		7.7-	680-		4-1-7-4-7-3-3-4-2-4-3-2-2-	-1-	-	-	-	-											12.23

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (*) UNITS IN ppb
56-43.1344-108.3011-2-08-						0-WQ6985-09/27/79- 6-			17-15.2-	-	-	-	7.6-	933-		8-1-7-	-	-3-3-1-	-4-2-2-2-	-1-4-	6-	45-	-	57.30*
56-43.1281-108.2711-2-08-						0-WQ6986-09/27/79- 6-			17-13.8-0-	-	-	-	7.1-	213-		16-1-7-	-	-3-3-1-	-4-2-2-2-	-1-4-	-	20-100-		9.02
56-43.1219-108.2722-2-07-						0-WQ6987-09/27/79- 7-			17-16.0-	-	-	-	7.5-	309-		8-1-7-4-7-3-3-3-3-2-3-2-2-				-1-	-	-	-	2.74
56-43.0367-109.1900-2-07-						0-WQ6988-09/28/79-17-			28- 7.0-0-	-	-	-	8.6-	75-		16-4-7-5-6-3-3-1-2-2-3-5-1-				-1-	-	-	-	1.38
56-43.0414-109.1831-2-07-						0-WQ6989-09/28/79-18-			28-11.0-	-	-	-	7.3-	300-		6-2-7-4-6-2-2-1-2-4-2-5-1-				-1-	-	-	-	0.57
56-43.0431-109.2017-2-07-						0-WQ6991-09/29/79-10-			17- 6.0-	-	-	-	8.5-	70-		10-2-7-5-7-3-3-2-2-2-3-5-2-				-1-	-	-	-	0.63
56-43.0686-108.2639-2-06-						0-WQ6998-09/27/79-14-			31-22.0-0-	-	-	-	7.4-	1500-		8-1-1-4-7-2-2-2-			-3-2-2-2-	-3-	-	-	-	7.95
56-43.1047-108.3489-2-07-						0-WQ7005-09/27/79-17-			32-18.0-0-	-	-	-	7.7-	575-		12-2-6-5-6-3-3-2-2-4-3-2-1-				-3-	-	-	-	6.72
56-43.1056-108.3614-2-08-						0-WQ7006-09/27/79-17-			32-17.6-0-	-	-	-	7.5-	105-		10-2-6-	-	-3-3-1-	-2-2-1-1-	-1-	-	-	-	2.49
56-43.0708-108.3469-2-08-						0-WQ7007-09/27/79-17-			30-13.6-0-	-	-	-	6.9-	900-		14-2-6-	-	-3-3-1-	-2-2-1-1-	-1-	-	-	-	1.14
56-43.0714-108.3653-2-07-						0-WQ7008-09/27/79-18-			32-16.0-0-	-	-	-	7.6-	500-		6-1-6-5-6-3-3-2-2-4-3-1-1-				-3-	-	-	-	6.95
56-43.0247-109.2122-2-07-						0-WQ7009-09/29/79- 9-			27- 3.8-	-	-	-	7.7-	40-		10-2-7-4-6-3-3-1-2-1-4-4-1-				-1-	-	-	-	0.01
56-43.0072-109.2728-2-07-						0-WQ7010-09/29/79-12-			30- 6.8-	-	-	-	6.4-	60-		18-2-7-4-6-3-3-1-2-4-2-5-1-				-1-	-	-	-	0.02
56-43.0069-109.2689-2-06-						0-WQ7011-09/29/79-13-			30- 5.2-	-	-	-	7.0-	65-		16-2-7-5-8-2-2-1-		-2-2-5-1-		-1-	-	-	-	0.31
56-43.0111-109.2489-2-06-						0-WQ7012-09/29/79-14-			30- 5.4-0-	-	-	-	7.0-	20-		23-2-7-5-6-2-2-1-		-3-1-5-1-		-1-	-	-	-	0.50
56-43.0222-109.2272-2-06-						0-WQ7013-09/29/79-15-			28- 3.0-	-	-	-	6.6-	42-		8-2-7-5-8-2-2-1-		-4-3-4-1-		-1-	-	-	-	0.19
56-43.0547-109.0850-2-06-						0-WQ7015-09/30/79- 8-			31-10.8-0-	-	-	-	9.2-	1800-		8-1-1-5-6-2-2-1-		-4-2-3-1-		-3-	-	-	-	3.54
56-43.0747-109.0803-2-07-						0-WQ7018-09/30/79-10-			31-12.8-	-	-	-	7.4-	950-		13-1-7-4-6-2-2-1-2-4-1-3-1-				-3-	-	-	-	3.15
56-43.0914-109.0922-2-07-						0-WQ7021-09/30/79-11-			32-12.5-	-	-	-	8.0-	440-		6-1-1-5-6-3-3-1-2-2-2-3-1-				-3-	-	-	-	1.20
56-43.0906-109.0914-2-07-						0-WQ7022-09/30/79-11-			31-14.5-	-	-	-	7.5-	1050-		4-1-6-4-6-2-2-1-2-2-2-3-1-				-1-	-	-	-	3.60
56-43.0836-109.1222-2-06-						0-WQ7024-09/30/79-12-			32- 7.8-	-	-	-	8.1-	330-		6-2-7-4-6-3-3-1-		-2-4-3-1-		-1-	-	-	-	0.61
56-43.0828-109.1236-2-07-						0-WQ7025-09/30/79-12-			32- 9.1-	-	-	-	8.2-	365-		5-2-7-5-8-2-2-1-2-2-4-3-1-				-1-	-	-	-	0.76
56-43.0869-109.1286-2-07-						0-WQ7026-09/30/79-13-			32- 9.5-	-	-	-	8.0-	310-		8-2-7-5-6-3-3-1-2-2-4-5-1-				-1-	-	-	-	1.21
56-43.0867-109.1253-2-06-						0-WQ7027-09/30/79-14-			32-10.1-0-	-	-	-	7.7-	320-		10-2-6-5-6-3-3-1-		-2-4-4-1-		-1-	-	-	-	0.88
56-43.0992-109.0431-2-07-						0-WQ7028-09/30/79-15-			32-16.5-0-	-	-	-	7.7-	600-		8-1-6-5-6-3-3-1-2-2-2-2-1-				-3-	-	-	-	2.06
56-43.1006-109.0419-2-08-						0-WQ7029-09/30/79-15-			32-15.5-0-	-	-	-	7.1-	1400-		6-1-6-	-	-3-3-1-	-2-1-2-1-	-1-	-	8- 43-	-	6.89
56-43.1206-109.0069-2-08-						0-WQ7030-09/30/79-15-			32-18.5-0-	-	-	-	7.7-	1800-		12-1-6-	-	-2-2-1-	-3-2-2-1-	-1-	-	-	-	2.01
56-43.1531-109.0997-2-07-						0-WQ7035-09/30/79-17-			30-16.5-0-	-	-	-	7.3-	500-		6-1-6-5-6-2-2-2-2-2-2-3-1-				-3-	-	-	-	0.90
56-43.1397-109.0069-2-07-						0-WQ7039-09/30/79-19-			26-15.2-	-	-	-	7.8-	550-		12-1-6-6-8-2-2-2-2-2-2-3-2-				-3-	-	-	-	0.68
56-43.1061-108.5053-2-08-						0-WQ7042-09/27/79-10-			24-17.5-0-	-	-	-	8.4-	554-		15-4-6-	-	-3-3-1-	-4-3-2-1-	-1-4-	-	50-	-	35.43
56-43.1231-108.5175-2-08-						0-WQ7043-09/27/79-11-			25-14.8-0-	-	-	-	8.4-	1010-		9-4-6-	-	-3-3-1-	-4-3-2-1-	-1-4-	-	100-	-	2.31
56-43.1511-108.5289-2-08-						0-WQ7044-09/27/79-11-			25-14.1-0-	-	-	-	8.1-	1580-		14-4-6-	-	-3-3-1-	-4-3-2-1-	-1-4-	-	80-	-	6.45
56-43.1714-108.5107-2-08-						0-WQ7045-09/27/79-11-			25-19.0-	-	-	-	7.4-	840-		8-4-6-	-	-3-3-1-	-4-3-2-1-	-1-4-	-	-	-	17.63
56-43.1303-108.5292-2-08-						0-WQ7046-09/27/79-12-			25-17.8-0-	-	-	-	8.2-	2200-		12-3-7-	-	-3-3-1-	-4-3-2-1-	-1-4-	-	180-	-	1.35
56-43.1311-108.5175-2-08-						0-WQ7047-09/27/79-12-			25-14.5-0-	-	-	-	8.4-	640-		9-3-7-	-	-3-3-1-	-3-4-2-1-	-1-4-	-	50-	-	4.71
56-43.1606-108.5708-2-07-						0-WQ7048-09/27/79-13-			25-19.0-0-	-	-	-	7.8-	645-		13-4-7-5-7-3-3-1-2-4-3-2-1-				-1-	-	-	-	23.00
56-43.1975-108.5194-2-08-						0-WQ7049-09/27/79-13-			24-22.5-	-	-	-	7.6-	1090-		14-3-7-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	-	-	7.45
56-43.2183-108.5175-2-08-						0-WQ7050-09/27/79-14-			25-21.0-	-	-	-	7.4-	1230-		8-4-6-	-	-3-3-1-	-3-3-3-2-	-1-4-	-	120-	-	36.01
56-43.2072-108.5383-2-08-						0-WQ7051-09/27/79-15-			25-19.0-0-	-	-	-	8.1-	720-		8-4-7-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	80-	-	0.43
56-43.2286-108.5644-2-08-						0-WQ7052-09/27/79-15-			25-18.0-0-	-	-	-	7.5-	3090-		11-4-6-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	60-	-	115.62*
56-43.2419-108.5394-2-08-						0-WQ7053-09/27/79-16-			25-18.0-	-	-	-	8.0-	210-		13-4-6-	-	-3-3-1-	-4-2-2-2-	-1-4-	-	-	-	1.60
56-43.2072-108.5594-2-08-						0-WQ7054-09/27/79-16-			24-18.0-0-	-	-	-	7.9-	2000-		13-4-6-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	-	-	1.85
56-43.2408-108.6106-2-08-						0-WQ7055-09/29/79-16-			24-15.0-0-	-	-	-	7.3-	3800-		12-4-6-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	60-	-	57.41*
56-43.2453-108.6314-2-08-						0-WQ7056-09/27/79-17-			25-17.0-0-	-	-	-	8.1-	1020-		11-4-6-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	260-	-	0.77
56-43.2264-108.6575-2-08-						0-WQ7057-09/29/79-17-			25-17.8-	-	-	-	7.7-	1500-		21-4-6-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	45-	-	16.29
56-43.2142-108.6567-2-08-						0-WQ7058-09/27/79-17-			24-22.0-	-	-	-	7.6-	900-		7-4-7-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	60-	-	43.03*
56-43.1831-108.6686-2-08-						0-WQ7059-09/27/79-18-			23-17.8-	-	-	-	7.9-	520-		14-3-7-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	180-	-	0.91
56-43.1722-108.6667-2-08-						0-WQ7060-09/27/79-18-			23-14.5-	-	-	-	7.7-	1490-		11-3-6-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	-	-	0.61
56-43.1425-108.6031-2-08-						0-WQ7061-09/27/79-19-			23-14.5-	-	-	-	7.7-	3150-		8-4-6-	-	-3-3-1-	-4-3-2-2-	-1-4-	-	-	-	3.38
56-43.1067-108.5892-2-08-						0-WQ7066-09/27/79-20-			23-14.6-	-	-	-	7.7-	900-		16-4-6-	-	-3-3-1-	-3-3-2-2-	-1-3-	-	45-	-	282.66*
56-43.2892-109.1414-2-08-						0-WQ7069-09/28/79-16-			24-20.8-0-	-	-	-	7.4-	420-		11-3-7-	-	-3-3-1-	-4-3-3-2-	-1-	-	-	-	1.77

APPENDIX I-A. (continued). 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (H) UNITS IN ppb
56-43.3000-109.1697-2-08-						0-W07070-09/28/79-16-			25-13.3-0-		-	-	8.2-	800-		11-4-6-	-	-3-3-1-	-4-3-3-2-	-1-3-	-	-	-											3.02
56-43.3006-109.1678-2-08-						0-W07071-09/28/79-16-			24-19.0-0-		-	-	8.3-	550-		11-4-6-	-	-3-3-1-	-4-3-3-2-	-1-3-	-	-	-											0.74
56-43.2953-109.2153-2-08-						0-W07072-09/28/79-16-			24-14.5-0-		-	-	7.3-	580-		11-4-6-	-	-3-3-1-	-4-3-3-2-	-1-3-	-	50-	-											2.50
56-43.2950-109.2164-2-07-						0-W07073-09/28/79-16-			24-13.2-	-	-	-	7.8-	280-		12-4-6-5-8-3-3-1-2-3-3-2-2-				-1-	-	-	-											0.75
56-43.3261-109.2086-2-07-						0-W07075-09/28/79-17-			23-14.2-	-	-	-	7.7-	490-		11-3-7-5-8-3-3-1-2-4-3-3-2-				-1-	-	-	-											9.83
56-43.3325-109.2322-2-07-						0-W07076-09/28/79-18-			23-13.2-0-		-	-	7.6-	890-		11-3-7-5-6-3-3-2-2-3-3-3-2-				-1-	-	-	-											11.00
56-43.3347-109.2369-2-08-						0-W07077-09/28/79-18-			23-13.8-0-		-	-	7.5-	420-		9-3-7-	-	-3-3-1-	-3-3-3-2-	-3-3-3-	-	-	-											11.45
56-43.4228-109.3647-2-07-						0-W07078-09/29/79- 8-			12-10.2-	-	-	-	7.8-	104-		21-3-8-4-6-3-3-1-2-3-3-3-1-				-1-	-	-	-											1.03
56-43.3544-109.4111-2-08-						0-W07079-09/29/79- 9-			24- 9.7-0-		-	-	7.0-	365-		-3-7-5-8-3-3-1-		-3-3-4-1-		-1-	-	-	-											2.22
56-43.3381-109.4350-2-07-						0-W07080-09/29/79-10-			24-10.7-	-	-	-	8.1-	25-		-3-7-4-7-3-3-1-2-3-3-4-1-				-1-	-	-	-											0.03
56-43.3514-109.4039-2-07-						0-W07081-09/29/79-11-			25-11.5-	-	-	-	7.6-	37-		-3-7-4-7-3-3-3-2-3-3-4-1-				-1-	-	-	-											0.19
56-43.4250-109.3656-2-08-						0-W07082-09/29/79-12-			24-16.1-0-		-	-	7.5-	147-		21-3-7-	-	-3-3-1-	-3-3-3-2-	-1-3-	-	55-	-											0.22
56-43.3039-109.3858-2-08-						0-W07084-09/29/79-15-			23-11.1-0-		-	-	9.6-	205-		13-3-7-5-8-2-2-1-		-3-3-4-2-		-3-	-	-	-											1.39
56-43.2700-109.4311-2-07-						0-W07087-09/29/79-16-			25-12.4-0-		-	-	7.3-	204-		-2-7-5-6-2-2-1-2-2-3-5-2-				-3-	-	-	-											1.22
56-43.2631-109.4342-2-07-						0-W07088-09/29/79-17-			24-10.3-	-	-	-	7.2-	22-		-3-8-4-7-3-3-1-2-2-3-5-2-				-1-	-	-	-											0.39
56-43.3039-109.3636-2-07-						0-W07091-09/29/79-19-			22-10.1-	-	-	-	7.4-	24-		14-3-7-4-7-3-3-1-2-3-3-4-2-				-1-	-	-	-											0.38
56-43.0442-109.2014-2-07-						0-W07092-09/29/79-10-			17- 9.1-	-	-	-	8.1-	45-		8-2-7-5-7-3-3-2-2-2-3-5-2-				-1-	-	-	-											0.03
56-43.0511-109.2139-2-07-						0-W07093-09/29/79-11-			17- 6.0-	-	-	-	7.6-	86-		8-2-7-5-7-3-3-2-2-2-3-5-2-				-1-	-	-	-											0.45
56-43.0500-109.2275-2-07-						0-W07094-09/29/79-11-			18- 5.5-	-	-	-	7.3-	55-		7-2-7-5-7-3-3-2-2-2-3-5-2-				-1-	-	-	-											0.02
56-43.0425-109.2361-2-07-						0-W07095-09/29/79-12-			19- 7.0-0-		-	-	7.4-	55-		10-2-7-5-7-3-3-2-2-2-3-5-2-				-1-	-	-	-											0.72
56-43.0350-109.1375-2-07-						0-W07096-09/30/79- 9-			11- 8.0-0-		-	-	6.5-	100-		22-2-7-5-7-3-3-1-2-2-3-5-2-				-1-	-	-	-											0.30
56-43.0225-109.1356-2-07-						0-W07097-09/29/79-17-			14-10.0-0-		-	-	8.0-	40-		8-2-7-5-7-3-3-2-2-1-3-5-2-				-1-	-	-	-											0.21
56-43.0236-109.1350-2-07-						0-W07098-09/29/79-18-			14-11.0-0-		-	-	8.2-	25-		10-2-7-5-7-4-3-1-2-1-3-5-2-				-1-	-	-	-											0.48
56-43.0011-108.9578-2-08-						0-W07099-09/30/79-10-			14-14.0-0-		-	-	8.3-	350-		8-1-7-	-	-3-3-1-	-3-2-1-1-	-1-8-	-	-	-											1.87
56-43.0017-108.9336-2-08-						0-W07100-09/30/79-11-			17-12.0-0-		-	-	7.5-	1500-		3-1-7-	-	-3-3-1-	-3-2-1-1-	-1-4-	-	-	-											5.02
56-43.0014-109.0107-2-07-						0-W07101-09/30/79-12-			24-15.0-	-	-	-	8.0-	45-		10-1-4-4-6-2-3-2-2-3-2-2-1-				-	-	-	-											2.57
56-43.0314-108.9678-2-08-						0-W07105-09/30/79-15-			26-16.0-0-		-	-	8.0-	330-		4-1-7-	-	-3-3-1-	-3-2-1-2-	-1-4-	6-	55-	10-											0.93
56-43.0672-108.8931-2-08-						0-W07106-09/30/79-17-			25-16.0-0-		-	-	8.1-	360-		4-1-7-	-	-3-3-1-	-4-2-2-1-	-1-4-	-	-	-											0.62
56-43.0256-108.9261-2-08-						0-W07107-09/30/79-14-			25-17.0-0-		-	-	7.5-	250-		2-1-7-	-	-3-3-1-	-3-2-1-2-	-1-8-	-	-	-											0.91
56-43.0708-108.9094-2-07-						0-W07109-09/30/79-17-			25-17.0-	-	-	-	7.5-	1200-		4-1-7-6-8-2-3-2-3-4-3-2-1-				-3-	-	-	-											0.31
56-43.1094-108.9136-2-07-						0-W07110-09/30/79-17-			20-19.0-	-	-	-	7.6-	1600-		14-1-6-5-8-3-3-1-3-4-3-2-1-				-1-	-	-	-											0.65
56-43.0939-108.9017-2-08-						0-W07111-09/30/79-18-			20-19.0-	-	-	-	7.5-	1900-		7-1-7-	-	-3-3-1-	-4-3-2-1-	-1-8-	-	-	-											1.06
56-43.2733-109.1008-2-08-						0-W07116-10/01/79-19-			20-13.0-	-	-	-	8.0-	600-		10-1-6-	-	-3-3-1-	-3-2-1-1-	-1-4-	-	40-	-											6.09
56-43.2789-109.1256-2-08-						0-W07117-10/01/79-19-			20-22.0-0-		-	-	7.5-	550-		6-1-7-	-	-3-3-1-	-4-3-1-1-	-1-8-	-	-	-											8.12
56-43.2364-109.2336-2-07-						0-W07118-10/02/79-10-			20- 7.0-	-	-	-	8.1-	230-		8-1-4-6-8-3-3-1-2-3-2-3-2-				-1-	-	-	-											0.26
56-43.2147-109.2481-2-08-						0-W07119-10/02/79-11-			20-11.0-	-	-	-	7.5-	1000-		6-1-7-6-8-2-3-1-2-2-2-2-2-				-3-	-	-	-											1.32
56-43.2156-109.1975-2-07-						0-W07122-10/02/79-14-			18-16.0-0-		-	-	7.2-	600-		6-1-7-4-6-3-3-1-2-4-2-2-2-				-3-	-	-	-											3.85
56-43.2206-109.2867-2-08-						0-W07131-10/02/79-17-			20-14.0-	-	-	-	8.0-	600-		6-1-7-	-	-3-3-1-	-3-2-1-2-	-1-3-	-18	0-	-											6.47
56-43.0822-108.9189-2-08-						0-W07144-10/01/79-12-			32-15.2-	-	-	-	7.0-	750-		10-1-6-5-6-2-2-1-		-2-3-2-1-		-3-	-	-	-											2.32
56-43.1242-108.9597-2-07-						0-W07146-10/01/79-13-			34-14.8-0-		-	-	7.5-	700-		8-1-6-5-6-2-2-1-2-2-3-2-1-				-3-	-	-	-											1.36
56-43.1223-108.9722-2-08-						0-W07148-10/01/79-13-			34-14.8-0-		-	-	7.4-	700-		14-1-6-	-	-3-3-1-	-3-1-2-1-	-1-	-	-	-											4.65
56-43.1444-109.1522-2-07-						0-W07150-10/01/79-14-			34-13.1-0-		-	-	7.5-	330-		8-1-6-5-6-2-2-1-2-2-2-3-1-				-3-	-	-	-											0.93
56-43.1264-109.2092-2-08-						0-W07151-10/01/79-15-			30-10.5-0-		-	-	7.3-	350-		12-1-7-	-	-2-2-1-	-1-2-5-1-	-1-	-	-	-											1.03
56-43.1128-109.2225-2-07-						0-W07152-10/01/79-15-			30- 6.0-	-	-	-	7.8-	70-		6-2-7-4-6-3-3-1-2-1-2-5-1-				-1-	-	-	-											0.33
56-43.1119-109.2217-2-07-						0-W07153-10/01/79-16-			30- 5.5-	-	-	-	7.6-	150-		16-2-7-5-8-3-3-1-2-1-3-5-1-				-1-	-	-	-											0.29
56-43.4786-109.1211-2-08-						0-W07172-10/02/79-14-			30-11.5-0-		-	-	6.9-	2200-		10-1-6-	-	-2-2-1-	-3-1-3-1-	-1-	-	-	-											1.45
56-43.5461-108.9614-2-07-						0-W07185-10/04/79-13-			28-13.2-0-		-	-	7.8-	1500-		4-1-6-5-6-2-2-1-2-3-1-3-1-				-3-	-	-	-											8.54
56-43.4389-108.9214-2-07-						0-W07191-10/04/79-14-			32-21.5-0-		-	-	7.8-	4500-		8-1-6-5-6-2-2-1-2-3-1-3-1-				-3-	-	-	-											7.45
56-43.3639-109.2744-2-08-						0-W07192-09/30/79- 9-			23-14.7-0-		-	-	8.4-	1550-		18-4-6-	-	-3-3-1-	-3-3-2-2-	-1-3-	-	60-	-											1.00
56-43.3211-109.3075-2-07-						0-W07193-09/30/79-10-			24-15.1-0-		-	-	7.7-	1290-		14-3-7-5-7-2-2-1-2-3-3-4-2-				-3-	-	-	-											3.60
56-43.3372-109.2967-2-07-						0-W07195-09/30/79-11-			25-14.8-0-		-	-	7.9-	490-		15-3-7-5-8-3-3-1-2-2-3-3-2-				-3-	-	-	-											0.47

APPENDIX I-A. (continued). 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (ℍ) UNITS IN ppb
56-43.3197-109.2754-2-06-						0-W07196-09/30/79-12-	26~21.2-0-		-	-			7.1-	2490-		12-3-7-5-6-2-2-1-	-3-3-4-2-	-3-	-	-	-	-	8.47
56-43.2839-109.2544-2-07-						0-W07197-09/30/79-13-	25~17.2-		-	-			7.8-	185-		10-3-7-4-6-3-3-1-2-3-3-4-2-		-1-	-	-	-	-	0.19
56-43.2844-109.2553-2-07-						0-W07198-09/30/79-13-	25~14.0-0-		-	-			7.8-	500-		9-3-7-4-6-3-3-1-2-3-3-4-2-		-9-	-	-	-	-	0.81
56-43.2822-109.2908-2-07-						0-W07199-09/30/79-14-	25~13.8-		-	-			7.9-	450-		6-1-4-5-8-3-3-1-2-3-3-4-2-		-1-	-	-	-	-	1.16
56-43.2781-109.3083-2-08-						0-W07201-09/30/79-15-	25~16.8-0-		-	-			7.4-	150-		8-1-4- - -2-3-1- -2-3-4-2-		-1-3-	-	60-	-	-	0.45
56-43.2831-109.1823-2-07-						0-W07202-09/30/79-16-	24~17.8-0-		-	-			7.8-	279-		9-3-7-5-6-3-3-1-2-3-3-4-2-		-3-	-	-	-	-	0.40
56-43.2719-109.2078-2-07-						0-W07204-09/30/79-16-	25~16.5-		-	-			7.8-	268-		12-3-7-5-7-3-3-1-2-3-3-4-2-		-1-	-	-	-	-	0.90
56-43.1917-109.3075-2-06-						0-W07205-09/30/79-17-	23~ 9.6-		-	-			7.7-	480-		10-3-7-5-6-2-2-1- -1-3-5-2-		-1-	-	-	-	-	0.93
56-43.1706-109.3381-2-07-						0-W07206-09/30/79-18-	23~ 9.2-		-	-			7.5-	250-		1-3-7-4-8-3-3-1-2-1-3-5-3-		-1-	-	-	-	-	0.63
56-43.1719-109.3269-2-06-						0-W07207-09/30/79-19-	22~ 7.8-		-	-			7.6-	590-		12-3-1-5-6-2-2-1- -1-3-5-3-		-1-	-	-	-	-	0.43
56-43.2206-109.2572-2-07-						0-W07209-10/01/79-12-	22~		-	-			7.6-	160-		10-3-7-4-6-3-3-1-2-2-2-4-1-		-1-	-	-	-	-	0.31
56-43.1953-109.3097-2-07-						0-W07210-10/01/79-10-	22~ 9.6-		-	-			7.6-	42-		-3-7-4-6-3-3-1-2-1-3-5-1-		-1-	-	-	-	-	0.25
56-43.1958-109.3106-2-07-						0-W07211-10/01/79-10-	23~ 9.4-		-	-			7.3-	34-		-3-7-4-8-3-3-1-2-1-3-5-1-		-1-	-	-	-	-	0.40
56-43.2386-109.2650-2-07-						0-W07212-10/01/79-12-	24~16.2-0-		-	-			7.9-	480-		16-3-7-5-6-2-2-1-2-3-3-4-2-		-3-	-	-	-	-	0.33
56-43.2594-109.2322-2-07-						0-W07213-10/01/79-12-	24~15.2-0-		-	-			7.8-	590-		8-3-7-5-6-3-3-1-2-3-3-4-2-		-3-	-	-	-	-	0.62
56-43.2589-109.2311-2-07-						0-W07214-10/01/79-13-	25~14.9-0-		-	-			7.7-	240-		10-3-7-5-6-3-3-1-2-3-3-4-2-		-3-	-	-	-	-	0.16
56-43.2281-109.3686-2-06-						0-W07216-10/01/79-17-	20~ 6.2-		-	-			7.7-	295-		12-3-7-5-8-3-3-1- -1-3-5-2-		-1-	-	-	-	-	0.33
56-43.2714-109.2811-2-07-						0-W07218-10/01/79-19-	20~11.2-0-		-	-			7.7-	175-		10-3-7-5-6-3-3-1-2-3-3-4-2-		-3-	-	-	-	-	0.32
56-43.2619-109.3314-2-07-						0-W07220-10/01/79-19-	20~18.7-		-	-			7.8-	187-		9-3-7-5-8-3-3-1-2-2-2-4-2-		-1-	-	-	-	-	0.58
56-43.2517-109.3883-2-07-						0-W07221-10/02/79- 9-	22~ 9.6-		-	-			7.2-	58-		-3-7-5-8-3-3-1-2-1-3-5-3-		-1-	-	-	-	-	0.05
56-43.2681-109.3592-2-07-						0-W07222-10/02/79-10-	23~ 9.8-		-	-			7.6-	60-		-3-7-4-6-3-3-1-2-1-3-5-3-		-1-	-	-	-	-	0.16
56-43.2542-109.3453-2-06-						0-W07223-10/02/79-11-	23~ 9.2-		-	-			7.5-	187-		6-3-7-4-6-3-3-1- -1-3-4-2-		-1-	-	-	-	-	0.15
56-43.2428-109.7217-2-08-						0-W07231-10/02/79-14-	23~17.9-0-		-	-			7.3-	1210-		9-4-6- - -3-3-1- -3-3-3-2-		- -3-	-	60-	-	-	34.57*
56-43.2292-108.6958-2-08-						0-W07232-10/02/79-14-	23~18.7-0-		-	-			7.7-	3300-		12-4-7- - -3-3-1- -3-3-3-2-		-1-3-	-	-	-	-	5.85
56-43.1967-108.6958-2-08-						0-W07233-10/02/79-15-	24~17.4-0-		-	-			7.5-	550-		8-4-7- - -3-3-1- -3-3-3-2-		-1-3-	-	-	-	-	0.90
56-43.1983-108.7267-2-08-						0-W07234-10/02/79-15-	23~20.2-0-		-	-			7.0-	1850-		12-4-7- - -3-3-1- -3-3-3-2-		-1-3-	-	70-	-	-	21.33
56-43.C906-108.5779-2-08-						0-W07237-10/02/79-17-	20~18.6-0-		-	-			8.5-	950-		15-4-6- - -3-3-1- -3-3-3-2-		-1-3-	-	180-	-	-	0.61
56-43.C742-108.5436-2-08-						0-W07238-10/02/79-17-	20~19.3-0-		-	-			7.6-	2600-		16-4-6- - -3-3-1- -3-3-3-2-		-9-	-	-	-	-	2.25
56-43.C589-108.5214-2-08-						0-W07240-10/02/79-18-	20~18.6-0-		-	-			8.9-	900-		16-4-6- - -3-3-1- -3-3-3-2-		-9-	-	-	-	-	0.34
56-43.C400-108.5136-2-08-						0-W07241-10/02/79-18-	19~17.3-0-		-	-			8.3-	550-		14-4-6- - -3-3-1- -3-3-3-2-		-9-3-	-	360-	-	-	0.09
56-43.4806-108.9878-2-06-						0-W07249-10/04/79-15-	32~15.5-		-	-			7.8-	1700-		4-1-6-4-7-2-2-1- -3-2-3-1-		-4-	-	-	-	-	1.30
56-43.4819-108.9900-2-07-						0-W07248-10/04/79-16-	32~17.2-		-	-			7.8-	1450-		5-1-6-5-6-2-2-1-2-3-2-3-1-		-4-	-	-	-	-	1.22
56-43.4828-108.9481-2-06-						0-W07247-10/04/79-17-	32~13.1-		-	-			7.3-	4700-		6-1-6-4-7-2-2-1- -3-1-3-1-		-3-	-	-	-	-	1.51
56-43.5742-108.9161-2-07-						0-W07256-10/05/79-14-	33~15.8-		-	-			7.6-	3500-		12-1-6-5-4-2-2-1-2-3-1-3-2-		-3-	-	-	-	-	9.77
56-43.5883-108.9500-2-06-						0-W07256-10/05/79-15-	33~10.5-0-		-	-			7.4-	2400-		6-1-6- - -2-2-1- -3-1-4-2-		-1-	-	-	-	-	33.04*
56-43.5933-109.0575-2-07-						0-W07261-10/05/79-16-	25~16.5-		-	-			8.1-	600-		4-1-6-6-7-2-2-4-2-3-1-4-3-		-3-	-	-	-	-	0.37
56-43.5978-109.0717-2-07-						0-W07262-10/05/79-17-	25~14.5-		-	-			8.0-	450-		10-1-6-4-7-2-2-1-2-2-1-4-3-		-3-	-	-	-	-	0.31
56-43.4944-109.0253-2-07-						0-W07267-10/06/79-11-	32~14.0-0-		-	-			7.7-	1600-		15-1-6-4-6-2-2-3-2-3-1-3-1-		-4-	-	-	-	-	1.12
56-43.5064-109.0447-2-07-						0-W07268-10/06/79-11-	32~13.4-0-		-	-			7.8-	1600-		4-1-6-4-6-2-2-3-2-3-2-3-1-		-4-	-	-	-	-	0.35
56-43.5364-109.0092-2-06-						0-W07271-10/06/79-12-	32~14.2-0-		-	-			7.3-	6500-		20-1-6- - -2-2-2- -3-1-4-1-		-1-	-	-	-	-	3.12*
56-43.5647-109.1083-2-07-						0-W07277-10/06/79-16-	32~15.5-		-	-			7.9-	1700-		12-1-6-4-4-2-2-1-2-2-2-3-1-		-3-	-	-	-	-	5.01
56-43.5408-109.1069-2-07-						0-W07282-10/06/79-17-	30~15.5-		-	-			7.6-	300-		10-1-6-4-6-2-2-2-2-2-2-3-1-		-3-	-	-	-	-	0.22
56-43.5163-109.1600-2-07-						0-W07280-10/07/79-11-	26~10.5-		-	-			7.8-	1600-		12-1-4-4-4-2-2-1-2-2-1-3-3-		-3-	-	-	-	-	3.45
56-43.5594-109.1281-2-07-						0-W07290-10/07/79-13-	30~13.8-0-		-	-			8.0-	650-		13-1-6-4-6-2-2-1-2-2-1-3-1-		-3-	-	-	-	-	2.58
56-43.5603-109.1275-2-07-						0-W07291-10/07/79-13-	30~11.8-		-	-			7.8-	230-		8-1-6-4-6-2-2-1-2-2-1-4-1-		-3-	-	-	-	-	0.51
56-43.5841-109.1492-2-07-						0-W07293-10/07/79-14-	30~14.6-		-	-			7.5-	140-		8-4-7-5-6-3-3-1-2-1-3-4-1-		-1-	-	-	-	-	0.58
56-43.5850-109.1500-2-07-						0-W07294-10/07/79-15-	30~12.2-		-	-			7.5-	160-		8-4-7-4-6-3-3-1-2-1-4-4-1-		-1-	-	-	-	-	1.55
56-43.5886-109.1375-2-06-						0-W07295-10/07/79-15-	28~13.8-		-	-			7.6-	250-		6-1-7-4-7-2-2-1- -4-2-4-2-		-3-	-	-	-	-	2.65
56-43.6008-109.1550-2-07-						0-W07296-10/07/79-16-	30~10.0-		-	-			7.5-	150-		10-4-7-4-6-3-3-1-2-1-3-4-1-		-1-	-	-	-	-	0.42
56-43.6147-109.1317-2-06-						0-W07297-10/07/79-16-	28~15.2-		-	-			7.3-	80-		12-4-6-6-6-2-2-1- -4-1-4-1-		-1-	-	-	-	-	0.25
56-43.5269-109.1586-2-06-						0-W07298-10/07/79-17-	28~10.0-0-		-	-			6.7-	2200-		12-1-4-5-7-2-2-1- -4-2-3-3-		-3-	-	-	-	-	6.67

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASURMENTS	pH	CONDUCTIVITY (μmho/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 OR DNC (ℍ) UNITS IN ppb
56-	43.5297-	109.1603-2-07-				0-W07299-	10/07/79-	18-	28-	15.5-	-	-	7.5-	2500-		8-1-4-4-4-2-2-1-2-1-1-3-3-	-3-	-	-	-	-	4.45
56-	43.5289-	109.1550-2-07-				0-W07300-	10/07/79-	18-	28-	12.1-	0-	-	8.0-	1500-		12-1-4-4-4-2-2-1-2-1-1-3-3-	-3-	-	-	-	-	3.29
56-	43.5983-	109.3178-2-06-				0-W07301-	10/08/79-	9-	21-	4.4-	-	-	7.8-	800-		8-4-6-5-7-2-2-1-	-4-1-4-1-	-1-	-	-	-	1.17
56-	43.6000-	109.3547-2-07-				0-W07302-	10/08/79-	9-	26-	6.0-	-	-	8.1-	900-		14-1-1-4-7-2-2-1-2-4-1-4-1-	-1-	-	-	-	-	4.01
56-	43.5619-	109.3481-2-07-				0-W07305-	10/08/79-	11-	30-	8.0-	-	-	8.1-	600-		8-1-7-4-7-2-2-1-2-2-1-3-1-	-3-	-	-	-	-	5.17
56-	43.5611-	109.3453-2-07-				0-W07306-	10/08/79-	11-	30-	13.2-	-	-	8.3-	600-		12-1-7-5-6-2-2-1-2-2-1-3-1-	-3-	-	-	-	-	0.61
56-	43.5525-	109.3514-2-07-				0-W07307-	10/08/79-	12-	30-	8.5-	-	-	8.0-	450-		35-1-6-4-7-2-2-1-2-2-1-3-1-	-3-	-	-	-	-	2.14
56-	43.5294-	109.3406-2-07-				0-W07309-	10/08/79-	13-	30-	14.0-	-	-	8.5-	400-		20-1-6-4-6-3-3-1-2-2-1-3-1-	-3-	-	-	-	-	1.05
56-	43.5164-	109.3331-2-07-				0-W07312-	10/08/79-	14-	30-	16.2-	-	-	8.5-	400-		40-1-6-4-6-2-2-1-2-2-1-3-2-	-3-	-	-	-	-	3.69
56-	43.7496-	109.1544-2-07-				0-W07316-	10/10/79-	14-	30-	9.2-	-	-	8.1-	70-		10-4-7-2-7-3-3-1-2-4-2-5-3-	-1-	-	-	-	-	0.86
56-	43.7383-	109.1461-2-07-				0-W07317-	10/10/79-	14-	28-	11.2-	-	-	8.2-	80-		12-4-7-2-7-3-3-1-2-4-1-5-3-	-1-	-	-	-	-	0.33
56-	43.7272-	109.1394-2-07-				0-W07318-	10/10/79-	15-	28-	12.3-	-	-	7.7-	80-		18-4-7-4-6-3-3-1-2-1-3-5-3-	-1-	-	-	-	-	0.01
56-	43.7275-	109.1372-2-07-				0-W07319-	10/10/79-	15-	28-	10.0-	-	-	7.6-	100-		12-4-7-4-6-3-3-1-2-4-1-5-3-	-1-	-	-	-	-	0.06
56-	43.7186-	109.1283-2-07-				0-W07320-	10/10/79-	15-	28-	12.5-	-	-	8.1-	105-		20-4-7-4-6-2-2-1-2-4-1-5-3-	-1-	-	-	-	-	0.18
56-	43.7111-	109.1214-2-07-				0-W07321-	10/10/79-	16-	28-	11.3-	-	-	7.7-	80-		8-4-7-4-6-3-3-1-2-1-3-5-3-	-1-	-	-	-	-	0.02
56-	43.6942-	109.1089-2-07-				0-W07322-	10/10/79-	16-	28-	10.5-	-	-	7.9-	90-		12-4-7-4-6-3-3-1-2-4-2-5-3-	-1-	-	-	-	-	0.04
56-	43.6939-	109.1069-2-07-				0-W07323-	10/10/79-	16-	28-	14.2-	-	-	7.9-	180-		12-4-7-4-6-2-2-1-2-4-1-4-3-	-1-	-	-	-	-	0.03
56-	43.7111-	109.0922-2-07-				0-W07324-	10/10/79-	16-	28-	12.0-	-	-	7.4-	150-		11-4-7-4-6-2-2-1-2-4-2-4-2-	-1-	-	-	-	-	0.26
56-	43.6772-	109.1053-2-07-				0-W07326-	10/10/79-	17-	28-	12.5-	-	-	7.8-	110-		10-4-6-5-6-3-3-1-2-2-2-4-1-	-3-	-	-	-	-	0.03
56-	43.6672-	109.0858-2-07-				0-W07327-	10/10/79-	18-	26-	12.6-	-	-	7.8-	260-		12-1-1-6-6-3-3-1-2-4-1-4-1-	-3-	-	-	-	-	1.12
56-	43.6664-	109.0878-2-07-				0-W07328-	10/10/79-	18-	25-	8.8-	-	-	7.7-	250-		14-1-7-5-6-2-2-1-2-4-1-4-1-	-1-	-	-	-	-	1.36
56-	43.6861-	109.0736-2-07-				0-W07329-	10/10/79-	19-	24-	10.2-	-	-	8.3-	250-		10-4-6-6-6-2-2-1-2-4-1-4-1-	-3-	-	-	-	-	0.48
56-	43.6925-	109.1525-2-07-				0-W07333-	10/11/79-	9-	20-	3.5-	-	-	7.5-	130-		12-4-7-5-6-2-2-1-2-4-2-4-2-	-1-	-	-	-	-	0.30
56-	43.6900-	109.1514-2-07-				0-W07334-	10/11/79-	9-	20-	4.2-	-	-	7.2-	90-		18-4-7-5-6-2-2-1-2-1-3-4-2-	-1-	-	-	-	-	0.43
56-	43.7031-	109.1761-2-07-				0-W07335-	10/11/79-	9-	24-	6.0-	-	-	7.3-	120-		5-4-6-4-6-2-2-1-2-4-2-4-2-	-1-	-	-	-	-	0.55
56-	43.7072-	109.1881-2-07-				0-W07336-	10/11/79-	10-	25-	5.0-	-	-	7.3-	70-		12-4-7-5-6-2-2-1-2-1-3-4-1-	-1-	-	-	-	-	0.04
56-	43.7297-	109.2069-2-07-				0-W07338-	10/11/79-	11-	28-	5.5-	-	-	7.4-	80-		18-4-7-4-6-3-3-1-2-1-2-5-1-	-1-	-	-	-	-	0.05
56-	43.7211-	109.2044-2-07-				0-W07340-	10/11/79-	12-	30-	7.2-	-	-	7.4-	110-		14-4-7-4-6-2-2-1-2-1-3-4-1-	-1-	-	-	-	-	0.51
56-	43.2653-	108.9319-2-08-				0-W07348-	10/04/79-	14-	30-	15.0-	0-	-	7.3-	2000-		5-1-7- - -3-3-1- -4-2-2-1-	-1-8-	-	-	-	-	70.95*
56-	43.2364-	108.9175-2-08-				0-W07354-	10/04/79-	17-	23-	16.0-	0-	-	6.8-	4500-		11-1-7- - -3-3-1- -4-2-2-1-	-1-4-	-	80-	20-		14.67
56-	43.2178-	108.9572-2-08-				0-W07356-	10/04/79-	18-	20-	16.0-	0-	-	7.6-	900-		8-1-7- - -3-3-1- -3-2-2-1-	-1-8-	-	-	-	-	24.02*
56-	43.0661-	109.2889-2-07-				0-W07357-	10/05/79-	12-	13-	7.0-	0-	-	8.0-	65-		6-2-7-5-8-2-2-1-3-3-2-3-1-	- - -	-	-	-		0.85
56-	43.0667-	109.2858-2-06-				0-W07358-	10/05/79-	12-	14-	6.0-	0-	-	9.0-	55-		4-2-7-5-8-2-2-1-3-3-2-3-1-	-1-	-	-	-	-	0.79
56-	43.0833-	109.2917-2-06-				0-W07359-	10/05/79-	13-	15-	6.0-	-	-	8.6-	70-		6-2-7-5-8-2-2-1-3-3-2-3-1-	-1-	-	-	-	-	0.78
56-	43.0933-	109.2994-2-07-				0-W07360-	10/05/79-	14-	21-	7.2-	-	-	8.6-	55-		7-2-7-5-8-2-2-1-3-4-3-3-2-	- - -	-	-	-		0.76
56-	43.0697-	109.3294-2-07-				0-W07361-	10/05/79-	15-	18-	6.0-	-	-	8.8-	35-		10-2-7-5-8-3-3-1-2-3-3-3-2-	-1-	-	-	-	-	0.03
56-	43.4842-	109.2514-2-08-				0-W07362-	10/06/79-	9-	18-	11.0-	0-	-	7.9-	400-		16-1-7- - -3-3-1- -2-3-2-1-	-1-4-	-	-	-	-	1.49
56-	43.4744-	109.2436-2-08-				0-W07363-	10/06/79-	10-	18-	12.0-	-	-	7.5-	600-		6-1-7- - -3-3-1- -2-2-2-1-	-1-5-	-	45-	10-		22.53
56-	43.4711-	109.2406-2-07-				0-W07365-	10/06/79-	10-	19-	10.0-	0-	-	7.4-	-		10-1-7-5-6-3-3-1-2-2-3-2-1-	- - -	-	-	-		8.19
56-	43.4822-	109.2497-2-07-				0-W07367-	10/06/79-	11-	20-	12.0-	-	-	7.4-	380-		14-1-7-5-7-3-3-1-2-2-2-2-1-	-3-	-	-	-		5.13
56-	43.4517-	109.2322-2-07-				0-W07370-	10/06/79-	12-	25-	15.0-	0-	-	7.4-	-		8-1-7-4-6-3-3-1-2-3-2-2-1-	-1-	-	-	-		10.06*
56-	43.4289-	109.2156-2-07-				0-W07374-	10/06/79-	13-	26-	16.0-	0-	-	8.1-	550-		10-1-7-5-7-3-3-1-2-2-3-2-2-	-3-	-	-	-		6.54
56-	43.3825-	109.1883-2-07-				0-W07376-	10/06/79-	14-	25-	12.0-	0-	-	8.3-	600-		6-1-7-5-7-2-2-2-2-3-2-2-2-	-1-	-	-	-		5.67
56-	43.5958-	109.2472-2-07-				0-W07379-	10/07/79-	12-	17-	7.0-	-	-	7.8-	120-		10-3-1-4-6-3-3-1-2-4-2-3-2-	-1-	-	-	-		0.01
56-	43.5968-	109.2433-2-07-				0-W07380-	10/07/79-	12-	17-	10.0-	-	-	7.8-	140-		14-3-1-5-8-3-2-1-2-4-2-3-2-	-1-	-	-	-		0.14
56-	43.5986-	109.2461-2-07-				0-W07381-	10/07/79-	13-	19-	9.5-	0-	-	7.7-	85-		10-3-7-4-6-3-3-1-2-3-2-3-2-	-1-	-	-	-		0.01
56-	43.6222-	109.2431-2-06-				0-W07382-	10/07/79-	13-	20-	8.0-	-	-	7.8-	100-		4-3-7-5-8-2-3-1-3-1-3-3-2-	-1-	-	-	-		0.16
56-	43.6214-	109.2406-2-07-				0-W07383-	10/07/79-	14-	22-	12.0-	-	-	7.7-	75-		6-3-7-5-6-3-3-1-2-4-3-3-2-	-1-	-	-	-		0.40
56-	43.6342-	109.2353-2-07-				0-W07384-	10/07/79-	14-	23-	13.0-	-	-	8.0-	75-		14-3-7-5-7-3-3-1-2-3-3-3-2-	-1-	-	-	-		0.27
56-	43.6533-	109.2344-2-07-				0-W07385-	10/07/79-	14-	24-	12.0-	-	-	8.4-	70-		12-3-7-5-7-3-3-1-2-3-3-3-2-	-1-	-	-	-		0.95
56-	43.7147-	109.2728-2-07-				0-W07386-	10/07/79-	17-	15-	8.0-	-	-	8.0-	80-		10-3-1-5-6-3-3-1-2-4-2-4-2-	-1-	-	-	-		0.20

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (#) UNITS IN ppb
56-43.6961-109.2567-2-07-						0-W07388-10/07/79-16-	14-	6.5-0-	-	-	8.6-	-		9-3-7-4-7-3-3-1-2-4-2-4-3-	-1-	-	-	-	-	0.30
56-43.6747-109.2331-2-07-						0-W07389-10/07/79-18-	18-	8.0-	-	-	7.9-	-		10-3-7-5-7-3-3-1-2-1-4-5-3-	-1-	-	-	-	-	0.53
56-43.6764-109.2350-2-07-						0-W07391-10/07/79-18-	18-	8.0-0-	-	-	8.2-	-		15-3-7-5-7-3-3-1-2-1-4-5-3-	-	-	-	-	-	0.25
56-43.5594-109.2725-2-06-						0-W07392-10/08/79-10-	10-	10.0-0-	-	-	8.3-	-		16-1-6-5-8-2-2-2-3-4-2-3-1-	-3-	-	-	-	-	0.99
56-43.5272-109.2683-2-07-						0-W07394-10/08/79-11-	10-	14.0-	-	-	8.7-	-		10-3-4-5-6-2-2-2-2-3-2-4-1-	-	-	-	-	-	3.54
56-43.5267-109.2667-2-07-						0-W07395-10/08/79-11-	10-	7.5-0-	-	-	8.7-	-		18-3-4-5-7-3-3-1-2-1-3-4-1-	-	-	-	-	-	0.86
56-43.5006-109.2597-2-07-						0-W07396-10/08/79-12-	20-	12.5-	-	-	8.4-	220-		12-1-7-5-8-3-3-1-2-2-3-3-1-	-	-	-	-	-	2.10
56-43.1194-109.0064-2-07-						0-W07397-10/08/79-14-	20-	13.5-0-	-	-	8.0-	750-		10-1-7-6-7-3-3-2-2-4-3-1-2-	-3-	-	-	-	-	1.95
56-43.1428-108.9294-2-08-						0-W07399-10/08/79-15-	20-	45.0-0-	-	-	8.4-	1200-		12-1-7- - -3-3-1- -3-2-3-2-	-4-8-	-420-	-	1.07
56-43.2233-108.8983-2-08-						0-W07400-10/08/79-17-	17-	12.0-	-	-	8.0-	1600-		12-1-6- - -3-3-1- -3-2-2-3-	- -5-	-800-	-	0.14
56-43.6417-108.3925-2-07-						0-W07402-10/10/79-12-	19-	-	-	-	7.6-	2900-		8-1-7-5-6-2-2-2-2-4-2-2-2-	-3-	-	-	-	-	5.92
56-43.6469-108.4314-2-07-						0-W07405-10/10/79-13-	17-	10.5-	-	-	7.3-	2400-		10-1-7-5-7-3-3-2-2-4-3-2-3-	-3-	-	-	-	-	4.67
56-43.6506-108.4319-2-07-						0-W07406-10/10/79-13-	19-	9.5-	-	-	6.9-	1500-		6-1-7-5-6-3-3-1-2-3-3-2-3-	-3-	-	-	-	-	4.22
56-43.6517-108.4314-2-07-						0-W07407-10/10/79-14-	19-	12.0-	-	-	6.5-	1300-		3-1-7-5-7-3-3-3-2-3-2-2-3-	-3-	-	-	-	-	4.13
56-43.6289-108.4650-2-07-						0-W07408-10/10/79-14-	20-	14.0-	-	-	7.3-	1200-		10-1-7-5-7-3-2-2-2-4-2-2-3-	-1-	-	-	-	-	3.66
56-43.6550-108.4456-2-08-						0-W07409-10/10/79-15-	20-	17.0-	-	-	8.0-	1450-		5-1-7- - -3-3-1- -3-2-2-3-	-5-3-	-	-	-	-	7.07
56-43.6417-108.4661-2-07-						0-W07410-10/10/79-15-	20-	10.0-	-	-	7.8-	1800-		6-1-6-5-7-3-3-2-2-3-2-2-3-	-	-	-	-	-	2.86
56-43.6400-108.4908-2-07-						0-W07411-10/10/79-15-	20-	12.0-	-	-	8.1-	1400-		6-1-6-6-8-2-3-2-2-3-2-2-3-	-3-	-	-	-	-	4.70
56-43.6408-108.5139-2-07-						0-W07412-10/10/79-15-	21-	12.5-	-	-	7.6-	1100-		4-1-7-6-8-2-2-3-2-3-2-2-2-	-3-	-	-	-	-	3.67
56-43.6306-108.5439-2-06-						0-W07413-10/10/79-16-	19-	13.5-	-	-	7.9-	170-		6-1-6-5-7-2-2-2-3-2-2-2-2-	-3-	-	-	-	-	0.04
56-43.6428-108.5714-2-06-						0-W07414-10/10/79-17-	17-	11.0-	-	-	7.7-	1300-		6-1-7-5-8-2-3-1-3-4-2-3-2-	-3-	-	-	-	-	0.70
56-43.6414-108.5725-2-07-						0-W07415-10/10/79-17-	16-	14.0-	-	-	8.0-	475-		12-1-7-5-8-3-2-2-2-4-2-3-2-	-3-	-	-	-	-	1.22
56-43.6467-108.5739-2-07-						0-W07416-10/10/79-18-	17-	12.0-	-	-	8.0-	600-		10-1-7-5-4-3-4-1- -4-2-2-2-	-3-	-	-	-	-	1.41
56-43.6281-108.6167-2-06-						0-W07417-10/11/79- 8-	13-	13.4-0-	-	-	8.6-	1100-		8-1-4-5-4-2-2-1-3-1-2-3-2-	-3-	-	-	-	-	3.38
56-43.6275-108.6075-2-07-						0-W07418-10/11/79- 9-	13-	8.0-	-	-	8.1-	480-		10-1-4-5-4-3-3-1-2-1-2-3-2-	-3-	-	-	-	-	1.33
56-43.6636-108.5433-2-07-						0-W07421-10/11/79-10-	14-	11.2-	-	-	7.4-	800-		8-1-7-5-7-3-3-2-2-3-2-2-2-	-	-	-	-	-	1.96
56-43.6711-108.5017-2-07-						0-W07422-10/11/79-11-	17-	10.5-	-	-	7.8-	850-		12-1-7-5-7-2-3-2-2-3-2-2-2-	-3-	-	-	-	-	2.17
56-43.6764-108.5819-2-06-						0-W07426-10/11/79-11-	17-	15.0-	-	-	8.2-	600-		12-1-7-6-7-2-2-2-2-3-2-3-2-	-3-	-	-	-	-	0.52
56-43.6822-108.5617-2-07-						0-W07427-10/11/79-12-	19-	12.5-	-	-	7.7-	1650-		11-1-7-5-7-2-3-2-2-3-2-2-2-	-3-	-	-	-	-	4.33
56-43.6964-108.5600-2-07-						0-W07429-10/11/79-12-	20-	14.0-	-	-	7.6-	3250-		10-1-7-5-7-2-2-2-2-3-2-2-2-	-3-	-	-	-	-	7.76
56-43.6969-108.5625-2-07-						0-W07430-10/11/79-13-	20-	16.5-	-	-	7.6-	4350-		6-1-7-4-7-2-2-2-2-3-2-2-2-	-9-	-	-	-	-	7.80
56-43.6911-108.5892-2-07-						0-W07431-10/11/79-13-	20-	18.0-	-	-	7.8-	2800-		7-1-6-5-7-2-2-2-2-2-3-2-3-	-3-	-	-	-	-	7.07
56-43.6808-108.6244-2-07-						0-W07440-10/12/79- 8-	12-	7.5-	-	-	7.7-	3300-		14-1-7-5-7-2-2-2-2-4-2-3-2-	-1-	-	-	-	-	6.07
56-43.4186-109.3994-2-08-						0-W07453-10/04/79-18-	21-	-0-	-	-	7.3-	530-		13-3-7- - -3-3-1- -3-3-3-1-	-1-	-	-	-	-	2.29
56-43.6714-109.3392-2-07-						0-W07459-10/05/79- 8-	9-	2.8-	-	-	9.3-	118-		15-3-8-5-8-3-3-1-2-1-3-4-1-	-1-	-	-	-	-	0.38
56-43.6461-109.3547-2-07-						0-W07460-10/05/79-10-	19-	6.8-	-	-	7.3-	122-		-3-7-4-6-3-3-1-2-2-3-4-1-	-1-	-	-	-	-	0.01
56-43.6469-109.3542-2-07-						0-W07461-10/05/79-10-	19-	7.2-	-	-	7.7-	200-		-3-7-5-6-3-3-1-2-1-3-4-1-	-1-	-	-	-	-	0.39*
56-43.6556-109.3458-2-07-						0-W07462-10/05/79-11-	21-	6.5-	-	-	7.7-	162-		-3-7-4-6-3-3-1-2-1-3-4-1-	-1-	-	-	-	-	2.04
56-43.6558-109.3442-2-07-						0-W07463-10/05/79-11-	21-	8.2-	-	-	7.8-	438-		-3-7-5-6-2-2-1-2-1-3-4-1-	-1-	-	-	-	-	0.70
56-43.6497-109.3475-2-06-						0-W07464-10/05/79-11-	21-	7.6-	-	-	7.8-	420-		-3-7-5-8-2-2-1- -1-3-4-1-	-1-	-	-	-	-	0.54
56-43.6572-109.3067-2-07-						0-W07465-10/05/79-12-	21-	8.4-	-	-	7.7-	240-		-3-7-5-6-2-2-1-2-1-3-5-1-	-1-	-	-	-	-	0.22
56-43.6583-109.3058-2-07-						0-W07466-10/05/79-12-	21-	8.1-	-	-	7.7-	125-		-3-7-5-6-3-3-1-2-1-3-5-1-	-1-	-	-	-	-	0.11
56-43.6511-109.3186-2-07-						0-W07467-10/05/79-13-	22-	9.8-	-	-	7.8-	122-		-3-7-5-6-3-3-1-2-1-3-5-2-	-1-	-	-	-	-	0.09
56-43.6353-109.3417-2-07-						0-W07468-10/05/79-15-	22-	10.2-	-	-	7.9-	140-		22-3-7-5-8-2-2-1-2-2-3-4-2-	-1-	-	-	-	-	0.02
56-43.6408-109.3700-2-07-						0-W07469-10/05/79-15-	22-	11.8-0-	-	-	7.7-	170-		17-3-7-5-8-2-2-1-2-2-3-4-2-	-1-	-	-	-	-	0.01
56-43.4722-109.4958-2-08-						0-W07473-10/05/79-17-	19-	11.5-0-	-	-	7.4-	405-		12-3-7- - -3-3-1- -3-3-4-2-	-1-	-	-	-	-	2.16
56-43.6172-109.3503-2-06-						0-W07476-10/06/79-12-	20-	10.9-	-	-	8.6-	1450-		15-3-6-5-7-2-2-1- -3-3-4-1-	-1-	-	-	-	-	5.39
56-43.6239-109.3333-2-06-						0-W07479-10/06/79-14-	21-	9.7-0-	-	-	8.0-	340-		9-3-7-5-8-2-2-2-1- -3-3-4-2-	-3-	-	-	-	-	1.00
56-43.5450-109.4575-2-08-						0-W07484-10/06/79-16-	22-	14.7-0-	-	-	7.3-	770-		12-3-7- - -3-2-1- -3-3-4-2-	-1-	-	-	-	-	10.62
56-43.4383-109.4731-2-08-						0-W07495-10/07/79- 8-	13-	15.2-0-	-	-	6.6-	710-		9-1-4- - -3-3-1- -3-3-4-3-	-1-3-	-	-	-	-	1.38
56-43.4369-109.4847-2-07-						0-W07496-10/07/79-10-	14-	12.8-	-	-	6.8-	750-		7-1-4-5-7-3-3-1-2-3-3-4-3-	-1-	-	-	-	-	1.24

APPENDIX I-A. (continued). 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (#) UNITS IN ppb
56-	43.4461-	109.4656-	2-	08-		0-W07497-	10/07/79-	10-	15-	13.0-	0-	-	7.0-	450-		12-	3-	7-	-	-3-	3-	1-	-3-	3-	4-	3-	-1-	3-	-	-	50-	-	1.21
56-	43.3953-	109.4317-	2-	07-		0-W07502-	10/07/79-	12-	22-	14.7-	0-	-	8.0-	500-		11-	1-	4-	5-	8-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	1.30
56-	43.4928-	109.3208-	2-	07-		0-W07507-	10/07/79-	14-	23-	15.8-	0-	-	8.1-	450-		7-	3-	6-	5-	8-	2-	2-	1-	2-	3-	3-	4-	2-	-3-	-	-	-	-	5.51
56-	43.2086-	108.8478-	2-	08-		0-W07525-	10/08/79-	12-	16-	15.6-	0-	-	7.4-	1030-		13-	3-	7-	-	-3-	3-	1-	-3-	3-	4-	2-	-1-	3-	-	23-	-	-	7.00
56-	43.2159-	108.8247-	2-	08-		0-W07526-	10/08/79-	12-	17-	16.8-	0-	-	7.3-	600-		14-	3-	7-	-	-3-	3-	1-	-3-	3-	3-	2-	-1-	3-	-15	0-	-	-	0.70
56-	43.1661-	108.7361-	2-	08-		0-W07527-	10/08/79-	13-	16-	10.3-	0-	-	7.6-	405-		11-	3-	7-	-	-3-	3-	1-	-3-	3-	3-	2-	-1-	3-	-25	0-	-	-	0.25
56-	43.1547-	108.7075-	2-	08-		0-W07528-	10/08/79-	13-	18-	19.6-	0-	-	6.9-	850-		14-	4-	7-	-	-3-	3-	1-	-3-	3-	3-	2-	-1-	3-	-	-	-	-	16.2E*
56-	43.1233-	108.7536-	2-	08-		0-W07533-	10/08/79-	15-	17-	15.2-	0-	-	7.4-	1400-		10-	1-	6-	-	-3-	3-	1-	-3-	3-	4-	2-	-1-	3-	-	-	-	-	0.60
56-	43.1319-	108.6717-	2-	08-		0-W07540-	10/08/79-	17-	14-	16.7-	0-	-	8.4-	400-		7-	4-	7-	-	-3-	3-	1-	-3-	3-	3-	3-	-1-	3-	-36	0-	-	-	0.26
56-	43.7206-	109.2206-	2-	07-		0-W07541-	10/11/79-	12-	30-	8.8-	0-	-	7.5-	90-		14-	4-	6-	4-	6-	3-	3-	1-	2-	1-	2-	4-	1-	-1-	-	-	-	-	0.52
56-	43.6931-	109.1467-	2-	06-		0-W07542-	10/11/79-	13-	28-	7.8-	0-	-	7.5-	100-		10-	4-	6-	5-	6-	3-	3-	1-	4-	2-	4-	2-	4-	-1-	-	-	-	-	0.66
56-	43.6678-	109.0431-	2-	07-		0-W07543-	10/11/79-	14-	28-	16.5-	0-	-	7.7-	240-		6-	4-	6-	5-	6-	2-	2-	1-	2-	4-	2-	4-	1-	-3-	-	-	-	-	0.85
56-	43.6478-	109.0372-	2-	06-		0-W07544-	10/11/79-	14-	24-	6.5-	0-	-	7.0-	290-		6-	4-	6-	-	-2-	2-	1-	-4-	1-	4-	1-	-1-	-	-	-	-	-	2.91
56-	43.6869-	109.0097-	2-	07-		0-W07546-	10/11/79-	15-	28-	10.5-	0-	-	8.3-	330-		5-	1-	1-	5-	6-	2-	2-	2-	2-	3-	2-	4-	1-	-3-	-	-	-	-	1.03
56-	43.7211-	109.0211-	2-	07-		0-W07547-	10/11/79-	16-	28-	14.5-	0-	-	7.5-	220-		12-	4-	7-	4-	6-	2-	2-	1-	2-	1-	2-	4-	1-	-3-	-	-	-	-	1.14
56-	43.7219-	109.0211-	2-	07-		0-W07548-	10/11/79-	16-	30-	12.1-	0-	-	7.6-	240-		14-	4-	7-	4-	7-	3-	3-	1-	2-	1-	2-	4-	1-	-3-	-	-	-	-	0.35
56-	43.7336-	109.0514-	2-	07-		0-W07549-	10/11/79-	17-	26-	9.0-	0-	-	7.6-	330-		10-	4-	7-	5-	6-	2-	2-	1-	2-	1-	3-	4-	1-	-1-	-	-	-	-	1.01
56-	43.7347-	109.0506-	2-	07-		0-W07550-	10/11/79-	17-	28-	11.5-	0-	-	7.5-	190-		14-	4-	7-	4-	6-	3-	3-	1-	2-	1-	2-	4-	1-	-1-	-	-	-	-	0.72
56-	43.6011-	108.1606-	2-	06-		0-W07559-	10/12/79-	0-	28-	14.5-	0-	-	7.1-	2500-		6-	1-	4-	5-	4-	2-	2-	1-	-	3-	2-	3-	0-	-1-	-	-	-	-	40.21*
56-	43.5136-	108.2817-	2-	06-		0-W07570-	10/12/79-	12-	30-	12.3-	0-	-	7.0-	1900-		12-	1-	4-	6-	4-	2-	2-	1-	-	3-	2-	3-	1-	-3-	-	-	-	-	0.01
56-	43.5353-	108.3292-	2-	06-		0-W07575-	10/12/79-	14-	30-	14.2-	0-	-	8.0-	750-		18-	1-	4-	5-	4-	2-	2-	1-	-	3-	2-	3-	1-	-3-	-	-	-	-	5.21
56-	43.5956-	108.3489-	2-	06-		0-W07581-	10/12/79-	15-	30-	16.5-	0-	-	7.5-	1200-		15-	1-	4-	-	-	3-	3-	1-	-	3-	2-	3-	1-	-1-	-	-	-	-	20.13*
56-	43.5681-	108.3633-	2-	07-		0-W07582-	10/12/79-	16-	30-	19.2-	0-	-	8.0-	2300-		4-	1-	4-	5-	4-	2-	2-	1-	2-	3-	2-	3-	1-	-3-	-	-	-	-	11.31*
56-	43.5850-	108.2153-	2-	06-		0-W07585-	10/12/79-	17-	30-	19.0-	0-	-	6.7-	1150-		10-	1-	6-	-	-3-	3-	1-	-3-	2-	3-	1-	-1-	-	-	-	-	-	1.29
56-	43.5822-	108.2125-	2-	06-		0-W07586-	10/12/79-	17-	30-	21.0-	0-	-	6.5-	1000-		18-	1-	1-	6-	8-	3-	3-	1-	-3-	2-	3-	1-	-1-	-	-	-	-	-	2.34
56-	43.5419-	108.1797-	2-	07-		0-W07587-	10/12/79-	18-	28-	13.5-	0-	-	8.3-	300-		8-	1-	7-	5-	6-	2-	2-	1-	2-	3-	1-	5-	1-	-1-	-	-	-	-	1.86
56-	43.5186-	108.1814-	2-	06-		0-W07588-	10/12/79-	18-	28-	12.8-	0-	-	7.8-	330-		8-	1-	7-	-	-3-	3-	1-	-3-	2-	3-	1-	-1-	-	-	-	-	-	0.50
56-	43.5079-	108.1683-	2-	07-		0-W07590-	10/12/79-	19-	26-	13.2-	0-	-	7.9-	350-		5-	1-	7-	5-	6-	3-	3-	1-	2-	1-	2-	3-	1-	-1-	-	-	-	-	0.44
56-	43.2317-	108.1311-	2-	07-		0-W07600-	09/14/79-	10-	23-	9.2-	0-	-	8.0-	21000-		14-	1-	1-	6-	8-	3-	3-	1-	2-	3-	1-	2-	3-	-3-	-	-	-	-	28.01*
56-	43.4194-	108.6600-	2-	08-		0-W07602-	10/10/79-	11-	19-	14.2-	0-	-	8.6-	2500-		11-	1-	6-	-	-3-	3-	1-	-3-	3-	3-	2-	-1-	3-	-	80-	-	-	1.17
56-	43.4678-	108.6653-	2-	07-		0-W07605-	10/10/79-	12-	20-	16.0-	0-	-	7.8-	1450-		11-	1-	6-	5-	6-	3-	3-	1-	2-	3-	3-	3-	2-	-1-	-	-	-	-	1.15
56-	43.5011-	108.6911-	2-	07-		0-W07609-	10/10/79-	13-	21-	17.0-	0-	-	7.8-	1150-		14-	1-	6-	5-	6-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	0.60
56-	43.5242-	108.6858-	2-	08-		0-W07601-	10/10/79-	13-	20-	15.8-	0-	-	7.4-	500-		21-	1-	6-	-	-3-	3-	1-	-3-	3-	4-	2-	-1-	3-	-	65-	-	-	0.63
56-	43.5256-	108.6864-	2-	06-		0-W07602-	10/10/79-	13-	19-	16.8-	0-	-	7.8-	420-		9-	1-	6-	5-	6-	3-	3-	1-	-3-	3-	4-	2-	-1-	-	-	-	-	-	0.68
56-	43.6117-	108.7386-	2-	07-		0-W07603-	10/10/79-	15-	17-	9.8-	0-	-	8.4-	114-		11-	3-	6-	5-	8-	3-	3-	1-	2-	1-	3-	4-	3-	-1-	-	-	-	-	0.67
56-	43.5736-	108.7269-	2-	06-		0-W07604-	10/10/79-	16-	19-	14.2-	0-	-	7.6-	325-		13-	3-	7-	5-	8-	3-	3-	1-	-3-	3-	4-	3-	-1-	-	-	-	-	-	0.67
56-	43.5736-	108.7558-	2-	06-		0-W07606-	10/10/79-	17-	19-	11.6-	0-	-	7.5-	375-		11-	3-	7-	5-	6-	3-	3-	1-	-3-	3-	4-	3-	-1-	-	-	-	-	-	0.67
56-	43.5825-	108.7786-	2-	06-		0-W07607-	10/10/79-	18-	17-	11.6-	0-	-	7.7-	420-		12-	3-	7-	5-	8-	2-	2-	1-	-3-	3-	5-	3-	-3-	-	-	-	-	-	0.26
56-	43.5558-	108.7067-	2-	07-		0-W07608-	10/10/79-	19-	16-	12.2-	0-	-	7.7-	450-		9-	3-	7-	5-	6-	2-	2-	1-	2-	3-	3-	4-	2-	-3-	-	-	-	-	0.81
56-	43.5436-	108.6925-	2-	07-		0-W07609-	10/10/79-	19-	16-	8.2-	0-	-	7.8-	430-		9-	3-	7-	5-	8-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	0.66
56-	43.5308-	108.6847-	2-	07-		0-W07611-	10/10/79-	20-	16-	11.3-	0-	-	8.1-	460-		12-	3-	7-	5-	6-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	1.08
56-	43.4331-	108.6411-	2-	07-		0-W07619-	10/11/79-	0-	19-	11.7-	0-	-	7.8-	1250-		11-	3-	7-	5-	7-	2-	2-	2-	2-	3-	3-	3-	2-	-1-	-	-	-	-	3.42
56-	43.5428-	108.8300-	2-	07-		0-W07632-	10/11/79-	14-	21-	11.2-	0-	-	7.8-	1000-		10-	3-	7-	5-	6-	3-	3-	2-	2-	3-	3-	4-	2-	-1-	-	-	-	-	3.43
56-	43.5608-	108.8206-	2-	06-		0-W07634-	10/11/79-	14-	21-	11.8-	0-	-	7.2-	2600-		6-	1-	4-	5-	7-	2-	2-	1-	-	3-	3-	4-	2-	-1-	-	-	-	-	2.34
56-	43.5722-	108.8408-	2-	06-		0-W07635-	10/11/79-	15-	21-	10.6-	0-	-	7.9-	455-		12-	1-	4-	5-	7-	2-	2-	1-	-	3-	3-	3-	2-	-1-	-	-	-	-	0.61
56-	43.6106-	108.8247-	2-	06-		0-W07637-	10/11/79-	16-	20-	9.8-	0-	-	7.6-	170-		10-	3-	6-	5-	6-	3-	3-	1-	-	3-	3-	5-	2-	-3-	-	-	-	-	0.16
56-	43.5722-	108.8525-	2-	06-		0-W07638-	10/11/79-	16-	19-	9.1-	0-	-	7.2-	800-		9-	3-	6-	5-	6-	3-	3-	1-	-	3-	3-	3-	2-	-1-	-	-	-	-	1.96
56-	43.5675-	108.8631-	2-	07-		0-W07639-	10/11/79-	17-	19-	11.6-	0-	-	7.8-	600-		1-	3-	7-	5-	6-	3-	3-	1-	2-	2-	3-	4-	2-	-1-	-	-	-	-	1.20
56-	43.5678-	108.8644-	2-	07-		0-W07640-	10/11/79-	17-	19-	11.2-	0-	-	7.9-	550-		11-	3-	6-	5-	6-	3-	3-	1-	2-	3-	3-	3-	2-	-3-	-	-	-	-	1.86
56-	43.5744-	108.8667-	2-	06-		0-W07641-	10/11/79-	18-	18-	8.6-	0-	-	7.4-	620-		11-	3-	7-	5-	6-	3-	3-	1-	-	3-	3-	3-	2-	-1-	-	-	-	-	0.39
56-	43.5572-	108.8586-	2-	07-		0-W07642-	10/11/79-	17-	18-	11.8-	0-	-	8.1-	600-		11-	3-	7-	5-	6-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	1.85

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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 OR DNC (*) UNITS IN ppb
56-43.5506-108.8469-2-07-						0-W07643-10/11/79-18-	17-11.4-C-		-	8.0-	610-	12-3-7-5-6-3-3-1-2-3-3-3-2-	-1-	-	-	-	-	0.79
56-43.5203-108.8361-2-07-						0-W07644-10/11/79-18-	17-12.9-C-		-	7.9-	1050-	15-3-7-5-6-3-3-1-2-3-3-3-2-	-3-	-	-	-	-	1.46
56-43.5200-108.8331-2-07-						0-W07645-10/11/79-18-	17-11.2-	-	-	7.9-	850-	10-3-6-5-7-3-3-1-2-3-3-3-2-	-1-	-	-	-	-	1.99
56-43.5191-108.8375-2-07-						0-W07646-10/11/79-18-	17-14.9-C-		-	7.5-	800-	14-3-6-5-6-2-2-1-2-3-3-3-2-	-3-	-	-	-	-	17.70
56-43.5036-108.7381-2-07-						0-W07648-10/11/79-19-	15-10.7-	-	-	7.9-	1100-	14-3-6-5-6-3-3-1-2-3-3-3-2-	-1-	-	-	-	-	0.83
56-43.0258-108.7542-2-08-						0-W07677-10/14/79-14-	19-14.6-C-		-	7.3-	1700-	9-3-7- - -3-3-1- -3-3-3-3-	-9-	-	-	-	-	5.22
56-43.0081-108.8344-2-06-						0-W07680-10/14/79-15-	19-10.8-C-		-	6.8-	1000-	14-3-7- - -3-3-1- -3-3-3-3-	-1-	-	-	-	-	0.57
56-43.0208-108.7344-2-08-						0-W07681-10/14/79-16-	18-16.7-C-		-	7.4-	1950-	15-3-7- - -3-3-1- -3-3-3-3-	-1-3-	-	30-	-	-	0.47
56-43.0189-108.7164-2-08-						0-W07682-10/14/79-16-	18-15.8-C-		-	7.7-	600-	14-3-7- - -3-3-1- -3-3-3-3-	-1-3-	-	-	-	-	1.42
56-43.0003-108.6753-2-08-						0-W07683-10/14/79-17-	17-15.6-	-	-	7.3-	1050-	14-3-7- - -3-3-1- -3-3-3-3-	-1-3-	-	47-	-	-	20.32
56-43.0122-108.6558-2-08-						0-W07684-10/14/79-17-	17-16.8-C-		-	7.4-	1000-	11-3-7- - -3-3-1- -3-3-3-3-	-1-3-	-	80-	-	-	7.31
56-43.0950-108.6372-2-08-						0-W07686-10/15/79-10-	14-14.7-C-		-	7.8-	400-	17-3-7- - -3-3-1- -3-3-3-3-	-1-3-	-	-	-	-	0.09
56-43.1128-108.6575-2-08-						0-W07688-10/15/79-11-	14-17.6-	-	-	7.8-	750-	14-3-7- - -3-3-1- -3-3-4-3-	-1-3-	-	-	-	-	0.86
56-43.1022-108.6767-2-08-						0-W07689-10/15/79-11-	14-16.9-C-		-	7.3-	610-	13-3-7- - -3-3-1- -3-3-3-3-	-1-3-	-	-	-	-	2.72
56-43.3281-108.4478-2-07-						0-W07691-10/15/79-18-	15-12.6-	-	-	7.6-	3850-	10-1-7-4-7-3-3-1-3-3-2-2-2-	-3-	-	-	-	-	99.38*
56-43.2539-108.5592-2-08-						0-W07694-10/17/79- 9-	10-11.5-C-		-	7.4-	1500-	6-1-6- - -3-3-1- -4-2-2-3-	-1-8-	-	32-	-	-	64.41*
56-43.2594-108.6022-2-07-						0-W07696-10/17/79-10-	10- 9.5-	-	-	7.2-	2350-	14-1-6-5-7-3-4-3-3-4-3-2-3-	-5-	-	-	-	-	60.29*
56-43.2722-108.6142-2-08-						0-W07697-10/17/79-10-	11-10.5-C-		-	6.9-	2000-	10-1-6- - -3-3-1- -4-2-1-3-	-1-8-	-	60-	-	-	126.65*
56-43.2897-108.6075-2-08-						0-W07698-10/17/79-10-	11-22.5-C-		-	7.1-	1450-	15-1-6- - -3-3-1- -4-2-2-3-	-1-8-	-280-	40-	-	-	33.09*
56-43.2878-108.6439-2-08-						0-W07699-10/17/79-10-	11-10.5-	-	-	6.7-	3450-	11-1-6- - -3-3-1- -4-2-1-3-	-1-3-	-400-	-	-	-	3.74
56-43.2561-108.6467-2-08-						0-W07700-10/17/79-11-	13-12.5-C-		-	7.6-	1100-	14-1-6- - -3-3-1- -4-2-2-2-	-1-8-	-	-	-	-	1.49
56-43.2572-108.6892-2-08-						0-W07701-10/17/79-11-	13- 9.5-C-		-	7.4-	1600-	12-1-6- - -3-3-1- -4-2-2-2-	-1-6-	-	50-	-	-	56.42*
56-43.2683-108.6756-2-08-						0-W07703-10/17/79-11-	15-15.0-	-	-	7.6-	2250-	10-1-6- - -3-3-1- -4-2-2-2-	-1-3-	-300-	-	-	-	3.62
56-43.3511-108.7653-2-07-						0-W07719-10/17/79-17-	15-	-	-	7.5-	4150-	10-1-6-5-8-3-3-1-2-3-2-2-3-	-2-	-	-	-	-	7.13
56-43.3283-108.2814-2-08-						0-W07730-10/18/79-10-	10-13.0-C-		-	7.5-	1450-	9-1-6- - -3-3-1- -3-2-1-3-	-1-8-	-	-	-	-	86.21*
56-43.3219-108.3186-2-08-						0-W07731-10/18/79-11-	10-13.5-	-	-	7.3-	2000-	7-1-6- - -3-3-1- -3-2-1-3-	-1-8-	-	-	-	-	0.86
56-43.3069-108.3664-2-08-						0-W07732-10/18/79-11-	10-13.5-	-	-	7.3-	2500-	9-1-7- - -3-3-1- -3-2-1-3-	-1-5-	-120-	18-	-	-	107.73*
56-43.3567-108.2736-2-07-						0-W07734-10/18/79-12-	12-14.5-	-	-	7.3-	3100-	8-1-6-4-6-3-3-2-2-4-2-2-3-	- - -	-	-	-	-	60.27*
56-43.3428-108.3950-2-07-						0-W07740-10/18/79-16-	14-15.0-	-	-	7.1-	2350-	8-1-7-5-7-3-3-1-3-4-2-2-2-	-3-	-	-	-	-	69.93*
56-43.6525-108.6808-2-08-						0-W07745-10/12/79-10-	16-10.5-	-	-	8.0-	285-	4-1-7- - -3-3-1- -1-2-2-2-	-1-5-	-150-	70-	-	-	0.56
56-43.6264-108.6986-2-07-						0-W07749-10/12/79-12-	20- 7.0-	-	-	7.8-	60-	20-2-7-4-6-3-3-1-2-1-2-3-2-	- - -	-	-	-	-	0.53
56-43.6733-108.7242-2-07-						0-W07755-10/12/79-16-	20-12.0-C-		-	7.6-	320-	16-1-4-5-4-4-3-2-2-3-3-2-2-	-3-	-	-	-	-	1.94
56-43.7142-108.6708-2-08-						0-W07756-10/12/79-17-	19-15.0-C-		-	7.5-	1350-	10-1-7- - -3-3-1- -4-2-1-2-	-1-8-	-	-	-	-	3.33
56-43.7031-108.7833-2-08-						0-W07765-10/13/79-11-	18-11.5-	-	-	7.6-	1500-	12-1-7- - -3-3-1- -4-2-2-1-	- -8-	-	30-	-	-	10.55
56-43.7203-108.6053-2-09-						0-W07766-10/13/79-11-	18-11.5-	-	-	7.3-	1250-	9-1-7- - -3-3-1- -4-2-2-1-	-1-5-	-	72-	50-	-	1.06
56-43.7236-108.5411-2-08-						0-W07767-10/13/79-12-	20-14.0-C-		-	7.4-	900-	10-1-7- - -3-3-1- -4-2-2-1-	-1-6-	-	-	-	-	0.44
56-43.7006-108.4761-2-08-						0-W07768-10/13/79-12-	21-15.5-	-	-	6.9-	1850-	10-1-7- - -3-3-1- -4-2-2-1-	-1-4-	-	-	-	-	1.06
56-43.7142-108.3917-2-08-						0-W07771-10/13/79-13-	23-19.0-C-		-	7.0-	4900-	8-1-7- - -3-3-1- -4-2-2-1-	-9-8-	-150-	-	-	-	8.27
56-43.2789-108.4836-2-07-						0-W07775-10/15/79-13-	19-20.0-C-		-	7.4-	2050-	10-1-6- - -3-3-1- -4-2-2-3-	-1-3-	-	80-	10-	-	307.98*
56-43.2856-108.4944-2-08-						0-W07776-10/15/79-13-	18-15.0-C-		-	7.0-	29000-	11-1-6- - -3-3-1- -4-2-2-3-	-1-3-	-	-	-	-	37.41
56-43.2817-108.5000-2-08-						0-W07778-10/15/79-14-	18-15.0-C-		-	6.5-	1650-	11-1-6- - -3-3-1- -4-2-2-3-	-3-3-	-320-	-	-	-	1.57
56-43.3031-108.4514-2-08-						0-W07780-10/15/79-14-	17-13.5-C-		-	7.2-	750-	11-1-6- - -3-3-1- -4-2-1-3-	-1-8-	-	-	-	-	9.94
56-43.3358-108.4878-2-08-						0-W07781-10/15/79-14-	17-13.5-C-		-	7.2-	15-	10-1-7- - -3-3-1- -4-2-1-3-	-1-8-	-	-	-	-	80.60*
56-43.3442-108.4975-2-07-						0-W07783-10/15/79-15-	18-13.5-C-		-	7.4-	30000-	10-1-6-4-6-3-4-1-3-4-2-2-3-	-9-	-	-	-	-	71.82*
56-43.3450-108.5164-2-07-						0-W07785-10/15/79-15-	18-	-	-	-	-28500-	4-1-6-4-6-3-3-1-2-4-2-2-3-	-9-	-	-	-	-	85.43*
56-43.3283-108.5033-2-08-						0-W07786-10/15/79-16-	17-16.5-	-	-	7.3-	4200-	8-1-6- - -3-3-1- -4-2-2-2-	-1-8-	-	-	-	-	106.66*
56-43.3294-108.4364-2-07-						0-W07790-10/15/79-17-	15-12.5-	-	-	7.7-	1550-	10-1-7-4-6-3-3-1-3-4-2-2-2-	-9-	-	-	-	-	53.87*
56-43.1356-108.1886-2-08-						0-W07799-10/14/79-13-	26-13.1-C-		-	7.5-	2000-	20-1-6- - -2-2-1- -2-3-2-3-	-1-	-	-	-	-	3.41
56-43.1169-108.2108-2-08-						0-W07801-10/14/79-14-	28-12.4-C-		-	7.4-	1700-	14-1-6- - -2-2-1- -3-1-2-3-	-1-	-	-	-	-	0.21
56-43.1033-108.1747-2-06-						0-W07805-10/14/79-15-	28-15.2-C-		-	8.1-	430-	18-1-6- - -2-2-1- -3-2-2-3-	-1-	-	-	-	-	2.34
56-43.1131-108.1622-2-06-						0-W07806-10/14/79-15-	28-14.6-C-		-	7.0-	460-	12-1-1- - -2-2-1- -3-2-3-2-	-1-	-	-	-	-	8.90

APPENDIX I-A. (continued). Uranium Concentrations for Water Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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 OR DNC (#) UNITS IN ppb
56-	43.1794-	108.2058-2-	08-			0-W07816-10/15/79-12-	24-	13.8-	0-	-	8.1-	1100-		14-1-6-	-	-3-	3-1-	-3-	2-2-3-	-1-	-	-	-	-	0.40								
56-	43.1972-	108.2021-2-	08-			0-W07817-10/15/79-13-	24-	17.0-	0-	-	7.6-	1100-		12-1-6-	-	-3-	3-1-	-2-	2-2-2-	-1-	3-	-	-	-	0.82								
56-	43.1994-	108.2311-2-	08-			0-W07827-10/15/79-16-	25-	19.8-	0-	-	6.7-	2100-		14-1-6-	-	-3-	3-1-	-2-	2-2-3-	-1-	3-	-	200-	-	4.47								
56-	43.4828-	108.5581-2-	06-			0-W07832-10/17/79-12-	22-	10.5-	0-	-	6.6-	400-		12-1-6-5-6-2-2-1-		-3-	2-3-3-	-3-	-	-	-	-	3.07									
56-	43.4892-	108.5572-2-	06-			0-W07834-10/17/79-12-	22-	9.5-	0-	-	6.6-	320-		14-1-1-1-8-2-2-1-		-3-	2-3-3-	-3-	-	-	-	-	0.76									
56-	43.5008-	108.5525-2-	07-			0-W07835-10/17/79-12-	23-	10.5-	0-	-	7.1-	240-		6-1-6-4-6-2-2-1-2-		2-2-	3-3-	-3-	-	-	-	-	0.43									
56-	43.5194-	108.5336-2-	07-			0-W07836-10/17/79-13-	22-	11.0-	0-	-	7.2-	160-		6-3-6-6-6-2-2-1-2-		2-4-1-	4-3-	-3-	-	-	-	-	0.06									
56-	43.5278-	108.5581-2-	06-			0-W07837-10/17/79-13-	22-	11.5-	0-	-	7.0-	120-		14-3-6-5-6-2-2-1-		-3-	1-4-3-	-3-	-	-	-	-	0.01									
56-	43.5308-	108.5658-2-	06-			0-W07838-10/17/79-14-	22-	8.8-	0-	-	6.6-	120-		10-3-7-5-6-2-2-1-		-4-	1-4-3-	-3-	-	-	-	-	0.18									
56-	43.5975-	108.6778-2-	07-			0-W07839-10/17/79-14-	19-	7.5-	0-	-	7.3-	140-		11-3-7-5-6-2-2-1-2-		4-2-	4-3-	-3-	-	-	-	-	0.14									
56-	43.6725-	108.6950-2-	08-			0-W07841-10/15/79-12-	15-	14.6-	0-	-	7.7-	590-		14-3-7-	-	-3-	3-1-	-3-	3-3-3-	-1-	3-	-	-	-	0.79								
56-	43.6622-	108.6647-2-	08-			0-W07844-10/15/79-12-	14-	15.4-	0-	-	7.6-	590-		12-3-7-	-	-2-	2-1-	-3-	3-3-3-	-1-	3-	-	-	-	0.38								
56-	43.5539-	108.3792-2-	07-			0-W07856-10/17/79-14-	13-	14.6-	0-	-	8.3-	2500-		10-1-4-4-4-2-2-1-2-		3-3-4-	3-	-1-	-	-	-	-	4.23									
56-	43.5503-	108.4083-2-	06-			0-W07858-10/17/79-14-	15-	16.2-	0-	-	8.1-	4850-		10-3-7-5-4-2-2-1-		-3-	3-4-3-	-3-	-	-	-	-	11.77									
56-	43.5619-	108.4300-2-	06-			0-W07861-10/17/79-15-	14-	14.6-	0-	-	8.2-	2600-		10-1-4-5-4-2-2-1-		-3-	3-4-3-	-3-	-	-	-	-	3.03									
56-	43.5978-	108.4928-2-	06-			0-W07864-10/17/79-17-	14-	13.2-	0-	-	8.6-	1020-		9-1-4-5-6-3-3-1-2-		3-3-4-	3-	-1-	-	-	-	-	2.56									
56-	43.6061-	108.4772-2-	07-			0-W07865-10/17/79-17-	14-	13.8-	0-	-	8.7-	1850-		11-1-6-5-4-2-2-1-2-		3-4-3-	3-	-3-	-	-	-	-	1.43									
56-	43.5883-	108.4919-2-	06-			0-W07866-10/17/79-17-	13-	9.6-	0-	-	8.4-	1800-		10-1-6-5-6-2-2-1-		-3-	3-4-3-	-1-	-	-	-	-	1.88									
56-	43.5383-	108.4739-2-	07-			0-W07868-10/17/79-18-	13-	11.6-	0-	-	8.1-	1050-		13-1-4-5-4-2-2-1-2-		3-3-4-	3-	-1-	-	-	-	-	2.74									
56-	43.5281-	108.4467-2-	06-			0-W07871-10/17/79-19-	13-	10.6-	0-	-	7.9-	2400-		10-3-7-5-4-2-2-1-		-3-	3-4-3-	-1-	-	-	-	-	1.41									
56-	43.4917-	108.4611-2-	06-			0-W07874-10/18/79-	7-	-2-	3.6-	0-	-	8.2-	310-		11-3-6-	-	-3-	3-1-	-3-	3-4-1-	-1-	-	-	-	-	1.03									
56-	43.4492-	108.4303-2-	08-			0-W07877-10/18/79-	9-	5-	8.6-	-	-	7.5-	1750-		14-3-7-	-	-3-	3-3-	-3-	3-4-2-	-1-	4-	-	20-	-	0.63								
56-	43.1708-	108.2178-2-	07-			0-W07886-10/18/79-12-	10-	9.2-	0-	-	8.1-	50-		-3-6-5-6-3-3-1-2-		3-3-5-	4-	-1-	-	-	-	-	0.32									
56-	43.2408-	108.2208-2-	08-			0-W07890-10/18/79-16-	9-	10.2-	0-	-	7.7-	85-		13-3-7-	-	-3-	3-1-	-3-	3-4-3-	-1-	3-	-	50-	-	0.14								
56-	43.5847-	108.5947-2-	07-			0-W07891-10/17/79-16-	18-	7.2-	0-	-	7.2-	330-		12-1-6-5-6-3-3-1-2-		4-1-4-3-	-3-	-3-	-	-	-	-	0.03									
56-	43.4539-	108.5708-2-	07-			0-W07892-10/17/79-17-	18-	9.8-	0-	-	7.4-	390-		14-1-6-4-6-2-2-1-2-		2-2-2-3-	-3-	-3-	-	-	-	-	0.51									
56-	43.4542-	108.5719-2-	07-			0-W07893-10/17/79-17-	18-	11.0-	0-	-	7.3-	550-		12-1-6-4-6-2-2-1-2-		2-2-3-3-	-3-	-3-	-	-	-	-	1.61									
56-	43.3417-	108.3939-2-	07-			0-W07896-10/18/79-16-	15-	-	-	-	-	7.5-	1150-		8-1-7-4-7-2-3-2-2-		4-2-2-2-	-3-	-3-	-	-	-	-	41.14*									
56-	43.3472-	108.3722-2-	07-			0-W07899-10/18/79-17-	13-	-	-	-	-	7.5-	850-		8-1-7-6-8-2-3-2-		3-2-2-2-	-3-	-3-	-	-	-	-	1.66									
56-	43.4175-	108.2706-2-	06-			0-W07902-10/19/79-10-	7-	0.5-	0-	-	7.6-	750-		10-1-7-5-8-2-3-2-		3-4-2-4-3-	-1-	-3-	-	-	-	-	0.54									
56-	43.4247-	108.2639-2-	07-			0-W07903-10/19/79-10-	10-	11.0-	0-	-	7.4-	750-		13-1-7-5-7-2-2-2-		3-4-2-4-3-	-1-	-3-	-	-	-	-	0.32									
56-	43.4242-	108.2628-2-	06-			0-W07904-10/19/79-11-	10-	13.5-	0-	-	7.3-	550-		3-1-7-4-7-3-3-1-3-		4-2-4-3-	-1-	-3-	-	-	-	-	0.76									
56-	43.4628-	108.6192-2-	07-			0-W07911-10/18/79-10-	19-	7.5-	0-	-	7.6-	700-		14-1-6-5-7-2-2-1-		2-2-2-3-3-	-3-	-3-	-	-	-	-	0.98									
56-	43.4817-	108.5831-2-	07-			0-W07915-10/18/79-11-	20-	9.8-	0-	-	7.5-	800-		6-1-6-5-6-2-2-1-		2-2-1-3-3-	-3-	-3-	-	-	-	-	1.94									
56-	43.4342-	108.5531-2-	07-			0-W07919-10/18/79-13-	22-	11.5-	0-	-	7.5-	650-		10-1-6-5-6-2-2-1-		2-3-2-3-2-	-3-	-3-	-	-	-	-	2.61									
56-	43.5922-	108.5161-2-	07-			0-W07930-10/19/79-11-	15-	7.5-	0-	-	7.9-	950-		4-1-6-6-6-2-2-1-		2-2-1-4-4-	-3-	-3-	-	-	-	-	5.09									
56-	43.6197-	108.5350-2-	07-			0-W07931-10/19/79-11-	19-	9.1-	0-	-	7.5-	600-		14-1-6-5-6-2-2-1-		2-2-2-4-4-	-3-	-3-	-	-	-	-	1.27									
56-	43.6214-	108.6347-2-	06-			0-W07932-10/19/79-11-	18-	10.1-	0-	-	7.3-	500-		16-1-6-	-	-3-	3-1-	-2-	3-4-4-	-1-	-	-	-	-	1.21								
56-	43.5767-	108.5158-2-	06-			0-W07933-10/19/79-12-	15-	8.5-	0-	-	7.6-	380-		14-4-6-4-6-2-2-1-		-4-1-4-4-	-1-	-3-	-	-	-	-	0.81									
56-	43.4650-	108.2606-2-	06-			0-W07935-10/19/79-14-	14-	9.1-	0-	-	7.4-	210-		8-4-6-5-6-2-2-1-		-3-2-4-4-	-3-	-3-	-	-	-	-	0.40									
56-	43.4967-	108.3000-2-	06-			0-W07936-10/19/79-14-	14-	8.9-	0-	-	7.1-	330-		12-4-6-	-	-3-	3-1-	-4-	1-4-4-	-1-	-	-	-	-	2.06								
56-	43.3794-	108.1308-2-	08-			0-W07940-10/20/79-10-	12-	12.5-	0-	-	7.9-	550-		8-4-6-	-	-3-	3-1-	-2-	2-3-4-	-1-	9-	-	-	-	0.21								
56-	43.4206-	108.2922-2-	06-			0-W07945-10/19/79-13-	10-	11.5-	0-	-	7.8-	550-		7-1-7-4-6-3-3-1-3-		4-2-3-3-	-3-	-3-	-	-	-	-	0.74									
56-	43.4428-	108.3544-2-	06-			0-W07950-10/19/79-14-	10-	10.5-	0-	-	7.8-	485-		8-1-7-4-6-3-3-1-2-		3-3-3-3-	-3-	-3-	-	-	-	-	0.72									
56-	43.4447-	108.3544-2-	07-			0-W07951-10/19/79-14-	10-	10.0-	0-	-	7.6-	390-		8-1-7-4-6-3-3-1-2-		3-2-3-3-	-1-	-3-	-	-	-	-	0.50									
56-	43.4433-	108.3636-2-	06-			0-W07952-10/19/79-15-	10-	11.5-	0-	-	7.9-	-		6-1-7-5-8-2-2-1-3-		4-2-3-3-	-3-	-3-	-	-	-	-	1.13									
56-	43.4258-	108.3383-2-	06-			0-W07953-10/19/79-16-	10-	9.5-	0-	-	7.7-	1500-		9-1-7-5-7-3-2-1-3-		3-3-3-3-	-3-	-3-	-	-	-	-	0.90									
56-	43.3081-	108.5456-2-	08-			0-W07960-10/20/79-12-	9-	14.0-	0-	-	7.8-	950-		9-1-6-	-	-3-	3-1-	-4-	1-2-3-	-1-	3-	-	100-	40-	2.94								
56-	43.3306-	108.5992-2-	08-			0-W07961-10/20/79-13-	10-	15.0-	0-	-	7.1-	1400-		10-1-6-	-	-3-	3-1-	-4-	1-2-3-	-1-	4-	-	25-	-	28.65								
56-	43.3392-	108.6050-2-	08-			0-W07962-10/20/79-13-	10-	15.5-	0-	-	7.3-	4650-		7-1-6-	-	-3-	3-1-	-4-	2-2-3-	-1-	8-	-	-	-	33.11*								
56-	43.4447-	108.1672-2-	07-			0-W07975-10/20/79-12-	15-	8.2-	0-	-	7.6-	500-		7-4-7-5-6-3-3-1-2-		2-2-2-5-4-	-1-	-3-	-	-	-	-	0.19									

APPENDIX I-A. 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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 OR DNC (¥) UNITS IN ppb
56	43.4666	108.1675	2	C	6	C-W07976	10/20/79	12	15	11.5	C	-	7.1	500	12	4	7	-	-	3	3	1	-	2	1	5	4	-	1	-	-	-	-	1.66
56	43.4922	108.1556	2	G	7	C-W07977	10/20/79	12	14	10.0	-	-	7.6	400	5	4	7	4	6	2	2	1	2	2	1	5	4	-	7	-	-	-	-	2.92

APPENDIX I-B

Listings of Field Data and Elemental Concentrations
for Sediment Samples from the Thermopolis Quadrangle, Wyoming
(Pages 38 through 181)

Note that four pages, numbered (1) through (4) in the upper right hand corner, are necessary to provide the complete data listing for each numerically ordered sequence of samples.

(1)- Lists field data and uranium concentrations determined by delayed-neutron counting.
(2)- Lists concentrations of 11 elements determined by x-ray fluorescence and arc-source emission spectrography.
(3) and (4)- List concentrations of 31 elements determined by neutron activation analysis and computed U/Th ratios.

(See Appendix IV-B for Code to Listings)

APPENDIX I-B. Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.7894-	108.1750-	2-	15-		0-W06001-	06/15/76-	10-	18-		-	-	-	-	-	8-	1-	6-	5-	6-	-1-	-3-	4-	3-	3-	1-	-1-	-	-	-	-	3.70
56-	43.7722-	108.2236-	2-	15-		0-W06002-	06/15/76-	11-	20-		-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-3-	4-	2-	3-	1-	-1-	-	-	-	-	2.63
56-	43.7792-	108.2083-	2-	15-		0-W06003-	06/15/76-	11-	20-		-	-	-	-	-	10-	1-	6-	5-	2-	-1-	-3-	4-	3-	3-	1-	-1-	-	-	-	-	2.74
56-	43.8069-	108.2361-	2-	15-		0-W06004-	06/15/76-	12-	22-		-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-3-	4-	3-	3-	1-	-1-	-	-	-	-	2.66
56-	43.7944-	108.1528-	2-	15-		0-W06005-	06/15/76-	12-	22-		-	-	-	-	-	10-	1-	1-	4-	6-	-1-	-3-	4-	3-	2-	1-	-1-	-	-	-	-	3.39
56-	43.7708-	108.1361-	2-	15-		0-W06006-	06/15/76-	13-	22-		-	-	-	-	-	6-	1-	1-	4-	6-	-1-	-3-	4-	3-	3-	1-	-1-	-	-	-	-	2.74
56-	43.7542-	108.1200-	2-	15-		0-W06007-	06/15/76-	14-	22-		-	-	-	-	-	8-	1-	1-	4-	6-	-1-	-3-	-4-	3-	1-	-1-	-	-	-	-	4.45
56-	43.7806-	108.0667-	2-	15-		0-W06008-	06/15/76-	15-	23-		-	-	-	-	-	10-	1-	1-	5-	6-	-1-	-3-	4-	3-	3-	2-	-1-	-	-	-	-	3.07
56-	43.7792-	108.0736-	2-	15-		0-W06009-	06/15/76-	15-	22-		-	-	-	-	-	10-	1-	1-	5-	6-	-1-	-3-	4-	3-	3-	2-	-1-	-	-	-	-	3.36
56-	43.8189-	108.1978-	2-	15-		0-W06010-	06/15/76-	15-	23-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-3-	4-	3-	2-	2-	-1-	-	-	-	-	3.60
56-	43.8264-	108.2069-	2-	15-		0-W06011-	06/15/76-	16-	23-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-3-	4-	3-	2-	2-	-1-	-	-	-	-	2.49
56-	43.8333-	108.2069-	2-	15-		0-W06012-	06/15/76-	16-	22-		-	-	-	-	-	12-	1-	6-	5-	6-	-1-	-3-	4-	3-	3-	2-	-1-	-	-	-	-	3.52
56-	43.8522-	108.1911-	2-	15-		0-W06013-	06/15/76-	16-	22-		-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-3-	4-	2-	4-	2-	-1-	-	-	-	-	2.30
56-	43.8583-	108.1778-	2-	15-		0-W06014-	06/15/76-	16-	22-		-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-3-	4-	3-	3-	2-	-1-	-	-	-	-	2.62
56-	43.8931-	108.2306-	2-	15-		0-W06015-	06/15/76-	17-	21-		-C-	-	-	-	-	4-	1-	6-	4-	6-	-1-	-3-	4-	2-	3-	2-	-1-	-	-	-	-	2.52
56-	43.8917-	108.2000-	2-	15-		0-W06016-	06/15/76-	17-	22-		-	-	-	-	-	11-	1-	6-	4-	6-	-1-	-3-	4-	2-	3-	2-	-1-	-	-	-	-	3.47
56-	43.8861-	108.1714-	2-	15-		0-W06017-	06/15/76-	17-	22-		-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-3-	4-	3-	3-	2-	-1-	-	-	-	-	3.75
56-	43.8694-	108.1583-	2-	15-		0-W06018-	06/15/76-	18-	21-		-	-	-	-	-	8-	1-	6-	5-	6-	-1-	-3-	4-	3-	3-	2-	-1-	-	-	-	-	2.92
56-	43.8889-	108.1306-	2-	15-		0-W06019-	06/15/76-	18-	21-		-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-3-	4-	3-	3-	2-	-1-	-	-	-	-	3.37
56-	43.9092-	108.0972-	2-	15-		0-W06020-	06/15/76-	18-	20-		-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-3-	4-	4-	3-	2-	-1-	-	-	-	-	3.09
56-	43.9028-	108.0528-	2-	15-		0-W06021-	06/17/76-	10-	14-		-	-	-	-	-	11-	1-	6-	5-	6-	-1-	-3-	4-	3-	3-	3-	-1-	-	-	-	-	2.91
56-	43.8986-	108.0736-	2-	15-		0-W06022-	06/17/76-	11-	15-		-	-	-	-	-	11-	1-	7-	5-	1-	-1-	-3-	4-	2-	3-	3-	-1-	-	-	-	-	3.39
56-	43.8764-	108.1017-	2-	15-		0-W06023-	06/17/76-	11-	12-		-	-	-	-	-	6-	1-	1-	4-	6-	-1-	-3-	4-	3-	3-	3-	-1-	-	-	-	-	2.46
56-	43.8944-	108.0819-	2-	15-		0-W06024-	06/17/76-	12-	15-		-	-	-	-	-	5-	1-	1-	5-	6-	-1-	-3-	4-	2-	3-	3-	-1-	-	-	-	-	3.08
56-	43.9950-	108.2125-	2-	12-		0-W06025-	08/05/76-	11-	30-	21.0-	-	-	6.9-	3300-		9-	1-	7-	4-	6-	3-	3-	1-	-4-	2-	1-	1-	-1-	-	-	-	-	3.66
56-	43.9764-	108.1375-	2-	15-		0-W06026-	08/05/76-	12-	31-		-	-	-	-	-	12-	1-	7-	5-	6-	-1-	-	-4-	3-	2-	1-	-1-	-	-	-	-	2.56
56-	43.9686-	108.2208-	2-	15-		0-W06028-	08/05/76-	15-	30-		-	-	-	-	-	9-	1-	9-	4-	6-	-1-	-	-4-	1-	2-	1-	-1-	-	-	-	-	3.11
56-	43.9306-	108.1611-	2-	15-		0-W06029-	08/05/76-	15-	30-		-	-	-	-	-	9-	1-	9-	5-	6-	-1-	-	-4-	2-	3-	2-	-1-	-	-	-	-	3.10
56-	43.9556-	108.1125-	2-	15-		0-W06030-	08/05/76-	17-	29-		-	-	-	-	-	12-	1-	7-	5-	6-	-1-	-	-4-	2-	3-	2-	-1-	-	-	-	-	3.05
56-	43.9269-	108.0686-	2-	15-		0-W06031-	08/05/76-	17-	29-		-	-	-	-	-	4-	1-	6-	4-	6-	-1-	-	-4-	3-	3-	2-	-1-	-	-	-	-	2.31
56-	43.8603-	108.1292-	2-	15-		0-W06032-	08/05/76-	17-	29-		-	-	-	-	-	10-	1-	6-	5-	6-	-1-	-	-4-	2-	4-	1-	-1-	-	-	-	-	2.57
56-	43.8853-	108.0028-	2-	15-		0-W06033-	08/05/76-	18-	30-		-	-	-	-	-	9-	1-	3-	5-	6-	-1-	-	-4-	2-	4-	1-	-1-	-	-	-	-	2.71
56-	43.9144-	108.0194-	2-	15-		0-W06034-	08/05/76-	18-	30-		-	-	-	-	-	9-	1-	3-	5-	6-	-1-	-3-	4-	3-	3-	1-	-1-	-	-	-	-	3.10
56-	43.9486-	108.0319-	2-	15-		0-W06035-	08/05/76-	18-	30-		-	-	-	-	-	14-	1-	7-	5-	6-	-1-	-3-	4-	3-	1-	1-	-1-	-	-	-	-	2.80
56-	43.9625-	108.0319-	2-	15-		0-W06036-	08/05/76-	18-	29-		-	-	-	-	-	13-	1-	1-	5-	6-	-1-	-	-4-	3-	4-	1-	-1-	-	-	-	-	2.85
56-	43.9806-	108.0175-	2-	15-		0-W06037-	08/05/76-	19-	30-		-	-	-	-	-	6-	1-	1-	5-	6-	-1-	-	-4-	2-	3-	2-	-1-	-	-	-	-	2.82
56-	43.9833-	108.0161-	2-	15-		0-W06038-	08/05/76-	19-	30-		-	-	-	-	-	13-	1-	6-	5-	6-	-1-	-	-4-	2-	3-	2-	-1-	-	-	-	-	2.79
56-	43.7442-	108.9781-	2-	12-		0-W06039-	08/28/76-	12-	28-	22.0-	-	-	6.3-	200-		19-	1-	7-	4-	6-	2-	3-	1-	2-	2-	3-	2-	1-	-1-	-	-	-	-	1.78
56-	43.7431-	108.9794-	2-	12-		0-W06040-	08/28/76-	12-	28-	22.0-	-	-	6.6-	230-		14-	1-	7-	4-	6-	2-	3-	1-	2-	2-	2-	2-	1-	-1-	-	-	-	-	1.67
56-	43.7356-	108.9647-	2-	15-		0-W06041-	08/28/76-	13-	28-		-	-	-	-		12-	1-	7-	4-	6-	-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	1.80
56-	43.7250-	108.9561-	2-	12-		0-W06042-	08/28/76-	13-	28-	23.0-	-	-	6.8-	240-		16-	1-	7-	4-	6-	2-	3-	1-	2-	2-	2-	2-	1-	-1-	-	-	-	-	1.78
56-	43.7236-	108.9575-	2-	12-		0-W06043-	08/28/76-	13-	28-	22.0-	-	-	6.9-	270-		11-	1-	7-	4-	6-	2-	3-	1-	2-	2-	2-	2-	1-	-1-	-	-	-	-	1.69
56-	43.7222-	108.9469-	2-	15-		0-W06044-	08/28/76-	13-	28-		-	-	-	-		12-	1-	7-	4-	6-	-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	2.02
56-	43.7142-	108.9406-	2-	15-		0-W06045-	08/28/76-	13-	28-		-	-	-	-		8-	1-	7-	4-	6-	-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	1.75
56-	43.7072-	108.9150-	2-	12-		0-W06046-	08/28/76-	13-	28-	23.0-	-	-	6.9-	270-		14-	1-	7-	4-	6-	2-	3-	1-	2-	2-	3-	2-	1-	-1-	-	-	-	-	1.74
56-	43.7081-	108.9089-	2-	15-		0-W06047-	08/28/76-	14-	30-		-	-	-	-		11-	1-	7-	4-	6-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	1.86
56-	43.7067-	108.9028-	2-	15-		0-W06048-	08/28/76-	14-	30-		-	-	-	-		9-	1-	7-	4-	6-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	1.84
56-	43.7475-	108.8122-	2-	12-		0-W06049-	08/28/76-	14-	30-	21.0-	-	-	6.6-	250-		11-	1-	7-	4-	6-	2-	3-	1-	2-	2-	2-	2-	1-	-1-	-	-	-	-	1.76
56-	43.7492-	108.8117-	2-	15-		0-W06050-	08/28/76-	15-	30-		-	-	-	-		11-	1-	7-	4-	6-	-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	2.37
56-	43.7361-	108.8228-	2-	15-		0-W06051-	08/28/76-	15-	30-		-	-	-	-		8-	1-	7-	4-	6-	-	-	-2-	3-	1-	3-	1-	-1-	-	-	-	-	2.76
56-	43.7297-	108.8402-	2-	15-		0-W06052-	08/28/76-	15-	31-		-	-	-	-		14-	1-	7-	4-	6-	-	-	-	-3-	2-	3-	1-	-1-	-	-	-	-	2.92

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.7894-108.1750-2-15-						0-W06001	-5	5	-5	24	-20	19	10	-10	-15	3	85
56-43.7722-108.2236-2-15-						0-W06002	-5	-5	-5	16	-20	-15	6	-10	-15	2	34
56-43.7792-108.2083-2-15-						0-W06003	-5	-5	-5	21	-20	-15	9	-10	-15	1	27
56-43.8069-108.2361-2-15-						0-W06004	-5	-5	-5	22	-20	-15	6	-10	-15	2	21
56-43.7944-108.1528-2-15-						0-W06005	-5	-5	-5	13	-20	-15	5	-10	-15	2	21
56-43.7708-108.1361-2-15-						0-W06006	-5	-5	-5	22	-20	-15	6	-10	-15	2	26
56-43.7542-108.1200-2-15-						0-W06007	-5	5	-5	18	-20	19	8	-10	-15	2	21
56-43.7806-108.0667-2-15-						0-W06008	-5	7	-5	19	-20	-15	9	-10	-15	2	27
56-43.7792-108.0736-2-15-						0-W06009	-5	-5	-5	19	-20	-15	15	-10	-15	3	48
56-43.8189-108.1978-2-15-						0-W06010	-5	5	-5	25	-20	21	8	-10	-15	2	19
56-43.8264-108.2069-2-15-						0-W06011	-5	-5	-5	26	-20	19	7	-10	-15	2	16
56-43.8333-108.2069-2-15-						0-W06012	-5	-5	-5	31	-20	24	7	-10	-15	3	45
56-43.8522-108.1911-2-15-						0-W06013	-5	-5	-5	15	-20	-15	5	-10	-15	1	15
56-43.8583-108.1778-2-15-						0-W06014	-5	-5	-5	21	-20	-15	5	-10	-15	1	12
56-43.8931-108.2306-2-15-						0-W06015	-5	-5	-5	21	-20	16	6	-10	-15	2	20
56-43.8917-108.2000-2-15-						0-W06016	-5	-5	-5	18	-20	18	-5	-10	-15	2	14
56-43.8861-108.1714-2-15-						0-W06017	-5	-5	-5	-10	-20	-15	8	-10	-15	1	16
56-43.8694-108.1583-2-15-						0-W06018	-5	6	-5	18	-20	-15	9	-10	-15	2	29
56-43.8889-108.1306-2-15-						0-W06019	-5	-5	-5	25	-20	16	6	-10	-15	2	15
56-43.9092-108.0972-2-15-						0-W06020	-5	-5	-5	13	-20	15	6	-10	-15	2	15
56-43.9028-108.0528-2-15-						0-W06021	-5	6	-5	19	-20	20	-5	-10	-15	2	15
56-43.8986-108.0736-2-15-						0-W06022	-5	-5	-5	11	-20	-15	5	-10	-15	1	10
56-43.8764-108.1017-2-15-						0-W06023	-5	-5	-5	18	-20	-15	-5	-10	-15	2	12
56-43.8944-108.0819-2-15-						0-W06024	-5	-5	-5	30	-20	-15	9	-10	-15	2	36
56-43.9950-108.2125-2-12-						0-W06025	-5	11	-5	10	-20	16	-5	-10	-15	2	16
56-43.9764-108.1375-2-15-						0-W06026	-5	6	-5	29	-20	-15	-5	-10	-15	2	21
56-43.9686-108.2208-2-15-						0-W06028	-5	-5	-5	16	-20	-15	5	-10	-15	2	17
56-43.9306-108.1611-2-15-						0-W06029	-5	-5	-5	16	-20	-15	5	-10	-15	2	16
56-43.9556-108.1125-2-15-						0-W06030	-5	-5	-5	19	-20	-15	15	-10	-15	2	30
56-43.9269-108.0686-2-15-						0-W06031	-5	-5	-5	21	-20	-15	7	-10	-15	2	24
56-43.8603-108.1292-2-15-						0-W06032	-5	-5	-5	24	-20	-15	7	-10	-15	2	18
56-43.8853-108.0028-2-15-						0-W06033	-5	6	-5	18	-20	15	6	-10	-15	2	18
56-43.9144-108.0194-2-15-						0-W06034	-5	-5	-5	15	-20	-15	15	-10	-15	2	19
56-43.9486-108.0319-2-15-						0-W06035	-5	5	-5	17	-20	-15	8	-10	-15	2	20
56-43.9625-108.0319-2-15-						0-W06036	-5	-5	-5	19	-20	-15	-5	-10	-15	1	10
56-43.9806-108.0175-2-15-						0-W06037	-5	5	-5	30	-20	-15	15	-10	-15	2	32
56-43.9833-108.0161-2-15-						0-W06038	-5	-5	-5	18	-20	-15	8	-10	-15	2	15
56-43.7442-108.9781-2-12-						0-W06039	-5	5	-5	25	-20	76	15	-10	-15	2	22
56-43.7431-108.9794-2-12-						0-W06040	-5	-5	-5	28	-20	42	14	-10	-15	2	26
56-43.7356-108.9647-2-15-						0-W06041	-5	-5	-5	29	-20	42	14	-10	-15	2	27
56-43.7250-108.9561-2-12-						0-W06042	-5	-5	-5	26	-20	34	18	-10	-15	2	23
56-43.7236-108.9575-2-12-						0-W06043	-5	8	-5	22	-20	68	-5	-10	-15	3	27
56-43.7222-108.9469-2-15-						0-W06044	-5	-5	-5	30	-20	45	17	-10	-15	2	21
56-43.7142-108.9406-2-15-						0-W06045	-5	5	-5	42	-20	-15	7	-10	-15	2	30
56-43.7072-108.9150-2-12-						0-W06046	-5	-5	-5	23	-20	37	20	-10	-15	2	28
56-43.7081-108.9089-2-15-						0-W06047	-5	-5	-5	25	-20	17	13	-10	-15	2	36
56-43.7067-108.9028-2-15-						0-W06048	-5	-5	-5	22	-20	32	11	-10	-15	2	39
56-43.7475-108.8122-2-12-						0-W06049	-5	-5	-5	34	-20	37	9	-10	-15	2	26
56-43.7492-108.8117-2-15-						0-W06050	-5	5	-5	27	-20	24	11	-10	-15	2	48
56-43.7361-108.8228-2-15-						0-W06051	-5	5	-5	27	-20	-15	12	-10	-15	2	30
56-43.7297-108.8492-2-15-						0-W06052	-5	-5	-5	32	-20	32	-5	-10	-15	3	57

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.7894-	108.1750-	2-	15-	0-	W06001	53100	-0.08	743	41100	54	-67	8.3	60	6.0	5	1.5	22120	6.4	17620	33	0.3
56-	43.7722-	108.2236-	2-	15-	0-	W06002	36320	-0.06	854	28400	37	-62	4.9	35	2.7	4	1.4	14980	8.3	12510	24	0.3
56-	43.7792-	108.2083-	2-	15-	0-	W06003	41150	-0.04	400	59950	41	-58	7.6	40	4.4	3	1.2	17800	6.2	13880	28	0.3
56-	43.8069-	108.2361-	2-	15-	0-	W06004	27550	-0.04	560	21480	55	49	4.0	34	2.7	4	1.3	8993	15.1	14440	28	0.4
56-	43.7944-	108.1528-	2-	15-	0-	W06005	34980	-0.04	615	12320	62	-43	6.2	45	-1.6	5	1.4	14350	20.6	14290	36	0.4
56-	43.7738-	108.1361-	2-	15-	0-	W06006	31150	-0.05	504	28750	41	66	4.4	26	2.1	4	1.1	11140	12.0	15460	28	0.3
56-	43.7542-	108.1200-	2-	15-	0-	W06007	40450	-0.06	472	18720	74	-49	7.7	62	3.5	6	1.6	18550	31.1	14860	47	0.6
56-	43.7806-	108.0667-	2-	15-	0-	W06008	56260	-0.06	518	15820	68	-50	7.9	52	5.0	5	1.4	16420	8.5	18100	37	0.4
56-	43.7792-	108.0736-	2-	15-	0-	W06009	86140	-0.10	531	11800	71	-49	11.6	74	8.2	5	1.6	27760	6.0	20020	43	0.3
56-	43.8189-	108.1978-	2-	15-	0-	W06010	33750	-0.06	841	21000	55	75	4.2	44	3.6	5	1.5	12550	21.3	12500	35	0.4
56-	43.8264-	108.2069-	2-	15-	0-	W06011	32460	-0.05	495	8069	38	-36	7.4	36	2.5	3	1.1	12330	9.8	13870	26	0.3
56-	43.8333-	108.2069-	2-	15-	0-	W06012	67780	-0.07	560	7744	81	-37	8.6	75	6.7	5	1.6	17290	7.9	18190	38	0.4
56-	43.8522-	108.1911-	2-	15-	0-	W06013	25730	-0.05	470	2134	41	-28	5.6	33	2.5	4	1.2	15680	11.7	10500	24	0.3
56-	43.8583-	108.1778-	2-	15-	0-	W06014	24960	-0.05	568	3042	39	-31	4.9	32	2.5	4	1.1	10460	15.8	11160	25	0.3
56-	43.8931-	108.2306-	2-	15-	0-	W06015	30040	0.22	399	6020	37	-36	5.0	31	2.4	3	1.1	11650	12.0	12440	24	0.3
56-	43.8917-	108.2006-	2-	15-	0-	W06016	26630	-0.04	699	4917	63	35	4.0	40	1.9	5	1.5	10030	26.4	10240	35	0.5
56-	43.8861-	108.1714-	2-	15-	0-	W06017	22060	-0.06	758	7695	62	55	5.5	43	2.1	5	1.6	11810	34.5	11110	39	0.6
56-	43.8694-	108.1583-	2-	15-	0-	W06018	45620	-0.06	798	29450	54	144	9.9	65	2.4	4	1.5	18110	13.2	12260	32	0.3
56-	43.8889-	108.1306-	2-	15-	0-	W06019	29010	-0.05	624	9210	47	-34	5.3	38	2.4	4	1.3	11750	22.0	12280	30	0.4
56-	43.9092-	108.0972-	2-	15-	0-	W06020	24850	0.43	690	6174	57	41	3.4	33	2.1	4	1.4	9585	19.9	10170	26	0.4
56-	43.9028-	108.0528-	2-	15-	0-	W06021	29990	-0.06	492	3706	45	-34	5.3	45	3.1	4	1.4	12230	14.7	11960	30	0.4
56-	43.8986-	108.0736-	2-	15-	0-	W06022	26080	-0.06	476	6228	47	-42	3.8	41	1.8	5	1.2	12510	23.5	11390	34	0.4
56-	43.8764-	108.1017-	2-	15-	0-	W06023	30580	-0.04	491	9295	37	-33	5.4	32	2.8	3	1.2	11970	9.8	11850	26	0.2
56-	43.8944-	108.0819-	2-	15-	0-	W06024	39440	-0.05	684	23470	68	-58	6.8	52	2.8	4	1.4	13650	14.4	14970	35	0.4
56-	43.9950-	108.2125-	2-	12-	0-	W06025	29650	-0.06	663	22150	62	108	6.1	64	2.4	4	1.6	14390	28.0	11690	41	0.6
56-	43.9764-	108.1375-	2-	15-	0-	W06026	40340	-0.06	513	5573	46	-47	5.7	49	3.4	3	1.2	14800	11.0	14790	30	0.3
56-	43.9686-	108.2208-	2-	15-	0-	W06028	28270	-0.05	686	5727	48	-32	5.7	41	3.1	4	1.5	11510	19.1	11970	32	0.4
56-	43.9306-	108.1611-	2-	15-	0-	W06029	30070	-0.05	596	9101	46	-40	4.7	37	2.6	4	1.3	10380	17.4	12600	29	0.3
56-	43.9556-	108.1125-	2-	15-	0-	W06030	43380	-0.05	596	14320	58	-45	6.8	52	3.0	4	1.4	14670	11.1	16810	28	0.4
56-	43.9769-	108.0686-	2-	15-	0-	W06031	37620	-0.05	545	10610	45	-45	8.2	48	3.1	3	1.3	14690	6.9	12520	27	0.3
56-	43.8603-	108.1292-	2-	15-	0-	W06032	36010	-0.06	434	2487	46	53	5.1	40	3.2	4	1.3	12260	9.8	13850	28	0.3
56-	43.8853-	108.0028-	2-	15-	0-	W06033	34270	-0.04	399	3190	45	38	7.3	40	3.1	4	1.2	15620	13.6	12500	27	0.3
56-	43.9144-	108.0194-	2-	15-	0-	W06034	40150	-0.05	642	6896	55	106	6.2	47	3.8	5	1.3	14600	13.5	15760	31	0.4
56-	43.9486-	108.0319-	2-	15-	0-	W06035	36690	-0.05	578	7354	53	132	6.2	45	4.2	4	1.5	13430	9.7	15350	31	0.4
56-	43.9625-	108.0319-	2-	15-	0-	W06036	33390	-0.05	713	5950	47	-41	4.7	34	3.4	4	1.4	13440	12.5	12890	29	0.3
56-	43.9806-	108.0175-	2-	15-	0-	W06037	39280	-0.04	430	4542	50	-36	6.7	34	4.1	3	1.3	13740	8.0	15920	28	0.3
56-	43.9833-	108.0161-	2-	15-	0-	W06038	36670	-0.04	660	3826	53	-30	5.2	40	2.8	4	1.3	11370	10.1	14580	25	0.3
56-	43.7442-	108.9781-	2-	12-	0-	W06039	74970	-0.08	1365	44980	89	-104	34.4	315	-2.5	2	2.3	69260	9.1	11170	52	0.3
56-	43.7431-	108.9794-	2-	12-	0-	W06040	81890	-0.08	1405	44110	75	-117	23.2	189	-2.3	2	2.2	41760	5.7	12420	47	0.3
56-	43.7356-	108.9647-	2-	15-	0-	W06041	81870	-0.07	1356	39790	85	-107	24.7	151	2.2	2	2.1	39740	4.0	15690	49	0.2
56-	43.7250-	108.9561-	2-	12-	0-	W06042	82690	-0.06	1683	39880	93	119	17.5	144	-1.7	2	2.2	31410	4.4	14220	45	0.2
56-	43.7236-	108.9575-	2-	12-	0-	W06043	77790	-0.08	1303	44030	88	-105	33.6	291	-2.6	3	2.4	66450	7.9	12590	59	0.2
56-	43.7222-	108.9469-	2-	15-	0-	W06044	78070	-0.08	1293	39210	68	-108	23.7	187	-2.4	3	2.2	50260	6.8	12070	45	0.2
56-	43.7142-	108.9406-	2-	15-	0-	W06045	84560	-0.07	1233	39710	49	-110	22.9	127	-2.0	3	1.8	39600	5.0	17080	36	0.2
56-	43.7072-	108.9150-	2-	12-	0-	W06046	82950	-0.06	1485	37970	88	-103	18.5	133	-1.7	3	1.8	31610	4.3	14910	44	0.2
56-	43.7081-	108.9089-	2-	15-	0-	W06047	75490	-0.08	978	39110	71	-77	20.9	85	3.0	3	1.7	35190	5.5	15560	41	0.2
56-	43.7067-	108.9028-	2-	15-	0-	W06048	70650	-0.07	1053	42540	53	-90	17.9	77	-2.1	3	1.8	31900	7.1	17840	37	0.2
56-	43.7475-	108.8122-	2-	12-	0-	W06049	81500	-0.07	1183	46940	63	-105	24.9	164	-2.0	3	2.1	43540	5.1	15920	46	-0.1
56-	43.7492-	108.8117-	2-	15-	0-	W06050	82490	-0.06	1343	33680	81	-102	16.0	76	3.1	3	1.8	29040	4.6	18200	36	0.3
56-	43.7361-	108.8228-	2-	15-	0-	W06051	68750	-0.07	738	56500	68	136	13.3	51	-2.1	3	2.0	23310	6.5	15050	42	0.2
56-	43.7297-	108.8492-	2-	15-	0-	W06052	76640	-0.08	906	23710	77	-96	14.1	82	4.5	4	1.9	33330	6.9	23910	55	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.7894-108.1750-2-15-			0-	W	06001		24870	311	7317	-38	-2	7.9	5.0	352	-1	-1	10.7	3703	106	3.3	-135	0.346
56-43.7722-108.2236-2-15-			0-	W	06002		15830	249	7242	-25	-1	4.2	3.0	-196	-1	-1	6.8	2287	64	2.0	94	0.387
56-43.7792-108.2083-2-15-			0-	W	06003		34490	465	4107	57	-1	6.1	3.2	-219	-1	-1	7.7	2710	66	1.9	105	0.356
56-43.8069-108.2361-2-15-			0-	W	06004		15690	228	3295	39	-1	3.5	4.0	-151	-1	-1	8.4	2653	43	3.0	105	0.317
56-43.7944-108.1528-2-15-			0-	W	06005		10490	265	3383	-28	-1	5.1	5.1	-164	-1	-1	9.7	2871	39	3.3	62	0.349
56-43.7708-108.1361-2-15-			0-	W	06006		22410	232	3755	-22	-1	4.2	3.2	-180	-1	-1	6.9	2600	43	2.7	77	0.397
56-43.7542-108.1200-2-15-			0-	W	06007		16750	344	4432	46	-1	6.0	5.0	-184	-1	-1	12.1	4596	68	4.1	71	0.368
56-43.7806-108.0667-2-15-			0-	W	06008		16920	273	4045	63	-2	7.0	5.4	-191	-1	-1	10.5	3444	71	3.6	73	0.292
56-43.7792-108.0736-2-15-			0-	W	06009		18290	226	3122	89	-2	12.1	4.9	-195	-1	-1	12.9	4012	101	3.0	134	0.260
56-43.8189-108.1978-2-15-			0-	W	06010		15240	268	3552	-26	-1	4.8	3.1	-197	-1	-1	8.7	3553	51	3.8	-41	0.414
56-43.8264-108.2069-2-15-			0-	W	06011		8757	219	2164	40	-1	4.4	2.9	-152	-1	-1	7.2	2731	53	2.1	57	0.346
56-43.8333-108.2069-2-15-			0-	W	06012		15230	203	1836	78	-2	8.5	6.7	-170	-1	-1	12.2	4274	105	3.8	88	0.289
56-43.8522-108.1911-2-15-			0-	W	06013		4179	172	1233	49	-1	4.2	3.2	-125	-1	-1	6.5	2221	51	2.3	53	0.354
56-43.8583-108.1778-2-15-			0-	W	06014		4576	141	1330	-25	-1	3.6	2.7	-139	-1	-1	5.8	2630	50	3.0	-36	0.452
56-43.8931-108.2306-2-15-			0-	W	06015		8351	182	2741	-19	-1	4.2	3.0	-138	-1	-1	7.3	2289	56	1.8	-23	0.345
56-43.8917-108.2000-2-15-			0-	W	06016		5885	172	1090	48	-1	3.7	5.4	-127	-1	-1	10.0	3314	49	4.3	35	0.347
56-43.8861-108.1714-2-15-			0-	W	06017		6738	221	1345	-23	-1	4.0	5.3	-134	-1	-1	10.5	3675	48	3.9	-31	0.357
56-43.8694-108.1583-2-15-			0-	W	06018		19280	308	9333	-30	-2	6.7	3.0	361	-1	-1	7.7	3556	67	2.4	-34	0.379
56-43.8889-108.1306-2-15-			0-	W	06019		9658	221	1511	42	-1	4.3	3.9	-145	-1	-1	8.4	3164	62	3.1	29	0.401
56-43.9092-108.0972-2-15-			0-	W	06020		7043	176	1610	-18	-1	3.4	4.9	-129	-1	-1	8.8	3025	52	2.9	29	0.351
56-43.9028-108.0528-2-15-			0-	W	06021		7367	139	2154	-25	-1	4.9	3.6	-128	-1	-1	8.5	2941	59	3.2	36	0.342
56-43.8986-108.0736-2-15-			0-	W	06022		6194	177	2942	-24	-1	3.9	3.4	-158	-1	-1	8.5	3513	51	3.3	77	0.399
56-43.8764-108.1017-2-15-			0-	W	06023		8144	202	1548	54	-1	4.0	2.8	-146	-1	-1	6.7	2395	60	2.4	70	0.367
56-43.8944-108.0819-2-15-			0-	W	06024		15140	282	8244	47	-1	4.8	5.0	192	-1	-1	11.9	2939	57	2.9	71	0.259
56-43.9950-108.2125-2-12-			0-	W	06025		17050	246	6090	52	-1	5.3	5.1	217	-1	-1	10.4	3190	52	4.3	-38	0.352
56-43.9764-108.1375-2-15-			0-	W	06026		9024	196	4117	59	-1	5.4	3.0	-170	-1	-1	8.3	2773	69	2.2	79	0.308
56-43.9686-108.2208-2-15-			0-	W	06028		7342	199	2336	-22	-1	4.4	4.4	-131	-1	-1	9.7	2503	52	2.8	-30	0.321
56-43.9306-108.1611-2-15-			0-	W	06029		10050	178	2625	-23	-1	4.3	4.1	-154	-1	-1	8.0	2891	60	3.8	35	0.388
56-43.9556-108.1125-2-15-			0-	W	06030		13540	260	3954	46	-1	5.3	5.6	-170	-1	-1	9.5	3046	73	3.2	-37	0.321
56-43.9269-108.0686-2-15-			0-	W	06031		10050	214	5159	52	-1	5.2	4.3	-148	-1	-1	7.9	2321	56	2.1	51	0.292
56-43.8603-108.1292-2-15-			0-	W	06032		7117	118	2085	-23	-1	5.1	2.7	-145	-1	-1	7.0	2822	64	2.2	-37	0.367
56-43.8853-108.0028-2-15-			0-	W	06033		6077	165	1292	45	-1	5.1	3.4	-128	-1	-1	7.5	2661	69	2.5	75	0.361
56-43.9144-108.0194-2-15-			0-	W	06034		8619	208	2597	52	-1	5.5	4.6	-148	-1	-1	9.4	3227	75	2.4	86	0.330
56-43.9486-108.0319-2-15-			0-	W	06035		8235	215	4266	59	-1	5.1	5.1	-154	-1	-1	8.4	2589	63	2.8	-20	0.333
56-43.9625-108.0319-2-15-			0-	W	06036		7259	210	2876	48	-1	4.6	3.9	-171	-1	-1	7.6	2957	58	3.6	62	0.375
56-43.9806-108.0175-2-15-			0-	W	06037		8348	177	2900	62	-1	5.2	3.9	-139	-1	-1	8.0	2813	63	2.2	74	0.353
56-43.9833-108.0161-2-15-			0-	W	06038		8742	165	2089	46	-1	4.4	4.2	-130	-1	-1	7.9	2892	58	2.5	57	0.353
56-43.7442-108.9781-2-12-			0-	W	06039		37970	760	24250	-41	-2	18.3	5.8	984	-2	-2	9.4	7102	207	-1.8	107	0.189
56-43.7431-108.9794-2-12-			0-	W	06040		31430	608	25540	-37	-2	14.4	4.4	869	-1	-1	8.4	4567	128	-1.6	-67	0.199
56-43.7356-108.9647-2-15-			0-	W	06041		28650	586	24520	-32	-2	12.9	4.5	1066	-1	-1	8.7	4292	116	-1.4	89	0.207
56-43.7250-108.9561-2-12-			0-	W	06042		27650	551	25580	-27	-1	10.5	4.9	1082	-1	-1	8.4	3562	102	2.6	-44	0.212
56-43.7236-108.9575-2-12-			0-	W	06043		39280	768	23250	-43	-2	18.8	6.2	1290	-1	-1	8.6	6901	208	3.1	80	0.197
56-43.7222-108.9469-2-15-			0-	W	06044		29120	617	21130	-38	-2	15.7	4.2	949	-1	-1	8.0	5359	161	-2.1	116	0.253
56-43.7142-108.9406-2-15-			0-	W	06045		27710	678	23620	-32	-2	13.7	3.9	909	-1	-1	5.9	3784	118	-1.4	-64	0.297
56-43.7072-108.9150-2-12-			0-	W	06046		26090	550	25190	-26	-1	10.5	5.2	1319	-1	-1	7.4	3393	94	1.8	42	0.235
56-43.7081-108.9089-2-15-			0-	W	06047		21550	523	11380	-36	-2	11.7	4.6	632	-1	-1	7.9	3781	90	2.2	112	0.235
56-43.7067-108.9028-2-15-			0-	W	06048		16330	548	13040	-35	-2	9.9	4.3	657	-1	-1	7.9	3255	82	2.3	64	0.233
56-43.7475-108.8122-2-12-			0-	W	06049		31310	630	23900	-32	-2	15.9	4.0	1071	-1	-1	6.9	4440	135	-1.5	102	0.255
56-43.7492-108.8117-2-15-			0-	W	06050		24530	541	21960	64	-2	8.7	5.5	827	-1	-1	8.4	3549	87	2.4	-80	0.282
56-43.7361-108.8228-2-15-			0-	W	06051		17060	587	14530	59	-2	7.0	5.5	-295	-2	-1	8.7	3029	55	2.3	88	0.317
56-43.7297-108.8492-2-15-			0-	W	06052		24920	461	15930	98	-2	10.0	5.0	451	-1	-1	15.7	3854	80	-2.1	80	0.186

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.7080-108.8478-2-15-						0-W06053-08/28/76-15-			32-		-	-	-	-	-	3-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	1.99
56-43.7072-108.8478-2-15-						0-W06054-08/28/76-15-			32-		-	-	-	-	-	4-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	1.79
56-43.6917-108.9672-2-12-						0-W06055-08/28/76-16-			30-	23.0-	-	-	6.9-	300-	-	9-1-7-4-6-	-	?-3-1-2-	-	-	-2-1-	-1-	-	-	-	-	1.65
56-43.6911-108.9578-2-15-						0-W06056-08/28/76-16-			30-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	1.75
56-43.6928-108.9394-2-15-						0-W06057-08/28/76-16-			30-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	1.71
56-43.6900-108.8944-2-15-						0-W06058-08/28/76-16-			30-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	2.13
56-43.6700-108.9236-2-15-						0-W06059-08/28/76-16-			28-		-	-	-	-	-	4-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	2.00
56-43.6772-108.8983-2-15-						0-W06060-08/28/76-17-			28-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	1.97
56-43.6722-108.8622-2-12-						0-W06061-08/28/76-17-			28-	22.0-	-	-	6.6-	250-	-	14-1-7-4-6-	2-3-1-2-	2-2-2-2-1-	-1-	-	-	-	-	-	1.83
56-43.6728-108.8603-2-15-						0-W06062-08/28/76-17-			26-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-4-2-2-1-	-1-	-	-	-	-	-	2.10
56-43.6669-108.8556-2-12-						0-W06063-08/28/76-17-			26-	23.0-	-	-	6.6-	300-	-	12-1-7-4-6-	2-3-1-2-	2-2-2-2-1-	-1-	-	-	-	-	-	1.63
56-43.6892-108.8414-2-12-						0-W06064-08/28/76-17-			26-	22.0-	-	-	6.7-	270-	-	17-1-7-4-6-	2-3-1-2-	2-2-2-2-1-	-1-	-	-	-	-	-	1.61
56-43.6933-108.8272-2-15-						0-W06065-08/28/76-17-			26-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-1-2-1-	-1-	-	-	-	-	-	1.81
56-43.7192-108.7489-2-15-						0-W06066-08/28/76-17-			26-		-	-	-	-	-	9-1-7-4-4-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	1.82
56-43.7094-108.7439-2-12-						0-W06067-08/28/76-17-			26-	23.5-	-	-	6.7-	350-	-	9-1-7-4-6-	2-3-1-2-	2-2-2-2-1-	-1-	-	-	-	-	-	2.43
56-43.7056-108.7350-2-15-						0-W06068-08/28/76-18-			25-		-	-	-	-	-	12-1-7-4-4-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	1.94
56-43.7075-108.7150-2-12-						0-W06069-08/28/76-18-			25-	23.0-	-	-	6.8-	250-	-	8-1-7-4-6-	2-3-1-2-	3-3-2-1-	-1-	-	-	-	-	-	1.94
56-43.7061-108.6514-2-15-						0-W06070-08/28/76-18-			25-		-	-	-	-	-	11-1-7-4-4-	-	-	-2-4-3-2-1-	-1-	-	-	-	-	-	2.43
56-43.7069-108.6411-2-15-						0-W06071-08/28/76-18-			25-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-2-3-2-1-	-1-	-	-	-	-	-	2.99
56-43.7358-108.6417-2-12-						0-W06072-08/28/76-18-			24-	23.0-	-	-	6.9-	360-	-	9-1-7-4-6-	2-3-1-2-	2-2-2-2-1-	-1-	-	-	-	-	-	2.13
56-43.7375-108.6347-2-15-						0-W06073-08/28/76-18-			24-		-	-	-	-	-	12-1-7-4-4-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	1.95
56-43.7375-108.6169-2-15-						0-W06074-08/28/76-19-			24-		-	-	-	-	-	12-1-7-4-4-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	1.97
56-43.7064-108.6139-2-15-						0-W06075-08/28/76-19-			24-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-3-1-1-	-1-	-	-	-	-	-	3.44
56-43.7383-108.5322-2-15-						0-W06076-08/28/76-19-			24-		-	-	-	-	-	16-1-7-4-6-	-	-	-2-3-2-3-1-	-1-	-	-	-	-	-	2.69
56-43.7386-108.5294-2-15-						0-W06077-08/28/76-19-			24-		-	-	-	-	-	17-1-7-4-6-	-	-	-2-3-2-3-1-	-1-	-	-	-	-	-	2.76
56-43.9792-108.5917-2-15-						0-W06078-08/19/76-13-			30-		-	-	-	-	-	16-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	3.10
56-43.9736-108.5792-2-15-						0-W06079-08/19/76-13-			30-		-	-	-	-	-	14-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	2.75
56-43.9958-108.5444-2-15-						0-W06080-08/19/76-13-			30-		-	-	-	-	-	17-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.18
56-43.9944-108.5042-2-15-						0-W06081-08/19/76-13-			30-		-	-	-	-	-	16-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.13
56-43.9250-108.5333-2-15-						0-W06082-08/19/76-14-			30-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-4-3-2-1-	-1-	-	-	-	-	-	3.42
56-43.9139-108.5069-2-15-						0-W06083-08/19/76-14-			30-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.11
56-43.9167-108.5333-2-12-						0-W06084-08/19/76-14-			30-	18.0-	-	-	7.2-	3900-	-	11-1-7-4-6-	2-2-2-2-3-	3-2-1-	-1-	-	-	-	-	-	3.16
56-43.9083-108.5597-2-15-						0-W06085-08/19/76-14-			30-		-	-	-	-	-	6-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	2.99
56-43.9125-108.6222-2-15-						0-W06086-08/19/76-14-			30-		-	-	-	-	-	16-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.72
56-43.8972-108.6458-2-15-						0-W06087-08/19/76-15-			30-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.33
56-43.8944-108.6444-2-15-						0-W06088-08/19/76-15-			30-		-	-	-	-	-	14-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.12
56-43.9000-108.6689-2-15-						0-W06089-08/19/76-15-			30-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.62
56-43.8944-108.6875-2-15-						0-W06090-08/19/76-15-			27-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	3.20
56-43.8986-108.6869-2-15-						0-W06091-08/19/76-15-			28-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.24
56-43.9486-108.7083-2-12-						0-W06092-08/19/76-16-			28-	17.5-	-	-	6.9-	700-	-	9-1-7-5-6-	2-3-1-2-	4-4-2-1-	-1-	-	-	-	-	-	2.66
56-43.9500-108.7208-2-15-						0-W06093-08/19/76-16-			30-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.92
56-43.9619-108.7642-2-15-						0-W06094-08/19/76-16-			30-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.31
56-43.9722-108.7575-2-11-						0-W06095-08/19/76-16-			30-	18.0-	0-	-	7.8-	34000-	-	3-1-7-4-6-	2-2-1-2-	3-3-2-1-	-1-	-	-	-	-	-	2.76
56-43.9917-108.7411-2-12-						0-W06096-08/19/76-17-			30-	19.0-	-	-	6.8-	800-	-	16-1-7-4-6-	2-2-2-2-3-	3-2-1-	-1-	-	-	-	-	-	2.84
56-43.9972-108.7408-2-15-						0-W06097-08/19/76-17-			30-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.65
56-43.9847-108.7661-2-15-						0-W06099-08/19/76-17-			30-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.30
56-43.9853-108.7681-2-12-						0-W06100-08/19/76-17-			30-	16.0-	-	-	6.9-	1000-	-	12-1-7-4-6-	3-3-1-2-	3-3-2-1-	-1-	-	-	-	-	-	2.81
56-43.9792-108.8061-2-15-						0-W06101-08/19/76-18-			26-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.11
56-43.9619-108.8167-2-15-						0-W06102-08/19/76-18-			30-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	2.66
56-43.9611-108.8350-2-12-						0-W06103-08/19/76-18-			30-	16.0-	-	-	7.8-	900-	-	8-1-7-4-6-	3-3-1-2-	3-3-2-1-	-1-	-	-	-	-	-	3.06
56-43.9469-108.8644-2-11-						0-W06104-08/19/76-18-			30-	12.0-	-	-	7.6-	800-	-	9-1-7-4-6-	3-3-1-2-	3-3-2-1-	-1-	-	-	-	-	-	3.03

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-	43.7089-	108.8478-	2-	15-	0-	W06053	-5	-5	-5	32	-20	19	-5	-10	-15	3	39
56-	43.7072-	108.8478-	2-	15-	0-	W06054	-5	-5	-5	35	-20	19	8	-10	-15	2	69
56-	43.6917-	108.9672-	2-	12-	0-	W06055	-5	-5	-5	24	-20	37	13	-10	-15	2	33
56-	43.6911-	108.9578-	2-	15-	0-	W06056	-5	10	-5	29	-20	42	10	-10	-15	2	29
56-	43.6928-	108.9394-	2-	15-	0-	W06057	-5	-5	-5	28	-20	36	12	-10	-15	2	28
56-	43.6900-	108.8544-	2-	15-	0-	W06058	-5	7	-5	25	-20	35	16	-10	-15	2	44
56-	43.6700-	108.9236-	2-	15-	0-	W06059	-5	-5	-5	25	-20	20	9	-10	-15	2	43
56-	43.6772-	108.8983-	2-	15-	0-	W06060	-5	-5	-5	25	-20	21	6	-10	-15	2	44
56-	43.6722-	108.8622-	2-	12-	0-	W06061	-5	-5	-5	25	-20	37	-5	-10	-15	2	33
56-	43.6728-	108.8603-	2-	15-	0-	W06062	-5	-5	-5	26	-20	17	7	-10	-15	2	23
56-	43.6669-	108.8556-	2-	12-	0-	W06063	-5	-5	-5	30	-20	30	-5	-10	-15	2	19
56-	43.6892-	108.8414-	2-	12-	0-	W06064	-5	-5	-5	18	-20	52	-5	-10	-15	2	24
56-	43.6933-	108.8372-	2-	15-	0-	W06065	-5	-5	-5	21	-20	27	8	-10	-15	2	28
56-	43.7192-	108.7489-	2-	15-	0-	W06066	-5	-5	-5	21	-20	-15	-5	-10	-15	1	11
56-	43.7094-	108.7439-	2-	12-	0-	W06067	-5	-5	-5	37	-20	48	6	-10	-15	2	35
56-	43.7056-	108.7350-	2-	15-	0-	W06068	-5	-5	-5	21	-20	-15	-5	-10	-15	2	32
56-	43.7075-	108.7150-	2-	12-	0-	W06069	-5	-5	-5	27	-20	26	5	-10	-15	2	28
56-	43.7061-	108.6514-	2-	15-	0-	W06070	-5	-5	-5	18	-20	-15	-5	-10	-15	2	90
56-	43.7069-	108.6411-	2-	15-	0-	W06071	-5	-5	-5	29	-20	23	5	-10	-15	2	87
56-	43.7358-	108.6417-	2-	12-	0-	W06072	-5	6	-5	37	-20	-15	-5	-10	-15	2	94
56-	43.7375-	108.6347-	2-	15-	0-	W06073	-5	-5	-5	21	-20	-15	-5	-10	-15	2	25
56-	43.7375-	108.6169-	2-	15-	0-	W06074	-5	-5	-5	30	-20	-15	5	-10	-15	2	49
56-	43.7064-	108.6139-	2-	15-	0-	W06075	-5	-5	5	31	-20	32	9	-10	-15	3	84
56-	43.7383-	108.5322-	2-	15-	0-	W06076	-5	-5	-5	12	-20	16	5	-10	-15	2	46
56-	43.7386-	108.5294-	2-	15-	0-	W06077	-5	6	-5	19	-20	-15	-5	-10	-15	2	48
56-	43.9792-	108.5917-	2-	15-	0-	W06078	-5	-5	-5	26	-20	-15	-5	-10	-15	2	36
56-	43.9736-	108.5792-	2-	15-	0-	W06079	-5	-5	-5	21	-20	-15	-5	-10	-15	2	37
56-	43.9958-	108.5444-	2-	15-	0-	W06080	-5	5	-5	25	-20	-15	6	-10	-15	2	20
56-	43.9944-	108.5042-	2-	15-	0-	W06081	-5	6	-5	12	-20	-15	-5	-10	-15	2	21
56-	43.9250-	108.5333-	2-	15-	0-	W06082	-5	-5	-5	13	-20	-15	-5	-10	-15	2	17
56-	43.9139-	108.5019-	2-	15-	0-	W06083	-5	-5	-5	19	-20	-15	-5	-10	-15	2	19
56-	43.9167-	108.5333-	2-	12-	0-	W06084	-5	-5	-5	12	-20	-15	5	-10	-15	2	20
56-	43.9083-	108.5597-	2-	15-	0-	W06085	-5	-5	-5	18	-20	15	9	-10	-15	1	9
56-	43.9125-	108.6222-	2-	15-	0-	W06086	-5	-5	-5	30	-20	15	16	-10	-15	3	36
56-	43.8972-	108.6458-	2-	15-	0-	W06087	-5	-5	-5	20	-20	-15	6	-10	-15	2	19
56-	43.8944-	108.6444-	2-	15-	0-	W06088	-5	-5	-5	15	-20	-15	-5	-10	-15	2	15
56-	43.9000-	108.6889-	2-	15-	0-	W06089	-5	-5	-5	21	-20	-15	11	-10	-15	2	23
56-	43.8944-	108.6875-	2-	15-	0-	W06090	-5	7	-5	33	-20	15	5	-10	-15	2	14
56-	43.8986-	108.6869-	2-	15-	0-	W06091	-5	-5	-5	29	-20	-15	7	-10	-15	2	18
56-	43.9486-	108.7083-	2-	12-	0-	W06092	-5	-5	-5	26	-20	-15	6	-10	-15	2	24
56-	43.9500-	108.7208-	2-	15-	0-	W06093	-5	-5	-5	28	-20	17	14	-10	-15	3	31
56-	43.9619-	108.7642-	2-	15-	0-	W06094	-5	-5	-5	19	-20	18	7	-10	-15	2	36
56-	43.9722-	108.7575-	2-	11-	0-	W06095	-5	-5	-5	24	-20	-15	-5	-10	-15	2	29
56-	43.9917-	108.7411-	2-	12-	0-	W06096	-5	-5	-5	24	-20	-15	5	-10	-15	2	36
56-	43.9972-	108.7408-	2-	15-	0-	W06097	-5	-5	-5	16	-20	-15	-5	-10	-15	2	18
56-	43.9847-	108.7661-	2-	15-	0-	W06099	-5	-5	-5	13	-20	-15	-5	-10	-15	2	22
56-	43.9853-	108.7681-	2-	12-	0-	W06100	-5	-5	-5	13	-20	-15	6	-10	-15	1	15
56-	43.9792-	108.8061-	2-	15-	0-	W06101	-5	-5	-5	17	-20	-15	11	-10	-15	2	19
56-	43.9619-	108.8167-	2-	15-	0-	W06102	-5	5	-5	14	-20	-15	9	-10	-15	2	30
56-	43.9611-	108.8350-	2-	12-	0-	W06103	-5	-5	-5	15	-20	-15	9	-10	-15	2	23
56-	43.9469-	108.8644-	2-	11-	0-	W06104	-5	-5	-5	16	-20	18	-5	-10	-15	2	23

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.7089-	108.8478-	2-	15-	0-	W06053	77880	-0.07	1352	40450	68	-103	22.5	150	-2.0	3	2.2	44280	7.1	21080	47	0.2
56-	43.7072-	108.8478-	2-	15-	0-	W06054	82660	-0.06	1636	41730	80	-101	19.6	143	-1.8	3	1.9	38990	6.2	18050	38	0.3
56-	43.6917-	108.9672-	2-	12-	0-	W06055	82550	-0.07	1525	43510	94	-102	23.8	171	-2.3	2	2.1	43890	5.1	14880	52	0.2
56-	43.6911-	108.9578-	2-	15-	0-	W06056	82450	-0.08	1546	40490	72	-116	25.5	182	-2.3	2	2.0	45440	5.0	15330	54	0.2
56-	43.6928-	108.9394-	2-	15-	0-	W06057	78830	-0.07	1269	43670	58	-105	28.1	193	-2.0	2	2.0	49660	6.1	17080	49	0.3
56-	43.6900-	108.8944-	2-	15-	0-	W06058	81500	-0.07	1532	35160	92	-106	19.5	116	-1.9	3	2.0	30420	4.7	17580	47	0.2
56-	43.6700-	108.9236-	2-	12-	0-	W06059	71420	-0.07	1111	26100	85	-81	21.9	114	2.9	3	2.1	38480	9.2	16800	44	0.4
56-	43.6772-	108.8983-	2-	15-	0-	W06060	69240	-0.07	1199	51100	62	-85	17.7	104	3.4	3	1.9	34070	6.6	15970	41	0.3
56-	43.6722-	108.8622-	2-	12-	0-	W06061	81200	-0.06	1453	38850	80	-104	22.5	125	-1.9	2	1.9	35270	5.1	19130	50	0.2
56-	43.6728-	108.8603-	2-	15-	0-	W06062	72710	-0.06	1135	24270	77	-78	14.9	93	2.9	3	1.8	31230	7.7	17090	35	0.2
56-	43.6669-	108.8556-	2-	12-	0-	W06063	77640	-0.08	1418	41280	82	-101	28.6	221	-2.3	3	2.2	51650	5.3	12550	53	0.2
56-	43.6892-	108.8414-	2-	12-	0-	W06064	77100	-0.08	1247	46090	92	-119	29.6	282	-2.5	3	2.2	58690	6.1	12410	47	0.2
56-	43.6933-	108.8372-	2-	15-	0-	W06065	80550	-0.06	1380	39730	78	-104	23.0	144	-2.0	2	2.1	36980	5.5	15620	46	0.2
56-	43.7192-	108.7489-	2-	15-	0-	W06066	43180	-0.05	446	74840	43	-60	7.6	49	2.0	3	1.2	15020	8.2	17610	23	0.4
56-	43.7094-	108.7439-	2-	12-	0-	W06067	75120	-0.09	1511	39000	105	-105	25.0	153	-2.7	3	2.1	41340	7.8	15840	60	0.3
56-	43.7056-	108.7350-	2-	15-	0-	W06068	43770	-0.06	554	94330	44	-72	8.9	49	3.0	3	1.4	18350	7.1	16880	26	0.3
56-	43.7075-	108.7150-	2-	12-	0-	W06069	79990	-0.06	1459	41740	86	-101	18.1	117	-1.8	2	1.8	29730	4.5	17250	51	0.2
56-	43.7061-	108.6514-	2-	15-	0-	W06070	50930	-0.05	498	39690	54	-70	9.2	61	3.4	4	1.4	18370	7.9	22830	24	0.4
56-	43.7069-	108.6411-	2-	15-	0-	W06071	53350	-0.07	561	34890	62	-62	10.3	62	4.1	4	1.7	23200	8.7	21470	33	0.3
56-	43.7358-	108.6417-	2-	12-	0-	W06072	48850	-0.07	380	70360	40	-75	9.5	43	2.8	4	1.4	19380	6.3	20130	26	0.3
56-	43.7375-	108.6347-	2-	15-	0-	W06073	45510	-0.05	465	84150	43	-65	9.1	45	2.9	3	1.4	19650	7.7	16590	23	0.3
56-	43.7375-	108.6169-	2-	15-	0-	W06074	46430	-0.05	417	80200	53	-59	8.3	56	3.1	4	1.4	18520	7.1	19890	25	0.3
56-	43.7064-	108.6139-	2-	15-	0-	W06075	60740	-0.08	737	23800	57	-62	11.9	60	6.6	5	1.7	26370	6.8	18160	32	0.4
56-	43.7383-	108.5322-	2-	15-	0-	W06076	44710	-0.05	691	41650	40	744	5.7	30	3.0	3	1.4	14650	7.8	14630	28	0.3
56-	43.7386-	108.5294-	2-	15-	0-	W06077	43750	-0.05	465	40540	44	246	7.4	39	3.6	3	1.2	16730	6.2	15010	26	0.3
56-	43.9792-	108.5917-	2-	15-	0-	W06078	29680	-0.04	510	25850	53	40	4.6	35	2.2	4	1.2	9984	19.0	13690	30	0.4
56-	43.9736-	108.5792-	2-	15-	0-	W06079	35020	-0.06	514	31720	49	1151	6.5	36	2.8	4	1.4	13420	11.2	14600	31	0.4
56-	43.9958-	108.5444-	2-	15-	0-	W06080	32160	-0.05	432	27250	53	-48	5.2	31	3.4	4	1.4	12750	20.5	13530	34	0.4
56-	43.9944-	108.5042-	2-	15-	0-	W06081	28470	-0.04	422	27670	51	53	5.3	37	2.3	4	1.2	11180	19.8	12110	31	0.4
56-	43.9250-	108.5333-	2-	15-	0-	W06082	28910	-0.04	632	6895	58	41	4.8	43	2.4	5	1.4	11120	19.5	13420	32	0.5
56-	43.9139-	108.5069-	2-	15-	0-	W06083	39940	-0.06	514	4617	42	-26	6.6	40	4.0	4	1.2	14140	9.7	12070	30	0.3
56-	43.9167-	108.5333-	2-	12-	0-	W06084	37060	-0.06	727	17710	50	489	8.4	52	2.6	4	1.3	16470	16.4	14410	34	0.4
56-	43.9083-	108.5597-	2-	15-	0-	W06085	43460	-0.05	630	10940	54	-49	8.1	41	3.5	4	1.3	14420	11.4	16720	29	0.3
56-	43.9125-	108.6222-	2-	15-	0-	W06086	77760	-0.08	597	3991	85	80	7.3	62	6.4	5	1.8	15960	7.3	17330	43	0.5
56-	43.8972-	108.6458-	2-	15-	0-	W06087	55410	-0.07	556	4583	63	-34	7.7	48	4.5	5	1.5	13680	13.0	13950	33	0.4
56-	43.8944-	108.6444-	2-	15-	0-	W06088	50300	-0.07	525	4428	46	-33	6.5	44	4.4	4	1.2	14100	12.6	13796	39	0.3
56-	43.9000-	108.6689-	2-	15-	0-	W06089	42350	-0.05	423	4208	53	-28	7.5	41	3.3	4	1.2	13080	19.3	12040	32	0.4
56-	43.8944-	108.6875-	2-	15-	0-	W06090	42660	-0.05	495	5629	56	137	6.9	44	3.2	4	1.2	9861	14.7	12400	34	0.4
56-	43.8984-	108.6869-	2-	15-	0-	W06091	45760	-0.07	534	9407	55	178	8.8	44	3.8	4	1.3	11950	14.2	12160	36	0.4
56-	43.9486-	108.7083-	2-	12-	0-	W06092	64090	-0.08	909	29000	50	-80	11.9	93	1.8	3	1.7	24710	9.6	13690	34	0.3
56-	43.9500-	108.7208-	2-	15-	0-	W06093	83930	-0.09	512	5608	72	82	10.1	65	5.9	5	1.7	21790	5.2	18940	45	0.2
56-	43.9619-	108.7642-	2-	15-	0-	W06094	57370	-0.06	524	20230	86	-52	9.9	46	3.4	5	1.6	20630	15.5	17200	43	0.5
56-	43.9722-	108.7575-	2-	11-	0-	W06095	39040	-0.07	292	15210	44	-37	6.7	32	4.3	4	1.3	11550	9.9	13380	30	0.3
56-	43.9917-	108.7411-	2-	12-	0-	W06096	41640	-0.07	485	23660	49	-51	6.0	40	2.8	4	1.3	13380	8.7	16060	31	0.4
56-	43.9972-	108.7408-	2-	15-	0-	W06097	37660	-0.05	360	10990	51	68	6.2	42	2.7	4	1.4	10950	18.3	13770	33	0.3
56-	43.9847-	108.7661-	2-	15-	0-	W06098	36710	-0.05	477	11180	58	-41	4.3	44	2.3	4	1.2	9248	17.0	13980	33	0.4
56-	43.9853-	108.7681-	2-	12-	0-	W06100	34290	-0.06	448	10150	52	-40	4.4	33	2.8	4	1.4	9726	13.9	14390	32	0.3
56-	43.9792-	108.8061-	2-	15-	0-	W06101	61890	-0.08	609	10690	62	-54	9.4	49	3.2	5	1.5	15420	11.4	18270	35	0.3
56-	43.9619-	108.8167-	2-	15-	0-	W06102	59620	-0.07	870	39270	60	493	13.9	95	-1.6	3	1.5	29480	10.0	16090	36	0.2
56-	43.9611-	108.8350-	2-	12-	0-	W06103	49300	-0.07	589	15600	63	86	8.0	61	4.0	4	1.5	15680	11.5	17470	29	0.4
56-	43.9469-	108.8644-	2-	11-	0-	W06104	46780	-0.08	637	16180	51	-50	8.7	53	3.6	4	1.4	15930	13.0	15610	33	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	43.7089-	108.8478-	2-	15-	0-	W06053	26900	675	21750	-32	-2	14.1	4.3	830	-1	-1	7.7	5056	135	3.1	122	0.258
56-	43.7072-	108.8478-	2-	15-	0-	W06054	26440	665	22570	-28	-2	13.2	4.8	715	-1	-1	6.1	4590	141	3.2	68	0.293
56-	43.6917-	108.9672-	2-	12-	0-	W06055	31780	592	25360	-37	-2	14.6	5.1	1126	-1	-1	8.0	3933	113	2.4	-49	0.206
56-	43.6911-	108.9578-	2-	15-	0-	W06056	35140	634	24510	-35	-2	14.4	4.7	915	-1	-1	7.8	4753	133	2.9	-31	0.224
56-	43.6928-	108.9394-	2-	15-	0-	W06057	31940	640	24170	-32	-2	15.4	4.6	922	-1	-1	7.6	4929	152	1.6	129	0.225
56-	43.6900-	108.8944-	2-	15-	0-	W06058	29430	575	22290	41	-2	10.0	5.3	1015	-1	-1	9.0	4240	91	1.7	81	0.237
56-	43.6700-	108.9236-	2-	15-	0-	W06059	19930	558	14920	-36	-2	12.1	5.5	672	-1	-1	9.7	4064	110	1.7	-47	0.206
56-	43.6772-	108.8983-	2-	15-	0-	W06060	23950	480	12490	58	-2	11.0	4.8	401	-1	-1	8.9	3787	94	2.3	-35	0.221
56-	43.6722-	108.8622-	2-	12-	0-	W06061	27860	543	24200	64	-2	11.8	4.4	830	-1	-1	9.1	3494	100	-1.5	94	0.201
56-	43.6728-	108.8603-	2-	15-	0-	W06062	18720	560	12660	-27	-1	9.4	4.7	541	-1	-1	8.3	4080	102	1.8	-53	0.253
56-	43.6669-	108.8556-	2-	12-	0-	W06063	31110	649	24830	-38	-2	15.6	5.8	900	-1	-1	8.7	4877	156	-2.2	-49	0.187
56-	43.6892-	108.8414-	2-	12-	0-	W06064	38730	739	23620	-40	-2	17.7	4.4	960	-1	-2	7.1	5948	170	1.6	111	0.227
56-	43.6933-	108.8372-	2-	15-	0-	W06065	30930	553	24210	-33	-2	12.1	4.4	913	-1	-1	8.0	3329	102	-1.4	153	0.226
56-	43.7192-	108.7486-	2-	15-	0-	W06066	10440	374	6262	28	-1	6.0	3.7	-202	-1	-1	6.4	2993	46	1.9	-32	0.284
56-	43.7094-	108.7439-	2-	12-	0-	W06067	41240	567	20290	-42	-2	12.3	5.7	806	-2	-1	11.5	4833	112	-1.9	-46	0.211
56-	43.7056-	108.7350-	2-	15-	0-	W06068	26550	434	6733	-31	-2	6.8	3.3	-255	-1	-1	7.3	3066	53	2.8	120	0.266
56-	43.7075-	108.7150-	2-	12-	0-	W06069	30950	432	24290	-29	-2	9.9	4.2	1062	-1	-1	8.9	3133	87	-1.4	-56	0.218
56-	43.7061-	108.6514-	2-	15-	0-	W06070	35770	430	10210	62	-1	7.6	5.1	-230	-1	-1	8.7	3505	64	3.1	46	0.279
56-	43.7069-	108.6411-	2-	15-	0-	W06071	26010	425	7819	77	-2	8.5	5.5	-216	-1	-1	8.8	3507	77	2.5	-98	0.340
56-	43.7358-	108.6417-	2-	12-	0-	W06072	32890	397	6055	-35	-2	8.0	3.2	-267	-1	1	7.2	3872	57	3.0	56	0.296
56-	43.7375-	108.6347-	2-	15-	0-	W06073	24980	413	6708	-23	-1	6.9	3.3	-211	-1	-1	6.5	2928	55	2.2	57	0.300
56-	43.7375-	108.6169-	2-	15-	0-	W06074	34190	437	5079	54	-1	7.1	5.1	-218	-1	-1	7.0	3398	55	2.6	87	0.281
56-	43.7064-	108.6139-	2-	15-	0-	W06075	19920	353	5858	100	-2	10.1	4.8	-212	-1	-1	10.3	3786	143	-1.6	-87	0.334
56-	43.7383-	108.5322-	2-	15-	0-	W06076	31570	206	10700	58	-1	4.6	3.5	386	-1	-1	7.1	2241	67	2.2	-72	0.379
56-	43.7386-	108.5294-	2-	15-	0-	W06077	30050	213	7636	48	-1	5.4	3.2	-170	-1	-1	7.4	2260	84	1.5	-42	0.373
56-	43.9792-	108.5917-	2-	15-	0-	W06078	18170	225	3424	28	-1	3.6	4.2	-145	-1	-1	7.7	2559	46	3.1	49	0.403
56-	43.9736-	108.5792-	2-	15-	0-	W06079	22250	257	7900	51	-1	5.1	4.1	-188	-1	-1	8.7	2485	56	2.4	69	0.316
56-	43.9958-	108.5444-	2-	15-	0-	W06080	18900	271	3913	50	-1	4.6	4.4	-183	-1	-1	8.6	2811	51	3.2	68	0.370
56-	43.9944-	108.5042-	2-	15-	0-	W06081	19530	240	3856	35	-1	4.1	3.5	-151	-1	-1	8.3	2526	50	2.7	55	0.377
56-	43.9250-	108.5333-	2-	15-	0-	W06082	7958	177	2153	35	-1	3.7	5.3	-132	-1	-1	8.7	3454	45	3.1	47	0.393
56-	43.9139-	108.5069-	2-	15-	0-	W06083	8023	174	1191	44	-2	5.7	3.9	-121	-1	-1	9.2	2795	54	3.3	-21	0.338
56-	43.9167-	108.5333-	2-	12-	0-	W06084	11580	265	6192	-25	-2	5.8	3.5	-181	-1	-1	8.9	2758	52	2.7	73	0.355
56-	43.9083-	108.5597-	2-	15-	0-	W06085	7264	226	6283	52	-1	5.1	4.0	-154	-1	-1	9.1	2701	42	2.7	60	0.329
56-	43.9125-	108.6222-	2-	15-	0-	W06086	10270	154	3138	102	-2	8.9	7.7	316	-1	-1	12.9	4230	81	2.3	60	0.288
56-	43.8972-	108.6458-	2-	15-	0-	W06087	7814	169	2118	66	-2	7.1	4.3	-135	-1	-1	11.7	3491	61	3.2	104	0.285
56-	43.8944-	108.6444-	2-	15-	0-	W06088	6416	159	1398	61	-2	5.9	2.8	-152	-1	-1	8.8	3181	59	3.5	52	0.355
56-	43.9000-	108.6689-	2-	15-	0-	W06089	5425	143	1522	44	-1	5.7	4.1	-117	-1	-1	9.6	2656	49	3.9	61	0.377
56-	43.8944-	108.6875-	2-	15-	0-	W06090	5203	118	1001	-18	-1	5.1	4.5	-108	-1	-1	9.5	2891	52	2.6	74	0.337
56-	43.8986-	108.6869-	2-	15-	0-	W06091	5887	125	1380	-25	-2	6.2	3.8	-117	-1	-1	8.9	3039	51	3.7	-18	0.364
56-	43.9486-	108.7083-	2-	12-	0-	W06092	10440	388	13480	-32	-2	9.0	3.5	715	-1	-1	8.4	3868	80	-1.6	38	0.317
56-	43.9500-	108.7208-	2-	15-	0-	W06093	14120	199	3571	74	-2	9.5	5.8	-200	-1	-1	12.1	3845	90	3.9	-109	0.324
56-	43.9619-	108.7642-	2-	15-	0-	W06094	9944	412	4801	71	-2	6.8	7.0	-212	-1	-1	11.3	3645	62	3.2	73	0.293
56-	43.9722-	108.7575-	2-	11-	0-	W06095	11610	239	1768	78	-2	5.3	4.1	-150	-1	-1	6.9	2729	48	2.9	-29	0.400
56-	43.9917-	108.7411-	2-	12-	0-	W06096	14130	292	3875	41	-2	5.0	3.7	-194	-1	-1	8.2	2468	48	2.6	-69	0.346
56-	43.9972-	108.7408-	2-	15-	0-	W06097	10950	191	4601	36	-1	4.9	4.0	-137	-1	-1	8.6	2713	44	3.5	-28	0.424
56-	43.9847-	108.7661-	2-	15-	0-	W06099	10140	191	4529	39	-1	4.4	5.2	-138	-1	-1	8.2	3008	43	3.1	-22	0.402
56-	43.9853-	108.7681-	2-	12-	0-	W06100	7666	164	4531	40	-1	4.5	3.4	-129	-1	-1	7.4	2838	44	2.6	50	0.380
56-	43.9792-	108.8061-	2-	15-	0-	W06101	9505	327	3869	-31	-2	7.1	3.5	-212	-1	-1	9.7	3941	72	3.2	86	0.321
56-	43.9619-	108.8167-	2-	15-	0-	W06102	24760	380	13870	-26	-2	8.8	4.0	521	-1	-1	8.3	3564	106	2.7	89	0.320
56-	43.9611-	108.8350-	2-	12-	0-	W06103	10290	264	5790	45	-2	5.8	4.8	229	-1	-1	10.3	3039	55	3.2	-29	0.297
56-	43.9469-	108.8644-	2-	11-	0-	W06104	10760	211	5481	56	-2	6.2	3.6	215	-1	-1	9.3	2860	57	3.4	-44	0.326

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.9625-	108.8700-	2-	12-		0-W06105-	08/19/76-	19-	25-	18.0-	-	-	7.8-	700-	11-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	3.01
56-	43.9531-	108.8986-	2-	12-		0-W06106-	08/19/76-	19-	24-	17.0-	-	-	7.8-	700-	11-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	3.83
56-	43.9411-	108.9278-	2-	15-		0-W06107-	08/19/76-	19-	24-	-	-	-	-	-	16-	1-	7-	4-	4-	-	-	-	-2-	4-	3-	2-	1-	-1-	-	-	-	-	3.63
56-	43.9144-	108.9269-	2-	12-		0-W06109-	08/19/76-	19-	23-	15.0-	-	-	6.6-	310-	6-	1-	7-	4-	6-	3-	3-	1-	2-	4-	3-	2-	1-	-1-	-	-	-	-	2.81
56-	43.9125-	108.9208-	2-	15-		0-W06110-	08/19/76-	19-	24-	-	-	-	-	-	8-	1-	7-	4-	6-	-	-	-	-2-	4-	3-	2-	1-	-1-	-	-	-	-	3.35
56-	43.9161-	108.8900-	2-	12-		0-W06111-	08/20/76-	8-	18-	15.0-	-	-	6.6-	390-	9-	1-	7-	4-	6-	2-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.72
56-	43.9158-	108.8708-	2-	15-		0-W06112-	08/20/76-	8-	18-	-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	2.48
56-	43.9161-	108.8311-	2-	12-		0-W06113-	08/20/76-	8-	18-	15.0-	-	-	6.6-	400-	8-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.61
56-	43.9142-	108.8292-	2-	15-		0-W06114-	08/20/76-	8-	18-	-	-	-	-	-	6-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	3.27
56-	43.9433-	108.7986-	2-	15-		0-W06115-	08/20/76-	8-	18-	-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	3-	1-	-1-	-	-	-	-	2.78
56-	43.9531-	108.7778-	2-	12-		0-W06116-	08/20/76-	9-	20-	16.0-	-	-	6.9-	500-	12-	1-	7-	4-	6-	2-	3-	1-	2-	4-	3-	2-	1-	-1-	-	-	-	-	3.26
56-	43.9514-	108.7761-	2-	15-		0-W06117-	08/20/76-	9-	24-	-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	3.02
56-	43.9175-	108.7606-	2-	12-		0-W06118-	08/20/76-	9-	26-	16.0-	-	-	6.9-	550-	12-	1-	7-	4-	6-	3-	3-	1-	2-	4-	3-	2-	1-	-1-	-	-	-	-	2.52
56-	43.9186-	108.7625-	2-	15-		0-W06119-	08/20/76-	9-	26-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-2-	4-	3-	2-	1-	-1-	-	-	-	-	2.94
56-	43.9089-	108.7747-	2-	15-		0-W06120-	08/20/76-	9-	26-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-2-	4-	3-	2-	1-	-1-	-	-	-	-	2.90
56-	43.8981-	108.8061-	2-	11-		0-W06121-	08/20/76-	9-	26-	17.0-	-	-	7.2-	400-	17-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	3.11
56-	43.8897-	108.7986-	2-	12-		0-W06122-	08/20/76-	9-	26-	15.0-	-	-	6.8-	500-	17-	1-	7-	4-	6-	3-	3-	1-	2-	4-	3-	2-	1-	-1-	-	-	-	-	2.53
56-	43.8847-	108.8194-	2-	15-		0-W06123-	08/20/76-	10-	30-	-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	3.09
56-	43.8811-	108.8511-	2-	15-		0-W06124-	08/20/76-	10-	30-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-	-	-	-2-	1-	-1-	-	-	-	-	3.00
56-	43.8400-	108.9000-	2-	11-		0-W06125-	08/20/76-	10-	30-	14.0-	-	-	6.9-	350-	16-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	3.52
56-	43.8669-	108.8772-	2-	15-		0-W06126-	08/20/76-	10-	30-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	2.06
56-	43.8647-	108.8961-	2-	15-		0-W06127-	08/20/76-	10-	30-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	2.06
56-	43.8686-	108.9069-	2-	15-		0-W06128-	08/20/76-	10-	30-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	2.04
56-	43.8656-	108.9128-	2-	12-		0-W06129-	08/20/76-	11-	32-	15.0-	-	-	6.6-	400-	11-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.19
56-	43.8611-	108.9256-	2-	12-		0-W06130-	08/20/76-	11-	32-	13.0-	-	-	6.6-	400-	12-	1-	7-	4-	6-	2-	2-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.69
56-	43.8600-	108.9411-	2-	12-		0-W06131-	08/20/76-	11-	32-	17.0-	-	-	6.6-	340-	9-	1-	7-	4-	6-	-	-	-	-	3-	3-	2-	1-	-1-	-	-	-	-	2.37
56-	43.8600-	108.9500-	2-	12-		0-W06132-	08/20/76-	11-	32-	17.0-	-	-	6.8-	240-	4-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.44
56-	43.8661-	108.9631-	2-	12-		0-W06133-	08/20/76-	11-	32-	15.0-	-	-	6.4-	240-	12-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.14
56-	43.8642-	108.9772-	2-	12-		0-W06134-	08/20/76-	11-	32-	15.0-	-	-	6.3-	220-	11-	1-	7-	4-	6-	3-	3-	1-	3-	3-	3-	2-	1-	-1-	-	-	-	-	2.30
56-	43.8686-	108.9564-	2-	12-		0-W06135-	08/20/76-	11-	32-	18.0-	-	-	6.5-	230-	9-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	1.95
56-	43.8414-	108.9456-	2-	11-		0-W06136-	08/20/76-	12-	32-	-	-	-	7.2-	380-	11-	1-	7-	5-	7-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.85
56-	43.8222-	108.9581-	2-	12-		0-W06137-	08/20/76-	12-	32-	-	-	-	5.8-	130-	4-	1-	7-	-	-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.16
56-	43.8206-	108.9589-	2-	12-		0-W06138-	08/20/76-	12-	32-	-	-	-	6.5-	150-	6-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	1.73
56-	43.8075-	108.9347-	2-	12-		0-W06139-	08/20/76-	12-	32-	18.0-	-	-	6.6-	300-	9-	1-	7-	4-	6-	3-	3-	1-	2-	4-	2-	2-	1-	-1-	-	-	-	-	1.93
56-	43.9731-	108.9814-	2-	11-		0-W06140-	08/24/76-	13-	30-	13.0-	-	-	6.8-	300-	11-	1-	7-	5-	7-	3-	3-	1-	-	-4-	2-	3-	1-	-1-	-	-	-	-	2.91
56-	43.9744-	108.9694-	2-	15-		0-W06141-	08/24/76-	13-	30-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-2-	4-	2-	3-	1-	-1-	-	-	-	-	3.06
56-	43.9992-	108.9375-	2-	15-		0-W06142-	08/24/76-	13-	30-	-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	-2-	4-	2-	3-	1-	-1-	-	-	-	-	2.91
56-	43.9972-	108.9367-	2-	12-		0-W06143-	08/24/76-	13-	30-	18.0-	-	-	6.9-	600-	12-	1-	7-	5-	6-	3-	3-	1-	2-	4-	3-	3-	1-	-1-	-	-	-	-	2.66
56-	43.9961-	108.9344-	2-	15-		0-W06144-	08/24/76-	13-	30-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-2-	4-	2-	3-	1-	-1-	-	-	-	-	2.32
56-	43.9975-	108.9194-	2-	15-		0-W06145-	08/24/76-	14-	30-	-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-2-	4-	3-	3-	1-	-1-	-	-	-	-	2.61
56-	43.8058-	108.9225-	2-	15-		0-W06146-	08/20/76-	14-	32-	-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	-2-	4-	3-	2-	1-	-1-	-	-	-	-	1.88
56-	43.7958-	108.9003-	2-	15-		0-W06147-	08/20/76-	14-	32-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	1.65
56-	43.7964-	108.8936-	2-	15-		0-W06148-	08/20/76-	14-	32-	-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	1.76
56-	43.7917-	108.8889-	2-	12-		0-W06149-	08/20/76-	14-	32-	18.0-	-	-	6.0-	180-	11-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	1.70
56-	43.7872-	108.8822-	2-	15-		0-W06150-	08/20/76-	14-	32-	-	-	-	-	-	8-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	1.64
56-	43.7728-	108.8633-	2-	12-		0-W06151-	08/20/76-	15-	32-	17.0-	-	-	6.9-	390-	8-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	1.88
56-	43.7625-	108.7250-	2-	15-		0-W06152-	08/20/76-	19-	26-	-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	2.68
56-	43.7625-	108.7181-	2-	12-		0-W06153-	08/20/76-	19-	26-	20.0-	-	-	6.8-	420-	16-	1-	7-	4-	6-	3-	3-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	1.90
56-	43.7583-	108.7000-	2-	15-		0-W06154-	08/20/76-	19-	26-	-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	2.65
56-	43.7917-	108.6792-	2-	15-		0-W06155-	08/20/76-	20-	24-	-	-	-	-	-	16-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	3-	-3-	-	-	-	-	2.63
56-	43.7889-	108.6778-	2-	15-		0-W06156-	08/20/76-	20-	24-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	2.32

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.9625-108.8700-2-12-						0-W06105	-5	10	-5	23	-20	29	-5	-10	-15	2	26
56-43.9531-108.8986-2-12-						0-W06106	-5	-5	-5	32	-20	-15	9	-10	-15	2	22
56-43.9411-108.9278-2-15-						0-W06107	-5	-5	-5	32	-20	-15	6	-10	-15	2	23
56-43.9144-108.9269-2-12-						0-W06109	-5	-5	-5	34	-20	25	-5	-10	-15	2	26
56-43.9125-108.9208-2-15-						0-W06110	-5	-5	-5	23	-20	26	-5	-10	-15	2	26
56-43.9161-108.8900-2-12-						0-W06111	-5	-5	-5	31	-20	19	-5	-10	-15	2	26
56-43.9158-108.8708-2-15-						0-W06112	-5	-5	-5	28	-20	19	6	-10	-15	2	22
56-43.9161-108.8311-2-12-						0-W06113	-5	-5	-5	28	-20	23	-5	-10	-15	2	27
56-43.9142-108.8292-2-15-						0-W06114	-5	6	-5	37	-20	15	8	-10	-15	2	30
56-43.9433-108.7986-2-15-						0-W06115	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	11
56-43.9531-108.7778-2-12-						0-W06116	-5	-5	-5	26	-20	17	5	-10	-15	2	28
56-43.9514-108.7761-2-15-						0-W06117	-5	7	-5	23	-20	-15	-5	-10	-15	2	20
56-43.9175-108.7606-2-12-						0-W06118	-5	8	-5	21	-20	-15	11	-10	-15	2	21
56-43.9186-108.7625-2-15-						0-W06119	-5	5	-5	17	-20	21	10	-10	-15	2	26
56-43.9089-108.7747-2-15-						0-W06120	-5	-5	-5	31	-20	24	-5	-10	-15	2	24
56-43.8981-108.8061-2-11-						0-W06121	-5	5	-5	19	-20	-15	9	-10	-15	2	23
56-43.8897-108.7986-2-12-						0-W06122	-5	5	-5	25	-20	-15	14	-10	-15	2	24
56-43.8847-108.8194-2-15-						0-W06123	-5	-5	-5	14	-20	-15	11	-10	-15	2	19
56-43.8811-108.8511-2-15-						0-W06124	-5	8	-5	26	-20	22	13	-10	-15	2	17
56-43.8400-108.9000-2-11-						0-W06125	-5	-5	-5	18	-20	15	7	-10	-15	2	29
56-43.8669-108.8772-2-15-						0-W06126	-5	-5	-5	52	-20	26	-5	-10	-15	3	21
56-43.8647-108.8961-2-15-						0-W06127	-5	-5	-5	33	-20	28	9	-10	-15	3	27
56-43.8686-108.9069-2-15-						0-W06128	-5	-5	-5	37	-20	20	-5	-10	-15	3	23
56-43.8656-108.9128-2-12-						0-W06129	-5	5	-5	50	-20	-15	7	-10	-15	3	28
56-43.8611-108.9256-2-12-						0-W06130	-5	-5	-5	20	-20	20	-5	-10	-15	2	31
56-43.8600-108.9411-2-12-						0-W06131	-5	-5	-5	38	-20	23	11	-10	-15	2	26
56-43.8600-108.9500-2-12-						0-W06132	-5	5	-5	42	-20	25	10	-10	-15	3	28
56-43.8661-108.9631-2-12-						0-W06133	-5	5	-5	35	-20	-15	12	-10	-15	3	30
56-43.8642-108.9772-2-12-						0-W06134	-5	-5	-5	30	-20	38	5	-10	-15	3	25
56-43.8686-108.9564-2-12-						0-W06135	-5	-5	-5	37	-20	36	7	-10	-15	3	20
56-43.8414-108.9456-2-11-						0-W06136	-5	-5	-5	24	-20	34	13	-10	-15	3	34
56-43.8222-108.9581-2-12-						0-W06137	-5	-5	-5	29	-20	38	7	-10	-15	2	24
56-43.8206-108.9589-2-12-						0-W06138	-5	5	-5	23	-20	38	12	-10	-15	3	16
56-43.8075-108.9347-2-12-						0-W06139	-5	-5	-5	20	-20	46	-5	-10	-15	3	26
56-43.9731-108.9814-2-11-						0-W06140	-5	-5	-5	19	-20	18	12	-10	-15	3	30
56-43.9744-108.9694-2-15-						0-W06141	-5	-5	-5	36	-20	-15	11	-10	-15	3	32
56-43.9992-108.9375-2-15-						0-W06142	-5	-5	-5	16	-20	16	10	-10	-15	2	31
56-43.9972-108.9367-2-12-						0-W06143	-5	-5	5	17	-20	-15	16	-10	-15	2	23
56-43.9961-108.9344-2-15-						0-W06144	-5	6	-5	21	-20	-15	11	-10	-15	2	21
56-43.9975-108.9194-2-15-						0-W06145	-5	7	-5	25	-20	-15	-5	-10	-15	2	17
56-43.8058-108.9225-2-15-						0-W06146	-5	-5	-5	39	-20	29	16	-10	-15	3	26
56-43.7958-108.9003-2-15-						0-W06147	-5	-5	-5	22	-20	37	-5	-10	-15	3	22
56-43.7964-108.8936-2-15-						0-W06148	-5	-5	-5	27	-20	28	15	-10	-15	3	27
56-43.7917-108.8889-2-12-						0-W06149	-5	-5	-5	36	-20	22	11	-10	-15	3	22
56-43.7872-108.8822-2-15-						0-W06150	-5	-5	-5	43	-20	25	16	-10	-15	3	25
56-43.7728-108.8633-2-12-						0-W06151	-5	5	-5	38	-20	16	18	-10	-15	2	32
56-43.7625-108.7250-2-15-						0-W06152	-5	-5	-5	21	-20	-15	11	-10	-15	2	26
56-43.7625-108.7181-2-12-						0-W06153	-5	-5	-5	32	-20	27	11	-10	-15	2	25
56-43.7583-108.7000-2-15-						0-W06154	-5	-5	-5	25	-20	31	15	-10	-15	2	29
56-43.7917-108.6792-2-15-						0-W06155	-5	7	-5	32	-20	27	-5	-10	-15	2	23
56-43.7889-108.6778-2-15-						0-W06156	-5	-5	-5	32	-20	-15	9	-10	-15	2	28

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.9625-	108.8700-	2-	12-		0-W06105	45870	-0.08	613	17560	38	-53	8.9	57	2.6	4	1.2	19450	10.1	12240	31	0.3
56-	43.9531-	108.8986-	2-	12-		0-W06106	44290	-0.06	436	20840	50	-47	9.4	68	1.8	4	1.3	18380	16.6	13400	31	0.4
56-	43.9411-	108.9278-	2-	15-		0-W06107	46100	-0.06	362	9132	58	-31	8.1	72	2.8	5	1.2	17990	13.7	14330	28	0.4
56-	43.9144-	108.9269-	2-	12-		0-W06109	79580	-0.09	1342	26710	71	-94	15.0	104	-2.2	3	1.8	33070	7.0	17730	48	0.3
56-	43.9125-	108.9208-	2-	15-		0-W06110	86580	-0.10	1262	32560	57	-109	14.2	118	-2.4	3	1.8	32530	4.9	15840	39	0.2
56-	43.9161-	108.8900-	2-	12-		0-W06111	66950	-0.07	802	27660	64	-82	15.7	103	1.9	3	1.8	28930	9.5	12440	36	0.3
56-	43.9158-	108.8708-	2-	15-		0-W06112	54190	-0.06	795	15260	55	-65	12.3	74	2.4	3	1.3	21990	9.2	13720	30	0.2
56-	43.9161-	108.8311-	2-	12-		0-W06113	70150	-0.08	1045	25920	69	-83	17.7	96	2.9	3	1.9	29140	8.5	12480	42	0.3
56-	43.9142-	108.8292-	2-	15-		0-W06114	57720	-0.08	604	10150	45	-56	8.3	60	3.5	5	1.4	16500	9.3	19600	29	0.3
56-	43.9433-	108.7986-	2-	15-		0-W06115	22720	-0.04	272	8192	41	56	4.1	25	1.9	3	0.9	8215	16.8	9803	27	0.4
56-	43.9531-	108.7778-	2-	12-		0-W06116	45040	-0.06	639	21830	62	-52	7.5	59	3.5	4	1.8	14810	13.0	14640	32	0.3
56-	43.9514-	108.7761-	2-	15-		0-W06117	46720	-0.07	603	9522	65	-50	8.7	41	3.9	4	1.6	15790	11.7	15840	35	0.3
56-	43.9175-	108.7606-	2-	12-		0-W06118	70810	-0.08	1057	32220	60	-93	13.9	87	2.5	3	1.5	25710	8.5	16780	37	0.2
56-	43.9186-	108.7625-	2-	15-		0-W06119	67450	-0.07	896	28750	53	-86	14.8	101	3.6	4	1.6	29060	8.6	17510	39	0.3
56-	43.9089-	108.7747-	2-	15-		0-W06120	66120	-0.07	904	28100	70	-78	13.0	98	-1.7	4	1.9	24490	8.7	17100	33	0.3
56-	43.8981-	108.8061-	2-	11-		0-W06121	45080	-0.07	555	12800	51	-51	9.5	52	3.1	4	1.4	20140	8.5	12100	34	0.3
56-	43.8897-	108.7986-	2-	12-		0-W06122	71090	-0.08	1057	31030	55	-91	15.2	90	-2.0	3	1.6	27340	7.8	14070	34	0.2
56-	43.8847-	108.8194-	2-	15-		0-W06123	40480	-0.05	491	7997	51	-42	8.4	54	2.8	3	1.3	16790	12.2	12120	33	0.2
56-	43.8811-	108.8511-	2-	15-		0-W06124	40210	-0.05	553	8233	55	44	6.9	49	2.4	3	1.2	15020	11.0	10330	28	0.3
56-	43.8400-	108.9000-	2-	11-		0-W06125	51510	-0.08	579	17850	54	-58	9.6	65	2.8	4	1.5	22670	10.5	16370	33	0.3
56-	43.8669-	108.8772-	2-	15-		0-W06126	78070	-0.10	1251	44570	56	-108	24.8	186	-2.5	3	1.9	52350	5.7	13270	39	0.2
56-	43.8647-	108.8961-	2-	15-		0-W06127	82310	-0.08	1188	40430	46	-99	21.6	131	-2.0	2	2.0	41790	4.0	15880	39	0.2
56-	43.8686-	108.9069-	2-	15-		0-W06128	77290	-0.08	1237	42440	78	-95	21.5	167	-1.9	2	1.8	41370	4.7	14390	35	0.3
56-	43.8656-	108.9128-	2-	12-		0-W06129	83030	-0.10	1378	40560	66	-102	21.9	171	-2.4	3	2.1	42680	5.6	17290	42	0.2
56-	43.8611-	108.9256-	2-	12-		0-W06130	83530	-0.10	1151	31900	68	-113	18.2	99	2.9	3	1.7	33220	6.3	17460	45	0.2
56-	43.8600-	108.9411-	2-	12-		0-W06131	82270	-0.08	1133	35650	52	-104	18.4	96	-2.0	3	1.7	30930	4.6	17180	36	-0.1
56-	43.8600-	108.9500-	2-	12-		0-W06132	85480	-0.08	1392	35780	70	-99	18.6	110	3.2	3	2.1	32710	4.1	16830	36	0.2
56-	43.8661-	108.9631-	2-	12-		0-W06133	82080	-0.09	1276	36200	70	-99	20.8	131	3.3	3	2.2	36620	4.0	16920	35	0.1
56-	43.8642-	108.9772-	2-	12-		0-W06134	86280	-0.09	1429	36980	58	-116	18.6	122	2.8	3	1.9	33500	4.1	19230	39	0.2
56-	43.8686-	108.9564-	2-	12-		0-W06135	80290	-0.09	1023	41490	58	-108	23.0	158	-2.2	3	1.7	42330	5.6	14840	40	-0.1
56-	43.8414-	108.9456-	2-	11-		0-W06136	84600	-0.08	1326	33930	75	-102	19.6	126	2.2	3	2.2	34900	4.4	13910	36	0.3
56-	43.8222-	108.9581-	2-	12-		0-W06137	84650	-0.10	1423	36700	89	-107	27.3	158	-2.6	3	2.1	46900	4.9	15440	60	-0.2
56-	43.8206-	108.9589-	2-	12-		0-W06138	85330	-0.09	1451	43930	76	-115	24.1	144	-2.3	2	2.3	40130	3.3	13690	58	-0.1
56-	43.8075-	108.9347-	2-	12-		0-W06139	85340	-0.08	1317	39700	57	-106	22.8	138	-2.0	2	1.8	39040	5.0	15500	42	0.2
56-	43.9731-	108.9814-	2-	11-		0-W06140	55490	-0.06	820	25600	62	77	11.2	86	2.8	3	1.5	21900	8.6	15870	31	0.3
56-	43.9744-	108.9694-	2-	15-		0-W06141	46630	-0.07	416	53220	47	62	5.5	44	4.6	4	1.3	13940	6.0	18380	28	0.3
56-	43.9992-	108.9375-	2-	15-		0-W06142	44060	-0.07	433	51520	40	-50	5.9	35	4.6	4	1.2	12360	5.5	14200	27	0.2
56-	43.9972-	108.9367-	2-	12-		0-W06143	51920	-0.06	754	28850	56	-69	12.4	87	-1.5	3	1.5	22950	10.5	11650	35	0.2
56-	43.9961-	108.9344-	2-	15-		0-W06144	32400	-0.04	391	40640	38	73	3.3	33	2.9	3	0.9	8977	5.0	15340	23	0.2
56-	43.9975-	108.9194-	2-	15-		0-W06145	31670	-0.06	483	29410	41	59	5.6	30	3.3	3	1.4	13370	10.1	10510	26	0.3
56-	43.8058-	108.9225-	2-	15-		0-W06146	89070	-0.09	1511	40420	61	-116	20.8	109	-2.3	2	2.0	35500	3.7	17660	34	0.2
56-	43.7959-	108.9003-	2-	15-		0-W06147	82070	-0.08	1326	41170	80	-107	26.0	159	-2.0	2	2.0	42640	4.5	13770	43	-0.1
56-	43.7964-	108.8836-	2-	15-		0-W06148	78760	-0.07	1560	44520	77	-99	20.7	178	-1.8	3	2.1	43490	5.2	16100	40	0.2
56-	43.7917-	108.8889-	2-	12-		0-W06149	86470	-0.09	1369	43880	80	-101	26.1	147	-2.3	2	2.1	42620	4.2	15750	45	0.4
56-	43.7872-	108.8822-	2-	15-		0-W06150	83910	-0.09	1443	41810	60	-116	22.5	107	-2.2	2	2.0	38550	3.4	14910	43	0.2
56-	43.7728-	108.8633-	2-	12-		0-W06151	87480	-0.08	1364	41420	56	-110	19.7	87	-1.9	2	2.1	33830	4.0	19930	36	0.2
56-	43.7625-	108.7250-	2-	15-		0-W06152	47990	-0.06	636	32220	54	-55	7.3	57	3.3	3	1.4	15220	6.9	15310	30	0.3
56-	43.7625-	108.7181-	2-	12-		0-W06153	71580	-0.08	1183	37480	62	-87	16.7	112	-2.0	3	1.7	32030	5.3	15700	40	0.2
56-	43.7583-	108.7000-	2-	15-		0-W06154	51150	-0.08	594	34790	46	-64	9.3	56	3.7	3	1.4	17590	7.2	13550	32	0.3
56-	43.7917-	108.6792-	2-	15-		0-W06155	46500	-0.06	440	44630	46	-51	8.6	55	4.0	3	1.3	16140	9.1	13570	29	0.3
56-	43.7889-	108.6778-	2-	15-		0-W06156	48990	-0.05	627	29600	51	-56	7.8	52	2.4	3	1.2	14150	5.0	12750	25	0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.9625-108.8700-2-12-						0-W06105	12020	295	4240	-32	-2	6.4	3.1	-205	-1	-1	9.4	2914	54	2.0	99	0.320
56-43.9531-108.8586-2-12-						0-W06106	10550	192	4096	57	-2	6.8	3.6	-154	-1	-1	11.7	3165	59	3.8	49	0.327
56-43.9411-108.9278-2-15-						0-W06107	8176	264	1182	33	-2	6.8	5.0	-160	-1	-1	12.1	3811	54	3.8	45	0.300
56-43.9144-108.9269-2-12-						0-W06109	19710	482	18770	-38	-2	10.4	4.2	666	-1	-1	11.5	3611	80	2.6	-48	0.244
56-43.9125-108.9208-2-15-						0-W06110	24130	400	19820	-40	-3	10.6	3.1	630	-1	-1	6.9	4191	94	2.7	120	0.486
56-43.9161-108.8900-2-12-						0-W06111	18330	441	15980	43	-2	9.9	3.4	733	-1	-1	9.6	3331	88	3.3	79	0.283
56-43.9158-108.8708-2-15-						0-W06112	12980	345	10360	-24	-2	7.3	3.8	368	-1	-1	8.9	2762	69	2.1	85	0.279
56-43.9161-108.8311-2-12-						0-W06113	17040	476	15890	-34	-2	10.5	4.5	484	-1	-1	9.5	3362	80	-1.7	-60	0.275
56-43.9142-108.8292-2-15-						0-W06114	8212	154	5148	-32	-2	7.0	3.5	232	-1	-1	10.0	3890	65	-1.5	86	0.327
56-43.9433-108.7986-2-15-						0-W06115	6991	147	1465	29	-1	3.2	3.3	-108	-1	-1	6.8	2035	36	2.7	51	0.409
56-43.9531-108.7778-2-12-						0-W06116	14140	298	5857	47	-1	5.6	5.3	180	-1	-1	9.6	3504	61	3.6	89	0.340
56-43.9514-108.7761-2-15-						0-W06117	10870	262	5723	71	-2	6.2	4.4	-170	-1	-1	9.7	2999	53	2.9	-43	0.311
56-43.9178-108.7606-2-12-						0-W06118	20240	417	17520	56	-2	9.1	3.3	666	-2	-1	7.4	3114	86	2.3	-51	0.341
56-43.9186-108.7625-2-15-						0-W06119	18470	420	14610	-28	-2	10.2	4.0	523	-1	-1	9.2	3635	94	1.9	131	0.320
56-43.9089-108.7747-2-15-						0-W06120	19000	417	13430	-27	-2	9.0	5.5	536	-1	-1	10.9	4141	92	2.3	81	0.266
56-43.8981-108.8061-2-11-						0-W06121	10650	214	6406	-28	-2	6.6	3.9	-159	-1	-1	10.6	2542	50	2.5	33	0.293
56-43.8897-108.7986-2-12-						0-W06122	18560	432	16980	-31	-2	9.6	4.2	559	-1	-1	7.5	3087	83	1.3	98	0.337
56-43.8847-108.8194-2-15-						0-W06123	7014	210	3938	-21	-1	5.8	3.0	270	-1	-1	9.5	2456	51	2.3	54	0.325
56-43.8811-108.8511-2-15-						0-W06124	6966	207	3720	33	-1	5.2	3.7	-146	-1	-1	10.2	2753	47	2.6	32	0.294
56-43.8400-108.9000-2-11-						0-W06125	9999	274	6582	57	-2	7.7	4.3	-186	-1	-1	12.5	3199	58	-2.1	-89	0.282
56-43.8669-108.8772-2-15-						0-W06126	28510	743	20230	-37	-3	18.8	4.0	736	-1	-1	8.1	5202	173	-2.4	-134	0.254
56-43.8647-108.8561-2-15-						0-W06127	27930	633	20190	-32	-2	15.1	4.1	705	-1	-1	8.0	4071	132	-1.6	112	0.258
56-43.8686-108.9069-2-15-						0-W06128	31620	700	19810	-29	-2	16.0	4.9	910	-1	-1	7.5	4594	158	1.9	54	0.272
56-43.8656-108.9128-2-12-						0-W06129	30480	632	22210	-39	-3	16.3	4.0	865	-1	-1	8.6	5553	142	-2.1	123	0.255
56-43.8611-108.9256-2-12-						0-W06130	25990	498	20800	-40	-2	11.7	3.3	799	-2	-1	7.4	4328	96	-2.5	152	0.364
56-43.8600-108.9411-2-12-						0-W06131	25700	515	21320	63	-2	11.2	3.5	842	-1	-1	7.0	3632	93	-1.7	126	0.339
56-43.8600-108.9500-2-12-						0-W06132	23750	530	21310	-30	-2	10.9	4.7	831	-1	-1	7.5	4217	111	2.5	66	0.325
56-43.8661-108.9631-2-12-						0-W06133	25750	614	22240	-36	-2	13.3	4.8	873	-1	-1	7.7	4184	103	3.4	74	0.278
56-43.8642-108.8772-2-12-						0-W06134	26870	623	22150	53	-2	12.0	3.1	865	-2	-1	6.7	3757	105	-1.9	108	0.343
56-43.8686-108.9564-2-12-						0-W06135	28560	720	21200	-34	-2	15.2	3.2	958	-1	-1	6.2	4384	158	-1.9	110	0.315
56-43.8414-108.9456-2-11-						0-W06136	23950	563	20770	60	-2	11.7	5.7	772	-1	-1	8.2	4986	112	2.7	-40	0.348
56-43.8222-108.9581-2-12-						0-W06137	34180	606	22960	-45	-3	14.0	5.0	873	-1	-2	8.9	5015	128	-2.3	-39	0.243
56-43.8206-108.9589-2-12-						0-W06138	36850	599	24360	-38	-2	14.3	4.4	1043	-1	-1	6.6	4995	136	-2.0	-30	0.262
56-43.8075-108.9347-2-12-						0-W06139	27110	586	22970	-32	-2	13.2	4.0	855	-1	-1	6.0	3945	130	-1.6	106	0.322
56-43.9731-108.9814-2-11-						0-W06140	22710	329	10130	53	-2	7.4	4.5	432	-1	-1	8.9	3360	86	2.6	71	0.327
56-43.9744-108.9694-2-15-						0-W06141	36890	290	2860	-29	-2	6.4	3.8	-179	-1	-1	9.0	2720	75	2.0	89	0.340
56-43.9992-108.9375-2-15-						0-W06142	37970	263	2711	44	-2	5.3	2.8	-197	-1	-1	7.3	3012	66	-1.7	103	0.399
56-43.9972-108.9367-2-12-						0-W06143	23590	322	11660	-23	-2	8.4	3.5	436	-1	-1	8.6	3243	86	2.6	70	0.309
56-43.9961-108.9344-2-15-						0-W06144	29490	206	1888	42	-1	3.6	3.3	193	-1		6.1	1893	48	1.6	55	0.386
56-43.9975-108.9194-2-15-						0-W06145	19220	287	1653	31	-1	4.5	3.3	-154	-1	-1	6.7	2147	42	3.3	91	0.390
56-43.8058-108.9225-2-15-						0-W06146	27340	579	22600	-38	-2	12.2	3.4	1084	-2	-1	6.9	3905	103	-2.1	152	0.272
56-43.7958-108.9003-2-15-						0-W06147	30990	712	23870	-32	-2	14.4	4.3	863	-1	-1	7.0	4560	133	1.7	-39	0.236
56-43.7964-108.8936-2-15-						0-W06148	32130	726	22310	39	-2	16.0	4.9	933	-1	-1	6.4	4899	163	-2.0	-38	0.275
56-43.7917-108.8889-2-12-						0-W06149	29660	625	24200	-38	-2	15.3	4.4	1036	-2	-1	6.4	3919	129	-1.8	-54	0.266
56-43.7872-108.8822-2-15-						0-W06150	26760	665	23520	-36	-2	13.6	3.2	1039	-1	-1	6.4	3746	120	-2.0	-48	0.256
56-43.7728-108.8633-2-12-						0-W06151	22150	614	24200	-31	-2	11.5	4.4	675	-1	-1	8.1	3413	91	2.2	96	0.232
56-43.7625-108.7250-2-15-						0-W06152	21870	323	5563	53	-2	6.3	4.8	350	-1	-1	8.6	3157	67	2.1	-66	0.312
56-43.7625-108.7181-2-12-						0-W06153	25550	497	20210	45	-2	12.0	4.5	684	-1	-1	7.0	3558	95	-1.8	97	0.271
56-43.7583-108.7000-2-15-						0-W06154	24410	330	6294	-30	-2	6.7	3.5	-225	-1	-1	8.3	2862	69	2.4	118	0.319
56-43.7917-108.6792-2-15-						0-W06155	21200	302	4606	-23	-1	6.3	3.8	193	-1	-1	7.6	2830	66	2.6	-75	0.346
56-43.7889-108.6778-2-15-						0-W06156	19400	318	6043	62	-1	5.7	3.7	426	-1	-1	7.3	2691	66	2.4	44	0.318

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.8236-108.5181-2-12-						0-W06158-08/20/76-20-	22-	20.0-	-	-	-		6.5-	4100-		9-1-7-4-6-2-3-1-2-3-3-2-1-		-1-	-	-	-													2.97
56-43.8222-108.5153-2-15-						0-W06159-08/20/76-20-	22-		-	-	-		-	-		6-1-7-4-6-		-	-	-	-															2.53
56-43.9867-108.6458-2-15-						0-W06160-08/26/76-12-	26-		-	-	-		-	-		11-1-7-4-6-		-	-	-	-															2.41
56-43.9778-108.6597-2-15-						0-W06161-08/26/76-12-	26-		-	-	-		-	-		9-1-7-4-6-		-	-	-	-															2.26
56-43.8897-108.7842-2-12-						0-W06162-08/26/76-12-	26-	18.0-	-	-	-		6.7-	850-		11-1-7-4-6-3-3-1-2-3-2-3-3-		-1-	-	-	-															2.69
56-43.8611-108.8158-2-12-						0-W06163-08/26/76-12-	26-	17.0-	-	-	-		6.8-	800-		9-1-7-6-7-3-3-1-2-3-2-3-3-		-1-	-	-	-															2.84
56-43.8547-108.8300-2-15-						0-W06164-08/26/76-12-	26-		-	-	-		-	-		8-1-7-4-6-		-	-	-	-															2.86
56-43.8486-108.8431-2-15-						0-W06165-08/26/76-12-	26-		-	-	-		-	-		9-1-7-4-6-		-	-	-	-															2.91
56-43.8464-108.8439-2-12-						0-W06166-08/26/76-12-	26-	17.0-	-	-	-		6.8-	700-		9-1-7-6-7-3-3-1-2-3-3-3-3-		-1-	-	-	-															2.95
56-43.8303-108.8278-2-11-						0-W06167-08/26/76-13-	20-	14.0-	-	-	-		6.5-	280-		9-1-7-6-6-		-	-1-	-3-2-3-3-		-1-	-	-	-											2.63
56-43.8350-108.8106-2-11-						0-W06168-08/26/76-13-	20-	14.0-	-	-	-		6.6-	300-		14-1-7-5-6-		-	-1-	-3-2-3-3-		-1-	-	-	-											2.36
56-43.8383-108.8033-2-15-						0-W06169-08/26/76-13-	20-		-	-	-		-	-		16-1-7-4-6-		-	-	-2-3-2-3-3-		-1-	-	-	-											2.99
56-43.8472-108.7856-2-11-						0-W06170-08/26/76-13-	20-		-	-	-		6.6-	320-		12-1-7-5-6-		-	-1-	-3-3-3-3-		-1-	-	-	-											2.67
56-43.8425-108.7617-2-12-						0-W06171-08/26/76-14-	20-		-	-	-		6.7-	390-		17-1-7-5-6-3-3-1-2-3-3-3-3-		-1-	-	-	-															2.82
56-43.8444-108.7458-2-15-						0-W06172-08/26/76-15-	24-		-	-	-		-	-		4-1-7-4-6-		-	-	-2-3-3-3-3-		-1-	-	-	-											2.67
56-43.8708-108.6778-2-15-						0-W06173-08/26/76-15-	24-		-	-	-		-	-		3-1-7-4-6-		-	-	-2-3-3-3-3-		-1-	-	-	-											2.69
56-43.8681-108.6792-2-15-						0-W06174-08/26/76-14-	24-		-	-	-		-	-		8-1-7-4-6-		-	-	-2-3-3-3-3-		-1-	-	-	-											2.99
56-43.8542-108.6306-2-15-						0-W06175-08/26/76-15-	24-		-	-	-		-	-		6-1-7-4-6-		-	-	-2-3-2-3-3-		-1-	-	-	-											3.03
56-43.8681-108.5875-2-15-						0-W06176-08/26/76-15-	24-		-	-	-		-	-		4-1-7-4-6-		-	-	-2-3-2-3-3-		-1-	-	-	-											3.04
56-43.8625-108.5875-2-15-						0-W06177-08/26/76-15-	24-		-	-	-		-	-		6-1-7-4-6-		-	-	-2-3-2-3-3-		-1-	-	-	-											2.39
56-43.8319-108.6125-2-15-						0-W06178-08/26/76-16-	22-		-	-	-		-	-		10-1-7-4-6-		-	-	-2-3-2-3-3-		-1-	-	-	-											2.69
56-43.8278-108.6125-2-15-						0-W06179-08/26/76-16-	22-		-	-	-		-	-		8-1-7-4-6-		-	-	-2-3-2-3-3-		-1-	-	-	-											2.67
56-43.8292-108.5958-2-15-						0-W06180-08/26/76-16-	22-		-	-	-		-	-		4-1-7-4-6-		-	-	-2-3-2-3-3-		-1-	-	-	-											2.53
56-43.8236-108.5958-2-15-						0-W06181-08/26/76-16-	22-		-	-	-		-	-		6-1-7-4-6-		-	-	-2-3-2-3-3-		-1-	-	-	-											2.30
56-43.8208-108.7042-2-15-						0-W06183-08/26/76-17-	22-		-	-	-		-	-		9-1-7-4-6-		-	-	-2-3-2-3-3-		-1-	-	-	-											3.03
56-43.8181-108.7083-2-15-						0-W06184-08/26/76-17-	22-		-	-	-		-	-		9-1-7-4-6-		-	-	-2-3-2-3-3-		-1-	-	-	-											2.42
56-43.8278-108.7458-2-15-						0-W06185-08/26/76-17-	22-		-	-	-		-	-		4-1-7-4-		-	-	-2-3-2-3-3-		-1-	-	-	-											2.22
56-43.8375-108.4958-2-15-						0-W06186-08/30/76-11-	30-		-	-	-		-	-		11-1-7-4-6-		-	-	-2-3-2-2-1-		-1-	-	-	-											3.20
56-43.8583-108.4389-2-15-						0-W06187-08/30/76-11-	30-		-	-	-		-	-		14-1-7-4-6-		-	-	-2-3-3-2-1-		-1-	-	-	-											2.70
56-43.9139-108.4917-2-12-						0-W06188-08/30/76-11-	30-	22.0-	-	-	-		7.2-	2500-		12-1-7-4-6-2-3-1-2-2-2-2-1-		-1-	-	-	-															4.80
56-43.9111-108.4583-2-15-						0-W06189-08/30/76-11-	30-		-	-	-		-	-		9-1-7-4-6-		-	-	-2-3-2-2-1-		-1-	-	-	-											2.79
56-43.8944-108.4208-2-15-						0-W06190-08/30/76-11-	30-		-	-	-		-	-		12-1-7-4-6-		-	-	-2-3-2-2-1-		-1-	-	-	-											4.00
56-43.8639-108.3708-2-12-						0-W06191-08/30/76-12-	30-	23.0-	-	-	-		7.2-	2600-		16-1-7-4-6-2-3-1-2-3-3-2-1-		-1-	-	-	-															2.65
56-43.8597-108.3750-2-12-						0-W06192-08/30/76-12-	30-	22.0-	-	-	-		7.7-	4600-		9-1-7-4-6-2-3-1-2-2-2-2-1-		-1-	-	-	-															2.33
56-43.8653-108.3569-2-15-						0-W06193-08/30/76-12-	28-		-	-	-		-	-		6-1-7-4-6-		-	-	-2-3-2-2-2-		-1-	-	-	-											3.02
56-43.8625-108.3333-2-15-						0-W06194-08/30/76-12-	28-		-	-	-		-	-		9-1-7-4-6-		-	-	-2-3-2-3-2-		-1-	-	-	-											3.08
56-43.8722-108.3250-2-15-						0-W06195-08/30/76-12-	28-		-	-	-		-	-		4-1-7-4-6-		-	-	-2-3-1-2-2-		-1-	-	-	-											2.73
56-43.8403-108.2528-2-15-						0-W06196-08/30/76-13-	32-		-	-	-		-	-		14-1-7-4-6-		-	-	-2-3-3-3-2-		-1-	-	-	-											3.79
56-43.8625-108.2653-2-15-						0-W06197-08/30/76-13-	32-		-	-	-		-	-		12-1-7-4-6-		-	-	-2-3-2-3-2-		-1-	-	-	-											2.83
56-43.8722-108.2750-2-15-						0-W06198-08/30/76-13-	32-		-	-	-		-	-		14-1-7-4-6-		-	-	-2-3-2-3-2-		-1-	-	-	-											2.89
56-43.8792-108.2750-2-15-						0-W06199-08/30/76-13-	32-		-	-	-		-	-		12-1-7-4-6-		-	-	-2-3-2-3-2-		-1-	-	-	-											2.79
56-43.8847-108.2792-2-15-						0-W06200-08/30/76-13-	30-		-	-	-		-	-		6-1-7-4-6-		-	-	-2-3-1-3-2-		-1-	-	-	-											2.92
56-43.9111-108.2667-2-15-						0-W06201-08/30/76-14-	30-		-	-	-		-	-		6-1-7-4-2-		-	-	-2-3-1-2-2-		-1-	-	-	-											3.28
56-43.9153-108.2847-2-15-						0-W06202-08/30/76-14-	30-		-	-	-		-	-		8-1-7-4-6-		-	-	-2-3-2-2-2-		-1-	-	-	-											2.82
56-43.9278-108.3097-2-15-						0-W06203-08/30/76-14-	30-		-	-	-		-	-		3-1-7-4-6-		-	-	-2-3-1-2-2-		-1-	-	-	-											3.04
56-43.9306-108.3083-2-15-						0-W06204-08/30/76-14-	32-		-	-	-		-	-		4-1-7-4-6-		-	-	-2-3-1-2-2-		-1-	-	-	-											3.00
56-43.9361-108.3542-2-15-						0-W06205-08/30/76-14-	32-		-	-	-		-	-		3-1-7-4-6-		-	-	-2-3-1-2-2-		-1-	-	-	-											2.29
56-43.8014-108.2583-2-15-						0-W06206-08/30/76-15-	30-		-	-	-		-	-		6-1-7-4-6-		-	-	-2-3-2-2-2-		-1-	-	-	-											2.80
56-43.8042-108.2625-2-15-						0-W06207-08/30/76-15-	30-		-	-	-		-	-		8-1-7-4-6-		-	-	-2-3-2-2-2-		-1-	-	-	-											2.80
56-43.8208-108.2647-2-15-						0-W06208-08/30/76-15-	30-		-	-	-		-	-		9-1-7-4-6-		-	-	-2-3-3-2-2-		-1-	-	-	-											2.68

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.7917-108.6014-2-15-						0-W06157	-5	5	-5	19	-20	-15	9	-10	-15	2	19
56-43.8236-108.5181-2-12-						0-W06158	-5	-5	-5	30	-20	20	12	-10	-15	2	24
56-43.8222-108.5153-2-15-						0-W06159	-5	5	-5	13	-20	-15	-5	-10	-15	2	27
56-43.9867-108.6458-2-15-						0-W06160	-5	-5	-5	18	-20	-15	-5	-10	-15	2	34
56-43.9778-108.6597-2-15-						0-W06161	-5	-5	-5	16	-20	-15	5	-10	-15	2	24
56-43.8897-108.7842-2-12-						0-W06162	-5	-5	-5	27	-20	19	10	-10	-15	2	29
56-43.8611-108.8158-2-12-						0-W06163	-5	-5	-5	33	-20	-15	8	-10	-15	3	34
56-43.8547-108.8300-2-15-						0-W06164	-5	-5	-5	22	-20	21	10	-10	-15	3	33
56-43.8486-108.8431-2-15-						0-W06165	-5	-5	-5	24	-20	-15	-5	-10	-15	2	35
56-43.8464-108.8439-2-12-						0-W06166	-5	5	-5	36	-20	22	12	-10	-15	3	34
56-43.8303-108.8278-2-11-						0-W06167	-5	5	-5	23	-20	-15	14	-10	-15	3	36
56-43.8350-108.8106-2-11-						0-W06168	-5	-5	-5	33	-20	-15	10	-10	-15	3	36
56-43.8383-108.8033-2-15-						0-W06169	-5	-5	-5	27	-20	16	12	-10	-15	3	42
56-43.8472-108.7856-2-11-						0-W06170	-5	-5	-5	38	-20	20	15	-10	-15	3	37
56-43.8425-108.7617-2-12-						0-W06171	-5	8	-5	42	-20	21	6	-10	-15	3	34
56-43.8444-108.7458-2-15-						0-W06172	-5	-5	-5	29	-20	-15	10	-10	20	2	21
56-43.8708-108.6778-2-15-						0-W06173	-5	-5	-5	26	-20	-15	7	-10	-15	1	12
56-43.8681-108.6792-2-15-						0-W06174	-5	-5	-5	29	-20	22	-5	-10	-15	-1	28
56-43.8542-108.6306-2-15-						0-W06175	-5	5	-5	35	-20	19	-5	-10	-15	2	35
56-43.8681-108.5875-2-15-						0-W06176	-5	-5	-5	18	-20	-15	-5	-10	-15	2	12
56-43.8625-108.5875-2-15-						0-W06177	-5	-5	-5	19	-20	19	9	-10	-15	2	20
56-43.8319-108.6125-2-15-						0-W06178	-5	6	-5	26	-20	-15	9	-10	-15	2	17
56-43.8278-108.6125-2-15-						0-W06179	-5	-5	-5	19	-20	-15	8	-10	-15	2	13
56-43.8292-108.5958-2-15-						0-W06180	-5	-5	-5	32	-20	-15	10	-10	-15	2	28
56-43.8236-108.5958-2-15-						0-W06181	-5	-5	-5	25	-20	23	-5	-10	-15	2	21
56-43.8208-108.7042-2-15-						0-W06183	-5	8	-5	29	-20	23	-5	-10	-15	2	20
56-43.8181-108.7083-2-15-						0-W06184	-5	-5	-5	37	-20	26	7	-10	-15	2	18
56-43.8278-108.7458-2-15-						0-W06185	-5	-5	-5	23	-20	-15	-5	-10	-15	2	19
56-43.8375-108.4958-2-15-						0-W06186	-5	5	-5	10	-20	-15	5	-10	-15	2	15
56-43.8583-108.4389-2-15-						0-W06187	-5	5	-5	17	-20	-15	6	-10	-15	2	17
56-43.9139-108.4917-2-12-						0-W06188	-5	-5	-5	17	-20	-15	-5	-10	-15	2	15
56-43.9111-108.4583-2-15-						0-W06189	-5	-5	-5	18	-20	-15	7	-10	-15	2	18
56-43.8944-108.4208-2-15-						0-W06190	-5	5	-5	22	-20	22	-5	-10	-15	2	14
56-43.8639-108.3708-2-12-						0-W06191	-5	-5	-5	22	-20	-15	5	-10	-15	2	16
56-43.8597-108.3750-2-12-						0-W06192	-5	-5	-5	12	-20	-15	8	-10	-15	2	13
56-43.8653-108.3569-2-15-						0-W06193	-5	-5	-5	25	-20	-15	5	-10	-15	2	16
56-43.8625-108.3333-2-15-						0-W06194	-5	-5	-5	13	-20	-15	-5	-10	23	2	19
56-43.8722-108.3250-2-15-						0-W06195	-5	-5	-5	15	-20	-15	-5	-10	-15	1	13
56-43.8403-108.2528-2-15-						0-W06196	-5	-5	-5	25	-20	-15	-5	-10	-15	2	15
56-43.8625-108.2653-2-15-						0-W06197	-5	7	-5	16	-20	-15	-5	-10	-15	2	16
56-43.8722-108.2750-2-15-						0-W06198	-5	-5	-5	16	-20	-15	7	-10	-15	2	20
56-43.8792-108.2750-2-15-						0-W06199	-5	6	-5	20	-20	-15	5	-10	-15	2	20
56-43.8847-108.2792-2-15-						0-W06200	-5	5	-5	15	-20	-15	-5	-10	-15	1	10
56-43.9111-108.2667-2-15-						0-W06201	-5	-5	-5	21	-20	-15	-5	-10	-15	2	14
56-43.9153-108.2847-2-15-						0-W06202	-5	-5	-5	15	-20	-15	-5	-10	-15	1	19
56-43.9278-108.3097-2-15-						0-W06203	-5	-5	-5	18	-20	25	-5	-10	-15	2	25
56-43.9306-108.3083-2-15-						0-W06204	-5	6	-5	22	-20	15	8	-10	-15	1	21
56-43.9361-108.3542-2-15-						0-W06205	-5	-5	-5	16	-20	-15	5	-10	-15	1	9
56-43.8014-108.2583-2-15-						0-W06206	-5	-5	-5	24	-20	-15	9	-10	-15	1	18
56-43.8042-108.2625-2-15-						0-W06207	-5	5	-5	17	-20	-15	9	-10	-15	1	14
56-43.8208-108.2847-2-15-						0-W06208	-5	-5	-5	16	-20	-15	-5	-10	-15	2	16

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.7917-108.6014-2-15-						0-W06157	40810	-0.07	400	29430	53	-51	10.9	68	2.5	3	1.7	19500	11.4	10360	33	0.2
56-43.8236-108.5181-2-12-						0-W06158	66410	-0.08	743	17060	47	-68	10.0	53	4.4	4	1.6	19930	7.9	16730	35	0.3
56-43.8222-108.5153-2-15-						0-W06159	57150	-0.06	797	36910	58	373	13.6	96	2.3	3	1.5	28250	10.0	16260	33	0.3
56-43.9867-108.6458-2-15-						0-W06160	37150	-0.05	552	31910	70	95	10.6	86	1.8	3	1.5	23300	7.3	13050	34	0.3
56-43.9778-108.6597-2-15-						0-W06161	31410	-0.06	438	36920	47	1731	8.0	37	3.5	3	1.4	16310	9.3	12910	30	0.3
56-43.8897-108.7842-2-12-						0-W06162	70120	-0.06	867	30790	36	-92	6.0	30	3.2	4	1.1	12180	6.6	15600	25	0.2
56-43.8611-108.8158-2-12-						0-W06163	75060	-0.07	924	29390	52	-84	12.7	62	4.9	3	1.5	24140	4.6	18260	36	0.2
56-43.8547-108.8300-2-15-						0-W06164	67240	-0.06	889	18760	84	-71	11.0	62	2.6	4	1.5	22170	7.8	17600	40	0.2
56-43.8486-108.8431-2-15-						0-W06165	66170	-0.07	863	27260	85	-76	12.8	70	-1.8	4	1.9	28320	9.3	20880	51	0.3
56-43.8464-108.8439-2-12-						0-W06166	77120	-0.08	1129	29620	59	-96	13.9	78	3.2	3	1.6	25310	5.1	19960	44	-0.1
56-43.8303-108.8278-2-11-						0-W06167	80600	-0.07	1137	26910	65	-100	14.4	64	2.7	3	1.9	26830	5.6	19290	36	0.3
56-43.8350-108.8106-2-11-						0-W06168	78610	-0.07	1134	33390	86	-97	17.1	90	2.5	3	2.0	32370	6.1	18380	40	0.3
56-43.8383-108.8033-2-15-						0-W06169	74970	-0.08	1010	30080	73	-79	14.4	67	4.0	4	2.1	33180	5.6	20840	41	0.3
56-43.8472-108.7856-2-11-						0-W06170	81290	-0.09	1090	36640	59	-110	15.1	93	-2.4	4	1.8	32790	6.1	17680	42	0.3
56-43.8425-108.7617-2-12-						0-W06171	77510	-0.07	833	33310	65	-92	15.6	71	3.6	3	1.8	28930	5.4	18320	40	0.2
56-43.8444-108.7458-2-15-						0-W06172	47250	-0.05	623	17140	52	-54	8.3	59	1.7	3	1.2	18590	9.0	12340	27	0.3
56-43.8708-108.6778-2-15-						0-W06173	26930	-0.05	281	12360	39	68	5.7	31	2.3	4	1.1	10590	13.5	9204	27	0.3
56-43.8681-108.6792-2-15-						0-W06174	56600	-0.07	767	18750	46	-66	10.8	68	3.0	4	1.5	23710	8.6	12450	37	0.3
56-43.8542-108.6306-2-15-						0-W06175	71500	-0.07	528	16980	54	-62	11.6	65	5.0	4	1.3	23060	4.3	13240	36	0.3
56-43.8681-108.5875-2-15-						0-W06176	41720	-0.05	459	3229	67	-33	7.0	38	2.7	5	1.5	9029	13.9	10390	31	0.4
56-43.8625-108.5875-2-15-						0-W06177	52140	-0.06	827	18910	59	-61	11.5	59	-1.7	3	1.4	23970	9.1	12550	33	0.2
56-43.8319-108.6125-2-15-						0-W06178	51730	-0.06	790	23320	54	-73	8.4	61	-1.6	4	1.5	20790	12.2	12330	34	0.3
56-43.8278-108.6125-2-15-						0-W06179	43440	-0.05	630	22890	57	-52	8.5	49	2.6	3	1.4	17140	12.2	11870	31	0.3
56-43.8292-108.5958-2-15-						0-W06180	60590	-0.06	840	25180	61	-79	12.2	57	2.6	3	1.6	22410	6.3	18060	35	0.3
56-43.8236-108.5958-2-15-						0-W06181	61540	-0.08	1206	32080	81	-81	17.4	95	3.1	4	2.0	32780	9.6	16610	50	0.3
56-43.8208-108.7042-2-15-						0-W06183	56600	-0.08	1105	25510	63	-83	14.6	95	-2.0	4	1.7	30760	13.5	13800	45	0.3
56-43.8181-108.7083-2-15-						0-W06184	62060	-0.06	949	31260	60	-85	14.7	79	-1.7	3	1.7	28250	8.7	14780	37	0.3
56-43.8278-108.7458-2-15-						0-W06185	57720	-0.06	1213	28260	68	-75	14.0	82	-1.5	3	1.5	26050	7.9	14800	35	0.3
56-43.8375-108.4958-2-15-						0-W06186	35120	-0.06	505	9976	60	73	7.4	43	3.8	4	1.3	15260	20.2	13540	37	0.5
56-43.8583-108.4389-2-15-						0-W06187	40360	-0.06	578	10590	44	-43	4.4	39	3.8	4	1.3	15130	9.7	14070	30	0.3
56-43.9139-108.4917-2-12-						0-W06188	35860	-0.06	906	14300	81	215	9.2	87	2.5	5	2.3	20390	36.9	12680	54	0.6
56-43.9111-108.4583-2-15-						0-W06189	38650	-0.05	665	15750	62	-47	7.0	54	2.2	4	1.5	14570	13.7	14050	30	0.4
56-43.8944-108.4208-2-15-						0-W06190	34990	0.28	903	15880	69	-47	8.1	73	-1.7	5	1.6	18310	30.6	13720	47	0.5
56-43.8639-108.3708-2-12-						0-W06191	38260	-0.06	749	19760	44	226	7.3	51	3.1	4	1.4	16350	11.8	13910	30	0.2
56-43.8597-108.3750-2-12-						0-W06192	35120	-0.05	704	20110	53	209	8.3	68	-1.3	4	1.3	19140	12.7	10820	30	0.3
56-43.8653-108.3569-2-15-						0-W06193	35820	-0.05	659	8474	56	65	7.8	48	2.7	4	1.4	14370	13.8	13460	30	0.4
56-43.8625-108.3333-2-15-						0-W06194	38120	-0.07	783	23760	75	1429	11.2	108	1.8	4	1.7	24420	22.8	14370	46	0.5
56-43.8722-108.3250-2-15-						0-W06195	35370	-0.06	595	5976	37	-34	6.7	36	3.3	4	1.0	14020	8.4	13520	31	0.3
56-43.8403-108.2528-2-15-						0-W06196	40900	-0.06	994	24710	72	-60	12.8	108	-1.6	4	2.1	28720	28.6	12470	46	0.4
56-43.8625-108.2653-2-15-						0-W06197	39530	-0.05	793	22340	59	-55	8.9	75	1.3	4	1.4	18800	17.3	13330	34	0.4
56-43.8722-108.2750-2-15-						0-W06198	39430	-0.06	719	23100	59	177	9.5	78	2.4	4	1.8	20040	17.8	14000	40	0.4
56-43.8792-108.2750-2-15-						0-W06199	47300	-0.07	702	22690	49	-68	8.9	60	3.0	4	1.3	18330	10.9	15400	34	0.3
56-43.8847-108.2792-2-15-						0-W06200	27020	0.35	362	2325	46	-23	3.9	33	3.0	3	1.0	9669	17.8	11170	31	0.4
56-43.9111-108.2667-2-15-						0-W06201	37540	-0.06	526	19180	82	-46	5.3	48	3.2	4	1.5	35110	11.8	12280	34	0.5
56-43.9153-108.2647-2-15-						0-W06202	35510	-0.06	553	7021	53	-38	6.5	50	3.0	4	1.5	13430	14.1	13140	34	0.4
56-43.9278-108.3097-2-15-						0-W06203	39300	-0.06	607	13800	42	-53	7.2	47	2.7	4	1.2	16610	13.5	15860	32	0.4
56-43.9306-108.3083-2-15-						0-W06204	36090	-0.05	483	9401	52	-44	8.1	54	2.4	4	1.2	14980	16.0	13870	34	0.3
56-43.9361-108.3542-2-15-						0-W06205	23890	-0.04	434	5360	42	-32	4.1	33	1.0	3	1.0	8327	12.6	11350	25	0.3
56-43.8014-108.2583-2-15-						0-W06206	38170	-0.06	507	11780	58	-43	6.5	49	3.4	4	1.6	14980	15.8	16610	39	0.4
56-43.8042-108.2625-2-15-						0-W06207	38910	-0.06	557	10220	58	-48	6.2	37	2.8	4	1.4	14280	15.2	16170	35	0.4
56-43.8208-108.2847-2-15-						0-W06208	34840	-0.05	514	21580	42	77	6.6	34	3.0	4	1.1	12110	10.7	13620	26	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.7917-108.6014-2-15-						0-W06157	21080	332	6034	-26	-2	6.5	4.0	-173	-1	-1	7.3	3314	81	2.6	100	0.347
56-43.8236-108.5181-2-12-						0-W06158	12730	267	8361	61	-2	7.7	4.3	-229	-1	-1	9.5	3006	67	2.8	-44	0.313
56-43.8222-108.5153-2-15-						0-W06159	21170	393	14270	-26	-2	8.7	4.1	476	-1	-1	8.3	3312	117	2.7	92	0.305
56-43.9867-108.6458-2-15-						0-W06160	21840	282	4669	-24	-1	8.5	5.1	-163	-1	-1	7.8	2208	72	2.5	-47	0.309
56-43.9778-108.6597-2-15-						0-W06161	26610	253	7809	40	-1	5.6	3.9	-176	-1	-1	6.2	1975	54	2.7	71	0.365
56-43.8897-108.7842-2-12-						0-W06162	17390	459	15520	-26	-1	4.4	2.3	532	-1	-1	6.4	3618	87	1.8	49	0.420
56-43.8611-108.8158-2-12-						0-W06163	20020	390	13560	56	-2	8.3	3.5	520	-1	-1	8.2	3343	74	-1.6	74	0.346
56-43.8547-108.8300-2-15-						0-W06164	14640	371	11950	43	-1	6.7	4.8	306	-1	-1	10.8	3904	68	4.0	52	0.265
56-43.8486-108.8431-2-15-						0-W06165	16960	445	14090	52	-2	8.0	4.7	-227	-1	-1	11.9	3776	67	-1.8	-78	0.245
56-43.8464-108.8439-2-12-						0-W06166	19010	418	14080	58	-2	8.8	3.7	594	-1	-1	9.5	3286	81	-1.8	173	0.311
56-43.8303-108.8278-2-11-						0-W06167	26540	390	19850	111	-2	9.2	3.6	592	-1	-1	7.8	2910	84	-1.5	100	0.337
56-43.8350-108.8106-2-11-						0-W06168	23840	535	18340	46	-2	10.2	5.7	611	-1	-1	9.0	3873	97	2.6	97	0.262
56-43.8383-108.8033-2-15-						0-W06169	20870	462	14460	82	-2	9.4	5.2	368	-1	-1	11.4	3618	72	2.7	72	0.262
56-43.8472-108.7856-2-11-						0-W06170	20720	556	18580	-38	-2	10.9	3.6	751	-1	-1	9.0	4171	92	-2.2	-32	0.297
56-43.8425-108.7617-2-12-						0-W06171	20290	472	16660	72	-2	9.0	4.0	597	-1	-1	9.7	3224	84	2.8	-30	0.291
56-43.8444-108.7458-2-15-						0-W06172	11980	276	8046	28	-1	6.1	4.0	232	-1	-1	8.3	3027	58	2.2	49	0.322
56-43.8708-108.6778-2-15-						0-W06173	9655	169	1798	40	-1	4.5	4.1	-124	-1	-1	7.2	2423	40	2.8	55	0.374
56-43.8681-108.6792-2-15-						0-W06174	11680	310	7993	-20	-2	7.9	3.8	-218	-1	-1	9.4	3664	67	-1.8	-40	0.318
56-43.8542-108.6306-2-15-						0-W06175	10970	278	6974	-29	-2	8.4	3.7	-199	-1	-1	9.5	3347	71	1.6	89	0.319
56-43.8681-108.5875-2-15-						0-W06176	4886	116	2499	50	-1	4.9	5.3	-120	-1	-1	9.3	3371	50	2.9	61	0.327
56-43.8625-108.5875-2-15-						0-W06177	12910	327	9837	-30	-2	7.8	3.9	-185	-1	-1	8.8	2770	62	2.1	41	0.272
56-43.8319-108.6125-2-15-						0-W06178	14920	349	11410	-28	-2	7.1	4.1	463	-1	-1	8.6	3255	59	2.3	77	0.313
56-43.8278-108.6125-2-15-						0-W06179	15310	293	6995	-20	-1	6.2	3.9	-168	-1	-1	8.2	2621	58	2.0	101	0.326
56-43.8292-108.5958-2-15-						0-W06180	18860	410	14560	-25	-1	7.4	4.6	432	-1	-1	7.6	3525	74	3.0	-37	0.333
56-43.8234-108.5958-2-15-						0-W06181	19500	526	15720	-35	-2	11.5	5.2	492	-1	-1	10.1	4030	88	3.1	-18	0.228
56-43.8208-108.7042-2-15-						0-W06183	15470	480	12770	-34	-2	10.4	4.2	455	-1	-1	11.8	4688	94	2.5	44	0.257
56-43.8181-108.7083-2-15-						0-W06184	16660	468	16160	72	-2	9.0	3.8	572	-1	-1	8.4	3473	78	2.4	97	0.288
56-43.8278-108.7458-2-15-						0-W06185	16330	463	14030	-24	-1	8.9	4.9	494	-1	-1	8.7	3379	79	2.3	-27	0.255
56-43.8375-108.4958-2-15-						0-W06186	10090	253	2741	-24	-1	5.4	4.4	-138	-1	-1	9.4	2700	49	3.1	-45	0.340
56-43.8583-108.4389-2-15-						0-W06187	10150	237	3080	49	-1	5.4	3.0	-170	-1	-1	7.3	2749	50	2.9	-35	0.370
56-43.9139-108.4917-2-12-						0-W06188	12780	375	4876	41	-1	6.6	5.5	-186	-1	-1	17.6	4346	62	4.9	45	0.273
56-43.9111-108.4583-2-15-						0-W06189	12950	267	4850	44	-1	5.2	4.7	244	-1	-1	8.8	3036	57	3.0	89	0.317
56-43.8944-108.4208-2-15-						0-W06190	12180	370	4483	-26	-2	6.3	5.2	-180	-1	-1	14.7	3798	61	4.2	52	0.272
56-43.8639-108.3708-2-12-						0-W06191	12980	244	7243	-26	-2	5.8	3.3	322	-1	-1	7.2	2955	57	2.4	121	0.368
56-43.8597-108.3750-2-12-						0-W06192	13870	299	8143	48	-1	6.9	3.3	-170	-1	-1	7.2	2716	64	2.3	-30	0.324
56-43.8653-108.3569-2-15-						0-W06193	8422	278	2732	49	-1	4.8	4.3	-160	-1	-1	8.6	3182	56	2.3	47	0.351
56-43.8625-108.3333-2-15-						0-W06194	17070	361	12510	-28	-2	8.3	5.3	293	-1	-1	10.3	4035	84	3.6	-37	0.299
56-43.8722-108.3250-2-15-						0-W06195	6666	200	1828	-25	-1	4.9	3.2	-152	-1	-1	7.5	2742	55	2.2	120	0.364
56-43.8403-108.2528-2-15-						0-W06196	16150	423	8779	-24	-2	8.8	4.9	-198	-1	-1	11.8	4740	98	4.1	100	0.321
56-43.8625-108.2653-2-15-						0-W06197	15720	339	8577	48	-1	6.7	5.1	347	-1	-1	9.2	3512	78	3.2	-27	0.308
56-43.8722-108.2750-2-15-						0-W06198	16960	311	8451	-26	-2	7.2	4.1	414	-1	-1	9.7	3250	68	3.0	-12	0.298
56-43.8792-108.2750-2-15-						0-W06199	16650	310	8804	57	-2	6.6	3.1	-220	-1	-1	7.5	3625	66	2.7	77	0.372
56-43.8847-108.2792-2-15-						0-W06200	4236	65	959	56	-1	3.8	3.5	-90	-1	-1	7.9	2537	44	2.8	60	0.370
56-43.9111-108.2667-2-15-						0-W06201	8457	583	2733	45	1	5.6	6.4	-222	-1	-1	8.5	3001	74	3.0	29	0.386
56-43.9153-108.2847-2-15-						0-W06202	9754	208	3283	-25	-1	5.3	4.0	-142	-1	-1	8.8	2916	64	3.0	65	0.322
56-43.9278-108.3097-2-15-						0-W06203	11070	246	5196	53	-2	5.7	3.8	-180	-1	-1	8.0	3100	63	2.9	-31	0.360
56-43.9306-108.3083-2-15-						0-W06204	10390	235	4846	61	-1	5.3	3.7	-150	-1	-1	7.9	2800	56	3.1	73	0.380
56-43.9361-108.3542-2-15-						0-W06205	6189	158	2605	30	-1	3.0	3.9	-118	-1	-1	6.0	2116	43	2.7	-15	0.382
56-43.8014-108.2583-2-15-						0-W06206	11600	284	4490	52	-1	5.3	4.3	-155	-1	-1	9.8	2451	50	3.2	-34	0.286
56-43.8042-108.2625-2-15-						0-W06207	11360	285	4419	49	-1	5.2	3.9	-179	-1	-1	9.6	2756	46	3.2	-40	0.292
56-43.8208-108.2847-2-15-						0-W06208	14770	228	4364	53	-1	4.4	3.5	-156	-1	-1	6.7	2163	47	2.5	60	0.400

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.8250-	108.3069-	2-	15-	0-	W06209	08/30/76	15-	30-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-1-2-2-	-1-	-	-	-	-	-	2.06
56-	43.8361-	108.3417-	2-	15-	0-	W06210	08/30/76	15-	28-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-2-2-2-	-1-	-	-	-	-	-	3.00
56-	43.8167-	108.3292-	2-	15-	0-	W06211	08/30/76	16-	28-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-1-3-2-	-1-	-	-	-	-	-	2.58
56-	43.8194-	108.3361-	2-	15-	0-	W06212	08/30/76	16-	28-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-1-3-2-	-1-	-	-	-	-	-	3.01
56-	43.7917-	108.3500-	2-	15-	0-	W06213	08/30/76	16-	26-		-	-	-	-	-	16-1-7-4-6-	-	-	-2-3-2-2-2-	-1-	-	-	-	-	-	2.38
56-	43.7792-	108.4194-	2-	15-	0-	W06214	08/30/76	16-	28-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-3-3-2-2-	-1-	-	-	-	-	-	2.56
56-	43.7833-	108.4208-	2-	15-	0-	W06215	08/30/76	16-	26-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-2-2-2-	-1-	-	-	-	-	-	3.88
56-	43.8319-	108.4125-	2-	15-	0-	W06216	08/30/76	17-	26-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-3-1-2-2-	-1-	-	-	-	-	-	2.55
56-	43.8097-	108.4278-	2-	15-	0-	W06217	08/30/76	17-	26-		-	-	-	-	-	14-1-7-4-6-	-	-	-2-3-3-2-2-	-1-	-	-	-	-	-	3.42
56-	43.8056-	108.4667-	2-	15-	0-	W06218	08/30/76	17-	26-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-3-2-2-	-1-	-	-	-	-	-	2.62
56-	43.7378-	108.7778-	2-	15-	0-	W06219	08/31/76	10-	26-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	3.43
56-	43.7311-	108.3592-	2-	15-	0-	W06220	08/31/76	10-	26-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	2.72
56-	43.7464-	108.3269-	2-	15-	0-	W06221	08/31/76	10-	26-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	2.60
56-	43.7486-	108.3081-	2-	15-	0-	W06222	08/31/76	11-	26-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	2.97
56-	43.7028-	108.4272-	2-	15-	0-	W06224	08/31/76	12-	30-		-	-	-	-	-	6-1-7-4-6-	-	-	-2-4-3-2-1-	-1-	-	-	-	-	-	3.86
56-	43.6772-	108.3500-	2-	15-	0-	W06225	08/31/76	12-	30-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-3-2-3-1-	-1-	-	-	-	-	-	3.13
56-	43.6636-	108.3153-	2-	15-	0-	W06226	08/31/76	12-	30-		-	-	-	-	-	4-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	4.42
56-	43.6908-	108.3278-	2-	12-	0-	W06227	08/31/76	12-	30-	23.0-	-	-	6.9-	4000-	-	12-1-7-4-6-	2-	3-	1-2-3-3-2-1-	-1-	-	-	-	-	-	2.37
56-	43.6831-	108.3219-	2-	15-	0-	W06228	08/31/76	12-	30-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	4.43
56-	43.6964-	108.2839-	2-	15-	0-	W06229	08/31/76	13-	30-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	2.88
56-	43.6789-	108.2950-	2-	15-	0-	W06230	08/31/76	13-	30-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	4.28
56-	43.6833-	108.2775-	2-	15-	0-	W06231	08/31/76	13-	30-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	5.00
56-	43.6567-	108.2639-	2-	15-	0-	W06232	08/31/76	13-	32-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	4.00
56-	43.6494-	108.2750-	2-	15-	0-	W06233	08/31/76	13-	32-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	3.38
56-	43.6483-	108.2744-	2-	15-	0-	W06234	08/31/76	13-	32-		-	-	-	-	-	12-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.21
56-	43.6425-	108.2306-	2-	15-	0-	W06236	08/31/76	14-	32-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	3.67
56-	43.6328-	108.2300-	2-	15-	0-	W06237	08/31/76	14-	32-		-	-	-	-	-	12-1-7-4-4-	-	-	-2-4-3-2-1-	-1-	-	-	-	-	-	2.09
56-	43.5917-	108.2486-	2-	15-	0-	W06238	08/31/76	15-	30-		-	-	-	-	-	9-1-4-4-4-	-	-	-2-4-3-3-1-	-1-	-	-	-	-	-	2.38
56-	43.6161-	108.2200-	2-	15-	0-	W06239	08/31/76	17-	29-		-	-	-	-	-	12-1-7-	-	-	-2-3-2-2-1-	-1-	-	-	-	-	-	3.37
56-	43.6272-	108.1681-	2-	15-	0-	W06240	08/31/76	17-	30-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-2-3-1-	-1-	-	-	-	-	-	4.59
56-	43.6261-	108.1667-	2-	15-	0-	W06241	08/31/76	17-	32-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-3-2-3-1-	-1-	-	-	-	-	-	3.47
56-	43.6325-	108.1900-	2-	15-	0-	W06242	08/31/76	17-	30-		-	-	-	-	-	9-1-7-4-6-	-	-	-2-3-2-3-1-	-1-	-	-	-	-	-	3.04
56-	43.6394-	108.1311-	2-	15-	0-	W06243	08/31/76	18-	30-		-	-	-	-	-	8-1-7-4-6-	-	-	-2-3-3-2-1-	-1-	-	-	-	-	-	2.90
56-	43.6414-	108.1053-	2-	12-	0-	W06244	08/31/76	17-	26-	24.0-	-	-	6.5-	3000-	-	11-1-7-4-6-	2-	3-	1-2-3-2-2-1-	-1-	-	-	-	-	-	4.25
56-	43.6397-	108.1053-	2-	15-	0-	W06245	08/31/76	18-	26-		-	-	-	-	-	11-1-7-4-6-	-	-	-2-3-1-2-1-	-1-	-	-	-	-	-	5.61
56-	43.5750-	108.1189-	2-	15-	0-	W06246	09/02/76	9-	30-		-	-	-	-	-	10-1-4-4-4-	-1-	-	-3-2-2-1-	-1-	-	-	-	-	-	5.05
56-	43.5161-	108.0883-	2-	15-	0-	W06247	09/02/76	10-	28-		-	-	-	-	-	9-1-6-4-6-	-1-	-	-1-3-2-3-1-	-1-	-	-	-	-	-	3.19
56-	43.5122-	108.0744-	2-	11-	0-	W06248	09/02/76	10-	30-	15.0-	-	-	6.5-	330-	-	15-1-6-5-7-2-2-1-	-	3-	2-3-3-1-	-1-	-	-	-	-	-	3.12
56-	43.6067-	108.1028-	2-	15-	0-	W06249	09/02/76	11-	32-		-	-	-	-	-	9-1-4-4-4-	-1-	-	-1-3-2-3-1-	-1-	-	-	-	-	-	1.70
56-	43.6161-	108.0889-	2-	11-	0-	W06250	09/02/76	11-	34-	14.0-	-	-	6.3-	2000-	-	9-1-4-5-4-2-2-1-	-	3-	2-3-3-1-	-1-	-	-	-	-	-	2.47
56-	43.6161-	108.0681-	2-	11-	0-	W06251	09/02/76	11-	33-	13.0-	-	-	6.0-	1200-	-	9-1-4-5-4-2-2-1-	-	3-	2-3-3-1-	-1-	-	-	-	-	-	2.41
56-	43.5372-	108.0511-	2-	15-	0-	W06252	09/02/76	11-	31-		-	-	-	-	-	15-1-6-4-6-	-1-	-1-	3-2-3-1-	-1-	-	-	-	-	-	4.68
56-	43.5239-	108.0361-	2-	12-	0-	W06253	09/02/76	12-	31-	18.0-	-	-	6.5-	220-	-	12-1-6-5-6-2-2-1-	1-	3-	2-3-1-	-1-	-	-	-	-	-	6.11
56-	43.5022-	108.0244-	2-	11-	0-	W06254	09/02/76	13-	31-	13.0-	-	-	6.3-	310-	-	9-1-6-5-6-2-2-1-	-	3-	2-3-1-	-1-	-	-	-	-	-	4.93
56-	43.5839-	108.0367-	2-	15-	0-	W06255	09/02/76	14-	36-		-	-	-	-	-	6-1-4-4-4-4-	-1-	-1-	3-2-3-1-	-1-	-	-	-	-	-	1.42
56-	43.6078-	108.0133-	2-	15-	0-	W06258	09/02/76	14-	35-		-	-	-	-	-	7-1-4-4-4-4-	-1-	-1-	3-2-3-1-	-1-	-	-	-	-	-	2.10
56-	43.6072-	108.0156-	2-	15-	0-	W06259	09/02/76	14-	35-		-	-	-	-	-	9-1-4-4-4-4-	-1-	-1-	3-2-3-1-	-1-	-	-	-	-	-	2.62
56-	43.5931-	108.0083-	2-	15-	0-	W06260	09/02/76	14-	34-		-	-	-	-	-	12-1-4-4-4-4-	-1-	-1-	3-2-3-1-	-1-	-	-	-	-	-	3.34
56-	43.5900-	108.1778-	2-	15-	0-	W06262	09/02/76	10-	26-		-	-	-	-	-	16-1-4-4-4-4-	-	-	-2-4-3-2-1-	-1-	-	-	-	-	-	2.08
56-	43.5931-	108.1875-	2-	15-	0-	W06263	09/02/76	10-	26-		-	-	-	-	-	16-1-4-4-4-4-	-	-	-2-4-3-2-1-	-1-	-	-	-	-	-	2.99
56-	43.6769-	108.1800-	2-	15-	0-	W06264	09/02/76	11-	28-		-	-	-	-	-	8-1-7-	-	-	-2-4-3-2-1-	-1-	-	-	-	-	-	2.69

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.8250-108.3069-2-15-						0-W06209	-5	-5	-5	21	-20	-15	-5	-10	-15	1	16
56-43.8361-108.3417-2-15-						0-W06210	-5	6	-5	24	-20	-15	-5	-10	-15	2	29
56-43.8167-108.3292-2-15-						0-W06211	-5	-5	-5	17	-20	-15	-5	-10	-15	2	12
56-43.8194-108.3361-2-15-						0-W06212	-5	-5	-5	19	-20	-15	-5	-10	-15	2	21
56-43.7917-108.3500-2-15-						0-W06213	-5	-5	-5	26	-20	-15	-5	-10	-15	2	26
56-43.7792-108.4194-2-15-						0-W06214	-5	5	-5	27	-20	17	-5	-10	-15	2	32
56-43.7833-108.4208-2-15-						0-W06215	-5	-5	-5	18	-20	18	11	-10	-15	2	23
56-43.8319-108.4125-2-15-						0-W06216	-5	-5	-5	21	-20	15	8	-10	-15	3	35
56-43.8097-108.4278-2-15-						0-W06217	-5	-5	-5	20	-20	-15	-5	-10	-15	3	92
56-43.8056-108.4667-2-15-						0-W06218	-5	-5	-5	18	-20	-15	6	-10	-15	2	32
56-43.7378-108.7778-2-15-						0-W06219	-5	5	-5	34	-20	22	10	-10	-15	2	27
56-43.7311-108.3592-2-15-						0-W06220	-5	-5	-5	24	-20	-15	-5	-10	-15	2	19
56-43.7464-108.3269-2-15-						0-W06221	-5	-5	-5	25	-20	-15	8	-10	-15	2	19
56-43.7486-108.3081-2-15-						0-W06222	-5	-5	-5	15	-20	-15	-5	-10	-15	2	16
56-43.7028-108.4272-2-15-						0-W06224	-5	-5	-5	28	-20	21	15	-10	-15	3	85
56-43.6772-108.3500-2-15-						0-W06225	-5	0	-5	33	-20	-15	6	-10	-15	2	28
56-43.6636-108.3153-2-15-						0-W06226	-5	-5	-5	21	-20	-15	-5	-10	-15	2	25
56-43.6908-108.3278-2-12-						0-W06227	-5	-5	-5	25	-20	23	-5	-10	-15	2	19
56-43.6831-108.3219-2-15-						0-W06228	-5	7	-5	23	-20	-15	11	-10	-15	2	31
56-43.6964-108.2839-2-15-						0-W06229	-5	-5	-5	24	-20	-15	5	-10	-15	2	24
56-43.6789-108.2950-2-15-						0-W06230	-5	-5	-5	15	-20	-15	-5	-10	-15	3	27
56-43.6833-108.2775-2-15-						0-W06231	-5	5	-5	15	-20	16	-5	-10	-15	2	24
56-43.6567-108.2639-2-15-						0-W06232	-5	-5	-5	26	-20	17	-5	-10	-15	2	20
56-43.6494-108.2750-2-15-						0-W06233	-5	6	-5	16	-20	16	9	-10	-15	2	23
56-43.6483-108.2744-2-15-						0-W06234	-5	5	-5	19	-20	-15	-5	-10	-15	2	19
56-43.6425-108.2306-2-15-						0-W06236	-5	-5	-5	27	-20	17	6	-10	-15	2	27
56-43.6328-108.2300-2-15-						0-W06237	-5	-5	-5	25	-20	-15	7	-10	-15	2	23
56-43.5917-108.2486-2-15-						0-W06238	-5	-5	-5	25	-20	-15	-5	-10	-15	2	29
56-43.6161-108.2200-2-15-						0-W06239	-5	-5	-5	16	-20	-15	-5	-10	-15	2	19
56-43.6272-108.1681-2-15-						0-W06240	-5	-5	-5	27	-20	-15	8	-10	-15	3	35
56-43.6261-108.1667-2-15-						0-W06241	-5	7	-5	15	-20	17	-5	-10	-15	2	22
56-43.6325-108.1900-2-15-						0-W06242	-5	6	-5	31	-20	17	11	-10	-15	2	18
56-43.6394-108.1311-2-15-						0-W06243	-5	-5	-5	16	-20	-15	6	-10	-15	2	26
56-43.6414-108.1053-2-12-						0-W06244	-5	-5	-5	23	-20	-15	6	-10	15	2	20
56-43.6397-108.1053-2-15-						0-W06245	-5	6	-5	15	-20	15	5	-10	-15	2	22
56-43.5750-108.1189-2-15-						0-W06246	-5	9	-5	22	-20	23	14	-10	-15	2	28
56-43.5161-108.0883-2-15-						0-W06247	-5	-5	-5	15	-20	16	6	-10	-15	2	23
56-43.5122-108.0744-2-11-						0-W06248	-5	-5	-5	14	-20	23	5	-10	-15	2	24
56-43.6067-108.1028-2-15-						0-W06249	-5	-5	-5	21	-20	-15	-5	-10	-15	2	31
56-43.6161-108.0889-2-11-						0-W06250	-5	-5	-5	26	-20	-15	7	-10	-15	2	24
56-43.6161-108.0681-2-11-						0-W06251	-5	-5	-5	24	-20	-15	-5	-10	-15	2	32
56-43.5372-108.0511-2-15-						0-W06252	-5	-5	-5	15	-20	19	-5	-10	-15	2	26
56-43.5239-108.0361-2-12-						0-W06253										2	30
56-43.5022-108.0244-2-11-						0-W06254	-5	7	-5	23	-20	-15	10	59	-15	1	10
56-43.5839-108.0367-2-15-						0-W06255	-5	-5	-5	11	-20	-15	-5	-10	-15	1	12
56-43.6078-108.0133-2-15-						0-W06258	-5	5	-5	22	-20	-15	5	-10	-15	2	18
56-43.6072-108.0158-2-15-						0-W06259	-5	-5	-5	26	-20	-15	-5	-10	-15	2	18
56-43.5931-108.0083-2-15-						0-W06260	-5	-5	-5	13	-20	19	7	-10	-15	2	27
56-43.5900-108.1778-2-15-						0-W06262	-5	-5	-5	23	-20	-15	-5	-10	-15	2	15
56-43.5931-108.1875-2-15-						0-W06263	-5	-5	-5	23	-20	28	9	-10	-15	2	31
56-43.6769-108.1800-2-15-						0-W06264	-5	-5	-5	31	-20	-15	-5	-10	-15	2	41

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.8250-	108.3069-	2-	15-	0-	W06209	30010	-0.04	499	17720	47	-38	4.9	30	2.6	3	1.0	9767	6.0	14400	23	0.2
56-	43.8361-	108.3417-	2-	15-	0-	W06210	46040	-0.06	504	17220	53	118	7.3	51	4.2	4	1.5	15570	9.4	16130	35	0.3
56-	43.8167-	108.3292-	2-	15-	0-	W06211	29560	-0.05	459	35570	39	274	4.7	23	2.9	3	1.1	10580	10.6	11860	26	0.3
56-	43.8194-	108.3361-	2-	15-	0-	W06212	42100	-0.05	486	29960	55	149	8.5	34	3.2	3	1.3	11450	11.8	16540	38	0.3
56-	43.7917-	108.3500-	2-	15-	0-	W06213	36000	-0.04	404	44390	49	90	5.2	35	3.2	3	1.0	13100	6.6	14270	23	0.3
56-	43.7792-	108.4194-	2-	15-	0-	W06214	41960	-0.06	961	27420	45	-59	12.8	44	4.6	4	1.6	24220	5.8	17930	26	0.3
56-	43.7833-	108.4208-	2-	15-	0-	W06215	58080	-0.06	856	12320	59	66	5.5	46	4.6	4	1.5	20040	10.7	19770	37	0.4
56-	43.8319-	108.4125-	2-	15-	0-	W06216	44220	-0.05	758	30500	41	-61	8.3	31	3.2	3	1.2	16740	6.1	17450	27	0.2
56-	43.8097-	108.4278-	2-	15-	0-	W06217	57680	-0.06	818	34600	67	-69	9.3	59	5.6	4	1.4	21700	6.5	20410	30	0.4
56-	43.8056-	108.4667-	2-	15-	0-	W06218	42650	-0.05	836	27200	52	-56	7.2	32	3.0	3	1.4	17120	8.6	14930	29	0.3
56-	43.7378-	108.7778-	2-	15-	0-	W06219	46400	-0.06	563	25050	44	-58	6.2	45	4.5	5	1.3	17540	6.9	17510	35	0.4
56-	43.7311-	108.3592-	2-	15-	0-	W06220	32100	-0.04	652	21270	51	63	6.7	28	2.7	3	1.4	14790	9.9	14080	30	0.3
56-	43.7464-	108.3269-	2-	15-	0-	W06221	29410	-0.04	480	21080	48	-39	5.1	30	2.7	3	1.2	9716	10.2	12610	22	0.3
56-	43.7486-	108.3081-	2-	15-	0-	W06222	34710	-0.05	544	20030	49	106	8.4	37	3.6	3	1.7	15640	6.9	11990	34	0.3
56-	43.7028-	108.4272-	2-	15-	0-	W06224	75440	-0.08	711	33870	80	193	10.1	77	8.8	5	1.5	26760	4.1	21230	36	0.4
56-	43.6772-	108.3500-	2-	15-	0-	W06225	40440	-0.05	631	36660	55	150	6.9	43	2.8	4	1.5	13700	9.3	17780	26	0.3
56-	43.6636-	108.3153-	2-	15-	0-	W06226	41900	-0.07	694	23750	49	-51	7.0	48	4.5	4	1.7	18610	10.7	17390	33	0.4
56-	43.6908-	108.3278-	2-	12-	0-	W06227	62510	-0.05	1184	39700	43	-96	9.1	73	-1.3	3	1.1	18100	4.6	15300	27	0.2
56-	43.6831-	108.3219-	2-	15-	0-	W06228	51900	-0.04	737	11910	68	-61	3.8	38	4.2	5	1.4	19050	8.4	22130	37	0.3
56-	43.6964-	108.2839-	2-	15-	0-	W06229	43350	-0.06	399	48910	52	-58	7.1	46	3.2	3	1.3	15270	8.5	16260	23	0.4
56-	43.6789-	108.2950-	2-	15-	0-	W06230	44530	-0.07	696	24750	52	-57	7.4	39	3.5	4	1.2	16880	10.8	18650	29	0.3
56-	43.6833-	108.2775-	2-	15-	0-	W06231	51970	-0.05	586	10180	34	-55	4.9	30	3.3	4	1.0	11330	5.6	19720	22	0.2
56-	43.6567-	108.2639-	2-	15-	0-	W06232	46620	-0.06	571	29920	51	-53	10.1	46	3.5	4	1.5	20970	12.9	16590	34	0.4
56-	43.6494-	108.2750-	2-	15-	0-	W06233	38690	-0.05	505	39700	46	-52	6.6	40	2.9	4	1.5	16300	10.0	13620	25	0.3
56-	43.6483-	108.2744-	2-	15-	0-	W06234	38100	-0.06	540	38630	48	-62	9.5	52	2.4	4	1.3	18930	10.9	15250	28	0.4
56-	43.6425-	108.2306-	2-	15-	0-	W06236	47740	-0.05	553	32320	38	-65	6.7	39	1.7	4	1.0	14100	7.8	15370	22	0.3
56-	43.6328-	108.2300-	2-	15-	0-	W06237	34250	-0.05	446	56540	35	100	6.2	31	1.9	3	1.1	14570	6.8	14840	21	0.3
56-	43.5917-	108.2486-	2-	15-	0-	W06238	41520	-0.05	335	55600	41	-69	7.8	44	3.2	4	1.2	18600	8.2	19040	26	0.3
56-	43.6161-	108.2200-	2-	15-	0-	W06239	35280	-0.06	424	35450	50	78	6.4	55	-1.6	4	1.5	17940	21.5	13820	32	0.5
56-	43.6272-	108.1681-	2-	15-	0-	W06240	51160	-0.07	546	22770	45	-63	9.1	40	3.9	5	1.2	21910	5.0	18780	31	0.3
56-	43.6261-	108.1667-	2-	15-	0-	W06241	38970	-0.05	588	23190	52	-52	7.7	43	2.3	4	1.4	17160	13.5	15270	28	0.4
56-	43.6325-	108.1900-	2-	15-	0-	W06242	40600	-0.06	491	24640	56	-67	8.2	68	2.3	4	1.6	18500	14.0	13460	31	0.4
56-	43.6394-	108.1311-	2-	15-	0-	W06243	41090	-0.05	384	46510	33	-64	4.3	45	2.1	3	1.1	14010	7.6	15680	24	0.3
56-	43.6414-	108.1053-	2-	12-	0-	W06244	41190	-0.06	716	24260	42	-62	7.4	32	3.4	4	1.4	18040	11.7	16550	30	0.3
56-	43.6397-	108.1053-	2-	15-	0-	W06245	42420	-0.05	1084	17680	62	79	7.6	44	3.2	4	1.5	19750	17.4	14020	34	0.5
56-	43.5750-	108.1189-	2-	15-	0-	W06246	54650	-0.08	639	7370	63	-70	11.2	56	5.4	5	1.9	25280	13.7	17560	47	0.5
56-	43.5161-	108.0883-	2-	15-	0-	W06247	51310	-0.05	706	23890	48	-68	6.6	46	2.5	4	1.3	17370	9.3	18350	28	0.2
56-	43.5122-	108.0744-	2-	11-	0-	W06248	44350	-0.07	564	13870	55	202	8.7	58	-1.9	4	1.5	19970	13.1	18460	30	0.4
56-	43.6067-	108.1028-	2-	15-	0-	W06249	36840	-0.05	313	45880	31	-68	6.2	27	2.0	3	1.1	12450	4.4	16760	18	0.2
56-	43.6161-	108.0889-	2-	11-	0-	W06250	41920	-0.07	260	36440	42	368	7.7	41	2.8	3	1.4	18480	10.0	21330	26	0.5
56-	43.6161-	108.0681-	2-	11-	0-	W06251	41540	-0.05	400	38550	38	585	6.0	40	1.9	4	1.2	13750	7.1	21860	21	0.3
56-	43.5372-	108.0511-	2-	15-	0-	W06252	44900	-0.06	510	14960	61	-59	10.4	55	4.4	5	1.7	21180	15.6	18530	41	0.4
56-	43.5239-	108.0361-	2-	12-	0-	W06253	44340	-0.06	616	15460	114	-72	9.1	74	2.5	7	1.8	20570	25.9	19940	59	0.7
56-	43.5022-	108.0244-	2-	11-	0-	W06254	30700	-0.06	456	49570	77	123	4.2	51	-1.7	5	2.0	15700	35.2	19630	53	0.6
56-	43.5839-	108.0367-	2-	15-	0-	W06255	20730	-0.04	424	47740	23	-42	4.4	25	-1.1	2	1.0	9064	5.2	11360	18	0.2
56-	43.6078-	108.0133-	2-	15-	0-	W06256	27470	-0.04	396	50480	37	-53	4.3	24	1.6	3	1.0	10960	5.3	12480	16	0.3
56-	43.6072-	108.0158-	2-	15-	0-	W06258	33640	-0.06	497	40270	38	-59	5.8	36	2.7	3	1.2	13910	11.6	14760	27	0.3
56-	43.5931-	108.0083-	2-	15-	0-	W06260	49110	-0.05	556	33050	40	-66	8.0	49	3.2	5	1.2	17920	8.2	20260	26	0.3
56-	43.5900-	108.1778-	2-	15-	0-	W06262	28460	-0.04	610	54430	23	-53	4.2	24	1.3	3	1.0	9342	7.4	13070	16	0.2
56-	43.5931-	108.1875-	2-	15-	0-	W06263	49540	-0.07	614	42370	56	-66	11.3	58	3.5	4	1.3	23050	8.9	16120	32	0.3
56-	43.6769-	108.1800-	2-	15-	0-	W06264	44200	-0.06	473	70940	54	-70	8.3	52	3.7	4	1.2	20080	8.0	18330	24	0.5

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.8250-108.3060-2-15-				0	-W06209		11700	250	3158	31	-1	3.4	3.1	-149	-1	-1	6.3	2099	42	2.1	39	0.327
56-43.8361-108.3417-2-15-				0	-W06210		14000	224	4897	-28	-2	6.3	4.9	-165	-1	-1	9.7	3282	60	2.5	-33	0.309
56-43.8167-108.3292-2-15-				0	-W06211		21700	231	4303	-22	-1	4.1	3.6	-183	-1	-1	6.4	2558	47	1.9	80	0.403
56-43.8194-108.3361-2-15-				0	-W06212		18280	220	2697	52	-1	5.2	4.1	-155	-1	-1	9.2	2747	54	3.0	-55	0.327
56-43.7917-108.3500-2-15-				0	-W06213		29630	267	3601	46	-1	4.6	3.7	-165	-1	-1	6.2	2389	65	1.8	41	0.384
56-43.7792-108.4194-2-15-				0	-W06214		18670	388	7288	64	-2	6.7	3.9	329	-1	-1	7.1	2336	110	2.3	-36	0.361
56-43.7833-108.4208-2-15-				0	-W06215		11170	142	7693	63	-2	6.5	4.0	-176	-1	-1	12.0	2842	85	2.6	123	0.323
56-43.8319-108.4125-2-15-				0	-W06216		18980	277	8670	49	-1	4.8	3.9	-185	-1	-1	6.7	2001	74	1.9	-78	0.381
56-43.8097-108.4278-2-15-				0	-W06217		19810	289	9273	70	-2	7.7	5.1	-220	-1	-1	10.6	3098	128	2.9	87	0.323
56-43.8056-108.4667-2-15-				0	-W06218		19040	252	9086	-25	-1	5.1	4.4	250	-1	-1	7.4	2119	73	3.1	47	0.354
56-43.7378-108.7778-2-15-				0	-W06219		15320	343	5168	62	-2	6.2	3.4	-214	-1	-1	9.4	2403	63	2.2	62	0.365
56-43.7311-108.3592-2-15-				0	-W06220		13790	258	4389	58	-1	4.4	3.8	-171	-1	-1	6.6	1840	44	1.9	57	0.412
56-43.7464-108.3269-2-15-				0	-W06221		15910	269	3227	33	-1	3.5	3.9	-150	-1	-1	7.2	2280	46	2.3	37	0.361
56-43.7486-108.3081-2-15-				0	-W06222		14620	525	5557	56	-1	4.9	4.1	-212	-1	-1	7.7	1804	52	2.4	55	0.386
56-43.7028-108.4272-2-15-				0	-W06224		30240	300	5802	79	-2	10.3	7.0	-242	-1	-1	11.4	4397	172	3.3	-103	0.339
56-43.6772-108.3500-2-15-				0	-W06225		16010	300	6984	56	-1	5.2	4.3	-185	-1	-1	8.1	2922	47	3.1	-22	0.386
56-43.6636-108.3153-2-15-				0	-W06226		12790	216	6066	64	-2	6.0	4.3	-175	-1	-1	11.3	2572	55	3.7	-30	0.391
56-43.6908-108.3276-2-12-				0	-W06227		24680	424	19190	-22	-1	6.1	2.4	727	-1	-1	4.9	3622	80	-1.1	36	0.484
56-43.6831-108.3219-2-15-				0	-W06228		8541	252	8662	71	-1	4.6	5.6	-196	-1	-1	12.2	2576	42	2.9	75	0.363
56-43.6964-108.2639-2-15-				0	-W06229		27810	283	7853	-23	-1	5.5	4.9	-183	-1	-1	6.3	2987	54	2.9	29	0.457
56-43.6789-108.2950-2-15-				0	-W06230		12510	326	6021	65	-2	6.0	4.2	-200	-1	-1	9.5	2195	55	2.7	-27	0.451
56-43.6833-108.2775-2-15-				0	-W06231		10290	290	7180	-20	-1	4.0	2.5	-180	-1	-1	8.3	2485	57	1.9	54	0.402
56-43.6567-108.2639-2-15-				0	-W06232		17070	352	6459	76	-1	6.7	4.2	191	-1	-1	8.5	3193	69	2.8	67	0.471
56-43.6494-108.2750-2-15-				0	-W06233		13900	372	5319	46	-1	5.4	4.0	-181	-1	-1	7.2	2335	56	3.4	-38	0.469
56-43.6483-108.2744-2-15-				0	-W06234		14520	357	6540	49	-2	6.0	4.5	-216	-1	-1	8.0	2754	57	3.4	-61	0.401
56-43.6425-108.2306-2-15-				0	-W06236		19760	292	9117	-21	-1	5.1	3.2	-207	-1	-1	6.4	3227	69	2.2	-29	0.573
56-43.6328-108.2300-2-15-				0	-W06237		21790	320	8114	-28	-1	4.8	2.8	-192	-1	-1	5.1	2646	37	2.1	-37	0.410
56-43.5917-108.2486-2-15-				0	-W06238		31000	381	9567	66	-1	6.6	4.2	-211	-1	-1	6.8	3245	48	2.7	-43	0.350
56-43.6161-108.2200-2-15-				0	-W06239		16910	324	9754	-28	-1	5.5	4.6	-209	-1	-1	8.9	3394	44	4.1	43	0.379
56-43.6272-108.1881-2-15-				0	-W06240		12950	441	7152	50	-2	6.4	3.6	-231	-1	-1	10.5	2818	60	3.1	-65	0.437
56-43.6261-108.1667-2-15-				0	-W06241		10430	352	6378	51	-1	5.1	4.8	-182	-1	-1	8.5	2600	51	2.6	40	0.408
56-43.6325-108.1500-2-15-				0	-W06242		14640	319	8794	-29	-1	6.5	4.5	-211	-1	-1	10.4	2972	53	3.6	-27	0.292
56-43.6394-108.1311-2-15-				0	-W06243		20850	312	8225	48	-1	4.8	2.9	-197	-1	-1	6.5	2694	47	2.5	-32	0.446
56-43.6414-108.1053-2-12-				0	-W06244		9959	461	7300	57	-1	4.9	3.7	387	-1	-1	8.5	2749	48	2.9	70	0.500
56-43.6397-108.1053-2-15-				0	-W06245		10400	593	7405	-24	-1	5.2	5.1	-228	-1	-1	11.7	3269	49	3.6	-76	0.479
56-43.5750-108.1189-2-15-				0	-W06246		9586	698	7329	75	-2	7.3	6.4	-269	-1	-1	13.0	2997	62	3.8	73	0.388
56-43.5161-108.0883-2-15-				0	-W06247		14340	397	8857	47	-1	5.7	3.4	-227	-1	-1	8.6	3580	66	2.6	-37	0.371
56-43.5122-108.0744-2-11-				0	-W06248		13030	348	8535	-33	-2	6.4	4.2	-213	-1	-1	10.2	3366	61	2.5	-46	0.306
56-43.6067-108.1028-2-15-				0	-W06249		28850	326	9274	48	-1	4.8	3.2	-218	-1	-1	4.4	2267	34	2.0	-18	0.386
56-43.6161-108.0889-2-11-				0	-W06250		21250	345	8839	53	-2	6.6	3.8	-214	-1	-1	7.1	2970	43	2.9	-51	0.348
56-43.6161-108.0681-2-11-				0	-W06251		22860	362	8864	49	-1	5.1	2.8	-219	-1	-1	6.0	3312	40	2.0	113	0.402
56-43.5372-108.0511-2-15-				0	-W06252		12620	371	7923	-30	-2	6.9	5.0	-205	-1	-1	14.1	3368	50	3.0	-24	0.332
56-43.5239-108.0361-2-12-				0	-W06253		14440	297	8882	-29	-2	6.8	10.3	-231	-2	-1	29.0	4068	51	5.2	46	0.211
56-43.5022-108.0244-2-11-				0	-W06254		22070	219	6622	61	-1	5.5	7.6	-164	-2	-1	21.1	3033	35	4.6	-40	0.234
56-43.5839-108.0367-2-15-				0	-W06255		13880	250	4203	33	-1	3.2	2.8	-145	-1	-1	3.9	1320	23	2.1	-22	0.364
56-43.6078-108.0133-2-15-				0	-W06258		12970	291	4796	-20	-1	3.6	2.7	-186	-1	-1	4.2	1808	31	2.1	40	0.500
56-43.6072-108.0158-2-15-				0	-W06259		14220	291	6240	-27	-1	4.9	4.2	-168	-1	-1	6.6	2048	37	2.4	-39	0.397
56-43.5931-108.0083-2-15-				0	-W06260		24940	435	8101	43	-1	6.2	3.4	-229	-1	-1	7.9	3292	71	2.8	65	0.423
56-43.5900-108.1778-2-15-				0	-W06262		21000	320	6702	-17	-1	3.5	2.2	479	-1		4.1	1919	33	1.6	-24	0.507
56-43.5931-108.1875-2-15-				0	-W06263		22360	451	7963	-35	-2	7.8	4.0	-232	-1	-1	8.8	2962	61	2.7	-46	0.340
56-43.6769-108.1800-2-15-				0	-W06264		33100	311	7004	50	-1	6.4	4.5	-238	-1	-1	7.6	2860	60	1.9	-21	0.354

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.6922-	108.1622-	2-	15-	0-	W06265-	09/02/76-	11-	28-	-	-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	3.12
56-	43.6758-	108.1453-	2-	15-	0-	W06266-	09/02/76-	11-	28-	-	-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	3.00
56-	43.6953-	108.1436-	2-	11-	0-	W06267-	09/02/76-	11-	30-	13.0-	-	-	7.0-	3600-	-	8-	1-	7-	6-	8-	2-	-1-	-4-	-2-	3-	1-	-1-	-	-	-	-	-	-	5.20
56-	43.7389-	108.0164-	2-	15-	0-	W06268-	09/02/76-	11-	31-	-	-	-	-	-	-	12-	1-	7-	4-	6-	-	-	-	-2-	4-	1-	2-	1-	-1-	-	-	-	-	4.38
56-	43.7406-	108.0236-	2-	15-	0-	W06269-	09/02/76-	12-	32-	-	-	-	-	-	-	14-	1-	7-	4-	6-	-	-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	4.44
56-	43.7261-	108.0311-	2-	15-	0-	W06273-	09/02/76-	13-	32-	-	-	-	-	-	-	12-	1-	7-	4-	4-	-	-	-	-2-	3-	3-	2-	1-	-1-	-	-	-	-	1.99
56-	43.6956-	108.0453-	2-	15-	0-	W06274-	09/02/76-	13-	32-	-	-	-	-	-	-	17-	1-	7-	4-	4-	-	-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	2.44
56-	43.6933-	108.0453-	2-	11-	0-	W06275-	09/02/76-	13-	32-	12.0-	-	-	7.2-	3500-	-	16-	1-	7-	4-	4-	2-	-1-	-3-	-3-	2-	1-	-1-	-	-	-	-	-	-	2.91
56-	43.7036-	108.0667-	2-	15-	0-	W06276-	09/02/76-	13-	32-	-	-	-	-	-	-	16-	1-	7-	4-	4-	-	-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	2.59
56-	43.6517-	108.0514-	2-	15-	0-	W06277-	09/02/76-	13-	32-	-	-	-	-	-	-	19-	1-	7-	4-	4-	-	-	-	-2-	3-	1-	3-	1-	-1-	-	-	-	-	2.49
56-	43.6486-	108.0458-	2-	11-	0-	W06278-	09/02/76-	13-	32-	15.5-	-	-	7.1-	2600-	-	14-	1-	7-	4-	4-	2-	-1-	-3-	2-	3-	1-	-1-	-	-	-	-	-	-	3.02
56-	43.7361-	108.1106-	2-	15-	0-	W06279-	09/02/76-	14-	32-	-	-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	-2-	3-	2-	2-	1-	-1-	-	-	-	-	3.66
56-	43.7153-	108.1764-	2-	12-	0-	W06280-	09/02/76-	14-	30-	16.0-	-	-	7.2-	1600-	-	6-	1-	7-	4-	6-	2-	3-	1-	2-	2-	2-	1-	1-	-1-	-	-	-	-	2.42
56-	43.7019-	108.2258-	2-	12-	0-	W06281-	09/02/76-	15-	30-	16.0-	-	-	7.2-	1800-	-	6-	1-	7-	4-	6-	2-	3-	1-	2-	4-	3-	2-	1-	-1-	-	-	-	-	2.18
56-	43.7036-	108.2372-	2-	15-	0-	W06282-	09/02/76-	15-	30-	-	-	-	-	-	-	9-	1-	7-	4-	6-	-	-	-	-2-	2-	2-	1-	1-	-1-	-	-	-	-	2.91
56-	43.6922-	108.1839-	2-	15-	0-	W06283-	09/02/76-	15-	30-	-	-	-	-	-	-	11-	1-	7-	4-	6-	-	-	-	-2-	2-	2-	1-	1-	-1-	-	-	-	-	3.53
56-	43.6744-	108.2061-	2-	15-	0-	W06284-	09/02/76-	15-	30-	-	-	-	-	-	-	12-	1-	4-	-	-	-	-	-	-4-	3-	2-	1-	-1-	-1-	-	-	-	-	3.43
56-	43.7508-	109.5778-	2-	12-	0-	W06286-	06/07/77-	10-	14-	6.5-	0-	-	8.2-	55-	-	9-	1-	6-	2-	7-	4-	3-	1-	2-	1-	3-	3-	2-	-4-	-	-	-	-	1.32
56-	43.7117-	109.5842-	2-	12-	0-	W06287-	06/07/77-	11-	25-	9.5-	-	-	8.0-	165-	-	13-	1-	6-	3-	6-	3-	3-	1-	2-	2-	3-	2-	2-	-1-	-	-	-	-	1.57
56-	43.4708-	109.9111-	2-	11-	0-	W06288-	06/07/77-	10-	17-	5.0-	0-	-	5.7-	115-	-	2-	1-	1-	5-	6-	3-	3-	1-	2-	4-	3-	4-	3-	-1-	-	-	-	-	3.12
56-	43.4603-	109.9522-	2-	12-	0-	W06289-	06/07/77-	10-	19-	10.0-	-	-	5.7-	180-	-	4-	3-	1-	5-	6-	2-	3-	1-	2-	3-	3-	1-	2-	-1-	-	-	-	-	3.64
56-	43.4789-	109.9772-	2-	12-	0-	W06290-	06/07/77-	12-	20-	9.5-	-	-	5.5-	30-	-	20-	3-	7-	1-	7-	4-	4-	2-	2-	3-	4-	2-	2-	-1-	-	-	-	-	28.64
56-	43.4803-	109.9789-	2-	12-	0-	W06291-	06/07/77-	12-	19-	8.5-	-	-	5.5-	31-	-	18-	3-	7-	1-	1-	3-	4-	2-	2-	4-	4-	3-	2-	-1-	-	-	-	-	4.32
56-	43.4769-	109.9906-	2-	12-	0-	W06292-	06/07/77-	12-	20-	8.5-	-	-	5.5-	30-	-	13-	3-	7-	1-	1-	3-	4-	2-	2-	4-	4-	3-	2-	-1-	-	-	-	-	10.56
56-	43.4772-	109.9339-	2-	15-	0-	W06293-	06/07/77-	14-	17-	-	0-	-	-	-	-	13-	3-	7-	2-	7-	-1-	-2-	-4-	-4-	2-	3-	-1-	-	-	-	-	-	-	4.91
56-	43.3994-	109.9503-	2-	99-	0-	W06294-	06/07/77-	14-	22-	-	0-	-	-	-	-	9-	3-	7-	3-	1-	-1-	-2-	-4-	-3-	2-	2-	-1-	-	-	-	-	-	-	4.10
56-	43.4925-	109.9647-	2-	11-	0-	W06295-	06/07/77-	15-	18-	15.0-	-	-	5.5-	150-	-	22-	4-	-3-	6-	3-	3-	1-	2-	4-	3-	2-	2-	-1-	-	-	-	-	-	4.30
56-	43.5092-	109.9858-	2-	12-	0-	W06296-	06/07/77-	16-	18-	12.5-	-	-	5.7-	180-	-	15-	4-	-2-	7-	2-	2-	1-	2-	2-	3-	3-	2-	-1-	-	-	-	-	-	6.36
56-	43.5103-	109.9869-	2-	12-	0-	W06297-	06/07/77-	16-	18-	12.0-	-	-	5.7-	160-	-	13-	4-	-2-	7-	2-	2-	1-	2-	2-	3-	3-	4-	-1-	-	-	-	-	-	4.50
56-	43.4875-	109.9414-	2-	11-	0-	W06298-	06/07/77-	16-	20-	12.5-	-	-	5.7-	95-	-	5-	4-	-2-	1-	2-	3-	1-	2-	2-	3-	2-	2-	-1-	-	-	-	-	-	7.53
56-	43.4547-	109.8581-	2-	12-	0-	W06299-	06/07/77-	17-	17-	16.5-	-	-	5.7-	35-	-	6-	4-	-2-	7-	3-	3-	2-	2-	2-	4-	2-	3-	-1-	-	-	-	-	-	4.07
56-	43.4900-	109.8778-	2-	12-	0-	W06300-	06/07/77-	17-	17-	11.5-	-	-	5.7-	31-	-	2-	3-	1-	1-	1-	4-	4-	1-	2-	4-	3-	2-	4-	-1-	-	-	-	-	9.65
56-	43.4892-	109.8508-	2-	12-	0-	W06301-	06/07/77-	18-	15-	4.5-	0-	-	5.5-	29-	-	9-	3-	1-	4-	6-	2-	3-	1-	2-	3-	3-	2-	4-	-1-	-	-	-	-	4.34
56-	43.5558-	109.8722-	2-	12-	0-	W06302-	06/08/77-	9-	14-	9.5-	-	-	5.5-	70-	-	4-	1-	1-	2-	1-	4-	3-	1-	2-	1-	3-	4-	1-	-1-	-	-	-	-	6.44
56-	43.5661-	109.8828-	2-	15-	0-	W06303-	06/08/77-	10-	18-	-	-	-	-	-	-	13-	1-	1-	5-	1-	-1-	-2-	1-	3-	4-	2-	-1-	-	-	-	-	-	-	4.15
56-	43.5728-	109.8994-	2-	12-	0-	W06304-	06/08/77-	10-	17-	8.5-	-	-	5.7-	160-	-	15-	1-	3-	5-	6-	2-	3-	2-	2-	3-	4-	2-	2-	-1-	-	-	-	-	5.75
56-	43.5822-	109.9256-	2-	12-	0-	W06305-	06/08/77-	10-	18-	10.0-	-	-	5.9-	155-	-	4-	1-	3-	2-	3-	3-	2-	1-	2-	3-	4-	2-	2-	-1-	-	-	-	-	3.69
56-	43.5875-	109.9169-	2-	12-	0-	W06306-	06/08/77-	11-	17-	13.0-	-	-	5.9-	160-	-	2-	1-	1-	2-	1-	3-	3-	1-	2-	3-	4-	3-	2-	-1-	-	-	-	-	3.17
56-	43.5817-	109.9669-	2-	12-	0-	W06307-	06/08/77-	11-	16-	13.5-	-	-	5.7-	155-	-	4-	1-	1-	3-	1-	3-	3-	1-	2-	3-	4-	3-	2-	-1-	-	-	-	-	3.65
56-	43.5917-	109.9853-	2-	12-	0-	W06308-	06/08/77-	12-	16-	12.5-	-	-	5.7-	165-	-	4-	4-	-5-	6-	2-	3-	1-	2-	4-	4-	2-	2-	-1-	-	-	-	-	-	3.94
56-	43.5933-	109.9844-	2-	12-	0-	W06309-	06/08/77-	12-	17-	13.0-	-	-	5.7-	130-	-	9-	4-	-2-	1-	4-	3-	1-	2-	3-	4-	2-	2-	-1-	-	-	-	-	-	3.99
56-	43.5911-	109.9367-	2-	12-	0-	W06310-	06/08/77-	12-	19-	14.5-	-	-	5.9-	205-	-	4-	-	-1-	1-	3-	3-	1-	2-	3-	4-	2-	2-	-1-	-	-	-	-	-	4.14
56-	43.5647-	109.8403-	2-	12-	0-	W06311-	06/08/77-	13-	19-	11.0-	-	-	5.7-	110-	-	22-	1-	1-	4-	6-	3-	3-	1-	2-	1-	3-	4-	2-	-1-	-	-	-	-	-	3.03
56-	43.4419-	109.4681-	2-	12-	0-	W06312-	06/07/77-	9-	22-	9.5-	-	-	7.9-	650-	-	2-	1-	4-	5-	4-	3-	3-	2-	1-	3-	3-	4-	2-	-1-	-	-	-	-	-	1.45
56-	43.4492-	109.4756-	2-	12-	0-	W06313-	06/07/77-	9-	22-	10.0-	0-	-	7.5-	700-	-	1-	1-	4-	5-	4-	3-	3-	2-	2-	3-	3-	4-	2-	-1-	-	-	-	-	-	1.93
56-	43.4917-	109.5083-	2-	15-	0-	W06314-	06/07/77-	10-	23-	-	-	-	-	-	-	8-	1-	4-	4-	4-	-	-	-	-2-	3-	5-	2-	-1-	-1-	-	-	-	-	3.27
56-	43.4806-	109.5222-	2-	15-	0-	W06315-	06/07/77-	11-	23-	-	-	-	-	-	-	6-	1-	4-	4-	4-	-	-	-	-3-	4-	4-	2-	-1-	-1-	-	-	-	-	3.16
56-	43.4242-	109.5569-	2-	11-	0-	W06316-	06/07/77-	11-	23-	15.0-	-	-	7.0-	500-	-	3-	1-	7-	5-	8-	1-	2-	5-	3-	3-	4-	5-	3-	-1-	-	-	-	-	6.07
56-	43.4597-	109.5639-	2-	15-	0-	W06317-	06/07/77-	12-	24-	-	-	-	-	-	-	6-	1-	7-	4-	7-	-	-	-	-3-	2-	4-	2-	-1-	-1-	-	-	-	-	3.93
56-	43.4653-	109.5931-	2-	12-	0-	W06318-	06/07/77-	13-	24-	17.0-	-	-	8.4-	180-	-	2-	3-	4-	4-	6-	3-	3-	2-	2-	3-	3-	4-	2-	-1-	-	-	-	-	-	2.95
56-	43.4819-	109.5903-	2-	15-	0-	W06319-	06/07/77-	13-	26-	-	-	-	-	-	-	7-	3-	4-	4-	4-	-	-	-	-3-	3-	3-	2-	-1-	-1-	-	-	-	-	3.38

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.6822-108.1622-2-15-						0-W06265	-5	5	-5	22	-20	-15	-5	-10	-15	2	20
56-43.6758-108.1453-2-15-						0-W06266	-5	5	-5	19	-20	-15	-5	-10	-15	2	12
56-43.6953-108.1436-2-11-						0-W06267	-5	7	-5	30	-20	-15	9	-10	-15	2	30
56-43.7389-108.0164-2-15-						0-W06268	-5	7	-5	21	-20	19	13	-10	-15	3	76
56-43.7406-108.0336-2-15-						0-W06269	-5	-5	-5	23	-20	17	7	-10	-15	2	73
56-43.7261-108.0311-2-15-						0-W06273	-5	5	-5	20	-20	-15	-5	-10	-15	2	25
56-43.6956-108.0453-2-15-						0-W06274	-5	-5	-5	18	-20	15	-5	-10	-15	1	25
56-43.6933-108.0453-2-11-						0-W06275	-5	7	-5	18	-20	-15	-5	-10	-15	2	34
56-43.7036-108.0667-2-15-						0-W06276	-5	-5	-5	22	-20	-15	-5	-10	-15	2	30
56-43.6517-108.0514-2-15-						0-W06277	-5	-5	-5	16	-20	-15	-5	-10	-15	2	41
56-43.6486-108.0458-2-11-						0-W06278	-5	-5	-5	20	-20	-15	-5	-10	-15	2	27
56-43.7361-108.1106-2-15-						0-W06279	-5	-5	-5	21	-20	-15	5	-10	-15	2	29
56-43.7153-108.1764-2-12-						0-W06280	-5	-5	-5	17	-20	32	10	-10	-15	2	25
56-43.7019-108.2258-2-12-						0-W06281	-5	5	-5	15	-20	40	13	-10	-15	2	23
56-43.7036-108.2372-2-15-						0-W06282	-5	-5	-5	29	-20	-15	-5	-10	-15	2	40
56-43.6922-108.1839-2-15-						0-W06283	-5	-5	-5	33	-20	-15	22	-10	-15	3	100
56-43.6744-108.2061-2-15-						0-W06284	-5	7	-5	36	-20	21	19	-10	-15	2	50
56-43.7508-109.5778-2-12-						0-W06286	-5	-5	-5	30	-20	77	-5	-10	-15	2	14
56-43.7117-109.5842-2-12-						0-W06287	-5	5	-5	24	-20	67	10	-10	-15	2	15
56-43.4708-109.9111-2-11-						0-W06288	-5	-5	-5	22	-20	-15	10	-10	-15	2	24
56-43.4603-109.9522-2-12-						0-W06289	-5	7	-5	14	-20	28	12	-10	-15	2	17
56-43.4789-109.9772-2-12-						0-W06290	-5	20	-5	-10	-20	45	33	-10	21	2	10
56-43.4803-109.9789-2-12-						0-W06291	-5	10	-5	10	-20	22	6	-10	-15	2	19
56-43.4769-109.9906-2-12-						0-W06292	-5	14	-5	-10	-20	-15	-5	-10	-15	2	11
56-43.4272-109.9339-2-15-						0-W06293	-5	16	-5	25	-20	21	10	-10	-15	2	24
56-43.3994-109.9503-2-99-						0-W06294	-5	7	-5	31	-20	-15	9	-10	-15	2	33
56-43.4925-109.9647-2-11-						0-W06295	-5	11	-5	14	-20	21	11	-10	-15	2	32
56-43.5092-109.9858-2-12-						0-W06296	-5	9	-5	11	-20	19	-5	-10	-15	2	23
56-43.5103-109.9869-2-12-						0-W06297	-5	7	-5	33	-20	19	-5	-10	-15	2	30
56-43.4875-109.9414-2-11-						0-W06298	-5	5	-5	26	-20	-15	-5	-10	-15	2	25
56-43.4567-109.8981-2-12-						0-W06299	-5	5	-5	20	-20	-15	5	-10	-15	2	18
56-43.4900-109.8778-2-12-						0-W06300	-5	19	-5	23	-20	33	9	-10	-15	2	29
56-43.4892-109.8508-2-12-						0-W06301	-5	5	5	35	-20	-15	5	-10	-15	2	35
56-43.5558-109.8722-2-12-						0-W06302	-5	10	-5	23	-20	21	6	-10	-15	2	38
56-43.5661-109.8828-2-15-						0-W06303	-5	6	-5	10	-20	19	8	-10	-15	2	33
56-43.5728-109.8994-2-12-						0-W06304	-5	10	-5	18	-20	24	13	-10	-15	2	33
56-43.5822-109.9256-2-12-						0-W06305	-5	6	-5	19	-20	25	10	-10	-15	2	28
56-43.5875-109.9169-2-12-						0-W06306	-5	-5	-5	17	-20	15	-5	-10	-15	2	25
56-43.5817-109.9669-2-12-						0-W06307	-5	-5	-5	19	-20	-15	-5	-10	-15	2	30
56-43.5917-109.9853-2-12-						0-W06308	-5	-5	-5	24	-20	-15	-5	-10	-15	2	28
56-43.5933-109.9844-2-12-						0-W06309	-5	-5	-5	23	-20	16	-5	-10	-15	2	29
56-43.5911-109.9367-2-12-						0-W06310	-5	-5	-5	19	-20	-15	-5	-10	-15	2	27
56-43.5647-109.8403-2-12-						0-W06311	-5	-5	-5	13	-20	-15	7	-10	-15	2	32
56-43.4419-109.4681-2-12-						0-W06312	-5	-5	-5	13	-20	-15	5	-10	-15	-1	14
56-43.4492-109.4756-2-12-						0-W06313	-5	-5	-5	19	-20	-15	-5	-10	-15	1	15
56-43.4917-109.5083-2-15-						0-W06314	-5	-5	-5	12	-20	-15	-5	-10	-15	-1	12
56-43.4806-109.5222-2-15-						0-W06315	-5	6	-5	24	-20	-15	-5	-10	-15	2	24
56-43.4242-109.5569-2-11-						0-W06316	-5	7	-5	30	-20	-15	12	-10	-15	2	34
56-43.4597-109.5639-2-15-						0-W06317	-5	5	-5	24	-20	-15	19	-10	-15	2	22
56-43.4653-109.5931-2-12-						0-W06318	-5	-5	-5	34	-20	26	8	-10	-15	2	49
56-43.4819-109.5903-2-15-						0-W06319	-5	-5	-5	22	-20	20	10	-10	-15	2	25

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.6822-	108.1622-	2-	15-	0-	W06265	36730	-0.06	520	40900	49	-55	7.9	48	3.3	4	1.6	16510	12.3	13580	27	0.4
56-	43.6758-	108.1453-	2-	15-	0-	W06266	33410	-0.04	1150	44560	29	-53	4.0	30	1.8	4	1.1	10930	12.4	14560	20	0.3
56-	43.6953-	108.1436-	2-	11-	0-	W06267	59370	-0.06	643	20200	87	-83	7.6	55	4.4	6	1.7	22630	7.7	17970	42	0.5
56-	43.7389-	108.0164-	2-	15-	0-	W06268	62570	-0.06	673	33740	60	86	8.0	56	5.9	4	1.4	22060	5.5	19750	30	0.3
56-	43.7406-	108.0336-	2-	15-	0-	W06269	63690	-0.08	736	31600	63	-61	11.1	69	8.9	5	1.5	26670	4.9	21480	37	0.3
56-	43.7261-	108.0311-	2-	15-	0-	W06273	36000	-0.04	367	40380	18	657	2.6	19	1.9	3	0.8	8329	4.3	15910	14	0.2
56-	43.6956-	108.0453-	2-	15-	0-	W06274	33310	-0.07	400	46480	81	450	12.5	56	4.7	3	2.2	27070	14.5	17490	45	0.6
56-	43.6933-	108.0453-	2-	11-	0-	W06275	40050	-0.05	463	44990	48	-69	6.3	42	2.0	4	1.3	14950	11.2	18640	25	0.4
56-	43.7036-	108.0667-	2-	15-	0-	W06276	36120	-0.06	361	60520	37	-62	6.4	35	2.5	3	1.4	15500	10.4	15490	24	0.2
56-	43.6517-	108.0514-	2-	15-	0-	W06277	36690	-0.05	487	58000	25	103	5.1	29	1.7	3	0.9	11100	5.6	17260	17	0.2
56-	43.6486-	108.0458-	2-	11-	0-	W06278	37440	-0.06	383	50470	41	-62	7.2	41	3.7	4	1.2	17220	11.1	16060	25	0.4
56-	43.7361-	108.1106-	2-	15-	0-	W06279	39690	-0.05	759	24250	64	62	5.9	43	2.7	4	1.4	15220	12.6	15220	31	0.4
56-	43.7153-	108.1764-	2-	12-	0-	W06280	55250	-0.06	1033	40470	76	406	13.8	144	-1.7	3	2.3	27600	8.6	14670	35	0.3
56-	43.7019-	108.2258-	2-	12-	0-	W06281	61510	-0.07	1054	41430	63	-77	13.1	90	1.9	3	1.8	24300	6.9	17140	45	0.2
56-	43.7036-	108.2372-	2-	15-	0-	W06282	55100	-0.10	415	100100	44	6103	10.5	63	10.8	4	1.3	24020	4.5	17280	31	-0.1
56-	43.6922-	108.1839-	2-	15-	0-	W06283	60330	-0.08	540	72730	60	622	11.9	65	10.4	4	1.3	25730	5.7	19290	33	0.3
56-	43.6744-	108.2061-	2-	15-	0-	W06284	59200	-0.07	465	76300	69	190	11.8	62	7.4	4	1.3	24150	4.5	18800	32	0.3
56-	43.7508-	109.5778-	2-	12-	0-	W06286	73220	-0.50	962	44160	59	-108	31.1	201	-2.4	2	1.4	61780	3.2	10400		-0.3
56-	43.7117-	109.5842-	2-	12-	0-	W06287	78750	-0.47	1090	46480	73	-110	24.8	232	-2.2	2	1.4	49960	4.2	9067		-0.3
56-	43.4708-	109.9111-	2-	11-	0-	W06288	77330	-0.45	1073	19070	56	-87	8.6	61	-2.1	3	1.3	25050	5.6	20270		0.7
56-	43.4603-	109.9522-	2-	12-	0-	W06289	60540	-0.46	831	18110	95	155	6.2	67	-2.1	7	1.7	23150	18.0	17760		0.6
56-	43.4789-	109.9772-	2-	12-	0-	W06290	47550	-0.52	484	20180	954	-87	6.7	184	-2.1	36	8.0	34700	225.5	16640	750	3.3
56-	43.4803-	109.9789-	2-	12-	0-	W06291	62680	-0.39	766	16440	150	-93	7.4	57	-1.8	7	1.9	23430	22.9	21740		0.6
56-	43.4769-	109.9906-	2-	12-	0-	W06292	60640	-0.50	731	15520	338	192	6.3	107	-2.1	14	3.8	25750	100.6	17010	276	1.2
56-	43.4272-	109.9339-	2-	15-	0-	W06293	59180	-0.56	740	16680	154	112	8.0	70	-2.4	9	1.6	30300	24.5	16220		0.5
56-	43.3994-	109.9503-	2-	99-	0-	W06294	60760	-0.51	476	13180	129	104	9.5	59	-2.3	6	1.4	33010	18.9	15480		1.4
56-	43.4925-	109.9647-	2-	11-	0-	W06295	66780	-0.44	595	21570	147	-97	8.2	72	-1.9	6	1.9	22810	22.6	13980		0.6
56-	43.5092-	109.9858-	2-	12-	0-	W06296	56000	1.10	667	17220	201	87	7.5	81	-2.3	9	1.9	28570	37.7	19490		1.1
56-	43.5103-	109.9859-	2-	12-	0-	W06297	58680	-0.48	863	16040	98	-93	7.9	47	2.4	5	1.4	21890	17.1	20010		0.6
56-	43.4875-	109.9414-	2-	11-	0-	W06298	59610	-0.55	619	16880	91	-100	10.0	60	-2.5	6	1.4	24130	11.9	14690		0.9
56-	43.4567-	109.8981-	2-	12-	0-	W06299	59340	-0.58	712	20130	176	231	14.3	86	-2.7	7	2.5	52720	21.0	16260		0.6
56-	43.4900-	109.8778-	2-	12-	0-	W06300	63670	-0.65	571	20480	306	173	18.0	238	-2.9	12	3.1	48930	73.6	14910	278	1.1
56-	43.4892-	109.8508-	2-	12-	0-	W06301	64040	-0.68	667	15430	104	-99	10.1	68	4.4	9	2.5	40090	12.4	14910		0.4
56-	43.5559-	109.8722-	2-	12-	0-	W06302	68930	-0.05	718	15290	156	-83	8.5	90	2.1	7	2.1	27030	34.0	21580	90	0.8
56-	43.5661-	109.8828-	2-	15-	0-	W06303	57870	-0.36	779	16060	134	-66	6.1	69	2.0	6	1.4	19120	22.6	18820		0.7
56-	43.5728-	109.8594-	2-	12-	0-	W06304	67400	-0.56	759	8526	133	-80	9.2	74	2.9	7	1.9	26590	31.7	22000		0.6
56-	43.5822-	109.9256-	2-	12-	0-	W06305	67200	-0.44	821	17280	81	-100	7.4	85	2.7	5	1.3	20150	16.1	19150		0.4
56-	43.5875-	109.9169-	2-	12-	0-	W06306	58400	-0.34	575	12640	50	-82	5.8	52	2.9	3	1.1	17140	8.2	18150		0.6
56-	43.5817-	109.9669-	2-	12-	0-	W06307	61320	-0.36	737	13440	70	-85	4.7	54	4.0	4	1.2	16820	10.7	16570		0.7
56-	43.5917-	109.9853-	2-	12-	0-	W06308	55740	-0.43	624	11400	69	-77	4.3	58	4.5	4	1.4	18760	13.5	17340		0.4
56-	43.5933-	109.9844-	2-	12-	0-	W06309	61180	-0.44	651	13630	65	-90	4.5	54	3.9	4	1.0	18940	11.8	18860		0.5
56-	43.5911-	109.9367-	2-	12-	0-	W06310	63120	-0.43	770	12250	92	-97	8.0	96	3.2	4	1.5	23020	16.9	18110		1.0
56-	43.5647-	109.8403-	2-	12-	0-	W06311	65740	-0.45	763	14770	89	-77	9.8	78	2.5	4	1.6	24460	12.1	23380		0.5
56-	43.4419-	109.4681-	2-	12-	0-	W06312	22860	-0.47	177	205100	19	169	-0.4	-15	2.5	2	-0.5	7650	4.0	10660		-0.3
56-	43.4492-	109.4756-	2-	12-	0-	W06313	33580	-0.30	286	63770	26	-66	2.9	19	2.3	2	0.7	7531	11.3	16210		0.4
56-	43.4917-	109.5083-	2-	15-	0-	W06314	25960	-0.26	361	59560	63	89	2.8	55	-1.2	4	0.8	7598	12.9	14640		0.7
56-	43.4806-	109.5222-	2-	15-	0-	W06315	48900	-0.34	528	51410	74	-67	7.4	104	-1.4	4	1.3	17630	12.6	16900		0.3
56-	43.4242-	109.5569-	2-	11-	0-	W06316	59960	-0.66	359	106200	77	142	5.1	44	-3.0	5	1.4	23430	6.0	18370		1.1
56-	43.4597-	109.5639-	2-	15-	0-	W06317	48190	-0.39	470	25020	60	-63	6.0	53	2.0	5	1.1	17650	11.3	22500	131	0.3
56-	43.4653-	109.5531-	2-	12-	0-	W06318	62590	-0.44	581	53910	57	-52	8.4	44	3.9	6	1.2	22370	5.4	36380		0.7
56-	43.4819-	109.5903-	2-	15-	0-	W06319	54600	-0.32	523	11850	95	-72	6.9	58	-1.5	5	1.5	22010	14.4	18790		0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.6822-108.1622-2-15-						0-W06265	15660	331	6122	-31	-1	5.5	5.4	-182	-1	-1	6.9	2223	46	3.4	76	0.452
56-43.6758-108.1453-2-15-						0-W06266	16680	325	6115	-19	-1	3.8	2.7	283	-1	-1	5.6	2410	42	2.2	-25	0.536
56-43.6953-108.1436-2-11-						0-W06267	15520	222	7688	72	-2	7.9	9.3	531	-2	-1	12.3	3514	76	3.8	95	0.423
56-43.7289-108.0164-2-15-						0-W06268	31540	228	6533	85	-2	8.0	4.8	-215	-1	-1	9.9	2931	127	2.8	90	0.442
56-43.7406-108.0336-2-15-						0-W06269	33650	244	6536	75	-2	9.7	4.8	318	-1	-1	10.6	3356	130	3.0	118	0.419
56-43.7261-108.0311-2-15-						0-W06273	19530	283	10970	43	-1	3.1	1.9	-201	-1	-1	3.2	2470	30	-1.0	-29	0.622
56-43.6956-108.0453-2-15-						0-W06274	21810	303	10110	83	-2	10.0	6.5	-191	-1	-1	13.1	2690	39	3.7	105	0.186
56-43.6933-108.0453-2-11-						0-W06275	22100	318	8713	44	-1	5.2	4.5	-229	-1	-1	7.9	2887	45	3.1	59	0.368
56-43.7036-108.0667-2-15-						0-W06276	23100	321	8245	63	-1	5.8	3.5	-193	-2	-1	6.4	2572	44	2.3	-21	0.405
56-43.6517-108.0514-2-15-						0-W06277	27010	373	7970	39	-1	4.2	2.1	474	-1	-1	4.1	2863	44	1.6	-29	0.607
56-43.6486-108.0458-2-11-						0-W06278	24170	335	8351	-27	-1	5.7	3.6	-198	-1	-1	6.9	2613	45	2.6	54	0.438
56-43.7361-108.1106-2-15-						0-W06279	13910	271	7310	-23	-1	4.9	4.8	-205	-1	-1	9.4	2697	63	3.5	51	0.389
56-43.7153-108.1764-2-12-						0-W06280	27620	441	17560	-28	-1	9.1	4.7	645	-1	-1	6.6	3660	95	2.2	51	0.367
56-43.7019-108.2258-2-12-						0-W06281	25150	351	17260	-29	-2	8.8	3.9	657	-1	-1	7.6	2934	67	-1.4	-15	0.287
56-43.7036-108.2372-2-15-						0-W06282	27660	369	8739	-40	-2	8.3	3.3	634	-1	-1	10.8	3037	71	1.6	84	0.269
56-43.6922-108.1839-2-15-						0-W06283	26110	386	7711	71	-2	8.4	3.8	448	-2	-1	11.5	2774	75	3.1	102	0.307
56-43.6744-108.2061-2-15-						0-W06284	25930	436	6492	70	-2	8.0	5.5	436	-1	-1	12.1	3103	68	2.8	73	0.283
56-43.7508-109.5778-2-12-						0-W06286	50380	851	19930	-50		18.2		924	-2	-1	6.5	5645	213		123	0.203
56-43.7117-109.5842-2-12-						0-W06287	46910	689	23190	-47		14.9		1125	-2	-1	6.4	5631	156		-52	0.245
56-43.4708-109.9111-2-11-						0-W06288	16950	259	19390	-47		8.1		667	-1	-1	10.6	2478	44		52	0.294
56-43.4603-109.9522-2-12-						0-W06289	9791	509	18880	-47		7.4	7.3	-317	-1	-1	28.4	3878	55		57	0.128
56-43.4789-109.9772-2-12-						0-W06290	7200	673	16030	-40		16.9	99.4	-262	-2	6	360.4	11050	72	41.7	-46	0.079
56-43.4803-109.9789-2-12-						0-W06291	15000	387	19670	-38		7.2	15.7	-259	-2	-1	41.9	3787	51	11.4	41	0.103
56-43.4769-109.9906-2-12-						0-W06292	8389	357	18480	74		10.0	41.7	-225	-2	-1	112.2	5042	52	30.0	-47	0.098
56-43.4272-109.9339-2-15-						0-W06293	13170	578	15890	-57		8.2	19.1	-355	-2	-2	49.5	5946	79		-116	0.099
56-43.3994-109.9503-2-99-						0-W06294	13270	529	13720	RC		8.5	8.8	-298	-2	-1	40.1	4114	74		94	0.102
56-43.4925-109.9647-2-11-						0-W06295	15680	370	19870	-42		8.5		621	-2	-1	35.8	3741	61	11.3	-43	0.120
56-43.5092-109.9858-2-12-						0-W06296	14610	481	13820	-51		8.4	33.5	-264	-2	-1	60.1	5250	58	14.4	-63	0.106
56-43.5103-109.9869-2-12-						0-W06297	11490	390	13900	-46		7.0		-287	-1	-1	22.4	3649	55		96	0.201
56-43.4875-109.9414-2-11-						0-W06298	13180	470	12850	-60		7.7		416	-3	-2	19.0	3089	61		67	0.396
56-43.4567-109.8981-2-12-						0-W06299	20560	742	15800	-61		10.3		-381	-2	-1	37.9	5384	87	16.9	-59	0.107
56-43.4900-109.8778-2-12-						0-W06300	24440	849	15710	-60		17.3	41.2	-325	-2	-2	95.5	7889	100	24.4	145	0.101
56-43.4892-109.8508-2-12-						0-W06301	16190	403	11030	-68		10.9		-326	-3	-2	19.2	5206	94		62	0.226
56-43.5558-109.8722-2-12-						0-W06302	13650	300	12930	72	-1	9.1	11.7	-234	-2	-1	45.3	4094	60	6.2	82	0.142
56-43.5661-109.8828-2-15-						0-W06303	11100	365	9204	58		5.6	14.2	-220	-1	-1	32.6	3038	49	8.7	-64	0.127
56-43.5728-109.8994-2-12-						0-W06304	13160	365	11010	103		8.6		-249	-2	-1	36.5	3761	53	12.4	-35	0.158
56-43.5822-109.9256-2-12-						0-W06305	12670	447	16350	-45		7.4		-296	-1	-1	14.1	3557	56		-47	0.262
56-43.5875-109.9169-2-12-						0-W06306	12920	436	14850	-37		5.5		281	-1	-1	9.7	2728	35	3.5	80	0.327
56-43.5817-109.9669-2-12-						0-W06307	13730	424	14960	-33		5.2		313	-1	-1	10.4	2972	39		-23	0.351
56-43.5917-109.9853-2-12-						0-W06308	11980	324	13870	-41		5.8		336	-1	-1	12.3	3351	35		53	0.320
56-43.5933-109.9844-2-12-						0-W06309	14330	431	13140	-43		6.2		-286	-1	-1	10.6	2931	49		39	0.376
56-43.5911-109.9367-2-12-						0-W06310	14720	806	12800	87		7.0		-342	-1	-1	17.2	3389	58		76	0.241
56-43.5647-109.8403-2-12-						0-W06311	11890	320	13620	82		7.7		-222	-1	-1	21.3	3166	55		-55	0.142
56-43.4419-109.4681-2-12-						0-W06312	22540	207	4882	-51		2.2		608	-2	-1	3.7	1430	17		-64	0.392
56-43.4492-109.4756-2-12-						0-W06313	15210	345	8612	-28		3.1		-204	-1	-1	4.6	2312	19	-3.2	-32	0.420
56-43.4917-109.5083-2-15-						0-W06314	30330	224	4725	-28		2.9	9.1	-162	-1	-1	24.7	1600	18	-1.9	-29	0.132
56-43.4806-109.5222-2-15-						0-W06315	29700	396	9280	53		5.6	11.4	-222	-1	-1	21.8	2582	49	9.6	39	0.145
56-43.4242-109.5569-2-11-						0-W06316	23180	262	6819	-64		7.2		-316	-3	-2	20.2	2435	37		-70	0.300
56-43.4597-109.5639-2-15-						0-W06317	11760	356	7803	78		5.5		-204	-2	-1	20.9	2181	35	9.2	-66	0.188
56-43.4653-109.5931-2-12-						0-W06318	26190	495	2044	107		8.1		-242	-1	-1	11.4	3419	51		-49	0.259
56-43.4819-109.5903-2-15-						0-W06319	12120	452	13610	72		6.8	12.0	-222	-1	-1	27.2	3484	49	9.1	-31	0.124

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples (1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	43.5444	109.5611	2	12	-	0-W06320-06/07/77-14-	27	15.0	-	-	-	-	7.8	60	-	3-3-4-4-4-4-4-1-2-2-4-2-2-	-1-	-	-	-	-	6.70
56-43.5139-109.5928-2-15-						0-W06321-06/07/77-14-	27-		-	-	-	-	-	-	-	14-3-4-4-4-	-	-	-	-	-	-3-2-2-4-	-1-	-	-	-	-	3.77
56-43.5258-109.5869-2-15-						0-W06322-06/07/77-15-	26-		-	-	-	-	-	-	-	9-1-4-4-4-	-	-	-	-	-	-3-2-4-3-	-1-	-	-	-	-	3.24
56-43.5269-109.5822-2-15-						0-W06323-06/07/77-15-	26-		-	-	-	-	-	-	-	6-1-4-4-4-	-	-	-	-	-	-3-2-4-3-	-1-	-	-	-	-	2.88
56-43.5467-109.5894-2-15-						0-W06324-06/07/77-16-	26-		-	-	-	-	-	-	-	10-1-4-4-4-	-	-	-	-	-	-3-2-4-3-	-1-	-	-	-	-	2.88
56-43.5464-109.5869-2-15-						0-W06325-06/07/77-15-	26-		-	-	-	-	-	-	-	6-1-4-4-4-	-	-	-	-	-	-3-2-4-3-	-1-	-	-	-	-	3.01
56-43.5150-109.5592-2-15-						0-W06326-06/07/77-17-	27-		-	-	-	-	-	-	-	8-1-4-4-4-	-	-	-	-	-	-3-3-4-3-	-1-	-	-	-	-	2.84
56-43.5072-109.5364-2-15-						0-W06327-06/07/77-18-	25-		-	-	-	-	-	-	-	8-1-4-4-4-	-	-	-	-	-	-3-3-4-3-	-1-	-	-	-	-	4.56
56-43.5247-109.6189-2-15-						0-W06328-06/07/77-18-	27-		-	-	-	-	-	-	-	7-1-7-4-4-	-	-	-	-	-	-3-3-3-3-	-1-	-	-	-	-	2.75
56-43.5872-109.5572-2-15-						0-W06329-06/08/77- 9-	23-		-	-	-	-	-	-	-	8-1-4-4-4-	-	-	-	-	-	-3-3-3-2-	-1-	-	-	-	-	2.80
56-43.5883-109.5444-2-15-						0-W06330-06/08/77-10-	23-		-	-	-	-	-	-	-	10-1-4-4-4-	-	-	-	-	-	-3-3-2-2-	-1-	-	-	-	-	2.28
56-43.5858-109.5117-2-15-						0-W06331-06/08/77-10-	24-		-	-	-	-	-	-	-	5-1-4-4-4-	-	-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	2.32
56-43.5644-109.4864-2-15-						0-W06332-06/08/77-11-	25-		-	-	-	-	-	-	-	3-1-4-4-4-	-	-	-	-	-	-3-3-2-2-	-1-	-	-	-	-	2.31
56-43.5478-109.4750-2-15-						0-W06333-06/08/77-11-	25-		-	-	-	-	-	-	-	7-1-4-4-4-	-	-	-	-	-	-3-3-3-2-	-1-	-	-	-	-	3.01
56-43.7092-109.3592-2-12-						0-W06334-06/08/77-12-	26-	15.0	-	-	-	-	6.3	170	-	2-3-7-4-7-3-3-2-1-2-3-5-2-	-1-	-	-	-	-	1.88
56-43.7014-109.3597-2-12-						0-W06335-06/08/77-13-	27-	12.5	-	-	-	-	6.5	180	-	3-3-7-4-7-3-3-2-1-2-3-5-2-	-1-	-	-	-	-	1.86
56-43.7033-109.3533-2-12-						0-W06336-06/08/77-13-	27-	13.5	-	-	-	-	6.8	160	-	2-3-7-4-7-3-3-2-3-3-4-5-2-	-1-	-	-	-	-	1.85
56-43.6947-109.3531-2-12-						0-W06337-06/08/77-14-	27-	14.0	-	-	-	-	6.3	170	-	4-3-7-4-7-3-3-2-1-2-4-5-2-	-1-	-	-	-	-	1.62
56-43.6842-109.3872-2-15-						0-W06338-06/08/77-15-	26-		-	-	-	-	-	-	-	6-1-7-4-7-	-	-	-	-	-	-3-4-4-2-	-1-	-	-	-	-	1.50
56-43.7056-109.4272-2-11-						0-W06339-06/08/77-15-	26-	14.5	-	-	-	-	6.8	330	-	4-1-7-5-7-3-3-2-1-2-3-3-2-	-1-	-	-	-	-	1.15
56-43.6497-109.3844-2-15-						0-W06340-06/08/77-16-	25-		-	-	-	-	-	-	-	5-3-4-4-4-	-	-	-	-	-	-3-3-3-2-	-1-	-	-	-	-	5.69
56-43.6394-109.3936-2-15-						0-W06341-06/08/77-16-	25-		-	-	-	-	-	-	-	4-3-4-4-4-	-	-	-	-	-	-3-3-3-2-	-1-	-	-	-	-	1.91
56-43.6433-109.4067-2-11-						0-W06342-06/08/77-17-	24-	12.0	-	-	-	-	6.5	280	-	5-3-4-4-4-2-2-1-1-2-4-4-2-	-1-	-	-	-	-	3.50
56-43.6111-109.4211-2-15-						0-W06343-06/08/77-17-	24-		-	-	-	-	-	-	-	2-1-4-4-4-	-	-	-	-	-	-3-2-3-2-	-1-	-	-	-	-	4.09
56-43.6044-109.4225-2-15-						0-W06344-06/08/77-17-	23-		-	-	-	-	-	-	-	3-1-4-4-4-	-	-	-	-	-	-3-2-3-2-	-1-	-	-	-	-	3.22
56-43.5775-109.4586-2-15-						0-W06345-06/08/77-18-	22-		-	-	-	-	-	-	-	2-1-4-4-4-	-	-	-	-	-	-3-2-2-2-	-1-	-	-	-	-	7.75
56-43.5256-109.4803-2-15-						0-W06346-06/08/77-18-	22-		-	-	-	-	-	-	-	6-1-4-4-4-	-	-	-	-	-	-3-2-3-2-	-1-	-	-	-	-	2.60
56-43.6128-109.6556-2-12-						0-W06347-06/09/77- 8-	22-	12.5	C	-	-	-	6.8	600	-	5-1-4-5-4-2-2-3-1-3-4-3-2-	-2-	-	-	-	-	4.89
56-43.5878-109.6303-2-12-						0-W06348-06/09/77- 9-	23-	14.0	-	-	-	-	6.5	550	-	6-1-4-5-4-2-2-3-1-3-4-3-2-	-1-	-	-	-	-	4.52
56-43.6056-109.6964-2-15-						0-W06349-06/09/77-10-	23-		-	-	-	-	-	-	-	4-1-4-4-4-	-	-	-	-	-	-3-2-3-2-	-1-	-	-	-	-	1.19
56-43.6056-109.6947-2-15-						0-W06350-06/09/77-10-	23-		-	-	-	-	-	-	-	6-1-4-4-4-	-	-	-	-	-	-3-2-3-2-	-1-	-	-	-	-	2.92
56-43.5772-109.6672-2-15-						0-W06351-06/09/77-11-	24-		-	-	-	-	-	-	-	2-1-4-4-4-	-	-	-	-	-	-3-3-3-2-	-1-	-	-	-	-	2.30
56-43.5517-109.6344-2-15-						0-W06352-06/09/77-11-	25-		-	-	-	-	-	-	-	5-1-4-4-4-	-	-	-	-	-	-2-3-2-2-	-1-	-	-	-	-	2.23
56-43.5219-109.6400-2-15-						0-W06353-06/09/77-11-	25-		-	-	-	-	-	-	-	18-1-4-4-4-	-	-	-	-	-	-3-3-2-2-	-1-	-	-	-	-	10.48
56-43.5297-109.6394-2-12-						0-W06354-06/09/77-12-	25-	11.0	-	-	-	-	7.0	650	-	7-1-4-4-4-3-3-2-1-3-4-3-2-	-1-	-	-	-	-	1.52
56-43.6792-109.5939-2-11-						0-W06355-06/07/77-11-	22-	11.5	-	-	-	-	7.2	600	-	13-4- -5-6-2-2-1-2-3-3-4-2-	-3-	-	-	-	-	1.58
56-43.6467-109.5536-2-11-						0-W06356-06/07/77-12-	18-	3.5	-	-	-	-	8.0	290	-	9-4- -3-6-3-3-1-2-3-4-4-2-	-3-	-	-	-	-	3.19
56-43.6997-109.6114-2-11-						0-W06357-06/07/77-13-	20-	13.5	-	-	-	-	8.0	340	-	4-4- -5-6-3-3-1-2-4-3-3-2-	-3-	-	-	-	-	1.46
56-43.6542-109.6142-2-12-						0-W06358-06/07/77-14-	17-	18.5	-	-	-	-	7.8	430	-	0-4- -5-6-2-3-1-2-1-2-3-2-	-3-	-	-	-	-	2.56
56-43.7097-109.6400-2-12-						0-W06359-06/07/77-15-	16-	3.5	-	-	-	-	8.0	70	-	9-4- -1-6-3-3-1-2-1-4-5-2-	-1-	-	-	-	-	2.23
56-43.7400-109.6675-2-12-						0-W06360-06/07/77-15-	22-	10.0	-	-	-	-	7.8	40	-	9-4- -2-7-4-3-1-2-1-4-4-2-	-1-	-	-	-	-	1.63
56-43.7406-109.6667-2-12-						0-W06361-06/07/77-15-	20-	7.5	-	-	-	-	7.4	18	-	9-4- -2-6-4-4-2-2-1-3-3-2-	-1-	-	-	-	-	1.54
56-43.7081-109.6875-2-12-						0-W06362-06/07/77-16-	20-	7.5	-	-	-	-	7.2	34	-	9-4- -2-6-3-4-2-2-1-3-3-4-	-1-	-	-	-	-	1.39
56-43.7022-109.6792-2-12-						0-W06363-06/07/77-17-	20-	11.0	-	-	-	-	7.6	75	-	-4- -3-6-3-3-1-2-1-3-2-2-	-1-	-	-	-	-	2.33
56-43.6961-109.6692-2-12-						0-W06364-06/07/77-17-	22-	10.0	-	-	-	-	7.6	70	-	13-4- -3-6-3-3-1-2-1-3-3-2-	-1-	-	-	-	-	1.93
56-43.6986-109.6650-2-12-						0-W06365-06/07/77-17-	22-	8.5	-	-	-	-	7.6	270	-	4-4- -3-6-3-4-2-1-1-3-3-2-	-1-	-	-	-	-	1.35
56-43.6725-109.6417-2-12-						0-W06366-06/07/77-18-	22-	12.5	-	-	-	-	7.2	44	-	13-1-4-3-6-3-3-2-2-1-2-3-2-	-1-	-	-	-	-	2.83
56-43.6258-109.8678-2-11-						0-W06367-06/08/77- 9-	18-	5.0	C	-	-	-	8.0	240	-	9-4- -3-7-3-2-1-2-1-3-5-1-	-1-	-	-	-	-	3.34
56-43.6464-109.8444-2-12-						0-W06368-06/08/77-11-	21-	11.5	-	-	-	-	8.2	430	-	9-1-4-4-6-3-3-1-2-3-3-2-2-	-3-	-	-	-	-	3.38
56-43.6561-109.8433-2-12-						0-W06369-06/08/77-11-	22-	12.0	C	-	-	-	8.4	220	-	22-1-1-4-6-2-3-2-2-4-3-2-2-	-3-	-	-	-	-	7.46
56-43.6561-109.8411-2-12-						0-W06370-06/08/77-11-	22-	10.0	-	-	-	-	8.2	360	-	9-4- -5-6-2-3-1-2-3-4-3-2-	-3-	-	-	-	-	4.59

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.4972-109.5667-2-12-						0-W06320	-5	8	-5	18	-20	23	-5	-10	-15	2	22
56-43.5139-109.5928-2-15-						0-W06321	-5	6	-5	29	-20	15	34	-10	-15	2	26
56-43.5258-109.5869-2-15-						0-W06322	-5	6	-5	12	-20	20	-5	-10	-15	1	18
56-43.5269-109.5822-2-15-						0-W06323	-5	-5	-5	10	-20	-15	-5	-10	-15	1	13
56-43.5467-109.5894-2-15-						0-W06324	-5	6	-5	17	-20	-15	-5	-10	-15	1	18
56-43.5464-109.5869-2-15-						0-W06325	-5	5	-5	13	-20	-15	-5	-10	-15	-1	19
56-43.5150-109.5592-2-15-						0-W06326	-5	8	-5	27	-20	-15	-5	-10	-15	-1	14
56-43.5072-109.5364-2-15-						0-W06327	-5	-5	-5	24	-20	18	6	-10	-15	2	25
56-43.5247-109.6189-2-15-						0-W06328	-5	7	-5	25	-20	-15	-5	-10	-15	2	28
56-43.5872-109.5572-2-15-						0-W06329	-5	7	-5	27	-20	-15	-5	-10	-15	1	16
56-43.5883-109.5444-2-15-						0-W06330	-5	-5	-5	26	-20	-15	5	-10	-15	1	20
56-43.5958-109.5117-2-15-						0-W06331	-5	-5	-5	18	-20	-15	-5	-10	-15	1	17
56-43.5644-109.4864-2-15-						0-W06332	-5	-5	-5	23	-20	33	7	-10	-15	1	24
56-43.5478-109.4750-2-15-						0-W06333	-5	5	-5	26	-20	-15	-5	-10	-15	2	18
56-43.7092-109.3592-2-12-						0-W06334	-5	7	-5	31	-20	28	6	-10	-15	2	20
56-43.7014-109.3597-2-12-						0-W06335	-5	6	-5	27	-20	32	5	-10	-15	2	15
56-43.7033-109.3533-2-12-						0-W06336	-5	-5	-5	30	-20	22	-5	-10	-15	2	14
56-43.6947-109.3531-2-12-						0-W06337	-5	-5	-5	21	-20	20	9	-10	-15	2	18
56-43.6842-109.3872-2-15-						0-W06338	-5	5	-5	26	-20	30	-5	-10	-15	2	16
56-43.7056-109.4272-2-11-						0-W06339	-5	-5	-5	52	-20	50	7	-10	-15	2	14
56-43.6497-109.3844-2-15-						0-W06340	-5	10	-5	24	-20	45	13	-10	-15	2	16
56-43.6394-109.3936-2-15-						0-W06341	-5	-5	-5	32	-20	44	14	-10	-15	1	22
56-43.6433-109.4067-2-11-						0-W06342	-5	7	-5	32	-20	26	10	-10	-15	2	16
56-43.6111-109.4211-2-15-						0-W06343	-5	7	-5	34	-20	28	10	-10	-15	2	23
56-43.6064-109.4225-2-15-						0-W06344	-5	5	-5	25	-20	22	11	-10	-15	2	25
56-43.5775-109.4586-2-15-						0-W06345	-5	-5	-5	25	-20	71	22	-10	-15	2	18
56-43.5256-109.4803-2-15-						0-W06346	-5	-5	-5	25	-20	-15	6	-10	-15	-1	16
56-43.6128-109.6556-2-12-						0-W06347	-5	-5	-5	18	-20	-15	11	-10	-15	2	20
56-43.5878-109.6303-2-12-						0-W06348	-5	-5	-5	19	-20	24	12	-10	-15	2	24
56-43.6056-109.6964-2-15-						0-W06349	-5	-5	-5	64	-20	-15	-5	-10	-15	2	11
56-43.6056-109.6947-2-15-						0-W06350	-5	-5	-5	38	-20	-15	8	-10	-15	1	24
56-43.5772-109.6672-2-15-						0-W06351	-5	-5	-5	12	-20	-15	7	-10	-15	-1	20
56-43.5517-109.6344-2-15-						0-W06352	-5	-5	-5	19	-20	-15	-5	-10	-15	1	19
56-43.5219-109.6400-2-15-						0-W06353	-5	-5	-5	25	-20	-15	13	-10	-15	2	23
56-43.5297-109.6394-2-12-						0-W06354	-5	-5	-5	37	-20	42	7	-10	-15	2	18
56-43.6792-109.5939-2-11-						0-W06355	-5	-5	-5	16	-20	16	8	-10	-15	2	20
56-43.6467-109.5536-2-11-						0-W06356	-5	-5	-5	25	-20	-15	20	-10	-15	2	19
56-43.6997-109.6114-2-11-						0-W06357	-5	-5	-5	36	-20	45	-5	-10	-15	2	18
56-43.6542-109.6142-2-12-						0-W06358	-5	-5	-5	42	-20	30	22	-10	-15	2	28
56-43.7097-109.6400-2-12-						0-W06359	-5	6	-5	21	-20	35	11	-10	-15	2	28
56-43.7400-109.6675-2-12-						0-W06360	-5	-5	-5	28	-20	59	7	-10	-15	2	24
56-43.7406-109.6667-2-12-						0-W06361	-5	-5	-5	33	-20	42	-5	-10	-15	2	20
56-43.7081-109.6875-2-12-						0-W06362	-5	-5	-5	45	-20	72	6	-10	-15	2	23
56-43.7022-109.6792-2-12-						0-W06363	-5	-5	-5	20	-20	36	19	-10	-15	2	18
56-43.6961-109.6692-2-12-						0-W06364	-5	-5	-5	33	-20	57	7	-10	-15	2	27
56-43.6986-109.6650-2-12-						0-W06365	-5	-5	-5	25	-20	57	5	-10	-15	2	19
56-43.6725-109.6417-2-12-						0-W06366	-5	-5	-5	25	-20	-15	11	-10	-15	2	25
56-43.6258-109.8678-2-11-						0-W06367	-5	5	-5	38	-20	24	5	-10	-15	2	27
56-43.6464-109.8444-2-12-						0-W06368	-5	7	-5	20	-20	17	8	-10	-15	3	31
56-43.6561-109.8433-2-12-						0-W06369	-5	10	-5	10	-20	16	11	-10	-15	2	21
56-43.6561-109.8411-2-12-						0-W06370	-5	-5	-5	18	-20	-15	8	-10	-15	2	29

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS												
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Concentrations reported in weight parts per million (ppm)												
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.4972-109.5667-2-12-					0	W06320	42850	-0.40	359	34010	79	-78	6.9	67	2.2	5	1.2	21660	18.0	19030		1.1
56-43.5139-109.5928-2-15-					0	W06321	55540	-0.46	442	16910	72	-77	8.8	56	-2.0	4	1.1	20830	12.7	19520		0.9
56-43.5258-109.5869-2-15-					0	W06322	35400	-0.31	375	59360	62	59	4.8	71	1.4	3	1.0	12130	11.4	15830		0.3
56-43.5269-109.5822-2-15-					0	W06323	27180	-0.25	421	63470	71	87	2.9	84	-1.1	4	0.9	7687	12.5	13220		0.3
56-43.5467-109.5894-2-15-					0	W06324	38560	-0.38	330	60760	51	-64	4.5	62	-1.6	4	1.1	14320	11.6	14910		0.7
56-43.5464-109.5869-2-15-					0	W06325	36080	-0.34	282	56380	44	-54	5.4	64	-1.5	3	0.9	12760	9.4	15170		0.6
56-43.5150-109.5592-2-15-					0	W06326	27820	-0.27	347	60700	45	-49	3.1	62	-1.2	3	0.8	9030	10.1	15990		0.3
56-43.5072-109.5364-2-15-					0	W06327	69290	-0.08	1085	29420	105	-91	14.3	93	-1.9	6	1.8	35900	24.0	17690	70	0.5
56-43.5247-109.6189-2-15-					0	W06328	45430	-0.06	727	50110	69	102	7.3	59	2.5	5	1.4	19050	16.7	17060	37	0.5
56-43.5872-109.5572-2-15-					0	W06329	43120	-0.06	684	53430	97	172	4.3	50	-1.4	4	1.4	15550	17.0	12400	62	0.4
56-43.5883-109.5444-2-15-					0	W06330	47040	-0.07	663	56910	45	182	7.0	67	-1.7	3	1.2	17560	6.8	16620	29	0.2
56-43.5858-109.5117-2-15-					0	W06331	39010	-0.05	525	65440	51	-59	3.9	56	-1.1	3	1.0	10290	9.8	11130	30	0.3
56-43.5644-109.4864-2-15-					0	W06332	57510	-0.06	524	70600	78	138	6.0	121	2.5	4	1.2	16700	8.7	14530	38	0.3
56-43.5478-109.4750-2-15-					0	W06333	37530	-0.06	507	50910	65	66	5.0	45	2.9	3	1.6	12970	10.6	15060	37	0.3
56-43.7092-109.3592-2-12-					0	W06334	81950	-0.10	1270	40840	58	-103	16.5	127	-2.6	3	1.8	39970	3.8	12480	49	-0.2
56-43.7014-109.3597-2-12-					0	W06335	88480	-0.08	1476	41900	74	-106	19.4	98	-2.2	3	1.8	42670	3.3	16340	43	-0.1
56-43.7033-109.3533-2-12-					0	W06336	91180	-0.08	1343	45050	87	-122	16.4	109	-2.0	2	1.6	39000	3.6	14600	45	0.1
56-43.6947-109.3531-2-12-					0	W06337	88310	-0.10	1272	44180	76	-106	20.3	126	-2.5	2	1.9	48540	4.4	11290	51	-0.2
56-43.6842-109.3872-2-15-					0	W06338	84680	-0.10	1309	36050	55	-112	21.8	122	-2.5	2	1.8	41720	3.7	9397	44	-0.2
56-43.7056-109.4272-2-11-					0	W06339	70060	-0.10	812	59670	45	-103	30.8	617	-2.7	2	1.5	71270	2.8	13080	35	-0.1
56-43.6497-109.3844-2-15-					0	W06340	82230	-0.09	1092	35440	223	-119	17.7	177	-2.1	6	1.8	45760	18.7	15730	113	0.7
56-43.6394-109.3936-2-15-					0	W06341	80740	-0.09	894	26740	70	-98	19.2	114	-2.3	2	1.5	35530	6.1	13630	45	0.3
56-43.6433-109.4067-2-11-					0	W06342	74320	-0.06	977	28100	121	-112	15.8	142	-1.9	4	1.7	36110	11.3	15430	62	0.3
56-43.6111-109.4211-2-15-					0	W06343	62800	-0.05	1362	36990	118	-81	13.0	133	3.1	4	1.8	35760	13.7	19080	73	0.4
56-43.6064-109.4225-2-15-					0	W06344	65030	-0.06	1211	34430	101	-92	11.2	124	3.0	4	2.2	30130	10.2	17150	49	0.3
56-43.5775-109.4586-2-15-					0	W06345	56240	-0.05	475	35450	244	-88	9.3	484	-1.8	7	2.1	32680	31.2	20640	142	0.6
56-43.5256-109.4803-2-15-					0	W06346	27340	-0.03	504	58490	53	75	3.7	50	1.9	3	1.1	11170	8.3	11660	27	0.3
56-43.6128-109.6556-2-12-					0	W06347	44560	-0.04	825	32030	107	-70	7.3	78	3.2	5	1.7	21350	24.0	15180	65	0.4
56-43.5878-109.6303-2-12-					0	W06348	48860	-0.05	814	35750	119	-84	7.3	94	3.3	5	1.6	21310	21.4	16690	61	0.4
56-43.6056-109.6964-2-15-					0	W06349	71790	-0.07	829	59290	61	-118	28.1	168	-2.7	2	1.4	69030	2.2	13990	28	0.2
56-43.6056-109.6947-2-15-					0	W06350	35980	-0.04	496	46240	59	145	5.4	58	2.3	4	1.0	15850	10.0	17620	34	0.4
56-43.5772-109.6672-2-15-					0	W06351	28790	-0.03	512	42560	44	87	4.9	54	2.0	4	1.2	13670	7.3	13120	28	0.3
56-43.5517-109.6344-2-15-					0	W06352	31040	-0.04	514	45460	43	62	3.6	44	-1.3	3	1.1	10940	7.2	16310	23	0.3
56-43.5219-109.6400-2-15-					0	W06353	44780	-0.05	596	16370	217	126	6.8	103	-1.6	13	2.9	25100	68.7	23150	127	1.3
56-43.5297-109.6394-2-12-					0	W06354	75660	-0.06	1285	44150	56	-107	27.1	326	-2.0	2	1.2	62640	4.6	13790	38	0.2
56-43.6792-109.5939-2-11-					0	W06355	80160	-0.05	1393	45470	68	-111	14.9	77	-1.6	2	1.2	34810	4.4	14290	35	0.1
56-43.6467-109.5536-2-11-					0	W06356	56120	-0.05	1250	37840	102	135	7.9	87	-1.8	5	1.6	24570	12.8	27030	52	0.4
56-43.6997-109.6114-2-11-					0	W06357	87470	-0.08	1291	45780	48	-110	14.5	168	-1.7	2	1.1	30560	3.0	11270	25	-0.1
56-43.6542-109.6142-2-12-					0	W06358	65510	-0.12	973	35210	57	-103	10.6	75	-2.5	3	1.4	27180	5.6	18390	34	0.3
56-43.7097-109.6400-2-12-					0	W06359	80160	-0.11	1151	38260	58	-108	19.5	153	-2.5	2	1.6	37120	4.3	13930	36	-0.2
56-43.7400-109.6675-2-12-					0	W06360	84560	-0.10	1229	41270	100	-121	23.8	159	-2.1	2	1.5	54460	3.9	13210	46	0.2
56-43.7404-109.6667-2-12-					0	W06361	80490	-0.08	959	45080	49	-103	19.7	137	-1.8	2	1.1	37630	3.2	9916	35	-0.1
56-43.7081-109.6875-2-12-					0	W06362	80360	-0.12	1239	46380	55	-107	23.8	187	-2.5	2	1.2	41270	3.4	10870	41	-0.2
56-43.7022-109.6792-2-12-					0	W06363	80220	-0.05	1345	39670	73	-111	15.6	147	-1.9	2	1.5	35010	5.8	11450	34	0.1
56-43.6961-109.6692-2-12-					0	W06364	83830	-0.11	1343	42200	71	-128	22.7	234	-2.4	2	1.5	45360	5.1	13460	31	-0.2
56-43.6986-109.6650-2-12-					0	W06365	76290	-0.08	1144	44840	59	-104	22.1	191	-1.8	2	1.2	41060	2.5	9372	33	-0.1
56-43.6725-109.6417-2-12-					0	W06366	63600	-0.10	1044	29260	57	-77	8.7	93	-2.1	3	1.4	26490	9.5	16340	40	0.2
56-43.6258-109.8678-2-11-					0	W06367	58640	-0.10	812	19860	54	-86	8.9	92	2.4	4	1.3	18410	9.3	15550	37	0.3
56-43.6464-109.8444-2-12-					0	W06368	70800	-0.08	950	23560	86	-103	7.8	74	1.9	4	1.7	22130	13.1	17320	46	0.3
56-43.6561-109.8433-2-12-					0	W06369	57920	-0.07	1041	21660	146	-83	6.8	72	2.7	8	1.8	25320	36.0	15040	89	0.7
56-43.6561-109.8411-2-12-					0	W06370	62280	-0.10	806	14310	50	-86	5.9	48	4.7	4	1.4	18620	6.9	20740	34	0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.4972-109.5667-2-12-			0-	W	06330		24610	836	6694	-38		6.7	9.7	-323	-1	-1	25.7	3007	44		-52	0.261
56-43.5139-109.5928-2-15-			0-	W	06321		17050	429	10510	-46		6.5		-245	-2	-1	20.8	3147	54		75	0.181
56-43.5258-109.5869-2-15-			0-	W	06322		32390	319	5109	-30		4.4		-187	-1	-1	17.4	2042	31	7.6	32	0.186
56-43.5269-109.5922-2-15-			0-	W	06323		31950	222	4941	38		2.7	11.0	-159	-1	-1	23.6	1657	18	5.6	32	0.122
56-43.5467-109.5894-2-15-			0-	W	06324		34430	318	4792	69		5.1		-225	-2	-1	15.1	2236	30		-30	0.191
56-43.5464-109.5869-2-15-			0-	W	06325		32350	306	4749	-35		4.5		-187	-1	-1	14.6	2165	32	-3.9	-31	0.206
56-43.5150-109.5592-2-15-			0-	W	06326		30190	220	4611	-25		3.1		-165	-1	-1	15.3	1671	23	6.1	-29	0.186
56-43.5072-109.5364-2-15-			0-	W	06327		19800	598	17320	71	-2	10.8	6.3	436	-1	-1	17.0	7133	112	3.6	103	0.268
56-43.5247-109.6189-2-15-			0-	W	06328		23390	442	5695	-22	-2	7.0	5.4	-260	1	-1	17.2	3069	57	3.1	-24	0.160
56-43.5872-109.5572-2-15-			0-	W	06329		31940	276	9958	-25	-1	4.2	6.1	262	-1	-1	21.3	2311	38	4.0	-21	0.131
56-43.5883-109.5444-2-15-			0-	W	06330		27270	359	7775	62	-2	5.6	3.4	-209	-1	-1	11.2	3159	45	1.8	38	0.204
56-43.5858-109.5117-2-15-			0-	W	06331		35640	270	8489	-19	-1	3.6	3.3	313	-1	-1	12.5	2287	29	2.9	-26	0.186
56-43.5644-109.4864-2-15-			0-	W	06332		46080	360	6211	-22	-1	4.9	6.2	-245	-1	-1	18.9	2294	34	2.2	27	0.122
56-43.5478-109.4750-2-15-			0-	W	06333		29820	304	3301	45	-1	4.6	4.2	-176	-1	-1	15.0	1872	38	2.9	53	0.201
56-43.7092-109.3592-2-12-			0-	W	06334		30440	605	19090	-43	-3	11.7	2.5	749	-2	-1	6.6	5339	143	-2.3	-62	0.285
56-43.7014-109.3597-2-12-			0-	W	06335		29850	608	21590	-36	-2	12.4	4.1	1098	-1	-1	6.7	5016	135	-1.9	125	0.278
56-43.7033-109.3533-2-12-			0-	W	06336		29650	568	22060	-32	-2	11.8	4.7	854	-1	-1	7.4	4512	136	2.3		0.250
56-43.6947-109.3531-2-12-			0-	W	06337		27770	555	21510	-39	-3	14.3	4.5	914	-1	-1	7.8	4480	148	-2.3	55	0.208
56-43.6842-109.3872-2-15-			0-	W	06338		35290	911	20080	-42	-3	12.8	3.2	1324	-2	-1	6.2	4876	149	-2.3	-95	0.242
56-43.7056-109.4272-2-11-			0-	W	06339		55850	1012	18560	-39	-3	30.2	3.6	718	-2	-1	4.1	8125	316	-2.2	-50	0.280
56-43.6497-109.3844-2-15-			0-	W	06340		23740	717	20530	-34	-2	11.9	12.6	643	-2	-1	79.1	6711	158	6.0	-40	0.072
56-43.6394-109.3936-2-15-			0-	W	06341		25470	506	20140	42	-2	11.3	4.3	381	-1	-1	12.7	3174	89	-2.0	-51	0.150
56-43.6433-109.4067-2-11-			0-	W	06342		20950	818	19790	79	-1	11.1	6.3	596	-2	-1	29.4	4411	91	4.4	-49	0.119
56-43.6111-109.4211-2-15-			0-	W	06343		26960	573	10700	-28	-1	9.6	8.4	394	-1	-1	34.0	4364	87	3.2	94	0.120
56-43.6064-109.4225-2-15-			0-	W	06344		24600	539	10870	59	-1	8.7	7.1	-318	-2	-1	18.9	3914	72	3.0	-23	0.170
56-43.5775-109.4586-2-15-			0-	W	06345		21580	427	12990	55	-1	7.4	17.2	-265	-2	-1	101.6	2940	68	10.3	43	0.076
56-43.5256-109.4803-2-15-			0-	W	06346		29260	281	4537	37	-1	3.1	4.8	-177	-1	-1	12.0	1707	37	2.2	-14	0.217
56-43.6128-109.6556-2-12-			0-	W	06347		19740	562	8241	65	-1	6.4	8.8	372	-1	1	28.0	4221	61	3.8	110	0.175
56-43.5878-109.6303-2-12-			0-	W	06348		21650	534	8272	54	-1	6.6	10.2	-303	-2	-1	27.9	4719	66	4.8	-64	0.162
56-43.6056-109.6964-2-15-			0-	W	06349		52320	978	19190	-39	-2	29.6	4.1	853	-2	-1	4.4	4871	265	-1.7	-57	0.270
56-43.6056-109.6947-2-15-			0-	W	06350		26180	347	5218	51	-1	5.5	4.7	-211	-1	1	10.4	2991	38	2.7	84	0.281
56-43.5772-109.6672-2-15-			0-	W	06351		21640	301	4515	39	-1	4.4	4.4	-192	-1	-1	9.4	2437	34	2.1	59	0.245
56-43.5517-109.6344-2-15-			0-	W	06352		27600	299	4666	45	-1	3.8	3.7	-220	-1	-1	7.5	2491	28	2.4	59	0.297
56-43.5219-109.6400-2-15-			0-	W	06353		12920	204	5377	59	-1	10.1	17.0	-179	-1	2	80.6	3870	51	11.6	41	0.130
56-43.5297-109.6394-2-12-			0-	W	06354		40590	773	20840	40	-1	16.2	4.7	921	-1	-1	6.6	6155	227	-1.3	110	0.230
56-43.6792-109.5939-2-11-			0-	W	06355		24830	501	24360	-28	-1	9.0	3.3	1225	-1	-1	7.0	4257	87	1.9	73	0.226
56-43.6467-109.5536-2-11-			0-	W	06356		24180	411	11050	73	-1	6.4	7.9	484	-1	-1	27.7	3458	70	4.1	126	0.115
56-43.6997-109.6114-2-11-			0-	W	06357		31900	473	25180	-30	-2	10.3	1.9	1127	-1	-1	3.6	4358	132	-1.8	-14	0.406
56-43.6542-109.6142-2-12-			0-	W	06358		22470	1057	13240	63	-3	8.4	2.5	662	-2	-1	7.9	3447	80	-2.6	147	0.324
56-43.7097-109.6400-2-12-			0-	W	06359		37550	659	19760	-43	-3	13.0	3.8	841	-2	-1	8.0	4571	113	-2.4	-56	0.279
56-43.7400-109.6675-2-12-			0-	W	06360		38210	746	21810	-36	-2	14.0	4.7	1503	-1	-1	6.5	5588	179	-2.1	-48	0.251
56-43.7406-109.6667-2-12-			0-	W	06361		40420	668	21340	39	-2	12.3	2.9	855	-1	-1	5.5	4796	157	-1.7	-98	0.280
56-43.7081-109.6875-2-12-			0-	W	06362		47990	669	22510	-43	-3	14.6	3.1	971	-1	-1	5.7	4313	129	-2.5	48	0.244
56-43.7022-109.6792-2-12-			0-	W	06363		29860	504	21710	-31	-1	12.6	3.5	1015	-1	-1	6.9	3832	99	1.9	-74	0.338
56-43.6961-109.6692-2-12-			0-	W	06364		43080	692	21680	-41	-3	15.4	3.9	848	-1	-1	5.7	6177	131	-2.4	-70	0.339
56-43.6986-109.6650-2-12-			0-	W	06365		45840	696	21420	-30	-2	12.8	3.3	1028	-1	-1	4.6	4010	166	-1.6	84	0.293
56-43.6725-109.6417-2-12-			0-	W	06366		20610	435	12100	-37	-3	8.2	3.3	624	-1	-1	10.2	4103	82	-1.9	-50	0.277
56-43.6258-109.6678-2-11-			0-	W	06367		17330	416	14260	-36	-2	7.2	3.9	660	-2	-1	9.6	3720	57	2.8	-31	0.348
56-43.6464-109.8444-2-12-			0-	W	06368		19590	592	17160	-28	-2	7.4	7.2	440	-1	-1	12.5	3442	65	3.1	-36	0.270
56-43.6561-109.8433-2-12-			0-	W	06369		12050	597	13870	52	-2	6.7	9.1	-260	-1	-1	23.5	6992	90	6.7	-33	0.317
56-43.6561-109.8411-2-12-			0-	W	06370		13750	475	13680	68	-3	6.2	3.0	345	-1	-1	10.1	3409	46	-2.0	116	0.454

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.7256-109.8308-2-12-						0-W06372-06/08/77-12-	23-	8.5-	-	-			8.6-	28-		18-1-4-3-7-4-3-1-2-2-2-3-2-				-3-	-	-	-	-	-							1.41
56-43.6908-109.8100-2-12-						0-W06373-06/08/77-13-	24-	16.0-	-	-			8.6-	42-		9-4-	-3-6-3-3-1-2-2-3-3-2-			-3-	-	-	-	-	-							2.97
56-43.7092-109.7853-2-12-						0-W06374-06/08/77-13-	24-	12.0-	C-	-			8.4-	38-		4-4-	-3-6-3-3-1-2-1-3-3-2-			-1-	-	-	-	-	-							1.66
56-43.7086-109.7881-2-15-						0-W06375-06/08/77-14-	24-	-	-	-			-	-		13-4-	-5-6-	-	-	-	-2-3-3-2-													2.68
56-43.6964-109.7942-2-12-						0-W06376-06/08/77-14-	22-	11.5-	-	-			8.2-	32-		18-1-6-3-6-4-3-2-2-1-3-3-2-				-3-	-	-	-	-	-							2.15
56-43.6539-109.7639-2-15-						0-W06377-06/08/77-15-	23-	-	-	-			-	-		13-4-	-5-6-	-	-	-	-3-3-3-2-													2.34
56-43.6731-109.7717-2-12-						0-W06378-06/08/77-15-	20-	16.5-	-	-			8.8-	140-		13-4-	-3-7-3-3-1-2-1-3-3-2-			-3-	-	-	-	-	-							1.78
56-43.6825-109.7564-2-11-						0-W06379-06/08/77-16-	20-	3.5-	-	-			8.2-	125-		9-4-	-4-6-3-3-1-2-1-3-2-2-			-3-	-	-	-	-	-							2.11
56-43.6922-109.7389-2-12-						0-W06380-06/08/77-16-	22-	10.5-	-	-			8.4-	90-		9-4-	-3-6-3-3-3-2-1-3-3-2-			-3-	-	-	-	-	-							1.45
56-43.5778-109.7372-2-15-						0-W06381-06/08/77-17-	23-		-C-	-			-	-		22-1-4-4-4-	-	-	-2-3-3-3-2-													2.77
56-43.5708-109.7067-2-15-						0-W06382-06/08/77-18-	20-		-	-			-	-		13-1-4-4-4-	-	-	-2-3-2-2-2-													5.26
56-43.6667-109.5503-2-12-						0-W06383-06/09/77-10-	20-	7.5-	-	-			7.8-	430-		22-2-6-3-7-3-3-1-2-1-3-4-2-				-1-	-	-	-	-	-							1.84
56-43.6575-109.6544-2-12-						0-W06384-06/09/77-11-	23-	11.5-	-	-			8.4-	150-		13-1-1-3-6-3-3-1-2-2-3-3-2-				-3-	-	-	-	-	-							2.36
56-43.6586-109.6939-2-11-						0-W06385-06/09/77-12-	20-	14.5-	-	-			7.6-	600-		18-4-	-4-4-2-3-1-2-2-3-3-2-			-3-	-	-	-	-	-							2.22
56-43.6781-109.7264-2-15-						0-W06386-06/09/77-13-	15-		-	-			-	-		22-4-	-5-6-	-	-	-	-2-3-3-4-													4.01
56-43.6525-109.7164-2-12-						0-W06387-06/09/77-14-	22-	7.5-	-	-			8.2-	80-		9-4-	-3-6-3-3-1-2-2-3-3-2-			-3-	-	-	-	-	-							1.83
56-43.6533-109.7206-2-12-						0-W06388-06/09/77-14-	20-	8.0-	-	-			8.2-	140-		13-4-	-3-6-3-3-1-2-2-3-3-2-			-3-	-	-	-	-	-							2.18
56-43.6258-109.7247-2-12-						0-W06389-06/09/77-15-	20-	10.0-	-	-			8.0-	220-		18-4-	-5-6-3-3-1-2-2-3-3-3-2-			-3-	-	-	-	-	-							2.51
56-43.6281-109.6542-2-12-						0-W06390-06/09/77-15-	19-	15.0-	-	-			8.0-	550-		9-4-	-5-6-3-3-2-2-3-3-2-4-			-3-	-	-	-	-	-							2.70
56-43.6356-109.5922-2-15-						0-W06391-06/09/77-16-	18-		-C-	-			-	-		27-1-4-3-6-	-	-	-2-3-3-4-3-													5.17
56-43.6256-109.5969-2-15-						0-W06392-06/09/77-16-	17-		-C-	-			-	-		13-4-	-3-6-	-	-	-2-2-2-2-3-													2.74
56-43.6211-109.6058-2-12-						0-W06393-06/09/77-16-	17-	14.0-	-	-			8.4-	900-		13-4-	-5-6-2-3-2-2-2-3-3-3-			-3-	-	-	-	-	-							2.82
56-43.6125-109.6100-2-12-						0-W06394-06/09/77-17-	17-	16.5-	-	-			8.4-	500-		13-4-	-3-4-2-3-2-2-2-3-3-4-			-3-	-	-	-	-	-							3.50
56-43.5431-109.6728-2-12-						0-W06395-06/09/77-12-	26-	12.0-	-	-			6.8-	650-		7-1-4-4-4-2-2-2-1-2-3-3-2-				-1-	-	-	-	-	-							4.36
56-43.5394-109.7358-2-12-						0-W06396-06/09/77-13-	26-	11.5-	-	-			7.0-	600-		4-1-4-4-4-3-3-1-1-2-4-3-2-				-1-	-	-	-	-	-							3.53
56-43.6161-109.4719-2-12-						0-W06397-06/09/77-14-	24-	10.0-	-	-			6.3-	120-		6-1-6-5-6-3-3-3-2-2-3-4-3-				-1-	-	-	-	-	-							1.68
56-43.6292-109.4803-2-12-						0-W06398-06/09/77-14-	25-	12.0-	-	-			5.9-	150-		10-1-6-5-6-3-3-2-1-3-4-3-3-				-1-	-	-	-	-	-							1.81
56-43.6319-109.4592-2-11-						0-W06399-06/09/77-15-	23-	10.5-	-	-			5.9-	110-		12-1-6-5-6-2-2-2-3-3-5-4-4-				-1-	-	-	-	-	-							1.72
56-43.5461-109.8094-2-12-						0-W06400-06/08/77-14-	19-	12.0-	-	-			5.7-	155-		9-4-	-5-6-3-3-1-2-1-3-4-2-			-1-	-	-	-	-	-							4.55
56-43.5450-109.8075-2-12-						0-W06401-06/08/77-14-	18-	9.0-	-	-			5.5-	55-		6-2-7-1-7-4-4-1-2-1-3-4-2-				-1-	-	-	-	-	-							4.29
56-43.5308-109.7783-2-12-						0-W06402-06/08/77-15-	18-	12.0-	-	-			5.5-	50-		15-2-7-2-7-3-3-1-2-1-3-3-2-				-1-	-	-	-	-	-							4.95
56-43.5081-109.8436-2-11-						0-W06403-06/08/77-15-	13-	11.5-	-	-			5.5-	125-		9-4-	-6-6-2-3-1-2-6-3-3-4-			-1-	-	-	-	-	-							3.32
56-43.5158-109.8617-2-11-						0-W06404-06/08/77-16-	13-	11.0-	-	-			5.5-	130-		9-4-	-6-6-2-3-1-2-6-4-3-4-			-1-	-	-	-	-	-							4.81
56-43.5725-109.8136-2-11-						0-W06405-06/08/77-16-	18-	15.5-	-	-			6.5-	440-		2-4-	-6-8-1-3-5-1-6-4-1-2-			-1-	-	-	-	-	-							5.01
56-43.5814-109.7694-2-15-						0-W06406-06/08/77-16-	19-		-	-			-	-		13-1-1-5-1-	-1-	-2-3-2-4-2-		-3-	-	-	-	-	-							4.03
56-43.5864-109.7656-2-15-						0-W06407-06/08/77-17-	17-		-	-			-	-		4-1-4-5-6-	-1-	-2-3-2-3-3-		-3-	-	-	-	-	-							3.11
56-43.6081-109.8358-2-12-						0-W06408-06/09/77-10-	17-	10.0-	-	-			5.9-	510-		0-3-7-5-8-3-3-1-2-4-4-3-2-				-3-	-	-	-	-	-							3.11
56-43.5883-109.8539-2-15-						0-W06409-06/09/77-11-	18-		-	-			-	-		4-1-1-5-6-	-1-	-2-3-2-2-2-		-3-	-	-	-	-	-							3.41
56-43.5875-109.8522-2-15-						0-W06410-06/09/77-11-	18-		-	-			-	-		15-1-1-5-6-	-1-	-2-3-2-3-2-		-3-	-	-	-	-	-							4.18
56-43.5894-109.8428-2-12-						0-W06411-06/09/77-11-	20-	23.0-	-	-			6.5-	800-		4-1-1-6-6-2-2-1-1-4-4-1-2-				-3-	-	-	-	-	-							0.43
56-43.7206-109.9725-2-12-						0-W06412-06/10/77-10-	16-	6.0-	-	-			6.0-	220-		13-3-7-5-6-3-2-1-2-1-3-3-2-				-1-	-	-	-	-	-							2.81
56-43.7242-109.9831-2-12-						0-W06413-06/10/77-11-	16-	6.5-	-	-			5.7-	55-		9-4-	-2-7-4-3-2-2-1-3-4-2-			-1-	-	-	-	-	-							2.31
56-43.7011-109.9831-2-12-						0-W06414-06/10/77-12-	16-	6.5-	-	-			5.7-	70-		18-4-	-2-6-3-3-1-2-3-3-3-3-			-1-	-	-	-	-	-							4.49
56-43.7014-109.9814-2-12-						0-W06415-06/10/77-12-	16-	9.0-	-	-			5.7-	65-		22-4-	-1-1-4-3-3-2-3-4-3-3-			-1-	-	-	-	-	-							2.56
56-43.6872-109.9689-2-12-						0-W06416-06/10/77-12-	14-	7.5-	-	-			6.0-	55-		6-4-	-2-6-4-3-1-2-3-4-3-4-			-1-	-	-	-	-	-							3.41
56-43.6414-109.9214-2-15-						0-W06417-06/10/77-10-	18-		-	-			-	-		4-1-7-4-6-	-	-	- -3-3-2-2-													3.04
56-43.6306-109.9219-2-12-						0-W06418-06/10/77-10-	19-	8.0-	-	-			6.7-	90-		4-1-7-5-6-3-2-2-1-1-3-2-2-				-1-	-	-	-	-	-							2.11
56-43.6297-109.9208-2-12-						0-W06419-06/10/77-11-	20-	6.0-	-	-			6.8-	255-		6-1-7-5-6-2-2-1-2-1-3-2-2-				-1-	-	-	-	-	-							4.07
56-43.6622-109.9856-2-11-						0-W06420-06/10/77-12-	19-	6.0-	-	-			6.3-	70-		6-3-7-4-6-3-3-2-2-1-4-3-4-				-1-	-	-	-	-	-							4.11
56-43.6653-109.9653-2-12-						0-W06421-06/10/77-12-	20-	7.5-	-	-			6.4-	70-		15-3-7-5-6-3-3-2-2-3-3-3-4-				-1-	-	-	-	-	-							3.06

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.7128-109.8375-2-12-						0-W06371	-5	-5	-5	32	-20	15	9	-10	-15	3	29
56-43.7256-109.8308-2-12-						0-W06372	-5	-5	-5	27	-20	56	-5	-10	-15	2	16
56-43.6908-109.8100-2-12-						0-W06373	-5	-5	-5	21	-20	-15	-5	-10	-15	2	34
56-43.7092-109.7853-2-12-						0-W06374	-5	-5	-5	28	-20	75	16	-10	-15	2	26
56-43.7086-109.7881-2-15-						0-W06375	-5	-5	-5	26	-20	30	-5	-10	-15	2	19
56-43.6964-109.7942-2-12-						0-W06376	-5	-5	-5	35	-20	49	11	-10	-15	2	27
56-43.6530-109.7639-2-15-						0-W06377	-5	-5	-5	26	-20	28	7	-10	-15	2	23
56-43.6731-109.7717-2-12-						0-W06378	-5	-5	-5	24	-20	37	16	-10	-15	2	21
56-43.6825-109.7564-2-11-						0-W06379	-5	-5	-5	23	-20	33	9	-10	-15	2	29
56-43.6922-109.7389-2-12-						0-W06380	-5	-5	-5	39	-20	57	16	-10	-15	2	26
56-43.5778-109.7372-2-15-						0-W06381	-5	-5	-5	14	-20	-15	13	-10	-15	2	22
56-43.5708-109.7067-2-15-						0-W06382	-5	-5	-5	17	-20	-15	7	-10	-15	1	13
56-43.6667-109.5503-2-12-						0-W06383	-5	6	-5	30	-20	29	18	-10	-15	2	25
56-43.6575-109.6544-2-12-						0-W06384	-5	-5	-5	37	-20	22	18	-10	-15	2	20
56-43.6586-109.6939-2-11-						0-W06385	-5	-5	-5	36	-20	59	11	-10	-15	2	31
56-43.6781-109.7264-2-15-						0-W06386	-5	5	-5	30	-20	-15	18	-10	-15	3	30
56-43.6525-109.7164-2-12-						0-W06387	-5	-5	-5	26	-20	51	-5	-10	-15	3	24
56-43.6533-109.7206-2-12-						0-W06388	-5	-5	-5	27	-20	20	8	-10	-15	2	27
56-43.6258-109.7247-2-12-						0-W06389	-5	7	-5	21	-20	-15	-5	-10	-15	2	25
56-43.6281-109.6542-2-12-						0-W06390	-5	-5	-5	32	-20	19	8	-10	-15	2	40
56-43.6356-109.5922-2-15-						0-W06391	-5	5	-5	22	-20	-15	8	-10	-15	2	21
56-43.6256-109.5969-2-15-						0-W06392	-5	6	-5	16	-20	-15	15	-10	-15	2	23
56-43.6211-109.6058-2-12-						0-W06393	-5	-5	-5	24	-20	-15	5	-10	-15	2	40
56-43.6125-109.6100-2-12-						0-W06394	-5	-5	-5	14	-20	-15	-5	-10	-15	1	24
56-43.5431-109.6728-2-12-						0-W06395	-5	9	-5	16	-20	-15	-5	-10	-15	1	20
56-43.5394-109.7358-2-12-						0-W06396	-5	-5	-5	24	-20	19	11	-10	-15	2	38
56-43.6161-109.4719-2-12-						0-W06397	-5	-5	-5	29	-20	48	5	-10	-15	2	21
56-43.6292-109.4803-2-12-						0-W06398	-5	-5	-5	35	-20	34	-5	-10	-15	2	21
56-43.6319-109.4592-2-11-						0-W06399	-5	-5	-5	28	-20	46	13	-10	-15	2	21
56-43.5461-109.8094-2-12-						0-W06400	-5	5	-5	16	-20	-15	6	-10	-15	2	31
56-43.5450-109.8075-2-12-						0-W06401	-5	8	-5	20	-20	-15	-5	-10	-15	2	43
56-43.5308-109.7783-2-12-						0-W06402	-5	-5	-5	23	-20	-15	-5	-10	-15	2	34
56-43.5081-109.8436-2-11-						0-W06403	-5	-5	-5	20	-20	-15	8	-10	-15	2	20
56-43.5158-109.8617-2-11-						0-W06404	-5	-5	-5	20	-20	16	-5	-10	-15	2	24
56-43.5725-109.8136-2-11-						0-W06405	-5	-5	-5	29	-20	-15	5	-10	-15	1	27
56-43.5814-109.7694-2-15-						0-W06406	-5	6	-5	22	-20	-15	9	-10	-15	2	50
56-43.5864-109.7656-2-15-						0-W06407	-5	-5	-5	16	-20	25	8	-10	-15	2	28
56-43.6081-109.8358-2-12-						0-W06408	-5	-5	-5	-10	-20	20	-5	-10	-15	2	25
56-43.5883-109.8539-2-15-						0-W06409	-5	6	-5	38	-20	-15	5	-10	-15	2	70
56-43.5875-109.8522-2-15-						0-W06410	-5	7	-5	23	-20	21	10	-10	-15	2	61
56-43.5894-109.8428-2-12-						0-W06411	-5	-5	-5	11	-20	-15	-5	-10	-15	-1	5
56-43.7206-109.9725-2-12-						0-W06412	-5	-5	-5	32	-20	24	9	-10	-15	3	31
56-43.7242-109.9831-2-12-						0-W06413	-5	-5	-5	37	-20	50	6	-10	-15	2	29
56-43.7011-109.9831-2-12-						0-W06414	-5	5	-5	-10	-20	-15	9	-10	-15	2	32
56-43.7014-109.9814-2-12-						0-W06415	-5	-5	-5	26	-20	-15	8	-10	-15	2	35
56-43.6872-109.9689-2-12-						0-W06416	-5	5	-5	23	-20	17	5	-10	-15	2	30
56-43.6414-109.9214-2-15-						0-W06417	-5	-5	-5	23	-20	34	7	-10	-15	2	26
56-43.6306-109.9219-2-12-						0-W06418	-5	-5	-5	20	-20	29	5	-10	-15	2	23
56-43.6297-109.9208-2-12-						0-W06419	-5	8	-5	20	-20	15	9	-10	-15	2	28
56-43.6622-109.9856-2-11-						0-W06420	-5	5	-5	27	-20	-15	11	-10	-15	2	32
56-43.6653-109.9653-2-12-						0-W06421	-5	-5	-5	30	-20	19	10	-10	-15	2	34

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.7128-	109.8375-	2-	12-		0-W06371	72860	-0.09	1100	30580	61	-85	9.7	62	2.5	3	1.4	25440	8.3	17450	33	0.3
56-	43.7256-	109.8308-	2-	12-		0-W06372	70130	-0.10	846	53660	84	-112	29.0	263	-2.1	2	1.4	58010	4.1	12140	36	-0.1
56-	43.6908-	109.8100-	2-	12-		0-W06373	71480	-0.07	741	21810	63	-93	6.3	53	-1.3	3	1.1	17690	9.0	16920	37	0.2
56-	43.7092-	109.7853-	2-	12-		0-W06374	79300	-0.12	1169	42270	61	-103	25.4	233	-2.6	3	1.5	47550	3.2	10360	38	-0.2
56-	43.7086-	109.7881-	2-	15-		0-W06375	38980	-0.08	562	59300	33	59	8.3	66	2.1	4	1.0	18170	7.7	10920	25	0.2
56-	43.6964-	109.7942-	2-	12-		0-W06376	85910	-0.10	1179	44620	99	-122	21.3	155	-2.2	3	1.6	45660	4.9	18100	44	0.4
56-	43.6539-	109.7639-	2-	15-		0-W06377	75440	-0.10	1280	32460	74	-94	14.1	104	-2.3	3	1.6	32490	4.7	14210	35	0.2
56-	43.6731-	109.7717-	2-	12-		0-W06378	81940	-0.11	1369	30210	63	-119	20.5	154	-2.7	2	1.6	39840	3.4	13440	38	-0.2
56-	43.6825-	109.7564-	2-	11-		0-W06379	73860	-0.08	1094	38500	53	-98	17.4	148	2.5	2	1.6	36330	4.0	13860	38	-0.1
56-	43.6922-	109.7389-	2-	12-		0-W06380	77350	-0.08	1240	31950	68	-101	17.9	128	-1.9	2	1.5	34860	3.7	12350	36	0.3
56-	43.5778-	109.7372-	2-	15-		0-W06381	32560	-0.06	732	27630	48	-53	3.3	39	1.6	4	1.4	9551	13.8	15270	30	0.4
56-	43.5708-	109.7067-	2-	15-		0-W06382	25450	-0.07	807	31800	171	-50	2.8	58	-1.5	7	1.5	11370	29.4	11940	121	0.7
56-	43.6667-	109.5503-	2-	12-		0-W06383	72920	-0.08	954	36740	63	-113	17.4	123	-2.0	2	1.3	31810	5.7	14550	41	0.3
56-	43.6575-	109.6544-	2-	12-		0-W06384	69310	-0.08	1298	33990	89	-96	14.0	119	-2.0	3	1.6	32260	10.4	14690	42	0.4
56-	43.6586-	109.6939-	2-	11-		0-W06385	68500	-0.10	1380	32460	74	-87	18.3	157	-2.4	3	1.6	36270	6.2	16990	44	-0.2
56-	43.6781-	109.7264-	2-	15-		0-W06386	74550	-0.09	1238	25450	49	-99	9.3	68	2.2	3	1.5	23810	5.3	19550	40	-0.1
56-	43.6525-	109.7164-	2-	12-		0-W06387	80220	-0.08	1178	39920	67	-103	20.8	155	-2.1	2	1.7	41160	4.5	12880	40	-0.1
56-	43.6533-	109.7206-	2-	12-		0-W06388	51750	-0.06	815	36300	61	-72	7.9	71	2.1	3	1.3	19400	5.8	15610	30	0.2
56-	43.6258-	109.7247-	2-	12-		0-W06389	49640	-0.08	677	14570	72	-74	9.5	95	2.8	3	1.5	21910	13.2	18460	44	0.3
56-	43.6281-	109.6542-	2-	12-		0-W06390	63260	-0.10	822	33060	55	-105	8.9	78	3.5	3	1.3	25490	6.6	18570	28	0.3
56-	43.6356-	109.5922-	2-	15-		0-W06391	41490	-0.07	2333	73280	193	-70	8.7	67	2.0	7	3.0	24080	26.5	13460	125	0.5
56-	43.6256-	109.5969-	2-	15-		0-W06392	47400	-0.07	816	77950	77	-74	6.6	42	3.6	4	1.4	16270	8.8	24150	37	0.3
56-	43.6211-	109.6058-	2-	12-		0-W06393	48420	-0.09	648	68980	53	-66	9.3	68	3.5	4	1.3	18700	6.8	17250	29	0.3
56-	43.6125-	109.6100-	2-	12-		0-W06394	35310	-0.08	685	64330	87	107	5.5	72	-1.8	5	1.2	16170	18.4	12560	60	0.5
56-	43.5431-	109.6728-	2-	12-		0-W06395	27710	-0.06	368	28350	65	-46	4.9	48	-1.3	5	1.5	12830	22.2	12880	44	0.4
56-	43.5394-	109.7358-	2-	12-		0-W06396	68090	-0.08	838	20560	109	-80	11.3	102	-1.9	5	1.6	30630	15.2	17730	50	0.5
56-	43.6161-	109.4719-	2-	12-		0-W06397	80010	-0.10	1408	40030	96	-103	24.9	189	-2.4	2	2.0	57400	5.8	14260	56	0.2
56-	43.6292-	109.4803-	2-	12-		0-W06398	82410	-0.10	1360	37500	69	-118	19.4	138	-2.4	3	1.7	39990	5.2	12090	41	0.3
56-	43.6319-	109.4592-	2-	11-		0-W06399	80780	-0.08	1261	32490	71	-107	17.2	101	-2.0	2	1.7	32040	3.5	16350	41	-0.1
56-	43.5461-	109.8094-	2-	12-		0-W06400	62540	-0.07	600	11800	102	-81	6.4	57	-1.7	5	1.6	19080	19.6	19120	49	0.6
56-	43.5450-	109.8075-	2-	12-		0-W06401	67060	-0.10	759	23190	123	-102	14.5	84	-2.5	6	2.0	33980	25.5	14750	70	0.5
56-	43.5308-	109.7783-	2-	12-		0-W06402	56420	-0.09	669	7206	70	-72	4.7	54	2.8	6	1.4	20760	23.7	21390	57	0.5
56-	43.5081-	109.8436-	2-	11-		0-W06403	50090	-0.08	627	7625	51	-59	6.6	54	4.4	4	1.0	18350	11.3	24930	35	0.3
56-	43.5158-	109.8617-	2-	11-		0-W06404	51020	-0.07	675	9132	107	-57	7.8	61	4.6	6	1.7	19660	23.9	21730	44	0.6
56-	43.5725-	109.8136-	2-	11-		0-W06405	50720	-0.12	638	19110	69	-86	-1.5	73	-2.8	6	1.3	15980	9.4	17580	45	0.3
56-	43.5814-	109.7694-	2-	15-		0-W06406	59070	-0.09	509	8230	70	-55	8.0	60	4.0	6	1.3	25180	9.8	18250	51	0.4
56-	43.5864-	109.7656-	2-	15-		0-W06407	72080	-0.08	900	29230	90	-95	15.1	111	-1.9	4	1.9	36220	13.2	15930	53	0.4
56-	43.6081-	109.8358-	2-	12-		0-W06408	51190	-0.08	622	26990	90	-95	9.6	78	2.8	4	1.3	21270	15.6	16230	44	0.4
56-	43.5883-	109.8539-	2-	15-		0-W06409	78860	-0.10	692	11070	112	121	10.8	60	-2.4	6	1.9	25890	10.2	22450	60	0.4
56-	43.5875-	109.8522-	2-	15-		0-W06410	72530	-0.09	782	8056	98	-59	8.6	47	3.0	7	1.7	22440	14.8	26240	65	0.5
56-	43.5894-	109.8428-	2-	12-		0-W06411	6151	-0.08	-172	284700	-7	-97	-1.4	-11	-1.8	-1	-0.4	6339	-1.4	-3257	-11	-0.1
56-	43.7206-	109.9725-	2-	12-		0-W06412	77830	-0.08	1436	36140	78	-103	16.6	158	-2.0	2	1.7	34080	5.2	16040	39	0.4
56-	43.7242-	109.9831-	2-	12-		0-W06413	81780	-0.10	1304	42810	80	-102	23.0	218	-2.6	3	1.8	45620	5.3	15270	42	-0.2
56-	43.7011-	109.9831-	2-	12-		0-W06414	57640	-0.08	824	16090	72	-85	5.5	56	3.0	4	1.6	17540	17.6	16370	47	0.3
56-	43.7014-	109.9814-	2-	12-		0-W06415	72120	-0.08	1025	30400	73	-94	14.3	110	-1.9	3	1.5	29850	9.0	15390	46	0.2
56-	43.6872-	109.9689-	2-	12-		0-W06416	61110	-0.07	870	20530	71	-84	9.7	144	-1.7	3	1.4	20290	13.4	14680	41	0.4
56-	43.6414-	109.9214-	2-	15-		0-W06417	77020	-0.11	1202	31520	91	-97	17.7	132	-2.5	4	2.1	38400	12.2	18600	61	0.3
56-	43.6306-	109.9219-	2-	12-		0-W06418	76570	-0.10	1637	49710	63	-117	6.2	74	-2.3	2	1.4	19500	3.7	21220	39	-0.2
56-	43.6297-	109.9208-	2-	12-		0-W06419	51020	-0.07	681	35260	76	132	8.9	71	3.6	5	1.4	20750	19.3	18270	48	0.5
56-	43.6622-	109.9856-	2-	11-		0-W06420	48910	-0.07	688	32340	100	-69	7.0	71	3.8	5	1.7	20640	21.3	17440	32	0.6
56-	43.6653-	109.9653-	2-	12-		0-W06421	76530	-0.10	1220	31300	100	-97	20.2	149	-2.6	4	1.8	39360	12.2	16870	55	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)															U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.7128-109.8375-2-12-				0	-W06371		25200	414	15180	-33	-2	8.2	4.1	398	-1	-1	8.8	3691	75	-1.8	-44	0.345
56-43.7256-109.8308-2-12-				0	-W06372		59720	838	19200	-36	-3	18.1	4.6	851	-1	-1	5.5	5203	207	-2.0	94	0.256
56-43.6908-109.8100-2-12-				0	-W06373		19410	403	19980	40	-2	5.3	3.7	404	-1	-1	8.9	3596	52	2.4	46	0.334
56-43.7092-109.7853-2-12-				0	-W06374		48290	729	20550	-45	-3	15.5	3.3	884	-2	-1	6.4	4644	156	-2.5	-119	0.259
56-43.7086-109.7881-2-15-				0	-W06375		24470	355	6001	-27	-2	6.4	3.3	-192	-1	-1	6.3	2435	58	2.5	-76	0.425
56-43.6964-109.7942-2-12-				0	-W06376		38390	696	21620	-36	-3	13.4	4.3	1088	-1	-1	9.7	4833	147	-2.2	-119	0.222
56-43.6539-109.7639-2-15-				0	-W06377		22370	502	17540	57	-2	10.6	3.6	814	-1	-1	8.4	3713	75	-2.1	85	0.279
56-43.6731-109.7717-2-12-				0	-W06378		34570	621	20730	-42	-3	12.2	3.1	745	-2	-1	6.5	5556	144	-2.3	-65	0.274
56-43.6825-109.7564-2-11-				0	-W06379		33140	500	18980	-36	-2	12.7	3.4	705	-2	-1	7.4	3753	108	-1.8	-109	0.285
56-43.6922-109.7389-2-12-				0	-W06380		37170	553	19920	-32	-2	10.4	4.0	911	-1	-1	7.4	3412	100	-1.6	-76	0.196
56-43.5778-109.7372-2-15-				0	-W06381		12670	352	6585	-24	-1	4.0	4.5	240	-1	-1	9.0	2554	28	2.4	-34	0.308
56-43.5709-109.7067-2-15-				0	-W06382		15640	331	4208	-25	-2	4.5	10.8	-201	-1	1	52.7	3227	27	4.7	-38	0.100
56-43.6667-109.5503-2-12-				0	-W06383		24030	987	18920	-34	-2	10.7	4.5	783	-1	-1	12.8	3444	81	2.0	133	0.144
56-43.6575-109.6544-2-12-				0	-W06384		23020	570	16660	-31	-2	10.4	5.7	698	-1	-1	8.5	5167	112	3.2	-42	0.278
56-43.6586-109.6939-2-11-				0	-W06385		31590	558	15460	-40	-2	12.5	4.2	693	-1	-1	10.6	4415	110	-2.1	-53	0.209
56-43.6781-109.7264-2-15-				0	-W06386		15660	393	15410	99	-2	8.0	2.6	605	-1	-1	9.7	3990	67	2.3	-122	0.413
56-43.6525-109.7164-2-12-				0	-W06387		41640	630	20230	-35	-2	13.2	4.1	642	-1	-1	8.0	4423	124	-1.8	118	0.229
56-43.6533-109.7206-2-12-				0	-W06388		21830	386	11040	-25	-2	6.5	3.9	405	-1	-1	7.1	3204	55	2.0	97	0.307
56-43.6258-109.7247-2-12-				0	-W06389		16180	570	9284	72	-2	7.4	3.9	-255	-1	-1	11.8	4103	56	-1.9	114	0.213
56-43.6291-109.6542-2-12-				0	-W06390		24020	1013	9708	-43	-2	8.6	3.2	-414	-1	-1	8.9	3416	81	-2.2	189	0.303
56-43.6356-109.5922-2-15-				0	-W06391		21600	631	5730	-29	-2	6.3	11.6	-255	-1	-1	62.4	4006	79	5.1	60	0.083
56-43.6256-109.5969-2-15-				0	-W06392		23760	584	6501	72	-2	5.6	6.0	-278	-1	-1	12.5	3294	45	3.8	59	0.219
56-43.6211-109.6058-2-12-				0	-W06393		20660	416	5358	-35	-2	7.2	3.8	396	-1	-1	10.5	3216	86	2.0	-76	0.269
56-43.6125-109.6100-2-12-				0	-W06394		28620	364	5111	-31	-2	5.4	5.7	-236	-2	-1	28.9	3880	53	3.4	-57	0.121
56-43.5431-109.6728-2-12-				0	-W06395		11780	256	3703	-22	-1	5.3	5.1	-162	-1	-1	18.4	2793	40	4.3	-57	0.227
56-43.5394-109.7358-2-12-				0	-W06396		18140	445	13130	-31	-2	9.5	6.8	450	-1	-1	18.7	4604	91	4.8	70	0.169
56-43.6161-109.4719-2-12-				0	-W06397		29940	739	22490	48	-2	14.7	5.2	1080	-1	-1	7.6	5869	175	-1.9	159	0.221
56-43.6292-109.4803-2-12-				0	-W06398		31790	621	21060	-43	-3	12.0	3.4	869	-1	-1	7.8	4872	129	-2.2	84	0.232
56-43.6319-109.4592-2-11-				0	-W06399		29860	537	20590	-33	-2	10.4	3.8	969	-1	-1	7.0	3504	92	-1.8	133	0.246
56-43.5461-109.8094-2-12-				0	-W06400		11500	412	12370	71	-2	6.8	7.7	370	-1	-1	19.4	3359	47	4.3	-37	0.235
56-43.5450-109.8075-2-12-				0	-W06401		18530	864	15810	-41	-3	11.0	7.9	-340	-2	-2	27.4	5154	88	6.2	-63	0.157
56-43.5308-109.7783-2-12-				0	-W06402		12810	422	6556	-36	-2	7.4	4.3	-268	-2	-1	17.8	3578	53	4.7	74	0.278
56-43.5081-109.8436-2-11-				0	-W06403		11270	280	4663	56	-2	5.2	3.8	-222	-1	-1	9.3	2869	46	-1.6	-69	0.357
56-43.5158-109.8617-2-11-				0	-W06404		11700	386	4865	81	-2	6.7	7.2	-228	-1	-1	17.4	3705	53	5.5	-23	0.276
56-43.5725-109.8136-2-11-				0	-W06405		10440	86	9067	-52	-3	5.9	5.4	-234	-2	-2	21.2	2936	40	4.2	-68	0.236
56-43.5814-109.7694-2-15-				0	-W06406		12750	400	3225	-35	-2	8.7	5.3	-247	-1	-1	17.8	3747	63	-2.4	-94	0.226
56-43.5864-109.7656-2-15-				0	-W06407		24980	517	18190	-32	-2	10.4	5.3	675	-1	-1	15.0	4348	109	4.2	-27	0.207
56-43.6081-109.8358-2-12-				0	-W06408		10530	758	11940	-31	-2	6.3	5.5	436	-1	-1	18.4	3223	42	4.6	-43	0.169
56-43.5883-109.8539-2-15-				0	-W06409		9031	290	3553	-40	-3	5.5	6.9	-206	-2	-1	28.9	4061	64	3.3	-23	0.118
56-43.5875-109.8522-2-15-				0	-W06410		9726	325	4278	87	-2	7.9	7.0	-240	-2	-1	28.5	3835	55	5.2	-34	0.147
56-43.5894-109.8428-2-12-				0	-W06411		4994	222	1360	-36	-2	0.8	-0.8	845	-2	-1	3.2	-833	-7	-1.8	-43	0.134
56-43.7206-109.9725-2-12-				0	-W06412		21090	668	19570	-33	-2	12.0	5.5	771	-1	-1	7.9	4393	112	-1.7	-50	0.356
56-43.7242-109.9831-2-12-				0	-W06413		38850	673	21590	-42	-3	16.0	5.5	1019	-1	-1	9.0	5397	134	-2.2	-73	0.257
56-43.7011-109.9831-2-12-				0	-W06414		13840	370	11340	63	-2	5.9	4.0	-265	-1	-1	12.2	4733	47	3.7	74	0.368
56-43.7014-109.9814-2-12-				0	-W06415		23490	495	18500	43	-2	10.2	4.0	897	-1	-1	11.5	3738	97	2.5	107	0.223
56-43.6872-109.9689-2-12-				0	-W06416		19980	405	15060	-27	-2	8.0	4.9	461	-1	-1	8.7	3633	68	2.2	107	0.392
56-43.6414-109.9214-2-15-				0	-W06417		27900	549	18920	-44	-3	12.2	4.9	690	-2	-1	12.7	5501	119	3.2	164	0.239
56-43.6306-109.9219-2-12-				0	-W06418		20420	497	16970	-43	-2	6.3	2.5	914	-2	-1	6.9	2834	57	-2.2	-56	0.306
56-43.6297-109.9208-2-12-				0	-W06419		17700	449	9114	57	-2	7.1	5.7	-235	-1	-1	17.0	3735	63	4.3	81	0.239
56-43.6622-109.9856-2-11-				0	-W06420		20100	445	8863	52	-2	6.9	8.1	-232	-1	-1	19.8	3341	54	5.4	-21	0.208
56-43.6653-109.9653-2-12-				0	-W06421		24260	556	18790	-42	-3	12.4	5.3	709	-1	-1	14.6	4601	116	-2.0	-61	0.210

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.6569-	109.9078-2-12-				0-W06422-	06/10/77-	13-	18-	9.0-	-	-	6.9-	290-	11-1-7-4-6-2-2-1-2-2-4-3-4-	-1-	-	-	-	3.30
56-	43.6783-	109.8769-2-12-				0-W06423-	06/10/77-	13-	19-	9.5-	-	-	6.9-	235-	13-1-7-5-6-2-2-2-2-1-3-3-3-	-1-	-	-	-	3.87
56-	43.3767-	108.1217-2-15-				0-W06424-	06/27/77-	10-	28-	-	-	-	-	-	4-1-6-4-6-	-1-	-	-3-2-4-2-	-1-	-	-	-	2.75
56-	43.3703-	108.1200-2-15-				0-W06425-	06/27/77-	11-	27-	-	-	-	-	-	9-1-6-4-6-	-1-	-	-3-2-3-2-	-1-	-	-	-	3.08
56-	43.3908-	108.0842-2-12-				0-W06426-	06/27/77-	11-	28-	26.3-	-	-	6.9-	510-	9-1-7-3-7-2-2-2-1-1-3-2-4-2-	-1-	-	-	-	2.24
56-	43.3911-	108.0858-2-12-				0-W06427-	06/27/77-	11-	28-	19.0-	-	-	6.8-	460-	9-1-7-3-7-3-3-2-2-3-2-4-2-	-1-	-	-	-	3.13
56-	43.4089-	108.0753-2-15-				0-W06428-	06/27/77-	12-	28-	-	-	-	-	-	9-1-6-3-6-	-1-	-	-1-2-4-2-	-1-	-	-	-	3.38
56-	43.4092-	108.0772-2-15-				0-W06429-	06/27/77-	12-	28-	-	-	-	-	-	4-1-7-3-7-	-1-	-	-1-2-4-2-	-1-	-	-	-	3.06
56-	43.4161-	108.0881-2-15-				0-W06430-	06/27/77-	13-	28-	-	-	-	-	-	9-1-7-3-7-	-1-	-	-1-2-4-2-	-1-	-	-	-	4.20
56-	43.4139-	108.0908-2-15-				0-W06431-	06/27/77-	13-	28-	-	-	-	-	-	4-1-7-4-7-	-1-	-	-3-3-2-	-1-	-	-	-	5.40
56-	43.4447-	108.0892-2-11-				0-W06432-	06/27/77-	14-	27-	24.2-	-	-	6.3-	263-	13-1-4-3-4-2-2-2-1-3-2-4-2-	-3-	-	-	-	3.71
56-	43.4756-	108.0647-2-12-				0-W06433-	06/27/77-	15-	24-	20.1-	-	-	6.0-	140-	9-1-8-3-7-3-3-1-2-4-3-4-3-	-3-	-	-	-	4.78
56-	43.4972-	108.0822-2-12-				0-W06434-	06/27/77-	15-	25-	19.2-	0-	-	6.3-	271-	9-1-1-3-6-2-2-3-2-4-3-3-3-	-3-	-	-	-	3.64
56-	43.4931-	108.0089-2-15-				0-W06435-	06/27/77-	16-	22-	-	-	-	-	-	13-1-4-4-6-	-1-	-	-3-2-4-3-	-	-	-	-	2.86
56-	43.4811-	108.0211-2-15-				0-W06436-	06/27/77-	16-	22-	-	-	-	-	-	4-1-6-4-6-	-1-	-	-3-2-4-3-	-1-	-	-	-	3.38
56-	43.4828-	108.0206-2-15-				0-W06437-	06/27/77-	17-	22-	-	-	-	-	-	18-1-6-4-6-	-1-	-	-3-2-4-3-	-1-	-	-	-	2.93
56-	43.3278-	108.1225-2-15-				0-W06438-	06/28/77-	10-	23-	-	-	-	-	-	4-1-8-5-6-	-1-	-	-3-2-2-1-	-1-	-	-	-	2.75
56-	43.3406-	108.0997-2-15-				0-W06439-	06/27/77-	17-	24-	-	-	-	-	-	9-1-8-4-6-	-1-	-	-3-2-2-1-	-1-	-	-	-	2.64
56-	43.3456-	108.1056-2-15-				0-W06440-	06/28/77-	11-	26-	-	-	-	-	-	9-1-6-4-6-	-1-	-	-3-2-2-1-	-1-	-	-	-	2.72
56-	43.3492-	108.0711-2-15-				0-W06441-	06/28/77-	11-	26-	-	-	-	-	-	9-1-6-4-6-	-1-	-	-3-2-2-1-	-1-	-	-	-	2.72
56-	43.3453-	108.0725-2-15-				0-W06442-	06/28/77-	11-	28-	-	-	-	-	-	9-1-6-4-6-	-1-	-	-3-2-3-1-	-1-	-	-	-	3.62
56-	43.3297-	108.0458-2-15-				0-W06443-	06/28/77-	12-	28-	-	-	-	-	-	13-1-7-4-6-	-1-	-	-3-2-3-1-	-1-	-	-	-	3.86
56-	43.3275-	108.0419-2-15-				0-W06444-	06/28/77-	12-	28-	-	-	-	-	-	9-1-6-4-6-	-1-	-	-3-2-3-1-	-1-	-	-	-	3.96
56-	43.3128-	108.0661-2-15-				0-W06445-	06/28/77-	13-	28-	-	-	-	-	-	9-1-6-4-6-	-1-	-	-3-2-3-1-	-1-	-	-	-	3.43
56-	43.3839-	108.0328-2-15-				0-W06446-	06/28/77-	13-	28-	-	-	-	-	-	0-1-4-4-4-	-1-	-	-3-2-4-1-	-1-	-	-	-	2.53
56-	43.3842-	108.0342-2-15-				0-W06447-	06/28/77-	14-	28-	-	-	-	-	-	9-1-7-4-7-	-1-	-	-3-2-3-1-	-1-	-	-	-	3.67
56-	43.4033-	108.0294-2-15-				0-W06448-	06/28/77-	15-	28-	-	-	-	-	-	9-1-8-4-7-	-1-	-	-1-3-4-1-	-2-	-	-	-	2.43
56-	43.4097-	108.0461-2-15-				0-W06449-	06/28/77-	15-	28-	-	-	-	-	-	13-1-7-4-7-	-1-	-	-1-2-4-1-	-2-	-	-	-	3.20
56-	43.4303-	108.0492-2-15-				0-W06450-	06/28/77-	16-	27-	-	-	-	-	-	13-1-7-3-7-	-1-	-	-2-2-5-1-	-2-	-	-	-	7.83
56-	43.3967-	108.0181-2-15-				0-W06451-	06/28/77-	16-	26-	-	-	-	-	-	9-1-6-4-6-	-1-	-	-3-2-4-1-	-2-	-	-	-	2.74
56-	43.4072-	108.0067-2-99-				0-W06452-	06/28/77-	17-	27-	-0-	-	-	-	-	4-1-7-4-7-	-1-	-	-4-2-5-1-	-1-	-	-	-	3.35
56-	43.2783-	108.0756-2-15-				0-W06453-	06/29/77-	10-	26-	-	-	-	-	-	13-1-8-4-6-	-1-	-	-3-2-3-2-	-1-	-	-	-	3.38
56-	43.3014-	108.0172-2-15-				0-W06454-	06/29/77-	10-	27-	-	-	-	-	-	4-1-7-4-7-	-1-	-	-3-2-2-2-	-1-	-	-	-	3.93
56-	43.2967-	108.0292-2-15-				0-W06455-	06/29/77-	10-	27-	-	-	-	-	-	13-1-7-4-7-	-1-	-	-3-2-3-2-	-1-	-	-	-	4.00
56-	43.2756-	108.0022-2-15-				0-W06456-	06/29/77-	10-	27-	-	-	-	-	-	4-1-6-4-6-	-1-	-	-3-2-2-2-	-1-	-	-	-	3.32
56-	43.2625-	108.0139-2-15-				0-W06457-	06/29/77-	11-	28-	-	-	-	-	-	9-1-7-4-7-	-1-	-	-3-2-3-2-	-1-	-	-	-	4.16
56-	43.2606-	108.0747-2-15-				0-W06458-	06/29/77-	11-	28-	-	-	-	-	-	13-1-7-4-7-	-1-	-	-3-2-3-2-	-1-	-	-	-	3.50
56-	43.2217-	108.1133-2-15-				0-W06459-	06/29/77-	11-	28-	-	-	-	-	-	13-1-7-4-7-	-1-	-	-3-2-3-2-	-1-	-	-	-	3.29
56-	43.2089-	108.1075-2-15-				0-W06460-	06/29/77-	11-	39-	-	-	-	-	-	9-1-7-4-7-	-1-	-	-3-2-2-2-	-1-	-	-	-	3.22
56-	43.2278-	108.0842-2-15-				0-W06461-	06/29/77-	12-	29-	-	-	-	-	-	4-1-7-4-7-	-1-	-	-3-2-2-2-	-1-	-	-	-	3.09
56-	43.2175-	108.0283-2-15-				0-W06462-	06/29/77-	12-	29-	-	-	-	-	-	9-1-7-4-7-	-1-	-	-2-2-2-2-	-1-	-	-	-	4.01
56-	43.2128-	108.0061-2-15-				0-W06463-	06/29/77-	12-	29-	-	-	-	-	-	9-1-7-4-7-	-1-	-	-3-2-2-2-	-1-	-	-	-	3.88
56-	43.1631-	108.0467-2-15-				0-W06464-	06/29/77-	13-	30-	-	-	-	-	-	13-1-7-4-7-	-1-	-	-3-2-2-2-	-1-	-	-	-	4.66
56-	43.1489-	108.0328-2-15-				0-W06465-	06/29/77-	13-	39-	-	-	-	-	-	9-1-7-5-7-	-1-	-	-2-2-2-2-	-1-	-	-	-	3.23
56-	43.1386-	108.0367-2-15-				0-W06466-	06/29/77-	13-	30-	-	-	-	-	-	9-1-7-4-7-	-1-	-	-2-2-3-2-	-1-	-	-	-	5.67
56-	43.1791-	108.1033-2-15-				0-W06467-	06/29/77-	14-	30-	-	-	-	-	-	9-1-7-4-7-	-1-	-	-2-3-3-2-	-1-	-	-	-	4.51
56-	43.1458-	108.1164-2-15-				0-W06468-	06/29/77-	14-	31-	-	-	-	-	-	13-1-7-4-7-	-1-	-	-2-2-2-2-	-1-	-	-	-	7.72
56-	43.1256-	108.0803-2-15-				0-W06469-	06/29/77-	14-	31-	-	-	-	-	-	4-1-6-4-6-	-1-	-	-3-2-2-2-	-1-	-	-	-	4.66
56-	43.1100-	108.0469-2-15-				0-W06470-	06/29/77-	15-	30-	-	-	-	-	-	4-1-6-4-6-	-1-	-	-2-3-3-2-	-1-	-	-	-	3.92
56-	43.0683-	108.0450-2-15-				0-W06471-	06/29/77-	16-	30-	-	-	-	-	-	4-1-6-4-6-	-1-	-	-2-2-2-2-	-1-	-	-	-	3.34
56-	43.0714-	108.0644-2-15-				0-W06472-	06/29/77-	16-	30-	-	-	-	-	-	13-1-6-4-6-	-1-	-	-4-3-2-2-	-1-	-	-	-	4.36

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.6569-109.9078-2-12-					0-	W06422	-5	-5	-5	18	-20	20	7	-10	-15	3	32
56-43.6783-109.8769-2-12-					0-	W06423	-5	-5	-5	29	-20	15	5	-10	-15	2	32
56-43.3767-108.1217-2-15-					0-	W06424	-5	5	-5	25	-20	15	9	-10	-15	2	27
56-43.3703-108.1200-2-15-					0-	W06425	-5	-5	-5	32	-20	16	5	-10	-15	3	35
56-43.3908-108.0842-2-12-					0-	W06426	-5	-5	-5	15	-20	15	-5	-10	-15	2	21
56-43.3911-108.0858-2-12-					0-	W06427	-5	-5	-5	24	-20	-15	-5	-10	-15	2	24
56-43.4089-108.0753-2-15-					0-	W06428	-5	-5	-5	26	-20	17	-5	-10	-15	3	35
56-43.4092-108.0772-2-15-					0-	W06429	-5	-5	-5	32	-20	29	8	-10	-15	3	43
56-43.4161-108.0881-2-15-					0-	W06430	-5	-5	-5	33	-20	16	-5	-10	-15	3	52
56-43.4139-108.0908-2-15-					0-	W06431	-5	6	-5	19	-20	-15	-5	-10	-15	4	31
56-43.4447-108.0892-2-11-					0-	W06432	-5	6	-5	15	-20	-15	-5	-10	-15	3	29
56-43.4756-108.0647-2-12-					0-	W06433	-5	7	-5	30	-20	-15	-5	-10	-15	2	26
56-43.4972-108.0822-2-12-					0-	W06434	-5	5	-5	19	-20	20	11	-10	-15	2	25
56-43.4931-108.0089-2-15-					0-	W06435	-5	5	-5	26	-20	-15	18	-10	-15	3	28
56-43.4811-108.0211-2-15-					0-	W06436	-5	-5	-5	25	-20	-15	-5	-10	-15	2	33
56-43.4829-108.0206-2-15-					0-	W06437	-5	-5	-5	16	-20	20	7	-10	-15	3	33
56-43.3278-108.1225-2-15-					0-	W06438	-5	-5	-5	26	-20	-15	7	-10	-15	2	28
56-43.3406-108.0997-2-15-					0-	W06439	-5	-5	-5	26	-20	-15	13	-10	-15	2	30
56-43.3456-108.1056-2-15-					0-	W06440	-5	-5	-5	27	-20	-15	-5	-10	-15	2	33
56-43.3492-108.0711-2-15-					0-	W06441	-5	-5	-5	86	-20	60	-5	-10	22	3	37
56-43.3453-108.0725-2-15-					0-	W06442	-5	5	-5	50	-20	23	13	-10	-15	3	36
56-43.3297-108.0458-2-15-					0-	W06443	-5	-5	-5	45	-20	-15	5	-10	-15	3	32
56-43.3275-108.0419-2-15-					0-	W06444	-5	-5	-5	24	-20	-15	7	-10	-15	2	21
56-43.3129-108.0661-2-15-					0-	W06445	-5	-5	-5	35	-20	23	18	-10	-15	3	41
56-43.3829-108.0328-2-15-					0-	W06446	-5	-5	-5	30	-20	21	5	-10	-15	3	44
56-43.3842-108.0342-2-15-					0-	W06447	-5	6	-5	45	-20	23	5	-10	-15	3	46
56-43.4033-108.0294-2-15-					0-	W06448	-5	-5	-5	35	-20	26	8	-10	-15	3	41
56-43.4097-108.0461-2-15-					0-	W06449	-5	-5	-5	38	-20	15	7	-10	-15	3	36
56-43.4303-108.0492-2-15-					0-	W06450	-5	5	-5	45	-20	30	-5	-10	18	3	32
56-43.3967-108.0181-2-15-					0-	W06451	-5	-5	-5	32	-20	-15	6	-10	-15	3	24
56-43.4072-108.0067-2-99-					0-	W06452	-5	-5	-5	35	-20	34	13	-10	-15	2	21
56-43.2783-108.0756-2-15-					0-	W06453	-5	5	-5	27	-20	23	8	-10	-15	3	33
56-43.3014-108.0172-2-15-					0-	W06454	-5	-5	-5	37	-20	23	-5	-10	-15	3	46
56-43.2967-108.0292-2-15-					0-	W06455	-5	7	-5	26	-20	15	5	-10	-15	2	40
56-43.2756-108.0022-2-15-					0-	W06456	-5	5	-5	38	-20	-15	9	-10	-15	3	46
56-43.2625-108.0139-2-15-					0-	W06457	-5	-5	-5	26	-20	-15	-5	-10	-15	3	41
56-43.2606-108.0747-2-15-					0-	W06458	-5	-5	-5	14	-20	16	5	-10	-15	2	27
56-43.2217-108.1133-2-15-					0-	W06459	-5	-5	-5	21	-20	25	-5	-10	-15	2	30
56-43.2089-108.1075-2-15-					0-	W06460	-5	-5	-5	25	-20	-15	-5	-10	-15	2	36
56-43.2278-108.0842-2-15-					0-	W06461	-5	-5	-5	23	-20	23	-5	-10	-15	2	35
56-43.2175-108.0283-2-15-					0-	W06462	-5	-5	-5	35	-20	22	12	-10	-15	3	39
56-43.2128-108.0061-2-15-					0-	W06463	-5	10	-5	19	-20	34	5	-10	-15	2	33
56-43.1631-108.0447-2-15-					0-	W06464	-5	-5	-5	23	-20	-15	-5	-10	-15	2	30
56-43.1489-108.0328-2-15-					0-	W06465	-5	6	-5	11	-20	16	10	-10	-15	2	34
56-43.1386-108.0367-2-15-					0-	W06466	-5	-5	-5	15	-20	20	-5	-10	-15	2	28
56-43.1781-108.1033-2-15-					0-	W06467	-5	7	-5	22	-20	20	8	-10	-15	3	35
56-43.1458-108.1164-2-15-					0-	W06468	-5	7	-5	25	-20	33	-5	-10	-15	2	25
56-43.1256-108.0803-2-15-					0-	W06469	-5	-5	-5	13	-20	23	-5	-10	-15	2	22
56-43.1100-108.0469-2-15-					0-	W06470	-5	-5	-5	28	-20	24	8	-10	-15	3	31
56-43.0683-108.0450-2-15-					0-	W06471	-5	5	-5	24	-20	-15	-5	-10	-15	3	35
56-43.0714-108.0644-2-15-					0-	W06472	-5	-5	-5	35	-20	38	7	-10	-15	3	32

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.6569-109.9078-2-12-						0-W06422	70550	-0.09	975	25120	65	-99	7.7	72	2.5	4	1.6	23700	8.1	19070	46	0.2
56-43.6783-109.8769-2-12-						0-W06423	51010	-0.07	679	35010	81	-75	7.2	78	3.2	5	1.4	20890	17.8	17870	40	0.4
56-43.3767-108.1217-2-15-						0-W06424	50350	-0.07	820	41260	76	-65	10.0	67	2.7	4	1.6	22900	11.8	20770	35	0.4
56-43.3703-108.1200-2-15-						0-W06425	52880	-0.08	653	43930	75	-68	9.4	64	3.0	5	1.5	28630	12.5	20200	37	0.4
56-43.3908-108.0842-2-12-						0-W06426	32500	-0.07	435	58730	40	87	6.6	35	1.9	4	1.0	16730	9.4	18430	21	0.3
56-43.3911-108.0858-2-12-						0-W06427	35880	-0.07	392	75400	65	74	8.4	43	2.5	5	1.3	24410	13.8	23490	32	0.5
56-43.4089-108.0753-2-15-						0-W06428	43440	-0.07	453	50110	101	-57	9.3	58	2.9	6	1.5	40520	15.7	24400	41	0.6
56-43.4092-108.0772-2-15-						0-W06429	54060	-0.09	536	16190	74	-63	17.3	65	4.8	5	1.5	43470	14.2	23020	43	0.4
56-43.4161-108.0881-2-15-						0-W06430	57970	-0.10	565	21910	97	-61	13.3	61	3.6	8	1.6	42070	14.7	38300	45	0.5
56-43.4139-108.0909-2-15-						0-W06431	44420	-0.07	413	22650	130	-51	12.9	53	2.4	9	2.0	50710	26.1	31820	62	0.8
56-43.4447-108.0892-2-11-						0-W06432	47020	-0.07	589	41540	105	74	6.9	51	2.5	7	1.7	29870	18.4	30570	42	0.7
56-43.4756-108.0647-2-12-						0-W06433	46780	-0.10	658	8696	118	-64	9.2	54	-2.4	9	2.1	29990	29.2	23630	61	0.7
56-43.4972-108.0822-2-12-						0-W06434	48800	-0.09	682	18790	54	-84	5.2	57	-2.1	5	1.1	18560	15.9	20370	34	0.5
56-43.4931-108.0689-2-15-						0-W06435	50560	-0.07	545	11730	53	-71	8.2	55	1.8	4	1.1	18890	10.9	19550	34	0.3
56-43.4811-108.0211-2-15-						0-W06436	45810	-0.06	551	5694	88	-52	6.5	53	2.3	5	1.5	27650	16.3	24900	39	0.5
56-43.4828-108.0206-2-15-						0-W06437	52980	-0.08	719	9762	71	74	8.2	49	-2.1	5	1.6	29340	9.8	31700	37	0.4
56-43.3279-109.1225-2-15-						0-W06438	55340	-0.08	695	41040	51	-83	10.4	53	2.4	4	1.3	22830	8.9	21680	34	0.4
56-43.3406-108.0997-2-15-						0-W06439	49750	-0.06	569	43080	57	-71	8.3	46	2.4	4	1.2	23100	10.4	20190	33	0.3
56-43.3456-108.1056-2-15-						0-W06440	47100	-0.06	661	36870	78	-65	7.7	53	3.1	4	1.6	22620	11.8	19660	32	0.4
56-43.3492-108.0711-2-15-						0-W06441	58360	-0.11	402	14630	60	-68	28.9	91	5.1	5	1.4	61240	10.8	16850	30	0.5
56-43.3453-108.0725-2-15-						0-W06442	54580	-0.10	755	19570	66	-85	17.7	69	4.6	7	1.2	41070	15.4	18880	50	0.5
56-43.3297-108.0458-2-15-						0-W06443	46870	-0.07	514	17850	87	-73	14.8	77	3.5	5	1.5	37690	19.8	15920	54	0.5
56-43.3275-108.0419-2-15-						0-W06444	40520	-0.06	1383	20270	116	-65	6.6	59	2.5	6	1.8	18090	19.9	15460	60	0.6
56-43.3128-108.0661-2-15-						0-W06445	55100	-0.05	572	16760	68	-72	10.9	77	4.1	5	1.4	29750	10.1	17840	38	0.4
56-43.3839-108.0328-2-15-						0-W06446	54910	-0.09	455	26490	36	86	15.9	76	5.8	4	1.1	40220	8.8	10670	24	0.3
56-43.3842-108.0342-2-15-						0-W06447	52650	-0.09	403	65970	32	-81	16.2	72	3.6	4	1.3	36590	5.7	16220	26	0.3
56-43.4033-108.0294-2-15-						0-W06448	54690	-0.06	535	21570	59	-69	13.9	79	3.6	4	1.2	34060	8.1	15360	27	0.4
56-43.4097-108.0461-2-15-						0-W06449	53430	-0.09	533	26210	63	-76	14.1	81	-2.2	5	1.3	34590	13.5	17880	33	0.4
56-43.4303-108.0492-2-15-						0-W06450	55810	-0.10	387	24180	60	-105	16.4	69	4.6	6	1.2	34470	13.1	14930	45	0.5
56-43.3967-108.0181-2-15-						0-W06451	52370	-0.07	452	20160	46	-69	15.4	50	3.9	4	1.1	30600	11.5	20660	27	0.5
56-43.4072-108.0067-2-99-						0-W06452	52240	-0.07	561	21590	71	-87	14.9	61	2.1	4	1.6	27940	18.9	16500	31	0.6
56-43.2783-108.0756-2-15-						0-W06453	63030	-0.07	1047	26870	97	-82	9.6	55	2.9	4	1.8	22690	13.4	19830	59	0.5
56-43.3014-108.0172-2-15-						0-W06454	56360	-0.09	572	21870	89	-88	10.8	74	4.0	5	1.5	30080	16.4	14830	61	0.5
56-43.2967-108.0292-2-15-						0-W06455	57400	-0.06	595	24210	99	-77	10.1	58	3.2	4	1.5	25400	15.1	16820	63	0.5
56-43.2756-108.0022-2-15-						0-W06456	62150	-0.06	673	18850	67	94	8.4	58	3.3	4	1.4	21370	8.8	18220	36	0.4
56-43.2625-108.0139-2-15-						0-W06457	65910	-0.07	1217	23870	131	-80	7.6	56	3.2	5	2.3	22190	19.9	20860	78	0.6
56-43.2606-108.0747-2-15-						0-W06458	64030	-0.07	878	23370	77	-95	4.9	58	2.4	5	1.6	20560	16.9	18370	54	0.4
56-43.2217-108.1133-2-15-						0-W06459	54250	-0.06	496	25390	63	-78	7.5	66	3.4	4	1.4	20740	13.4	15630	43	0.4
56-43.2089-108.1075-2-15-						0-W06460	54360	-0.06	593	27050	67	-75	7.5	73	3.9	4	1.4	18990	9.9	17180	33	0.3
56-43.2278-108.0842-2-15-						0-W06461	54130	-0.07	555	28720	63	-75	8.0	61	4.1	4	1.4	20420	9.7	19230	33	0.3
56-43.2175-108.0283-2-15-						0-W06462	59450	-0.08	543	25130	58	-92	8.9	83	2.9	5	1.4	23740	13.0	16550	41	0.4
56-43.2128-108.0061-2-15-						0-W06463	55700	-0.06	551	23930	82	-78	9.1	67	3.4	4	1.5	22700	16.1	15340	48	0.4
56-43.1631-108.0467-2-15-						0-W06464	56500	-0.06	630	18140	105	-67	8.7	70	2.3	5	1.7	21030	14.8	19000	53	0.4
56-43.1489-108.0328-2-15-						0-W06465	61980	-0.08	789	28130	58	-75	11.1	70	-1.9	4	1.6	23870	8.2	17900	40	0.3
56-43.1386-108.0367-2-15-						0-W06466	57210	-0.08	640	17790	125	-81	9.3	91	2.6	7	1.6	29530	26.5	16030	76	0.7
56-43.1781-108.1033-2-15-						0-W06467	58000	-0.07	541	22260	79	-81	9.0	85	3.9	5	1.4	25400	14.0	19080	42	0.4
56-43.1458-108.1164-2-15-						0-W06468	53240	-0.06	577	14950	218	-66	6.9	97	2.0	8	1.7	33380	39.9	12480	109	0.8
56-43.1256-108.0803-2-15-						0-W06469	50540	-0.07	526	10900	68	-62	5.9	57	-1.8	5	1.5	20310	19.5	17640	40	0.5
56-43.1100-108.0469-2-15-						0-W06470	62540	-0.08	664	18850	83	-78	8.9	71	3.0	5	1.4	26840	13.3	18000	48	0.6
56-43.0683-108.0450-2-15-						0-W06471	59600	-0.07	547	16020	65	-74	8.6	70	3.4	4	1.4	23150	12.4	19990	32	0.3
56-43.0714-108.0644-2-15-						0-W06472	60790	-0.07	651	19350	91	-76	9.0	74	3.7	5	1.6	23060	16.0	17870	44	0.5

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.6569-109.9078-2-12-				0-	W06422		17980	410	16460	-36	-2	8.1	4.0	578	-1	-1	10.9	3526	83	2.5	-60	0.303
56-43.6783-109.8769-2-12-				0-	W06423		16830	454	9142	48	-2	7.2	4.7	-239	-1	-1	16.7	3678	55	3.1	-36	0.232
56-43.3767-108.1217-2-15-				0-	W06424		22830	499	7105	47	-2	6.7	5.6	244	-1	1	11.3	3624	61	3.4	-27	0.243
56-43.3703-108.1200-2-15-				0-	W06425		26250	520	8014	71	-2	8.9	5.6	-233	-1	-1	12.1	2776	70	4.6	-49	0.255
56-43.3908-108.0842-2-12-				0-	W06426		25830	339	2704	-31	-2	5.0	2.6	-233	-1	-1	7.5	1806	32	3.2	-51	0.299
56-43.3911-108.0858-2-12-				0-	W06427		31950	453	3798	-28	-2	7.0	4.4	-229	-1	-1	11.7	2618	48	3.5	-36	0.268
56-43.4089-108.0753-2-15-				0-	W06428		23170	572	3762	85	-2	8.5	7.4	-242	-1	1	15.5	3472	54	5.2	60	0.218
56-43.4092-108.0772-2-15-				0-	W06429		20020	677	6297	86	-2	13.1	5.7	-255	-1	-1	11.8	4269	86	4.3	61	0.259
56-43.4161-108.0881-2-15-				0-	W06430		17670	592	3000	65	-2	11.1	6.0	-290	-1	-1	16.6	4512	68	3.8	-56	0.253
56-43.4139-108.0908-2-15-				0-	W06431		15540	737	2309	85	-2	11.0	9.4	-246	-1	-1	23.2	3840	53	6.9	-42	0.233
56-43.4447-108.0892-2-11-				0-	W06432		15370	353	4209	63	-2	7.8	8.5	-214	-1	-1	16.2	3659	52	4.5	191	0.229
56-43.4756-108.0647-2-12-				0-	W06433		9811	345	6735	94	-2	8.5	8.4	-228	-2	-1	27.8	4350	51	5.9	-50	0.172
56-43.4972-108.0822-2-12-				0-	W06434		15140	463	8234	-38	-2	6.2	4.4	-311	-1	-1	12.9	3629	52	3.9	66	0.282
56-43.4931-108.0089-2-15-				0-	W06435		12580	478	8632	61	-2	6.2	3.6	-247	-1	1	8.4	3968	54	2.6	56	0.340
56-43.4811-108.0211-2-15-				0-	W06436		9124	322	6341	57	-1	6.8	6.7	-184	-1	-1	12.8	3406	55	3.2	53	0.264
56-43.4828-108.0206-2-15-				0-	W06437		11470	291	6669	91	-2	8.1	5.5	-198	-1	1	10.7	3357	49	3.7	-20	0.274
56-43.3278-108.1225-2-15-				0-	W06438		22060	497	9359	65	-2	7.3	3.4	-287	-1	-1	9.0	3195	66	3.7	51	0.306
56-43.3406-108.0997-2-15-				0-	W06439		24160	482	8740	62	-2	7.2	4.7	-232	-1	-1	10.7	2575	61	3.1	104	0.247
56-43.3456-108.1056-2-15-				0-	W06440		20760	495	7635	67	-2	7.2	5.7	-231	-1	-1	11.3	3096	58	3.7	58	0.241
56-43.3492-108.0711-2-15-				0-	W06441		19910	908	5012	-47	-3	19.9	4.0	-302	-1	-1	10.6	8337	130	5.2	-63	0.257
56-43.3453-108.0725-2-15-				0-	W06442		19720	881	7440	55	-2	13.0	4.7	-345	5	-1	14.6	6928	101	3.7	-59	0.248
56-43.3297-108.0458-2-15-				0-	W06443		14940	814	8159	62	-2	11.2	5.8	-274	7	-1	18.3	6992	79	5.1	-88	0.211
56-43.3275-108.0419-2-15-				0-	W06444		12040	546	9016	51	-1	6.5	7.7	-233	1	-1	16.8	4109	39	4.8	-88	0.211
56-43.3129-108.0661-2-15-				0-	W06445		22360	563	9047	83	-1	9.7	6.5	-260	-1	-1	12.9	3703	73	3.2	91	0.266
56-43.3839-108.0328-2-15-				0-	W06446		20120	765	9248	-37	-2	13.4	2.5	-308	3	-1	7.5	7163	103	-2.7	90	0.337
56-43.3942-108.0342-2-15-				0-	W06447		25690	622	8821	60	-2	12.8	3.0	-286	-1	-1	5.5	3883	104	-2.0	-49	0.667
56-43.4033-108.0294-2-15-				0-	W06448		21290	616	10290	38	-2	11.4	5.2	-239	2	-1	9.8	4221	86	3.1	-69	0.248
56-43.4097-108.0461-2-15-				0-	W06449		19410	665	11200	60	-2	12.1	5.0	-260	-1	-1	10.5	5709	87	3.2	-49	0.314
56-43.4303-108.0492-2-15-				0-	W06450		21810	792	13880	70	-2	13.7	3.7	-358	-1	-2	19.9	6328	95	4.3	-35	0.393
56-43.3967-108.0181-2-15-				0-	W06451		14250	496	10480	52	-2	11.6	3.4	-222	-1	-1	10.4	4348	76	4.1	-69	0.263
56-43.4072-108.0067-2-99-				0-	W06452		10700	992	12410	58	-2	9.7	5.7	-312	-1	-1	12.4	7443	86	4.1	-23	0.270
56-43.2783-108.0756-2-15-				0-	W06453		12810	524	17550	71	-2	7.7	5.4	386	3	-1	14.7	3718	38	3.9	-41	0.230
56-43.3014-108.0172-2-15-				0-	W06454		14840	673	12700	60	-2	9.7	5.0	-294	5	-1	19.5	6035	64	3.9	61	0.202
56-43.2967-108.0292-2-15-				0-	W06455		17880	542	13230	-28	-2	9.3	6.1	-240	4	-1	17.9	4122	57	3.6	95	0.223
56-43.2756-108.0022-2-15-				0-	W06456		17090	434	13920	41	-1	7.1	5.0	313	-1	-1	11.5	3127	55	2.7	52	0.289
56-43.2625-108.0139-2-15-				0-	W06457		18730	472	16340	54	-2	7.2	7.2	462	-2	-1	20.7	3719	48	3.4	-40	0.201
56-43.2606-108.0747-2-15-				0-	W06458		16810	451	19000	60	-2	6.8	5.9	-268	-1	-1	14.8	3221	48	3.2	73	0.236
56-43.2217-108.1133-2-15-				0-	W06459		18170	481	14580	68	-1	7.5	4.8	-228	-1	-1	10.9	3139	55	2.7	82	0.302
56-43.2089-108.1075-2-15-				0-	W06460		19650	430	14040	47	-1	6.6	5.6	-231	-1	-1	10.8	3021	47	2.7	66	0.298
56-43.2279-108.0842-2-15-				0-	W06461		19800	456	13610	60	-2	7.2	4.3	-226	-1	-1	10.1	2316	47	2.9	-65	0.306
56-43.2175-108.0283-2-15-				0-	W06462		22890	552	13670	49	-2	8.6	4.0	-294	-1	-1	12.8	3478	58	3.4	-47	0.313
56-43.2128-108.0061-2-15-				0-	W06463		17810	518	13820	54	-2	8.0	5.9	-240	-1	-1	13.5	3163	52	4.0	-22	0.287
56-43.1631-108.0467-2-15-				0-	W06464		14490	410	11550	-24	-1	7.8	6.8	-215	-1	-1	20.4	3881	61	3.8	-14	0.228
56-43.1489-108.0328-2-15-				0-	W06465		24530	430	13440	-33	-2	8.3	4.6	267	-1	-1	11.0	3294	58	3.2	-53	0.294
56-43.1386-108.0367-2-15-				0-	W06466		14320	491	11730	-33	-2	9.0	9.0	-261	-1	-1	32.3	4554	74	4.8	47	0.176
56-43.1781-108.1033-2-15-				0-	W06467		22550	491	13150	60	-2	8.4	5.0	-245	-1	-1	13.7	2998	61	2.9	-60	0.329
56-43.1458-108.1164-2-15-				0-	W06468		13940	469	11560	-25	-2	8.4	18.2	-217	2	-1	61.1	5782	86	6.9	61	0.126
56-43.1256-108.0803-2-15-				0-	W06469		9032	229	11690	70	-2	8.5	6.4	173	-1	-1	17.6	3486	51	4.1	-23	0.265
56-43.1100-108.0469-2-15-				0-	W06470		16600	416	11480	68	-2	8.8	5.7	399	-1	-1	16.8	3827	66	3.9	101	0.233
56-43.0683-108.0450-2-15-				0-	W06471		18290	350	11720	59	-2	8.0	4.3	-222	-1	-1	13.2	3693	64	3.1	-26	0.253
56-43.0714-108.0644-2-15-				0-	W06472		15570	456	12180	66	-2	7.7	7.3	-244	-1	-1	16.7	3649	59	3.9	79	0.261

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.0325-108.0853-2-15-						0-W06473-06/30/77-12-	26-		-	-	-	-	-	-	-	4-1-6-4-6-	-1-	-	-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	5.14
56-43.0081-108.0861-2-15-						0-W06474-06/30/77-12-	25-		-	-	-	-	-	-	-	9-1-6-4-6-	-1-	-	-3-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	4.55
56-43.0183-108.1097-2-15-						0-W06475-06/30/77-13-	27-		-	-	-	-	-	-	-	18-1-6-4-6-	-1-	-	-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	4.42
56-43.0164-108.1094-2-15-						0-W06476-06/30/77-13-	26-		-	-	-	-	-	-	-	9-1-6-4-6-	-1-	-	-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.64
56-43.0039-108.0958-2-15-						0-W06477-06/30/77-13-	26-		-	-	-	-	-	-	-	13-1-6-4-6-	-1-	-	-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.51
56-43.0669-108.0867-2-15-						0-W06478-06/29/77-16-	29-		-	-	-	-	-	-	-	4-1-6-4-6-	-1-	-	-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	4.09
56-43.0628-108.1056-2-15-						0-W06479-06/29/77-17-	29-		-	-	-	-	-	-	-	9-1-6-4-6-	-1-	-	-2-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.11
56-43.0511-108.1092-2-15-						0-W06480-06/29/77-17-	28-		-	-	-	-	-	-	-	9-1-7-5-7-	-1-	-	-4-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	3.87
56-43.1631-109.9022-2-12-						0-W06481-07/25/77-15-	16-	11.0-	-	-	5.9-		40-		-3-6-4-6-2-3-1-1-1-3-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.03
56-43.1642-109.9033-2-12-						0-W06482-07/25/77-14-	16-	12.0-	-	-	5.7-		40-		-3-6-4-6-3-3-1-2-1-3-3-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.64
56-43.4394-109.8272-2-12-						0-W06483-07/26/77-18-	14-	11.0-	-	-	5.7-		100-		-3-6-4-6-3-2-1-2-4-4-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.73
56-43.4336-109.8242-2-12-						0-W06484-07/26/77-18-	12-	7.0-	-	-	5.7-		100-		-3-6-4-6-3-2-1-2-3-3-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
56-43.4319-109.8111-2-12-						0-W06485-07/26/77-19-	11-	8.0-	-	-	5.7-		90-		-3-6-4-6-3-2-1-2-1-2-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.55
56-43.4306-109.8114-2-12-						0-W06486-07/26/77-19-	10-	8.0-	-	-	5.7-		90-		-3-6-4-6-3-2-1-2-1-3-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.85
56-43.1314-109.7544-2-15-						0-W06487-07/24/77-14-	23-	-0-	-	-	-		-		-3-6-4-6- -1- -2-1-4-4-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.08
56-43.3839-109.9844-2-12-						0-W06488-07/25/77- 6-	10-	10.0-	-	-	5.9-		180-		-3-6-4-6-3-3-1-2-1-4-4-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.35
56-43.9383-109.2169-2-12-						0-W06489-07/07/77- 9-	11-	9.0-	-	-	5.9-		140-		-3-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.91
56-43.9297-109.2331-2-12-						0-W06490-07/07/77- 9-	11-	10.0-	-	-	5.7-		130-		-3-6-4-6-2-3-1-2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.72
56-43.9217-109.2450-2-12-						0-W06491-07/07/77- 9-	11-	8.0-	-	-	5.9-		150-		-3-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.36
56-43.9028-109.2675-2-12-						0-W06492-07/07/77-10-	14-	11.0-	-	-	5.9-		140-		-3-6-4-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.63
56-43.8978-109.2767-2-12-						0-W06493-07/07/77-11-	19-	12.0-	-	-	5.7-		140-		-3-6-4-6-2-3-1-2-1-5-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31
56-43.8969-109.2781-2-12-						0-W06494-07/07/77-11-	16-	9.0-	-	-	5.9-		150-		-3-6-2-6-4-3-1-2-1-3-5-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.29
56-43.8953-109.2772-2-12-						0-W06495-07/07/77-11-	16-	9.0-	-	-	5.9-		130-		-3-6-2-6-3-2-1-2-1-2-5-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31
56-43.8822-109.2839-2-12-						0-W06496-07/07/77-13-	18-	10.0-	-	-	5.9-		150-		-3-6-4-6-3-2-1-2-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.26
56-43.8781-109.2675-2-12-						0-W06497-07/07/77-13-	17-	12.0-	-	-	5.9-		140-		-3-6-3-6-3-3-1-2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.64
56-43.8725-109.2981-2-12-						0-W06498-07/07/77-13-	19-	12.0-	-	-	5.7-		130-		-3-6-3-6-2-3-1-3-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.07
56-43.8722-109.3039-2-12-						0-W06499-07/07/77-13-	19-	12.0-	-	-	5.9-		150-		-3-6-2-6-2-3-1-2-1-5-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.22
56-43.8611-109.3253-2-12-						0-W06500-07/07/77-15-	18-	9.0-	-	-	5.9-		130-		-3-6-4-6-2-3-1-2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.34
56-43.8583-109.3281-2-12-						0-W06501-07/07/77-15-	18-	10.0-	-	-	5.7-		150-		-3-6-4-6-2-3-1-2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.76
56-43.8592-109.3294-2-12-						0-W06502-07/07/77-15-	17-	9.0-	-	-	5.7-		440-		-3-6-4-6-2-3-1-2-4-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.24
56-43.8544-109.3381-2-11-						0-W06503-07/07/77-16-	19-	12.0-	-	-	5.7-		140-		-2-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.26
56-43.9458-109.0711-2-12-						0-W06504-07/07/77-20-	12-	8.0-	-	-	6.1-		160-		-3-6-4-6-3-2-1-2-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.47
56-43.9939-109.0911-2-12-						0-W06505-07/07/77-21-	12-	11.0-	-	-	6.8-		430-		-3-6-4-6-3-2-1-1-2-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.28
56-43.9469-109.1011-2-11-						0-W06506-07/07/77-20-	14-	6.0-	-	-	6.3-		140-		-3-6-5-6-2-3- -2-4-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.45
56-43.9847-109.1131-2-12-						0-W06507-07/07/77-21-	12-	9.0-	-	-	6.8-		440-		-1-6-4-6-2-3-1-2-2-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.36
56-43.9811-109.1378-2-12-						0-W06508-07/07/77-22-	12-	9.0-	-	-	6.6-		440-		-1-6-4-6-2-3-1-3-2-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.58
56-43.9897-109.1356-2-12-						0-W06509-07/07/77-22-	12-	2.0-	-	-	6.6-		440-		-1-6-4-6-2-3-1-2-2-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.58
56-43.9336-109.7500-2-12-						0-W06510-07/06/77-13-	22-	14.0-	-	-	5.7-		130-		-2-6-4-6-2-2-1-3-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.69
56-43.9300-109.7692-2-12-						0-W06511-07/06/77-13-	22-	11.0-	-	-	5.7-		95-		-2-6-4-6-2-2-1-2-3-3-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
56-43.9328-109.7856-2-12-						0-W06512-07/06/77-13-	22-	10.0-	-	-	5.7-		100-		-2-6-2-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.55
56-43.9342-109.7858-2-12-						0-W06513-07/06/77-13-	20-	11.0-	-	-	5.7-		175-		-2-6-3-6-3-2-1-2-1-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.91
56-43.9342-109.8175-2-12-						0-W06514-07/06/77-13-	21-	11.0-	-	-	5.7-		80-		-2-6-2-6-4-2-1-2-3-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.23
56-43.9328-109.8186-2-12-						0-W06515-07/06/77-13-	21-	11.0-	-	-	5.7-		95-		-2-6-2-6-4-2-1-2-3-3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.86
56-43.8875-109.7600-2-12-						0-W06516-07/06/77-14-	24-	10.0-	-	-	5.7-		160-		-2-6-3-6-3-2-1-2- -3-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.73
56-43.8783-109.7614-2-12-						0-W06517-07/06/77-14-	22-	9.0-	-	-	5.7-		95-		-2-6-2-6-3-2-1-2-4-2-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.27
56-43.8756-109.7750-2-12-						0-W06518-07/06/77-14-	21-	11.0-	-	-	5.7-		90-		-2-6-4-6-3-2-1-2-1-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.61
56-43.8478-109.7911-2-12-						0-W06519-07/06/77-15-	20-	12.0-	-	-	5.7-		100-		-2-6-4-6-3-2-1-2-3-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.25
56-43.8444-109.7872-2-12-						0-W06520-07/06/77-15-	19-	9.0-	-	-	5.7-		60-		-2-6-4-6-3-2-1-2-3-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.52
56-43.8439-109.7897-2-12-						0-W06521-07/06/77-15-	19-	9.0-	-	-	5.7-		70-		-2-6-4-6-3-2-1-2-3-4-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.22
56-43.8458-109.7906-2-12-						0-W06522-07/06/77-15-	21-	9.0-	-	-	5.7-		60-		-2-6-2-4-4-2-1-2-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.32
56-43.8592-109.7331-2-12-						0-W06523-07/06/77-16-	12-	11.0-	-	-	5.7-		100-		-2-6-4-6-3-2-1-2-3-1-4-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.63

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.0325-108.0853-2-15-						0-W06473	-5	8	-5	18	-20	-15	8	-10	-15	2	26
56-43.0081-108.0861-2-15-						0-W06474	-5	-5	-5	18	-20	-15	-5	-10	-15	2	25
56-43.0183-108.1097-2-15-						0-W06475	-5	-5	-5	24	-20	-15	-5	-10	-15	2	30
56-43.0164-108.1094-2-15-						0-W06476	-5	-5	-5	39	-20	20	-5	-10	-15	2	31
56-43.0039-108.0958-2-15-						0-W06477	-5	5	-5	37	-20	16	5	-10	-15	2	45
56-43.0669-108.0867-2-15-						0-W06478	-5	7	-5	30	-20	-15	6	-10	-15	2	29
56-43.0628-108.1056-2-15-						0-W06479	-5	5	-5	31	-20	26	-5	-10	-15	2	34
56-43.0511-108.1092-2-15-						0-W06480	-5	5	-5	37	-20	28	7	-10	-15	2	45
56-43.1631-109.9022-2-12-						0-W06481	-5	7	-5	22	-20	-15	-5	-10	-15	3	22
56-43.1642-109.9033-2-12-						0-W06482	-5	6	-5	16	-20	17	-5	-10	-15	2	20
56-43.4394-109.8272-2-12-						0-W06483	-5	-5	-5	28	-20	29	-5	-10	-15	2	25
56-43.4336-109.8242-2-12-						0-W06484	-5	-5	-5	27	-20	38	7	-10	-15	2	21
56-43.4319-109.8111-2-12-						0-W06485	-5	-5	-5	26	-20	26	12	-10	-15	2	25
56-43.4306-109.8114-2-12-						0-W06486	-5	-5	-5	23	-20	16	7	-10	-15	2	24
56-43.1314-109.7544-2-15-						0-W06487	-5	-5	-5	11	-20	35	9	-10	-15	2	20
56-43.3839-109.9844-2-12-						0-W06488	-5	-5	-5	41	-20	24	-5	-10	-15	2	15
56-43.9383-109.2169-2-12-						0-W06489	-5	-5	-5	37	-20	67	11	-10	-15	2	19
56-43.9297-109.2331-2-12-						0-W06490	-5	5	-5	24	-20	32	-5	-10	-15	2	20
56-43.9217-109.2450-2-12-						0-W06491	-5	-5	-5	29	-20	41	12	-10	-15	2	33
56-43.9028-109.2675-2-12-						0-W06492	-5	5	-5	26	-20	29	13	-10	-15	2	17
56-43.8978-109.2767-2-12-						0-W06493	-5	5	-5	78	-20	57	17	-10	-15	2	17
56-43.8969-109.2781-2-12-						0-W06494	-5	-5	-5	57	-20	32	18	-10	-15	2	23
56-43.8953-109.2772-2-12-						0-W06495	-5	-5	-5	62	-20	52	20	-10	-15	2	20
56-43.8822-109.2839-2-12-						0-W06496	-5	-5	-5	80	-20	51	21	-10	-15	2	22
56-43.8781-109.2975-2-12-						0-W06497	-5	-5	-5	50	-20	40	17	-10	-15	2	23
56-43.8725-109.2981-2-12-						0-W06498	-5	-5	-5	43	-20	39	11	-10	-15	2	17
56-43.8722-109.3039-2-12-						0-W06499	-5	-5	-5	76	-20	42	22	-10	-15	2	23
56-43.8611-109.3253-2-12-						0-W06500	-5	6	-5	19	-20	23	14	-10	-15	2	23
56-43.8583-109.3281-2-12-						0-W06501	-5	-5	-5	50	-20	47	13	-10	-15	2	26
56-43.8592-109.3294-2-12-						0-W06502	-5	6	-5	27	-20	-15	-5	-10	-15	2	37
56-43.8544-109.3381-2-11-						0-W06503	-5	10	-5	74	-20	56	21	-10	-15	2	21
56-43.9458-109.0711-2-12-						0-W06504	-5	-5	5	33	-20	39	-5	-10	-15	2	20
56-43.9928-109.0911-2-12-						0-W06505	-5	6	-5	18	-20	-15	17	-10	-15	2	24
56-43.9469-109.1011-2-11-						0-W06506	-5	6	-5	39	-20	40	-5	-10	-15	2	16
56-43.9847-109.1131-2-12-						0-W06507	-5	-5	-5	18	-20	-15	13	-10	-15	2	22
56-43.9911-109.1378-2-12-						0-W06508	-5	6	-5	40	-20	26	-5	-10	-15	2	16
56-43.9897-109.1356-2-12-						0-W06509	-5	-5	-5	32	-20	51	-5	-10	-15	2	14
56-43.9336-109.7506-2-12-						0-W06510	-5	-5	-5	28	-20	52	9	-10	-15	3	20
56-43.9306-109.7692-2-12-						0-W06511	-5	-5	-5	30	-20	20	8	-10	-15	2	26
56-43.9328-109.7856-2-12-						0-W06512	-5	-5	-5	35	-20	47	11	-10	-15	2	25
56-43.9342-109.7858-2-12-						0-W06513	-5	-5	-5	38	-20	31	11	-10	-15	2	20
56-43.9342-109.8175-2-12-						0-W06514	-5	8	-5	25	-20	91	-5	-10	-15	2	18
56-43.9328-109.8186-2-12-						0-W06515	-5	-5	-5	29	-20	36	9	-10	-15	2	19
56-43.8875-109.7600-2-12-						0-W06516	-5	-5	-5	29	-20	30	7	-10	-15	2	28
56-43.8783-109.7614-2-12-						0-W06517	-5	-5	-5	45	-20	78	-5	-10	-15	2	18
56-43.8756-109.7750-2-12-						0-W06518	-5	7	-5	36	-20	23	6	-10	-15	2	26
56-43.8478-109.7811-2-12-						0-W06519	-5	-5	-5	17	-20	64	5	-10	-15	2	19
56-43.8444-109.7872-2-12-						0-W06520	-5	-5	-5	54	-20	84	7	-10	-15	2	20
56-43.8439-109.7897-2-12-						0-W06521	-5	9	-5	37	-20	80	-5	-10	-15	2	16
56-43.8458-109.7906-2-12-						0-W06522	-5	-5	-5	43	-20	94	13	-10	-15	2	18
56-43.8592-109.7331-2-12-						0-W06523	-5	-5	-5	33	-20	23	6	-10	-15	2	77

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.0325-	108.0853-	2-	15-		0-W06472	54340	-0.05	769	18480	130	-79	6.8	68	2.3	5	1.6	20680	28.2	14170	84	0.6
56-	43.0081-	108.0861-	2-	15-		0-W06474	52860	-0.05	1022	19790	144	-78	5.0	46	-1.3	6	1.7	16570	23.0	12640	79	0.7
56-	43.0183-	108.1097-	2-	15-		0-W06475	55430	-0.06	476	14540	78	-64	8.5	69	2.9	5	1.5	22300	18.4	16230	44	0.5
56-	43.0164-	108.1094-	2-	15-		0-W06476	61850	-0.06	515	12860	57	-76	10.0	64	3.8	5	1.3	22980	11.3	19280	39	0.4
56-	43.0039-	108.0958-	2-	15-		0-W06477	65730	-0.06	493	10250	61	-66	10.9	69	4.2	4	1.3	25410	7.0	19530	38	0.4
56-	43.0669-	108.0867-	2-	15-		0-W06478	50480	-0.05	422	20090	65	-65	5.6	51	3.1	4	1.2	17890	9.2	16630	35	0.4
56-	43.0628-	108.1056-	2-	15-		0-W06479	60220	-0.07	618	20750	68	-72	10.0	76	-1.9	4	1.3	24880	9.7	19660	38	0.3
56-	43.0511-	108.1092-	2-	15-		0-W06480	73710	-0.08	582	15280	56	-80	13.7	88	5.7	5	1.6	31250	6.1	17940	39	0.3
56-	43.1631-	109.0022-	2-	12-		0-W06481	60680	-0.06	570	17380	134	-84	7.7	36	-1.7	6	2.1	24330	19.4	18590	79	0.4
56-	43.1642-	109.0033-	2-	12-		0-W06482	52340	-0.05	674	17150	131	-76	3.9	35	-1.3	5	1.7	16030	14.0	22080	67	0.3
56-	43.4394-	109.8272-	2-	12-		0-W06483	63810	-0.10	710	24390	136	205	13.6	55	-2.8	6	2.6	39620	21.6	11580	75	0.5
56-	43.4336-	109.8242-	2-	12-		0-W06484	70300	-0.09	846	29600	87	-117	13.0	95	-2.6	4	1.8	37270	13.0	15920	60	0.4
56-	43.4319-	109.8111-	2-	12-		0-W06485	65490	-0.07	835	32970	95	154	16.6	110	-2.1	4	1.8	38420	11.2	13320	53	0.4
56-	43.4306-	109.8114-	2-	12-		0-W06486	65990	-0.07	883	30090	119	138	14.3	117	-2.0	4	1.8	37570	16.5	13330	54	0.3
56-	43.1314-	109.7544-	2-	15-		0-W06487	58510	-0.07	788	28230	115	-84	11.6	94	-2.1	5	2.0	33590	18.7	15960	61	0.4
56-	43.3839-	109.9844-	2-	12-		0-W06488	73750	-0.10	980	54030	56	-119	30.3	174	-3.0	2	1.5	66610	2.8	14310	32	0.1
56-	43.9383-	109.2169-	2-	12-		0-W06489	75250	-0.06	1088	38340	65	-100	20.7	184	2.3	2	1.5	40360	4.1	11720	41	0.2
56-	43.9297-	109.2331-	2-	12-		0-W06490	62750	-0.06	865	29450	95	107	14.1	124	1.2	3	1.7	31220	13.4	15150	46	0.3
56-	43.9217-	109.2450-	2-	12-		0-W06491	71190	-0.07	887	26480	112	-91	12.4	88	2.1	5	2.4	36520	22.5	16960	66	0.5
56-	43.9028-	109.2675-	2-	12-		0-W06492	65770	-0.07	830	33870	82	-102	17.2	116	-2.2	4	1.7	34520	12.7	12770	46	0.3
56-	43.8978-	109.2767-	2-	12-		0-W06493	75540	-0.06	1241	29510	95	-100	19.5	159	-1.9	2	1.8	40520	5.4	15190	60	0.3
56-	43.8969-	109.2781-	2-	12-		0-W06494	72510	-0.06	1280	30870	110	-99	16.9	173	-1.8	3	1.8	37360	6.5	13690	55	0.2
56-	43.8953-	109.2772-	2-	12-		0-W06495	77510	-0.08	1312	33150	109	-99	20.6	193	-2.2	3	2.2	45830	6.5	14760	61	0.2
56-	43.8822-	109.2839-	2-	12-		0-W06496	80110	-0.07	1626	29560	96	-116	18.4	133	-2.2	2	1.8	36800	5.4	15830	61	0.3
56-	43.8781-	109.2975-	2-	12-		0-W06497	73920	-0.06	1163	30420	95	-97	17.2	138	2.9	2	1.7	38430	10.1	15590	51	0.2
56-	43.8725-	109.2981-	2-	12-		0-W06498	74220	-0.06	1364	35170	104	-100	18.5	187	2.1	2	1.6	43070	5.8	12710	50	0.2
56-	43.8722-	109.3039-	2-	12-		0-W06499	79240	-0.08	1372	30270	105	135	18.4	151	-2.2	2	2.1	39460	5.8	17890	58	0.2
56-	43.8611-	109.3253-	2-	12-		0-W06500	73650	-0.07	909	27810	98	-109	12.1	96	-2.1	5	2.1	37630	20.9	15160	61	0.3
56-	43.8583-	109.3281-	2-	12-		0-W06501	71600	-0.07	1234	33700	96	-100	18.6	184	-2.0	2	1.8	46500	9.4	18190	55	0.2
56-	43.8592-	109.3294-	2-	12-		0-W06502	56280	-0.05	591	32480	78	-72	8.0	62	4.3	5	1.3	22890	10.5	19210	37	0.4
56-	43.8544-	109.3381-	2-	11-		0-W06503	78180	-0.11	1349	29960	90	-101	17.7	163	-2.3	2	1.5	40030	4.4	15910	56	-0.1
56-	43.9458-	109.0711-	2-	12-		0-W06504	83080	-0.10	1270	40090	62	-104	16.2	179	-2.1	2	1.3	33740	4.8	17240	36	0.2
56-	43.9928-	109.0511-	2-	12-		0-W06505	73830	-0.08	736	26040	69	-106	11.4	111	1.9	3	1.6	31000	13.8	15450	36	0.3
56-	43.9469-	109.1011-	2-	11-		0-W06506	77460	-0.12	1031	43610	80	-103	25.0	245	-2.5	2	1.4	48550	4.0	13300	41	0.2
56-	43.9847-	109.1131-	2-	12-		0-W06507	71000	-0.11	1261	28410	86	-95	14.0	134	2.6	4	2.2	45090	16.9	14410	47	0.5
56-	43.9911-	109.1378-	2-	12-		0-W06508	68310	-0.08	774	26920	91	-92	14.7	143	-1.8	4	1.8	36080	12.2	16330	57	0.4
56-	43.9897-	109.1356-	2-	12-		0-W06509	77180	-0.09	1264	47990	85	-112	21.9	224	-1.9	2	1.4	42610	4.4	11400	37	0.2
56-	43.9336-	109.7500-	2-	12-		0-W06510	80290	-0.11	1140	47160	77	-99	22.6	139	-2.4	2	1.5	45810	3.9	18150	43	0.2
56-	43.9300-	109.7692-	2-	12-		0-W06511	65190	-0.11	845	31200	67	-90	13.1	122	-2.2	4	1.9	32470	13.4	16980	57	0.3
56-	43.9328-	109.7856-	2-	12-		0-W06512	68170	-0.09	938	30700	80	-88	16.1	118	-1.8	4	1.7	31460	10.1	22160	47	0.3
56-	43.9342-	109.7858-	2-	12-		0-W06513	81800	-0.09	1234	42820	76	-115	19.5	151	2.4	2	1.3	37570	4.7	15340	37	0.4
56-	43.9342-	109.8175-	2-	12-		0-W06514	73430	-0.13	898	52420	79	-105	28.3	395	-2.8	2	2.1	56130	3.6	11680	38	-0.2
56-	43.9328-	109.8186-	2-	12-		0-W06515	82470	-0.11	1468	37170	78	-107	17.6	181	-2.4	2	1.8	36530	4.9	15130	54	-0.2
56-	43.8875-	109.7600-	2-	12-		0-W06516	84240	-0.09	1372	46290	71	-100	20.5	130	-2.1	2	1.5	40890	3.6	15660	39	-0.1
56-	43.8783-	109.7614-	2-	12-		0-W06517	75210	-0.10	919	55070	87	-117	25.6	389	-2.2	3	1.6	55780	4.7	14230	37	0.3
56-	43.8756-	109.7750-	2-	12-		0-W06518	65660	-0.11	885	32990	91	-88	15.3	134	-2.2	3	1.9	37330	13.7	13000	57	0.4
56-	43.8478-	109.7811-	2-	12-		0-W06519	72450	-0.13	1084	52290	60	-101	27.3	353	-2.7	2	1.7	51810	4.2	11660	38	-0.2
56-	43.8444-	109.7872-	2-	12-		0-W06520	76300	-0.10	1212	45450	56	-104	24.9	289	-2.2	2	1.5	45330	3.9	11040	42	0.3
56-	43.8439-	109.7897-	2-	12-		0-W06521	78860	-0.10	1021	50020	74	-120	25.2	314	-2.0	2	1.4	44440	3.0	9346	28	0.2
56-	43.8458-	109.7906-	2-	12-		0-W06522	78520	-0.12	1066	44230	76	-109	28.1	302	-2.5	1	1.5	43690	3.4	10150	36	-0.2
56-	43.8592-	109.7331-	2-	12-		0-W06523	61760	-0.11	865	53450	50	-82	11.1	54	5.0	3	1.2	27600	4.2	23190	38	0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAS SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.0325-108.0853-2-15-				0-	W06473		8130	469	15710	-24	-1	6.3	7.9	-224	-1	-1	26.8	4167	44	4.1	-33	0.192
56-43.0081-108.0861-2-15-				0-	W06474		11490	545	16050	-20	-1	6.8	9.9	376	2	-1	23.0	4438	37	5.6	23	0.198
56-43.0183-108.1097-2-15-				0-	W06475		15270	367	11810	62	-1	8.7	6.1	-193	-1	-1	16.7	3904	58	4.6	-31	0.265
56-43.0164-108.1094-2-15-				0-	W06476		20000	381	11720	-30	-2	8.2	4.2	-235	-1	-1	13.3	3212	53	3.8	-41	0.274
56-43.0039-108.0958-2-15-				0-	W06477		17510	331	9957	60	-2	8.8	4.6	233	-1	-1	12.3	3455	69	3.3	95	0.285
56-43.0669-108.0867-2-15-				0-	W06478		13380	415	10080	58	-1	6.2	5.6	-211	-1	-1	10.8	3084	51	3.0	-10	0.379
56-43.0628-108.1056-2-15-				0-	W06479		22120	435	11340	58	-2	8.4	4.9	-223	-1	-1	11.3	3025	61	2.9	-78	0.275
56-43.0511-108.1092-2-15-				0-	W06480		24760	401	10160	90	-2	10.5	4.4	-267	-2	-1	12.7	4190	75	2.7	104	0.305
56-43.1631-109.0022-2-12-				0-	W06481		11420	247	17550	-27	-1	6.9	9.8	-219	-1	1	29.1	3926	65	3.8	76	0.138
56-43.1642-109.0033-2-12-				0-	W06482		6870	212	17630	57	-1	5.2	9.4	286	-1	-1	22.7	3449	45	3.7	46	0.116
56-43.4394-109.8272-2-12-				0-	W06483		14580	759	18190	-50	-2	10.8	10.8	-352	-2	-2	15.2	5279	88	4.8	-69	0.245
56-43.4336-109.8242-2-12-				0-	W06484		22260	705	17450	-43	-2	10.2	6.8	-383	-2	-1	13.2	4564	104	3.6	128	0.235
56-43.4319-109.8111-2-12-				0-	W06485		26510	669	18930	-31	-2	12.0	5.8	583	-2	-1	11.0	3848	109	2.6	116	0.232
56-43.4306-109.8114-2-12-				0-	W06486		25430	781	18780	-30	-2	10.7	8.5	553	-1	-1	12.4	4902	101	3.1	93	0.230
56-43.1314-109.7544-2-15-				0-	W06487		23620	446	17190	52	-2	10.3	7.6	557	-1	-1	19.7	3855	84	3.6	-46	0.156
56-43.3839-109.8844-2-12-				0-	W06488		52960	949	19010	-46	-3	25.9	3.9	1003	-1	-1	5.0	5537	239	2.0	-127	0.270
56-43.9383-109.2169-2-12-				0-	W06489		34070	566	21410	-31	-2	13.9	3.8	1021	-1	-1	6.9	4162	103	1.7	-94	0.277
56-43.9297-109.2331-2-12-				0-	W06490		24050	530	17250	-26	-2	10.3	7.7	519	-1	-1	12.2	4309	104	3.6	70	0.223
56-43.9217-109.2450-2-12-				0-	W06491		18360	552	21140	69	-2	11.6	7.6	433	-2	-1	20.5	4389	90	5.0	122	0.164
56-43.9028-109.2675-2-12-				0-	W06492		27250	546	18160	-34	-2	11.3	4.8	523	-2	-1	12.5	6012	102	-2.4	135	0.210
56-43.8978-109.2767-2-12-				0-	W06493		29180	550	22440	-28	-2	12.1	4.6	709	-1	-1	9.9	3770	108	-1.4	-78	0.233
56-43.8969-109.2781-2-12-				0-	W06494		30180	595	21850	-30	-2	11.4	6.0	750	-1	-1	10.1	4423	126	2.0	-37	0.227
56-43.8953-109.2772-2-12-				0-	W06495		28680	612	23060	-37	-2	13.8	5.7	908	-1	-1	10.6	5091	122	2.4	145	0.218
56-43.8822-109.2839-2-12-				0-	W06496		29060	563	23820	-38	-2	10.9	4.1	1019	-1	-1	9.7	4317	100	-1.6	91	0.233
56-43.8781-109.2975-2-12-				0-	W06497		28250	525	21770	-29	-2	12.0	4.7	884	-1	-1	10.0	3865	107	3.1	121	0.264
56-43.8725-109.2981-2-12-				0-	W06498		33540	653	21370	-30	-2	12.7	5.6	898	-1	-1	9.1	5056	147	-1.7	57	0.227
56-43.8722-109.3039-2-12-				0-	W06499		28420	572	24050	-38	-2	12.2	4.7	725	-1	-1	10.3	4454	106	-1.8	-31	0.216
56-43.8611-109.3253-2-12-				0-	W06500		17600	576	21970	-35	-2	11.3	6.6	622	-1	-1	19.9	4159	96	-1.7	159	0.168
56-43.8583-109.3281-2-12-				0-	W06501		29020	578	21950	-30	-2	13.5	5.0	774	-1	-1	9.6	4779	134	2.5	105	0.268
56-43.8592-109.3294-2-12-				0-	W06502		22200	492	10620	70	-1	7.6	6.7	-240	-1	-1	12.9	3373	61	3.2	58	0.251
56-43.8544-109.3381-2-11-				0-	W06503		32280	569	23440	-37	-3	12.1	3.2	696	-1	-1	9.5	4964	123	-2.3	102	0.238
56-43.9459-109.0711-2-12-				0-	W06504		28460	496	22950	-33	-3	12.4	3.0	1041	-1	-1	6.3	4239	112	-1.8	92	0.392
56-43.9928-109.0911-2-12-				0-	W06505		18990	448	23730	-26	-2	9.8	5.7	581	-1	-1	10.1	4383	96	3.2	58	0.325
56-43.9469-109.1011-2-11-				0-	W06506		44180	673	21510	-40	-3	18.9	3.4	1015	-2	-1	6.1	4115	140	-2.5	157	0.238
56-43.9847-109.1121-2-12-				0-	W06507		21670	611	20070	41	-3	12.9	5.4	712	-1	-1	12.8	6200	140	3.8	182	0.263
56-43.9911-109.1378-2-12-				0-	W06508		21630	629	19560	46	-2	11.4	6.5	429	-1	-1	14.4	4891	101	3.2	52	0.179
56-43.9897-109.1356-2-12-				0-	W06509		41810	687	21580	-29	-2	16.2	4.9	923	-1	-1	6.5	4492	156	-1.9	-38	0.243
56-43.9336-109.7500-2-12-				0-	W06510		35530	618	20660	-39	-3	16.0	4.0	845	-2	-1	6.9	3563	130	3.1	-55	0.245
56-43.9300-109.7692-2-12-				0-	W06511		26240	529	17300	-38	-3	10.2	4.8	573	-1	-1	12.8	4570	100	-2.0	-59	0.219
56-43.9329-109.7856-2-12-				0-	W06512		27630	637	17750	-29	-2	11.8	5.6	706	-1	-1	11.2	4340	96	3.7	108	0.228
56-43.9342-109.7858-2-12-				0-	W06513		38350	682	21310	-29	-2	13.6	4.7	968	-1	-1	7.1	3599	123	-1.7	-37	0.269
56-43.9342-109.8175-2-12-				0-	W06514		54020	715	21850	-44	-3	25.5	4.9	848	-2	-1	5.4	4161	174	-2.8	-126	0.228
56-43.9329-109.8186-2-12-				0-	W06515		34280	549	25430	-39	-3	12.7	4.1	874	-1	-1	8.3	4342	117	-2.3	102	0.224
56-43.8875-109.7600-2-12-				0-	W06516		38950	643	21570	-33	-2	14.3	4.2	907	-1	-1	8.2	4651	128	-2.0	53	0.211
56-43.8783-109.7614-2-12-				0-	W06517		53670	810	21650	-34	-3	20.8	5.0	926	-1	-1	4.6	5346	205	-1.9	-49	0.276
56-43.8756-109.7750-2-12-				0-	W06518		26360	529	17180	-38	-3	12.7	5.3	449	-1	-1	14.0	4203	106	2.5	-76	0.186
56-43.8478-109.7811-2-12-				0-	W06519		52940	728	21920	-43	-3	23.6	4.0	1200	-1	-1	5.6	5173	167	-2.6	152	0.223
56-43.8444-109.7872-2-12-				0-	W06520		50750	702	22980	-35	-3	17.4	4.1	957	-1	-1	4.8	4367	136	-1.9	112	0.317
56-43.8439-109.7897-2-12-				0-	W06521		55820	777	22320	-32	-2	16.9	3.1	1221	-1	-1	4.7	4765	158	-2.0	-41	0.260
56-43.8458-109.7906-2-12-				0-	W06522		50630	646	23350	-45	-3	16.2	2.9	1053	-1	-1	4.8	3223	111	-2.5	96	0.275
56-43.8592-109.7331-2-12-				0-	W06523		35230	632	10110	-37	-3	9.0	3.6	546	-1	-1	9.9	3465	77	-2.6	-77	0.266

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.8647-109.6939-2-12-						0-W06524-07/06/77-18-			14-11.0-	-	-	-	5.7-	180-		-2-6-4-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.57
56-43.8647-109.6917-2-12-						0-W06525-07/06/77-18-			14-11.0-	-	-	-	5.7-	160-		-2-6-4-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.25
56-43.8761-109.1956-2-12-						0-W06526-07/07/77-16-			23-10.0-	-	-	-	5.7-	140-		-3-6-3-6-3-2-1-2-1-4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.06
56-43.9147-109.1731-2-12-						0-W06527-07/07/77-17-			23- 9.0-	-	-	-	5.7-	130-		-3-6-3-6-2-3-1-2-1-4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.55
56-43.9161-109.1722-2-12-						0-W06528-07/07/77-17-			23- 9.0-	-	-	-	5.7-	130-		-3-6-4-6-2-3-1-2-1-4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.67
56-43.9278-109.1381-2-12-						0-W06529-07/07/77-18-			19-11.0-	-	-	-	5.9-	130-		-3-6-4-6-2-3-1-2-1-3-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.13
56-43.9342-109.1414-2-12-						0-W06530-07/07/77-18-			16-11.0-	-	-	-	5.7-	130-		-3-6-1-6-2-2-1-2-4-2-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.31
56-43.9356-109.1726-2-15-						0-W06531-07/07/77-19-			15-	-	-	-	-	-		-3-6-2-7- - - -2-4-2-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.31
56-43.9789-109.0572-2-12-						0-W06532-07/07/77-			- 13- 9.0-	-	-	-	6.6-	440-		-1-6-4-6-2-3-1-2-2-3-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.60
56-43.9033-109.3306-2-12-						0-W06533-07/08/77-16-			20-11.0-	-	-	-	6.1-	120-		-1-6-4-6-3-2-1-2-1-4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14
56-43.6828-109.4617-2-12-						0-W06534-07/11/77-11-			23-17.0-	-	-	-	5.7-	90-		-1-6-4-6-3-2-1-2-3-3-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.41
56-43.8903-109.5400-2-12-						0-W06535-07/09/77-12-			23- 9.0-	-	-	-	5.7-	40-		-1-6-4-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.32
56-43.8961-109.5531-2-12-						0-W06536-07/09/77-12-			23-11.0-	-	-	-	5.5-	40-		-1-6-4-6-3-3-2-2-1-3-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.33
56-43.8992-109.5061-2-12-						0-W06537-07/09/77-13-			21- 8.0-	-	-	-	5.7-	35-		-1-6-4-6-2-3-1-2-1-4-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.35
56-43.8047-109.2297-2-12-						0-W06538-07/07/77-13-			16-11.0-	-	-	-	6.2-	200-		-3-6-4-6-2-3-1-2-1-4-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.86
56-43.8219-109.2078-2-12-						0-W06540-07/07/77-13-			16-12.0-	-	-	-	6.2-	190-		-3-6-2-6-3-2-1-2-1-4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.91
56-43.8200-109.2058-2-12-						0-W06541-07/07/77-13-			16-12.0-	-	-	-	6.2-	190-		-3-6-2-6-3-2-1-2-1-4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.14
56-43.8256-109.1617-2-12-						0-W06542-07/07/77-12-			13-11.0-	-	-	-	6.3-	200-		-3-6-4-6-3-2-1-2-1-4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87
56-43.8253-109.1597-2-12-						0-W06543-07/07/77-12-			13- 9.0-	-	-	-	6.1-	180-		-3-6-4-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.95
56-43.8750-109.1956-2-12-						0-W06544-07/07/77-16-			23-10.0-	-	-	-	5.9-	130-		-3-6-2-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.06
56-43.8603-109.1917-2-12-						0-W06545-07/07/77-16-			19-10.0-	-	-	-	5.9-	140-		-3-6-4-6-3-2-1-2-1-2-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.04
56-43.8428-109.2453-2-12-						0-W06546-07/07/77-15-			17- 9.0-	-	-	-	6.9-	130-		-3-6-2-6-3-2-1-2-1-3-4-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.65
56-43.8419-109.2472-2-12-						0-W06547-07/07/77-15-			17-10.0-	-	-	-	6.3-	130-		-3-6-4-6-3-3-1-2-1-4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
56-43.8303-109.2686-2-12-						0-W06548-07/07/77-15-			17- 9.0-	-	-	-	6.1-	180-		-3-6-3-6-2-2-1-2- -4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.18
56-43.8294-109.2664-2-12-						0-W06549-07/07/77-15-			16-10.0-	-	-	-	6.3-	200-		-3-6-4-6-3-2-1-2-3-3-4-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.02
56-43.8275-109.1589-2-12-						0-W06550-07/07/77-12-			13- 9.0-	-	-	-	6.1-	185-		-3-6-4-6-2-3-1-2-1-3-4-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.92
56-43.8417-109.1714-2-12-						0-W06551-07/07/77-12-			13- 9.0-	-	-	-	6.3-	190-		-3-6-4-6-3-4-1-2-3-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.63
56-43.8639-109.1436-2-12-						0-W06552-07/07/77-11-			14-12.0-	-	-	-	6.3-	190-		-3-6-2-6-3-3-1-2-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90
56-43.8642-109.1408-2-12-						0-W06553-07/07/77-11-			14-12.0-	-	-	-	6.1-	200-		-3-6-4-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.97
56-43.8833-109.1294-2-12-						0-W06554-07/07/77-10-			13-11.0-	-	-	-	6.1-	190-		-3-6-4-6-3-2-1-2-1-4-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.45
56-43.8889-109.1308-2-12-						0-W06555-07/07/77-10-			13- 9.0-	-	-	-	6.1-	200-		-3-6-3-6-2-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87
56-43.9108-109.0933-2-12-						0-W06556-07/07/77- 9-			11-11.0-	-	-	-	6.3-	190-		-3-6-3-6-3-2-1-2-4-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.87
56-43.9114-109.0911-2-12-						0-W06557-07/07/77- 9-			11-11.0-	-	-	-	6.1-	190-		-3-6-3-6-3-2-1-2-4-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.08
56-43.9819-109.6972-2-12-						0-W06558-07/06/77- 9-			16-13.0-	-	-	-	5.7-	60-		-2-6-4-6-2-2-1-1-3-4-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.57
56-43.9853-109.7239-2-12-						0-W06559-07/06/77- 9-			18-11.0-	-	-	-	5.7-	160-		-2-6-4-6-2-2-1-2-2-2-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.73
56-43.9839-109.7250-2-12-						0-W06560-07/06/77- 9-			19-11.0-	-	-	-	5.7-	160-		-2-6-4-6-2-2-1-2-1-3-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66
56-43.9550-109.6842-2-12-						0-W06561-07/06/77-10-			16-11.0-	-	-	-	5.7-	105-		-2-6-3-6-3-2-1-2-1-4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.28
56-43.9539-109.6856-2-12-						0-W06562-07/06/77-10-			16-14.0-	-	-	-	5.7-	160-		-2-6-3-6-3-2-1-2-1-4-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.49
56-43.9589-109.6669-2-12-						0-W06563-07/06/77-10-			16-12.0-	-	-	-	5.7-	60-		-2-6-2-6-2-2-1-1-3-2-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
56-43.9581-109.6653-2-12-						0-W06564-07/06/77-10-			17-12.0-	-	-	-	5.7-	70-		-2-6-3-6-3-2-1-2-1-4-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.30
56-43.9319-109.6844-2-12-						0-W06565-07/06/77-11-			20-10.0-	-	-	-	5.7-	160-		-2-6-2-6-4-3-1-2-1-2-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.97
56-43.9197-109.6908-2-12-						0-W06566-07/06/77-11-			18- 9.0-	-	-	-	5.7-	140-		-2-6-3-6-3-3-1-2-3-5-4-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
56-43.9186-109.6897-2-12-						0-W06567-07/06/77-11-			18- 9.0-	-	-	-	5.7-	90-		-2-6-3-6-3-3-1-2-3-5-4-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.26
56-43.9508-109.7269-2-12-						0-W06568-07/06/77-12-			20-11.0-	-	-	-	5.7-	100-		-2-4-4-6-2-2-1-1-2-4-2-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.14
56-43.9625-109.7617-2-12-						0-W06569-07/06/77-12-			20-10.0-	-	-	-	5.7-	20-		-2-6-4-6-3-2-1-2-2-3-3-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.22
56-43.9597-109.7628-2-12-						0-W06570-07/06/77-12-			20-11.0-	-	-	-	5.7-	60-		-2-6-4-6-3-2-1-2-3-4-4-1-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.40
56-43.0117-109.6575-2-12-						0-W06571-07/23/77-11-			25-12.0-	-	-	-	5.5-	35-		-3-7-1-7-3-3-1-2-1-3-5-2-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.00
56-43.0194-109.6086-2-12-						0-W06572-07/23/77-12-			25-12.0-	-	-	-	5.6-	15-		-3-7-3-1-3-3-1-2-1-3-5-2-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.10
56-43.0172-109.6358-2-12-						0-W06573-07/23/77-11-			25-12.0-	-	-	-	5.6-	36-		-3-7-1-7-3-3-1-2-1-3-5-2-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00
56-43.0258-109.5947-2-12-						0-W06574-07/23/77-12-			25-12.0-	-	-	-	5.6-	15-		-3-1-3-1-3-3-1-2-1-3-5-2-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.75
56-43.0403-109.5903-2-12-						0-W06575-07/23/77-12-			25-12.0-	-	-	-	5.6-	15-		-3-7-2-7-3-3-1-2-1-3-5-2-		-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.79

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-	43.8647-	109.6926-	2-	12-	0-	W06524	-5	-5	-5	23	-20	24	-5	-10	-15	2	24
56-	43.8647-	109.6917-	2-	12-	0-	W06525	-5	-5	-5	37	-20	19	9	-10	-15	2	25
56-	43.8761-	109.1956-	2-	12-	0-	W06526	-5	-5	-5	44	-20	31	15	-10	-15	2	23
56-	43.9147-	109.1731-	2-	12-	0-	W06527	-5	-5	-5	41	-20	67	-5	-10	-15	2	18
56-	43.9161-	109.1722-	2-	12-	0-	W06528	-5	-5	-5	34	-20	46	-5	-10	-15	2	20
56-	43.9278-	109.1381-	2-	12-	0-	W06529	-5	-5	-5	35	-20	45	16	-10	-15	2	22
56-	43.9342-	109.1414-	2-	12-	0-	W06530	-5	-5	-5	38	-20	56	14	-10	-15	2	20
56-	43.9356-	109.1728-	2-	15-	0-	W06531	-5	7	-5	27	-20	38	-5	-10	-15	2	30
56-	43.9789-	109.0572-	2-	12-	0-	W06532	-5	-5	-5	33	-20	61	-5	-10	-15	2	17
56-	43.9033-	109.3306-	2-	12-	0-	W06533	-5	-5	-5	23	-20	74	5	-10	-15	2	17
56-	43.8828-	109.4617-	2-	12-	0-	W06534	-5	9	-5	40	-20	40	-5	-10	-15	2	16
56-	43.8903-	109.5400-	2-	12-	0-	W06535	-5	6	-5	26	-20	67	-5	-10	-15	2	16
56-	43.8961-	109.5531-	2-	12-	0-	W06536	-5	-5	-5	31	-20	49	9	-10	-15	2	18
56-	43.8992-	109.5061-	2-	12-	0-	W06537	-5	-5	-5	30	-20	79	-5	-10	-15	2	15
56-	43.8047-	109.2297-	2-	12-	0-	W06539	-5	-5	-5	40	-20	55	8	-10	-15	2	21
56-	43.8219-	109.2078-	2-	12-	0-	W06540	-5	-5	-5	29	-20	45	10	-10	-15	2	25
56-	43.8200-	109.2058-	2-	12-	0-	W06541	-5	-5	-5	27	-20	-15	8	-10	-15	2	28
56-	43.8256-	109.1617-	2-	12-	0-	W06542	-5	-5	-5	15	-20	52	13	-10	-15	2	20
56-	43.8253-	109.1597-	2-	12-	0-	W06543	-5	-5	-5	30	-20	57	15	-10	-15	2	20
56-	43.8750-	109.1956-	2-	12-	0-	W06544	-5	-5	-5	35	-20	45	14	-10	-15	2	25
56-	43.8603-	109.1917-	2-	12-	0-	W06545	-5	-5	-5	24	-20	40	6	-10	-15	2	30
56-	43.8428-	109.2453-	2-	12-	0-	W06546	-5	-5	-5	48	-20	62	-5	-10	-15	2	19
56-	43.8419-	109.2472-	2-	12-	0-	W06547	-5	-5	-5	24	-20	37	10	-10	-15	2	19
56-	43.8303-	109.2686-	2-	12-	0-	W06548	-5	-5	-5	31	-20	27	-5	-10	-15	2	22
56-	43.8294-	109.2664-	2-	12-	0-	W06549	-5	-5	-5	48	-20	38	7	-10	-15	2	20
56-	43.8275-	109.1589-	2-	12-	0-	W06550	-5	-5	-5	32	-20	32	13	-10	-15	2	20
56-	43.8417-	109.1714-	2-	12-	0-	W06551	-5	9	-5	40	-20	47	16	-10	-15	2	19
56-	43.8639-	109.1436-	2-	12-	0-	W06552	-5	-5	-5	29	-20	45	-5	-10	-15	2	21
56-	43.8642-	109.1408-	2-	12-	0-	W06553	-5	-5	-5	31	-20	48	10	-10	-15	2	22
56-	43.8833-	109.1294-	2-	12-	0-	W06554	-5	8	-5	20	-20	-15	8	-10	-15	2	27
56-	43.8889-	109.1308-	2-	12-	0-	W06555	-5	-5	-5	35	-20	50	12	-10	-15	2	22
56-	43.9108-	109.0533-	2-	12-	0-	W06556	-5	0	-5	29	-20	36	9	-10	-15	2	22
56-	43.9114-	109.0911-	2-	12-	0-	W06557	-5	5	-5	64	-20	20	10	-10	-15	-1	21
56-	43.9819-	109.6972-	2-	12-	0-	W06558	-5	-5	-5	32	-20	83	8	-10	-15	2	22
56-	43.9853-	109.7239-	2-	12-	0-	W06559	-5	5	-5	41	-20	45	17	-10	-15	2	27
56-	43.9839-	109.7250-	2-	12-	0-	W06560	-5	-5	-5	14	-20	22	12	-10	-15	2	26
56-	43.9550-	109.6842-	2-	12-	0-	W06561	-5	6	-5	37	-20	91	5	-10	-15	2	21
56-	43.9539-	109.6856-	2-	12-	0-	W06562	-5	-5	-5	33	-20	31	11	-10	-15	2	62
56-	43.9589-	109.6669-	2-	12-	0-	W06563	-5	6	-5	43	-20	55	13	-10	-15	2	23
56-	43.9581-	109.6653-	2-	12-	0-	W06564	-5	-5	-5	31	-20	25	9	-10	-15	2	21
56-	43.9319-	109.6844-	2-	12-	0-	W06565	-5	5	-5	38	-20	22	10	-10	-15	2	26
56-	43.9197-	109.6908-	2-	12-	0-	W06566	-5	5	-5	24	-20	16	16	-10	-15	2	29
56-	43.9186-	109.6897-	2-	12-	0-	W06567	-5	-5	-5	41	-20	70	-5	-10	-15	2	20
56-	43.9508-	109.7269-	2-	12-	0-	W06568	-5	-5	-5	30	-20	61	-5	-10	-15	2	17
56-	43.9625-	109.7617-	2-	12-	0-	W06569	-5	-5	-5	34	-20	89	-5	-10	-15	2	20
56-	43.9597-	109.7628-	2-	12-	0-	W06570	-5	-5	-5	43	-20	93	7	-10	-15	2	19
56-	43.0117-	109.6575-	2-	12-	0-	W06571										1	36
56-	43.0194-	109.6086-	2-	12-	0-	W06572	-5	7	-5	39	-20	16	9	-10	-15	2	29
56-	43.0172-	109.6358-	2-	12-	0-	W06573	11	-5	-5	14	-20	-15	24	-10	-15	1	29
56-	43.0259-	109.5947-	2-	12-	0-	W06574	-5	6	-5	33	-20	23	15	-10	-15	2	20
56-	43.0403-	109.5903-	2-	12-	0-	W06575	-5	-5	-5	21	-20	26	13	-10	-15	2	35

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.8647-109.6939-2-12-						0-W06524	66440	-0.09	1044	30940	80	-88	14.9	120	-1.9	4	1.6	34500	12.5	17610	38	0.5
56-43.8647-109.6917-2-12-						0-W06525	75740	-0.09	1023	34460	85	-112	16.9	125	-1.9	3	1.6	39650	8.0	16350	39	0.3
56-43.8761-109.1956-2-12-						0-W06526	85140	-0.12	1195	41860	80	-106	19.8	220	-2.5	2	1.6	44300	4.3	16000	45	0.2
56-43.9147-109.1731-2-12-						0-W06527	76310	-0.12	1329	45330	72	-103	24.8	230	-2.6	3	1.6	50960	4.1	15220	42	-0.2
56-43.9161-109.1722-2-12-						0-W06528	75550	-0.10	1242	47960	57	-104	26.6	221	-2.2	3	1.8	53570	4.8	16270	40	-0.1
56-43.9278-109.1381-2-12-						0-W06529	88380	-0.09	1497	43570	80	-118	17.3	168	-1.9	2	1.5	34080	3.8	17020	42	0.2
56-43.9342-109.1414-2-12-						0-W06530	77540	-0.12	942	51160	81	-101	25.5	304	-2.5	2	1.5	48150	3.9	11760	42	0.2
56-43.9356-109.1728-2-15-						0-W06531	75980	-0.11	1219	35160	78	-97	19.4	204	-2.3	3	1.8	46300	8.2	14730	53	0.2
56-43.9789-109.0572-2-12-						0-W06532	76450	-0.10	1277	45360	62	-101	22.2	226	-2.2	2	1.6	48270	5.3	12790	42	0.1
56-43.9033-109.2306-2-12-						0-W06533	77300	-0.10	1148	59070	71	-119	24.4	229	-2.2	2	1.6	52850	2.8	14540	34	0.2
56-43.8828-109.4617-2-12-						0-W06534	74390	-0.13	965	44920	72	-105	34.7	224	-2.7	2	1.8	65750	3.0	12640	44	-0.2
56-43.8903-109.5400-2-12-						0-W06535	70760	-0.13	1126	45300	63	-102	36.5	260	-2.7	2	1.3	73700	3.4	11430	50	-0.2
56-43.8961-109.5531-2-12-						0-W06536	73390	-0.11	1195	43160	71	-99	36.1	235	-2.3	2	1.6	69240	3.2	17510	41	-0.1
56-43.8992-109.5661-2-12-						0-W06537	71620	-0.10	983	47180	94	-119	32.9	263	-2.2	2	1.6	70100	3.7	11250	38	0.3
56-43.8047-109.2297-2-12-						0-W06539	73720	-0.12	982	42260	103	-104	26.8	303	-2.4	2	2.1	57640	8.1	11600	58	0.5
56-43.8219-109.2078-2-12-						0-W06540	77510	-0.12	1254	38730	76	-106	20.7	215	-2.4	2	1.5	48410	5.6	15600	60	0.4
56-43.8200-109.2058-2-12-						0-W06541	69620	-0.09	724	27600	97	-91	12.6	100	-1.8	4	1.7	32870	16.4	14730	59	0.3
56-43.8256-109.1617-2-12-						0-W06542	73660	-0.09	1167	40190	113	-117	22.0	319	-1.9	3	1.7	57400	7.5	10780	50	0.2
56-43.8253-109.1597-2-12-						0-W06543	82180	-0.11	1227	36450	97	-107	18.8	187	-2.3	2	2.0	39110	5.9	15240	66	-0.2
56-43.8750-109.1956-2-12-						0-W06544	80070	-0.11	1508	36130	83	-106	16.4	150	-2.3	2	1.6	34290	4.3	17640	54	0.1
56-43.8603-109.1917-2-12-						0-W06545	87950	-0.10	1483	46650	54	-104	18.5	159	-2.1	2	1.5	37310	3.8	16190	36	-0.1
56-43.8428-109.2453-2-12-						0-W06546	82080	-0.10	1209	47180	86	-119	21.0	213	-2.0	2	1.3	43130	3.3	16370	36	-0.1
56-43.8419-109.2472-2-12-						0-W06547	80470	-0.11	1035	39570	103	-104	22.1	232	-2.3	2	1.8	47430	6.1	15550	54	-0.1
56-43.8303-109.2686-2-12-						0-W06548	86040	-0.12	1526	41850	60	-105	17.9	149	-2.5	3	1.6	37640	3.4	15660	47	-0.2
56-43.8294-109.2664-2-12-						0-W06549	82530	-0.10	1421	41500	66	-101	22.2	189	-2.1	2	1.8	46570	4.0	14850	46	0.3
56-43.8275-109.1589-2-12-						0-W06550	85370	-0.09	1367	37130	98	-117	14.9	154	-1.8	2	2.0	31010	4.7	16600	55	0.4
56-43.8417-109.1714-2-12-						0-W06551	83680	-0.11	1182	42070	90	-104	21.1	183	-2.3	2	1.6	41550	4.2	11530	56	0.2
56-43.8639-109.1436-2-12-						0-W06552	81540	-0.11	1306	35920	91	148	17.6	166	-2.2	2	1.7	37590	4.3	15840	55	0.2
56-43.8642-109.1408-2-12-						0-W06553	80570	-0.09	1401	38440	71	141	17.8	151	-2.0	3	1.6	34700	4.7	17730	49	0.2
56-43.8833-109.1294-2-12-						0-W06554	52350	-0.06	579	23430	68	-75	5.9	41	2.9	5	1.4	16190	14.0	17080	40	0.5
56-43.8886-109.1308-2-12-						0-W06555	76490	-0.11	1132	37610	114	-102	25.4	288	-2.4	2	2.1	54670	6.9	13050	62	0.2
56-43.9108-109.0933-2-12-						0-W06556	79830	-0.11	1373	41350	78	-102	19.6	203	-2.3	2	1.8	41950	4.3	15730	52	-0.1
56-43.9114-109.0911-2-12-						0-W06557	78730	-0.12	1091	57760	45	-105	32.5	168	-2.6	3	1.5	75590	2.2	13060	34	-0.2
56-43.9819-109.6972-2-12-						0-W06558	83190	-0.09	1381	44710	81	-121	22.0	244	-1.9	2	1.4	38380	3.5	15200	40	0.1
56-43.9853-109.7239-2-12-						0-W06559	80600	-0.12	1075	44380	77	-104	25.1	195	-2.5	2	1.6	49180	3.8	16430	49	-0.2
56-43.9830-109.7250-2-12-						0-W06560	69490	-0.10	895	20430	84	-91	9.1	80	-1.9	4	1.6	25870	11.3	19360	49	0.3
56-43.9550-109.6842-2-12-						0-W06561	76000	-0.11	1142	51660	52	-101	24.0	296	-2.3	2	1.4	44560	3.1	11670	40	-0.1
56-43.9539-109.6856-2-12-						0-W06562	60890	-0.07	580	41080	74	194	8.5	59	5.0	4	1.2	21070	6.1	22960	35	0.3
56-43.9589-109.6669-2-12-						0-W06563	70030	-0.12	679	33290	101	-98	24.7	282	-2.4	3	2.0	51240	9.6	11550	53	0.2
56-43.9581-109.6653-2-12-						0-W06564	75020	-0.12	1000	34450	73	-101	17.1	121	-2.4	3	1.7	41050	12.1	16200	49	0.3
56-43.9319-109.6844-2-12-						0-W06565	63980	-0.08	790	23960	84	-85	12.0	81	3.0	4	1.6	27440	14.8	13240	46	0.4
56-43.9197-109.6908-2-12-						0-W06566	65060	-0.07	802	13700	96	-89	6.6	68	2.8	5	1.7	21560	14.3	18610	46	0.4
56-43.9186-109.6897-2-12-						0-W06567	72790	-0.13	897	52480	79	-102	27.0	368	-2.7	2	1.8	53940	3.3	11090	45	-0.2
56-43.9508-109.7269-2-12-						0-W06568	67520	-0.14	924	53820	62	-100	31.9	449	-2.9	2	1.6	64660	2.9	11360	40	-0.2
56-43.9625-109.7617-2-12-						0-W06569	81330	-0.10	1164	49120	56	-107	28.9	283	-2.2	2	1.6	45710	3.1	9344	47	-0.1
56-43.9597-109.7628-2-12-						0-W06570	79190	-0.10	1112	47940	77	-120	27.8	333	-2.0	2	1.2	42350	3.8	10540	35	0.4
56-43.0117-109.6575-2-12-						0-W06571	68920	-0.15	436	25580	310	270	18.5	97	-3.0	11	5.7	60620	44.3	14320	189	0.8
56-43.0194-109.6086-2-12-						0-W06572	67880	-0.10	1026	24370	79	-89	10.1	82	2.3	4	1.8	28760	13.7	17180	61	0.4
56-43.0172-109.6358-2-12-						0-W06573	65310	-0.13	685	32960	387	255	20.1	73	-2.7	14	4.8	78980	61.6	12890	229	0.8
56-43.0258-109.5947-2-12-						0-W06574	69470	-0.09	848	23580	94	-99	9.6	90	2.5	4	1.4	24910	11.7	18760	47	0.4
56-43.0403-109.5903-2-12-						0-W06575	67340	-0.16	569	29760	297	264	15.0	49	-3.2	11	4.1	49580	17.9	13620	155	0.5

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.8647-109.6939-2-12-						0-W06524	27210	561	18040	-30	-2	11.0	5.2	662	-1	-1	11.7	4843	108	3.4	194	0.220
56-43.8647-109.6917-2-12-						0-W06525	34800	771	18860	-33	-2	13.0	6.2	622	-1	-1	11.7	5266	141	4.2	-41	0.192
56-43.8761-109.1956-2-12-						0-W06526	27050	638	22000	-40	-3	16.2	3.9	1031	-1	-1	8.5	4213	140	-2.4	-78	0.242
56-43.9147-109.1731-2-12-						0-W06527	51430	756	20890	-42	-3	18.5	3.4	806	-1	-1	6.9	5439	163	-2.6	-56	0.225
56-43.9161-109.1722-2-12-						0-W06528	42530	823	20310	-36	-3	18.3	3.4	940	-1	-1	6.4	5482	198	-2.1	147	0.261
56-43.9278-109.1381-2-12-						0-W06529	32780	613	22700	-29	-2	12.6	5.1	1164	-1	-1	7.3	4371	116	2.7	-58	0.292
56-43.9342-109.1414-2-12-						0-W06530	42410	615	23120	-41	-3	20.9	4.1	801	-1	-1	5.4	3940	133	-2.4	-47	0.243
56-43.9356-109.1728-2-12-						0-W06531	30840	598	21750	-39	-3	14.1	4.5	766	-1	-1	10.0	5759	145	2.8	142	0.231
56-43.9389-109.0572-2-12-						0-W06532	45180	696	22010	-32	-3	17.7	4.7	936	-1	-1	6.1	5110	156	-2.1	-43	0.262
56-43.9033-109.3306-2-12-						0-W06533	46110	860	21430	-37	-3	21.5	4.2	867	-1	-1	3.9	4430	209	-2.3	104	0.292
56-43.8838-109.4617-2-12-						0-W06534	50900	827	19840	-48	-3	21.0	4.5	1012	-1	-1	6.3	5124	212	-2.7	-63	0.224
56-43.8903-109.5400-2-12-						0-W06535	54280	931	19210	-46	-3	22.5	4.1	1001	-2	-1	6.4	6075	247	-2.7	148	0.206
56-43.8961-109.5531-2-12-						0-W06536	53200	929	19590	-38	-3	21.7	4.1	833	-1	-1	6.0	5597	236	-2.1	82	0.222
56-43.8992-109.5061-2-12-						0-W06537	53190	997	18390	-36	-3	20.4	5.3	761	-1	-1	6.0	6570	282	-1.9	101	0.225
56-43.8047-109.2297-2-12-						0-W06539	34880	671	22700	-41	-3	17.4	6.0	678	-1	-1	8.3	5756	181	-2.2	144	0.224
56-43.8219-109.2078-2-12-						0-W06540	37480	629	24040	-40	-3	14.3	4.0	814	-1	-1	8.4	6388	163	-2.4	104	0.227
56-43.8200-109.2058-2-12-						0-W06541	22880	616	19060	48	-2	12.5	6.0	499	-1	-1	18.3	4627	104	3.6	166	0.172
56-43.8256-109.1617-2-12-						0-W06542	39640	764	22730	-31	-2	15.8	5.8	820	-1	-1	7.5	6723	210	3.1	-41	0.249
56-43.8253-109.1597-2-12-						0-W06543	31040	523	24640	-40	-3	13.0	5.6	937	-1	-1	9.1	4479	115	-2.3	-20	0.214
56-43.8750-109.1956-2-12-						0-W06544	35060	520	23550	-40	-3	11.7	3.9	1105	-2	-1	8.5	4404	109	-2.4	67	0.242
56-43.8603-109.1917-2-12-						0-W06545	34640	625	22780	-33	-3	14.1	3.7	1050	-1	-1	6.8	4286	121	-1.9	-79	0.300
56-43.8428-109.2453-2-12-						0-W06546	42230	715	22810	-31	-2	15.8	5.5	920	-1	-1	6.2	5020	150	-2.0		0.266
56-43.8419-109.2472-2-12-						0-W06547	32280	570	24270	-44	-3	15.2	5.6	874	-1	-1	8.9	4365	136	-2.2	-77	0.213
56-43.8303-109.2696-2-12-						0-W06548	31550	610	22340	-39	-3	13.1	2.5	1081	-2	-1	6.1	4478	115	-2.5	-54	0.357
56-43.8294-109.2664-2-12-						0-W06549	40700	702	21810	-33	-3	16.7	4.6	1086	-1	-1	7.0	4154	148	-1.8	-99	0.289
56-43.8275-109.1589-2-12-						0-W06550	31700	506	25610	-28	-2	10.6	5.1	1222	-1	-1	8.1	3904	107	-1.6	-20	0.237
56-43.8417-109.1714-2-12-						0-W06551	36480	572	23300	-39	-3	15.0	4.5	827	-1	-1	8.0	3221	115	-2.3	-56	0.204
56-43.8639-109.1436-2-12-						0-W06552	33740	546	25300	-37	-3	12.8	4.3	988	-1	-1	8.5	5053	117	-2.3	-68	0.224
56-43.8642-109.1408-2-12-						0-W06553	34620	530	24500	-33	-2	11.5	4.2	953	-1	-1	8.7	4241	111	-1.9	156	0.226
56-43.8833-109.1294-2-12-						0-W06554	16690	418	10970	53	-2	5.8	6.2	-238	-1	-1	11.0	3246	49	3.3	46	0.314
56-43.8889-109.1308-2-12-						0-W06555	34700	633	23020	-41	-3	16.5	5.3	743	-1	-1	8.5	5426	162	3.0	114	0.220
56-43.9108-109.0933-2-12-						0-W06556	37400	577	24560	-36	-3	14.6	4.0	797	-1	-1	8.6	4667	143	-3.4	131	0.217
56-43.9114-109.0911-2-12-						0-W06557	46220	1102	18940	-40	-3	28.9	4.2	807	-1	-1	3.4	6397	300	-2.5	-54	0.318
56-43.9819-109.6972-2-12-						0-W06558	47460	661	23410	-31	-2	13.2	4.3	995	-1	-1	5.6	4686	111	-1.9	-61	0.280
56-43.9853-109.7236-2-12-						0-W06559	40170	691	21130	-42	-3	18.0	3.7	889	-2	-1	6.1	4156	139	-2.5	98	0.284
56-43.9839-109.7250-2-12-						0-W06560	18910	526	18580	51	-2	8.7	5.0	512	-1	-1	13.2	3739	71	-2.1	-46	0.202
56-43.9550-109.6842-2-12-						0-W06561	54640	688	23160	-35	-3	21.0	3.9	1047	-1	-1	5.1	4389	139	-2.2	155	0.251
56-43.9539-109.6856-2-12-						0-W06562	29570	478	10260	79	-2	7.1	5.2	367	-1	-1	11.2	3151	66	3.7	46	0.312
56-43.9589-109.6669-2-12-						0-W06563	40700	738	18480	-40	-3	17.3	6.1	667	-1	-2	12.5	4608	162	3.3	140	0.160
56-43.9581-109.6653-2-12-						0-W06564	29870	664	20440	-39	-3	14.3	4.6	631	-1	-1	12.0	5630	135	-2.5	-78	0.192
56-43.9319-109.6844-2-12-						0-W06565	20820	545	16860	-28	-2	9.1	5.8	479	-1	-1	14.1	3749	68	3.7	-62	0.211
56-43.9197-109.6908-2-12-						0-W06566	13410	505	15190	57	-2	7.1	6.4	414	-1	-1	14.3	3517	61	4.9	-35	0.224
56-43.9186-109.6897-2-12-						0-W06567	51460	694	21840	-42	-3	23.7	3.5	798	-2	-1	5.7	4214	160	-2.6	90	0.221
56-43.9508-109.7269-2-12-						0-W06568	60360	836	20070	-44	-4	28.7	3.6	863	-2	-1	4.7	5415	208	-2.8	73	0.243
56-43.9625-109.7617-2-12-						0-W06569	57380	732	23500	-37	-3	16.6	3.4	927	-1	-1	5.0	4594	124	-2.1	84	0.244
56-43.9597-109.7628-2-12-						0-W06570	47850	710	23630	-32	-2	16.1	3.8	875	-1	-1	5.1	4422	143	-1.8	-44	0.275
56-43.0117-109.6575-2-12-						0-W06571	25640	744	19100	-52	-4	18.1	31.3	602	-2	-2	55.2	8313	127	7.4	148	0.217
56-43.0194-109.6686-2-12-						0-W06572	15940	552	17800	64	-3	9.4	6.3	388	-1	-1	14.3	4711	82	4.1	60	0.217
56-43.0172-109.6358-2-12-						0-W06573	21100	832	16230	-51	-3	17.1	26.2	-330	-2	-2	48.3	10010	158	8.3	134	0.124
56-43.0258-109.5947-2-12-						0-W06574	19870	557	17870	-25	-2	8.6	6.5	-303	-1	-1	13.1	3496	69	4.0	-31	0.210
56-43.0403-109.5903-2-12-						0-W06575	20280	742	14950	-54	-4	20.7	26.3	-329	-2	-2	26.2	7515	119	5.1	219	0.106

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.0467-109.5992-2-12-						C-W06576-07/23/77-12-	25-12.0-		-	-			5.6-	16-																				
56-43.0336-109.7556-2-12-						0-W06578-07/23/77-12-	23-13.0-		-	-			5.7-	20-		-3-6-2-6-4-3-1-2-1-3-4-2-												-1-	-	-	-	-	3.96
56-43.0353-109.7569-2-12-						0-W06579-07/23/77-12-	21-16.0-		-	-			5.5-	15-		-3-6-2-6-4-3-1-2-1-3-4-2-												-1-	-	-	-	-	2.42
56-43.0442-109.8239-2-12-						0-W06581-07/23/77-13-	23-16.0-		-	-			5.6-	35-		-3-6-3-6-4-2-1-2-1-3-4-3-												-1-	-	-	-	-	3.49
56-43.1331-109.6422-2-12-						0-W06582-07/23/77-16-	23-16.0-		-	-			5.5-	10-		-3-7-3-1-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	3.26
56-43.1342-109.6403-2-12-						0-W06583-07/23/77-16-	23-16.0-		-	-			5.5-	10-		-3-7-3-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	1.09
56-43.1142-109.6719-2-12-						0-W06584-07/23/77-16-	23-16.0-		-	-			5.7-	50-		-3-7-3-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	6.31
56-43.0847-109.6653-2-12-						0-W06585-07/23/77-17-	20-16.0-		-	-			5.6-	15-		-3-6-2-7-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.41
56-43.0883-109.7964-2-12-						0-W06586-07/23/77-14-	23-16.0-		-	-			5.6-	15-		-3-1-4-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.80
56-43.1114-109.7719-2-12-						0-W06587-07/23/77-15-	23-16.0-		-	-			5.6-	30-		-3-7-4-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.53
56-43.0822-109.8194-2-12-						0-W06588-07/23/77-14-	23-16.0-		-	-			5.7-	35-		-3-1-3-1-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	10.98
56-43.0836-109.6642-2-12-						C-W06589-07/23/77-17-	20-16.0-		-	-			5.6-	15-		-3-6-2-7-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.53
56-43.1242-109.7264-2-12-						0-W06590-07/23/77-15-	23-16.0-		-	-			5.4-	15-		-3-6-3-7-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.78
56-43.1189-109.7264-2-12-						0-W06591-07/23/77-15-	23-16.0-		-	-			5.4-	15-		-3-6-3-7-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.63
56-43.0956-109.7425-2-12-						0-W06592-07/23/77-15-	23-16.0-		-	-			5.5-	15-		-3-6-3-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	3.13
56-43.1317-109.6844-2-12-						0-W06593-07/23/77-15-	23-16.0-		-	-			5.8-	45-		-3-7-3-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.80
56-43.1294-109.7003-2-12-						0-W06594-07/23/77-15-	23-16.0-		-	-			5.6-	15-		-3-6-3-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.67
56-43.1283-109.7400-2-12-						C-W06595-07/23/77-15-	23-16.0-		-	-			5.8-	45-		-3-6-4-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.77
56-43.0844-109.8281-2-12-						0-W06596-07/23/77-14-	23-16.0-		-	-			5.7-	35-		-3-1-3-1-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	4.57
56-43.0350-109.8592-2-12-						0-W06597-07/23/77-14-	23-16.0-		-	-			5.7-	15-		-3-7-4-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.70
56-43.0456-109.8233-2-12-						0-W06598-07/23/77-13-	23-16.0-		-	-			5.7-	30-		-3-6-3-1-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.78
56-43.0442-109.7903-2-12-						0-W06599-07/23/77-13-	23-16.0-		-	-			5.5-	15-		-3-6-3-6-4-2-1-2-1-3-4-3-												-1-	-	-	-	-	2.34
56-43.0253-109.7775-2-12-						0-W06600-07/23/77-11-	20-11.0-		-	-			5.6-	15-		-3-6-3-6-3-2-1-2-1-3-3-4-												-1-	-	-	-	-	11.00
56-43.0208-109.7689-2-12-						0-W06601-07/23/77-11-	20-13.0-		-	-			5.8-	50-		-3-6-4-7-2-2-1-2-2-3-3-2-												-1-	-	-	-	-	8.16
56-43.0819-109.6278-2-12-						0-W06602-07/23/77-17-	20-16.0-		-	-			5.6-	15-		-3-1-2-1-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	3.20
56-43.0939-109.6289-2-12-						0-W06603-07/23/77-17-	20-16.0-		-	-			5.7-	10-		-3-1-3-1-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.91
56-43.0972-109.6317-2-12-						0-W06604-07/23/77-17-	20-16.0-		-	-			5.7-	10-		-3-1-3-1-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.69
56-43.0431-109.6722-2-12-						C-W06605-07/23/77-18-	20-16.0-		-	-			5.5-	15-		-3-7-3-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.37
56-43.0406-109.6750-2-12-						0-W06606-07/23/77-18-	20-16.0-		-	-			5.5-	15-		-3-7-3-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.51
56-43.0244-109.6819-2-12-						0-W06607-07/23/77-18-	20-16.0-		-	-			5.5-	15-		-3-7-3-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	2.78
56-43.3850-109.9731-2-12-						0-W06608-07/25/77- 6-	10-10.0-		-	-			6.2-	315-		-3-6-4-6-3-4-1-2-1-4-4-3-												-1-	-	-	-	-	4.90
56-43.3819-109.9711-2-12-						C-W06609-07/25/77- 6-	10-10.0-		-	-			6.3-	325-		-3-6-4-6-3-4-1-2-1-4-4-3-												-1-	-	-	-	-	5.16
56-43.4194-109.8519-2-12-						0-W06610-07/25/77- 7-	10-10.0-		-	-			6.2-	415-		-3-6-2-6-3-3-1-2-1-4-4-3-												-1-	-	-	-	-	4.42
56-43.3678-109.8686-2-12-						0-W06611-07/25/77- 8-	10-10.0-		-	-			6.0-	180-		-3-7-2-7-3-3-1-2-1-4-4-3-												-1-	-	-	-	-	8.87
56-43.3161-109.8519-2-12-						0-W06612-07/25/77-10-	15-10.0-		-	-			5.7-	43-		-3-6-3-6-3-3-1-2-1-4-3-3-												-1-	-	-	-	-	4.25
56-43.2933-109.8692-2-12-						0-W06613-07/25/77-10-	15-10.0-		-	-			6.7-	485-		-3-7-3-6-3-3-1-2-1-4-3-3-												-1-	-	-	-	-	2.84
56-43.4178-109.8922-2-12-						0-W06614-07/25/77- 7-	10-10.0-		-	-			6.2-	415-		-3-6-2-6-3-3-1-2-1-4-4-3-												-1-	-	-	-	-	4.47
56-43.3017-109.8011-2-12-						0-W06615-07/25/77-10-	15-10.0-		-	-			6.3-	415-		-3-6-4-6-3-3-1-2-1-3-3-3-												-1-	-	-	-	-	1.09
56-43.3025-109.7994-2-12-						0-W06616-07/25/77-10-	15-10.0-		-	-			6.8-	560-		-3-6-3-6-3-3-1-2-1-4-3-3-												-1-	-	-	-	-	3.67
56-43.3081-109.7811-2-12-						0-W06617-07/25/77-10-	15-10.0-		-	-			5.7-	1000-		-3-6-3-6-3-3-1-2-1-4-3-2-												-1-	-	-	-	-	5.51
56-43.3114-109.7544-2-12-						0-W06618-07/25/77-11-	15-10.0-		-	-			6.5-	600-		-3-6-3-6-3-3-1-2-1-4-3-2-												-1-	-	-	-	-	2.81
56-43.2528-109.8147-2-12-						0-W06619-07/25/77- 7-	9-11.0-		-	-			5.7-	50-		-3-6-4-6-3-2-1-3-1-3-3-3-												-1-	-	-	-	-	2.73
56-43.2417-109.8067-2-12-						C-W06620-07/25/77- 7-	10-12.0-		-	-			5.9-	610-		-3-6-3-6-3-3-2-2-1-3-3-3-												-1-	-	-	-	-	2.93
56-43.2311-109.7803-2-12-						0-W06621-07/25/77- 8-	11-11.0-		-	-			6.5-	590-		-3-6-4-6-3-3-2-1-1-3-2-3-												-1-	-	-	-	-	2.55
56-43.2261-109.7631-2-12-						0-W06622-07/25/77- 8-	12-12.0-		-	-			6.3-	600-		-3-6-3-6-3-3-1-1-1-4-3-3-												-1-	-	-	-	-	2.50
56-43.2253-109.7619-2-12-						0-W06623-07/25/77- 8-	14-10.0-		-	-			6.5-	600-		-3-6-3-6-3-3-1-2-1-4-4-3-												-1-	-	-	-	-	2.99
56-43.2106-109.7556-2-12-						0-W06624-07/25/77- 8-	12-13.0-		-	-			5.7-	1000-		-3-6-4-6-2-3-1-1-1-3-3-3-												-1-	-	-	-	-	5.32
56-43.2039-109.7417-2-12-						0-W06625-07/25/77- 8-	12-11.0-		-	-			6.1-	180-		-3-6-2-6-3-3-1-2-1-4-3-3-												-1-	-	-	-	-	2.56
56-43.1947-109.7361-2-12-						0-W06626-07/25/77- 8-	12-10.0-		-	-			6.3-	320-		-3-6-3-6-3-3-1-2-1-3-4-3-												-1-	-	-	-	-	5.76
56-43.1867-109.7353-2-15-						0-W06627-07/25/77- 8-	16-	-C-	-	-			-	-		-3-6-3-6- -1- -2-1-3-3-3-												-1-	-	-	-	-	3.08
56-43.1647-109.7206-2-12-						0-W06628-07/25/77- 9-	16-10.0-		-	-			6.5-	590-		-3-6-3-6-3-3-1-2-1-3-3-3-												-1-	-	-	-	-	2.97

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.0467-109.5992-2-12-						0-W06576	-5	-5	-5	14	-20	40	5	-10	-15	2	19
56-43.0336-109.7556-2-12-						0-W06578	-5	-5	-5	18	-20	-15	14	-10	-15	2	31
56-43.0353-109.7569-2-12-						0-W06579	-5	-5	-5	29	-20	33	17	-10	-15	2	22
56-43.0442-109.8239-2-12-						0-W06581	-5	-5	-5	24	-20	34	14	-10	-15	2	23
56-43.1331-109.6422-2-12-						0-W06582	-5	-5	-5	23	-20	20	7	-10	-15	2	25
56-43.1342-109.6403-2-12-						0-W06583	-5	7	5	56	-20	-15	6	-10	-15	2	15
56-43.1142-109.6719-2-12-						0-W06584	-5	6	-5	18	-20	-15	8	-10	-15	2	32
56-43.0847-109.6653-2-12-						0-W06585	-5	10	-5	23	-20	21	15	-10	-15	2	20
56-43.0883-109.7964-2-12-						0-W06586	-5	-5	-5	34	-20	39	11	-10	-15	2	24
56-43.1114-109.7719-2-12-						0-W06587	-5	5	-5	25	-20	18	10	-10	-15	2	22
56-43.0822-109.8194-2-12-						0-W06588	-5	7	-5	15	45	26	5	-10	-15	2	31
56-43.0836-109.6642-2-12-						0-W06589	-5	-5	-5	27	-20	-15	15	-10	-15	2	20
56-43.1242-109.7364-2-12-						0-W06590	-5	8	-5	28	-20	-15	10	-10	-15	2	23
56-43.1139-109.7264-2-12-						0-W06591	-5	-5	-5	29	-20	18	5	-10	-15	2	23
56-43.0956-109.7425-2-12-						0-W06592	-5	6	-5	17	-20	16	-5	-10	-15	2	20
56-43.1317-109.6844-2-12-						0-W06593	-5	-5	-5	27	-20	28	15	-10	-15	2	27
56-43.1294-109.7003-2-12-						0-W06594	-5	9	-5	24	-20	31	8	-10	-15	2	21
56-43.1283-109.7400-2-12-						0-W06595	-5	-5	-5	32	-20	35	12	-10	-15	2	25
56-43.0844-109.8281-2-12-						0-W06596	-5	9	-5	15	-20	27	5	-10	-15	2	27
56-43.0350-109.8592-2-12-						0-W06597	-5	-5	-5	25	-20	26	-5	-10	-15	2	25
56-43.0456-109.8233-2-12-						0-W06598	-5	-5	-5	26	-20	-15	14	-10	-15	2	34
56-43.0442-109.7903-2-12-						0-W06599	-5	-5	-5	45	-20	32	12	-10	-15	2	19
56-43.0253-109.7775-2-12-						0-W06600	-5	15	-5	40	-20	35	14	-10	-15	2	30
56-43.0208-109.7689-2-12-						0-W06601	-5	6	-5	18	-20	-15	-5	-10	-15	2	23
56-43.0819-109.6278-2-12-						0-W06602	-5	7	-5	25	-20	20	8	-10	-15	2	21
56-43.0939-109.6289-2-12-						0-W06603	-5	-5	-5	23	-20	25	9	-10	-15	2	24
56-43.0972-109.6217-2-12-						0-W06604	-5	-5	-5	28	-20	29	7	-10	-15	2	21
56-43.0431-109.6722-2-12-						0-W06605	-5	-5	-5	32	-20	29	8	-10	-15	2	20
56-43.0406-109.6750-2-12-						0-W06606	-5	6	-5	22	-20	-15	16	-10	-15	2	20
56-43.0244-109.6819-2-12-						0-W06607	-5	-5	-5	27	-20	23	7	-10	-15	2	21
56-43.3850-109.9731-2-12-						0-W06608	-5	7	-5	20	-20	22	9	-10	-15	2	30
56-43.3819-109.9711-2-12-						0-W06609	-5	-5	5	26	-20	27	7	-10	-15	1	33
56-43.4194-109.8919-2-12-						0-W06610	-5	-5	5	19	-20	-15	-5	-10	-15	1	24
56-43.3678-109.8686-2-12-						0-W06611	6	10	-5	-10	-20	-15	13	-10	-15	2	34
56-43.3161-109.8519-2-12-						0-W06612	-5	7	-5	15	-20	-15	-5	-10	-15	2	19
56-43.2933-109.8092-2-12-						0-W06613	-5	6	-5	20	-20	23	10	-10	-15	2	25
56-43.4178-109.8522-2-12-						0-W06614	-5	-5	-5	16	-20	-15	-5	-10	-15	1	26
56-43.3017-109.8011-2-12-						0-W06615	-5	-5	-5	56	-20	23	-5	-10	-15	2	13
56-43.3025-109.7994-2-12-						0-W06616	-5	-5	-5	20	-20	-15	5	-10	-15	1	15
56-43.3081-109.7811-2-12-						0-W06617	-5	8	-5	11	-20	16	-5	-10	-15	1	14
56-43.3114-109.7544-2-12-						0-W06618	-5	6	-5	32	-20	-15	-5	-10	-15	1	22
56-43.2528-109.8147-2-12-						0-W06619	-5	-5	-5	13	-20	-15	5	-10	-15	2	21
56-43.2417-109.8067-2-12-						0-W06620	-5	-5	-5	15	-20	-15	5	-10	-15	1	29
56-43.2311-109.7803-2-12-						0-W06621	-5	-5	-5	23	-20	-15	-5	-10	-15	-1	29
56-43.2261-109.7631-2-12-						0-W06622	-5	-5	-5	22	-20	-15	-5	-10	-15	-1	26
56-43.2253-109.7619-2-12-						0-W06623	-5	-5	-5	13	-20	-15	-5	-10	-15	1	31
56-43.2106-109.7556-2-12-						0-W06624	-5	8	-5	-10	-20	-15	6	-10	-15	1	16
56-43.2039-109.7417-2-12-						0-W06625	-5	-5	-5	33	-20	24	9	-10	-15	2	24
56-43.1947-109.7361-2-12-						0-W06626	-5	5	5	23	-20	24	-5	-10	-15	2	38
56-43.1867-109.7353-2-15-						0-W06627	-5	-5	-5	26	-20	18	6	-10	-15	2	16
56-43.1647-109.7206-2-12-						0-W06628	-5	5	-5	16	-20	-15	-5	-10	-15	1	30

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.0457-	109.5992-	2-	12-	0-	W06576	65720	-0.11	442	33110	111	72	6.61	222	-0.5							
56-	43.0336-	109.7556-	2-	12-	0-	W06578	67020	-0.14	677	36410	326	1178	14.8	55	-2.8	15	5.4	61470	36.4	13980	169	0.7
56-	43.0353-	109.7569-	2-	12-	0-	W06579	70620	-0.09	1114	37050	98	-103	15.2	141	-1.7	3	1.7	31730	11.4	15590	49	0.3
56-	43.0442-	109.8239-	2-	12-	0-	W06581	66560	-0.12	785	33420	109	142	13.5	123	-2.3	4	2.3	35110	15.0	13450	75	0.4
56-	43.1331-	109.6422-	2-	12-	0-	W06582	69670	-0.12	829	27810	113	-95	12.8	102	2.0	6	2.3	39550	16.2	16230	65	0.3
56-	43.1342-	109.6403-	2-	12-	0-	W06583	76130	-0.13	1109	54180	38	-104	32.8	188	-2.7	2	1.6	75870	2.5	17450	25	0.2
56-	43.1142-	109.6719-	2-	12-	0-	W06584	71260	-0.11	603	21120	229	233	12.2	62	1.9	8	3.0	43200	41.7	15090	106	0.5
56-	43.0847-	109.6653-	2-	12-	0-	W06585	67710	-0.48	732	30210	80	-91	13.5	97	-2.1	3	1.7	31450	10.7	15500		0.3
56-	43.0883-	109.7964-	2-	12-	0-	W06586	66890	-0.43	653	34650	92	98	14.5	120	-1.9	4	1.9	37220	19.0	16050		0.3
56-	43.1114-	109.7719-	2-	12-	0-	W06587	71990	-0.40	1071	27190	103	-92	12.3	97	-1.7	4	1.7	30490	12.0	16340		0.3
56-	43.0822-	109.8194-	2-	12-	0-	W06588	69760	-0.65	584	37240	327	330	20.3	104	-2.9	13	5.8	65760	49.7	10720	239	0.8
56-	43.0836-	109.6642-	2-	12-	0-	W06589	69540	-0.52	471	30380	86	-104	9.4	62	-2.2	5	1.8	27490	12.0	12150		0.4
56-	43.1242-	109.7364-	2-	12-	0-	W06590	68470	-0.39	816	22830	80	-90	12.5	79	2.7	4	1.7	28280	11.6	16090		0.8
56-	43.1189-	109.7264-	2-	12-	0-	W06591	66950	-0.36	816	23440	91	-85	9.5	79	1.8	4	1.4	24710	11.0	19100		0.7
56-	43.0956-	109.7425-	2-	12-	0-	W06592	67380	-0.51	672	20250	115	194	7.3	36	-2.2	6	2.3	23660	17.2	16240		0.4
56-	43.1317-	109.6844-	2-	12-	0-	W06593	60190	-0.39	677	24060	96	-86	14.3	156	-1.9	4	1.6	42180	13.4	15770		0.7
56-	43.1294-	109.7003-	2-	12-	0-	W06594	66290	-0.39	652	32760	107	-89	13.6	141	-1.8	4	1.9	35740	13.4	15670		0.5
56-	43.1283-	109.7400-	2-	12-	0-	W06595	66310	-0.45	1044	25600	103	-89	13.5	110	2.6	4	1.8	35800	14.2	17360		0.3
56-	43.0844-	109.8291-	2-	12-	0-	W06596	57570	-0.49	690	32640	112	201	12.3	94	-2.3	6	2.3	36560	19.6	13220		0.4
56-	43.0350-	109.8592-	2-	12-	0-	W06597	67070	-0.40	671	24510	90	-93	12.7	74	-1.9	4	1.7	31980	11.0	20140		-0.2
56-	43.0456-	109.8233-	2-	12-	0-	W06598	67440	-0.36	892	23820	103	-89	9.6	84	2.9	4	1.6	28990	12.3	16420		0.7
56-	43.0442-	109.7903-	2-	12-	0-	W06599	76820	-0.49	832	34420	111	164	14.4	122	-2.3	4	2.2	43470	13.2	12050		0.7
56-	43.0253-	109.7775-	2-	12-	0-	W06600	65790	-0.62	473	36920	298	313	17.3	76	-2.8	12	4.9	58380	36.6	11390		0.7
56-	43.0208-	109.7689-	2-	12-	0-	W06601	62450	-0.06	455	23690	215	210	10.6	77	-2.2	9	3.0	50250	58.7	13210	110	0.7
56-	43.0819-	109.6278-	2-	12-	0-	W06602	62930	-0.50	726	30280	102	103	12.9	104	-2.1	5	2.1	37370	22.3	13330		0.4
56-	43.0939-	109.6289-	2-	12-	0-	W06603	63100	-0.38	734	21100	87	-84	10.7	59	2.6	5	1.5	26540	12.9	17730		-0.2
56-	43.0972-	109.6317-	2-	12-	0-	W06604	65830	-0.40	928	32560	114	-91	12.0	116	-1.7	4	2.0	31480	14.8	15100		0.9
56-	43.0431-	109.6722-	2-	12-	0-	W06605	69660	-0.50	598	32660	94	-103	15.8	134	-2.2	4	1.8	38650	10.9	15390		0.4
56-	43.0406-	109.6750-	2-	12-	0-	W06606	61650	-0.46	629	29110	70	-86	12.6	100	-2.0	4	1.5	29150	11.3	15130		-0.3
56-	43.0244-	109.6819-	2-	12-	0-	W06607	63740	-0.39	830	30680	94	101	13.5	104	-1.7	4	1.9	33170	11.7	13440		-0.2
56-	43.3850-	109.9731-	2-	12-	0-	W06608	34600	-0.36	267	32520	49	88	5.8	134	3.5	5	1.3	17040	9.8	15430		0.4
56-	43.3819-	109.9711-	2-	12-	0-	W06609	37460	-0.49	379	38110	52	-85	6.3	139	4.2	4	1.5	21550	9.9	16570		0.4
56-	43.4194-	109.8919-	2-	12-	0-	W06610	34550	-0.44	264	22100	42	61	4.8	74	-1.7	5	1.1	13480	19.1	14960		0.6
56-	43.3678-	109.8686-	2-	12-	0-	W06611	50040	-0.42	455	11750	128	-72	6.7	51	3.1	8	2.5	41820	69.4	18540		0.7
56-	43.3161-	109.8519-	2-	12-	0-	W06612	53610	-0.34	676	18370	168	-79	5.5	36	-1.5	7	2.2	26070	26.0	19170		0.5
56-	43.2933-	109.8092-	2-	12-	0-	W06613	73920	-0.48	996	24010	105	-104	13.0	79	-2.0	4	2.1	33200	15.7	17000		0.8
56-	43.4178-	109.8922-	2-	12-	0-	W06614	34700	-0.44	278	25790	47	91	4.9	74	1.7	5	1.1	13470	19.6	15620		0.4
56-	43.3017-	109.8011-	2-	12-	0-	W06615	75480	-0.55	1097	52520	44	-105	31.2	188	-2.5	2	1.4	65200	2.9	16370		-0.3
56-	43.3025-	109.7994-	2-	12-	0-	W06616	41350	-0.33	532	22370	100	-63	5.6	67	-1.3	5	1.3	18080	33.2	13140		0.4
56-	43.3091-	109.7811-	2-	12-	0-	W06617	34480	-0.40	295	20740	178	83	5.3	87	-1.7	8	2.1	29100	50.5	11200	177	0.7
56-	43.3114-	109.7544-	2-	12-	0-	W06618	45530	-0.41	473	29990	50	-68	8.6	77	-1.8	4	1.1	20690	16.2	11140		0.4
56-	43.2528-	109.8147-	2-	12-	0-	W06619	51790	-0.30	618	15880	107	90	3.3	-9	-1.3	5	1.6	16280	15.4	20960		0.8
56-	43.2417-	109.8067-	2-	12-	0-	W06620	30010	-0.31	228	29490	42	-49	3.1	65	1.9	4	1.0	9434	21.9	13420		0.6
56-	43.2311-	109.7803-	2-	12-	0-	W06621	33380	-0.37	197	27560	33	78	3.5	54	-1.6	4	0.9	10820	13.8	12260		0.3
56-	43.2261-	109.7631-	2-	12-	0-	W06622	29290	-0.34	173	25870	28	55	2.7	33	1.9	3	0.7	10140	11.7	12110		0.2
56-	43.2253-	109.7619-	2-	12-	0-	W06623	33450	-0.31	302	18060	28	67	4.8	48	1.2	4	0.8	9675	13.2	14580		-0.2
56-	43.2106-	109.7556-	2-	12-	0-	W06624	35800	-0.32	392	20280	169	96	4.8	70	-1.3	8	1.9	21060	38.5	11240	125	0.8
56-	43.2039-	109.7417-	2-	12-	0-	W06625	69660	-0.46	887	24020	92	-100	13.1	106	1.9	4	2.0	33770	14.1	16370		0.4
56-	43.1947-	109.7361-	2-	12-	0-	W06626	35760	-0.10	-184	35430	54	-82	7.1	177	3.6	4	1.4	21550	9.8	19240	44	0.3
56-	43.1867-	109.7353-	2-	12-	0-	W06627	63370	-0.10	976	26360	111	-85	12.2	93	-2.0	5	1.9	35050	18.1	19120	69	0.3
56-	43.1647-	109.7206-	2-	12-	0-	W06628	29180	-0.06	235	31220	36	-50	4.3	61	2.1	4	0.9	11640	17.7	13470	26	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.0467-109.5992-2-12-						0-W06576	27510	573	17730	-39	-3	12.1	7.6	579	-1	-1	14.9	5064	110	4.3	113	0.220
56-43.0336-109.7556-2-12-						0-W06578	18430	710	16710	81	-4	23.4	28.1	-310	-2	3	27.0	9873	138	5.8	184	0.147
56-43.0353-109.7569-2-12-						0-W06579	29050	539	18960	-28	-2	10.5	6.2	495	-1	-1	11.4	4107	112	-2.1		0.212
56-43.0442-109.8236-2-12-						0-W06581	26250	512	17450	-39	-3	12.3	8.3	591	-1	-1	15.9	4497	94	3.1	-48	0.219
56-43.1331-109.6422-2-12-						0-W06582	24470	642	18010	-43	-3	13.8	7.0	452	-1	-2	15.9	6297	122	4.7	-108	0.205
56-43.1342-109.6403-2-12-						0-W06583	49030	1049	17720	-40	-3	27.6	3.5	1005	-2	-1	3.9	7194	342	-2.5	-51	0.279
56-43.1142-109.6719-2-12-						0-W06584	12510	508	18940	-37	-3	10.2	18.1	-357	-2	-1	50.4	7153	141	5.5	93	0.125
56-43.0847-109.6653-2-12-						0-W06585	22140	483	19360	-45		10.9		639	-1	-1	11.2	4087	86		64	0.215
56-43.0883-109.7964-2-12-						0-W06586	30360	559	18120	-40		11.7	9.0	730	-1	-1	11.6	4420	114		79	0.241
56-43.1114-109.7719-2-12-						0-W06587	22090	570	19660	-36		10.2	9.4	521	-1	-1	12.7	4375	92	8.9	-34	0.199
56-43.0822-109.8194-2-12-						0-W06588	28160	754	19590	-64		20.3	38.9	-366	-2	3	57.5	9549	128	19.2	127	0.191
56-43.0836-109.6642-2-12-						0-W06589	19970	420	23030	-46		9.9		546	-1	2	10.1	3817	71		66	0.250
56-43.1242-109.7364-2-12-						0-W06590	19860	538	16880	69		9.2	9.7	445	-1	-1	12.4	3707	73		-39	0.224
56-43.1189-109.7264-2-12-						0-W06591	19160	542	17990	-30		8.4	10.8	464	-1	-1	13.7	4158	74	-3.9	102	0.192
56-43.0956-109.7425-2-12-						0-W06592	11080	353	21530	-45		10.0	19.9	442	-1	-1	22.3	4797	63	11.2	75	0.140
56-43.1317-109.6844-2-12-						0-W06593	21830	554	17110	65		11.3	7.4	455	-1	-1	13.9	4398	91		94	0.201
56-43.1294-109.7003-2-12-						0-W06594	30180	544	18350	-40		10.9	13.5	626	-1	-1	12.4	4802	107	7.0	-40	0.215
56-43.1283-109.7400-2-12-						0-W06595	17510	557	19430	115		11.4	9.4	569	-1	-1	16.3	4317	76	8.3	-51	0.170
56-43.0844-109.8281-2-12-						0-W06596	26590	512	15930	-47		11.4		-302	-1	-1	19.3	5512	87	11.6	186	0.237
56-43.0350-109.8592-2-12-						0-W06597	17440	539	18940	-41		10.1		624	-1	-1	12.0	3569	78		-54	0.225
56-43.0456-109.8233-2-12-						0-W06598	20130	555	17840	-34		8.5		494	-1	-1	13.6	4619	83	-3.9	64	0.204
56-43.0442-109.7903-2-12-						0-W06599	26480	521	26460	-49		14.0		707	-1	-1	10.8	4952	103		93	0.217
56-43.0253-109.7775-2-12-						0-W06600	32380	752	19420	-59		17.6	31.4	-365	-2	-2	50.9	8974	120	8.3	150	0.216
56-43.0208-109.7689-2-12-						0-W06601	12260	589	20380	-37	-2	11.7	19.4	-330	-2	2	54.8	8884	157	7.4	116	0.149
56-43.0819-109.6278-2-12-						0-W06602	28040	512	16330	-45		11.2		488	-1	-1	17.3	4329	100	6.0	70	0.185
56-43.0936-109.6289-2-12-						0-W06603	16740	524	17030	53		8.7	5.7	603	-1	-1	13.4	3771	71		-58	0.217
56-43.0972-109.6317-2-12-						0-W06604	27040	505	20350	-38		10.3	11.6	611	-1	-1	17.2	4507	97		88	0.156
56-43.0431-109.6722-2-12-						0-W06605	28050	524	18980	-45		12.9	10.8	661	-1	-1	13.2	3990	97	7.5	91	0.180
56-43.0406-109.6750-2-12-						0-W06606	25370	445	17310	-41		10.2		439	-1	-1	12.9	3710	78		66	0.195
56-43.0244-109.6819-2-12-						0-W06607	25130	455	20480	-37		10.7		512	-1	-1	11.7	4411	87		-38	0.238
56-43.3850-109.9731-2-12-						0-W06608	17500	1196	3040	81		5.5		-337	-1	-1	7.4	2145	53		139	0.662
56-43.3819-109.9711-2-12-						0-W06609	23040	1405	3103	-45		7.5		-433	-1	-1	8.0	2365	59		175	0.645
56-43.4194-109.8919-2-12-						0-W06610	17440	343	5162	-42		5.1		-204	-2	-1	7.2	2338	50		118	0.614
56-43.3678-109.8686-2-12-						0-W06611	8516	610	9542	-41		6.5	15.3	-256	-2	-1	44.6	4789	84	9.0	99	0.199
56-43.3161-109.8519-2-12-						0-W06612	11500	280	18020	58		6.2	18.2	-210	-1	-1	34.0	4466	66	10.5	47	0.125
56-43.2933-109.8052-2-12-						0-W06613	19600	573	19090	-43		11.0		421	-1	-1	14.8	4311	76		82	0.192
56-43.4178-109.8922-2-12-						0-W06614	18520	463	4992	-39		5.3		-227	-2	-1	7.5	2967	50		138	0.596
56-43.3017-109.8011-2-12-						0-W06615	56350	1001	18500	-50		25.4		825	-1	-1	3.9	5358	232		-53	0.279
56-43.3025-109.7994-2-12-						0-W06616	16670	317	10960	-28		6.2	13.5	346	-1	-1	23.1	3691	60	8.2	57	0.159
56-43.3081-109.7811-2-12-						0-W06617	11100	303	9988	-35		8.5	21.7	-199	-1	-1	39.5	4530	67	10.9	-37	0.139
56-43.3114-109.7544-2-12-						0-W06618	20520	387	10220	-40		6.6		-215	-1	-1	9.5	2744	64		46	0.296
56-43.2528-109.8147-2-12-						0-W06619	7096	186	18630	-28		5.3	11.5	-184	-1	-1	18.3	2876	41	-3.3	55	0.149
56-43.2417-109.8067-2-12-						0-W06620	16490	274	4810	-27		3.8		-177	-1	-1	8.0	2617	39	-3.4	70	0.366
56-43.2311-109.7803-2-12-						0-W06621	18090	317	4776	-35		4.4		-216	-1	-1	6.1	2402	34		-35	0.418
56-43.2261-109.7631-2-12-						0-W06622	14000	248	4299	-34		3.4		-164	-1	-1	5.2	2031	30		91	0.481
56-43.2253-109.7619-2-12-						0-W06623	21160	172	5677	-29		4.3		-157	-1	-1	5.9	2695	40	-3.8	-34	0.507
56-43.2106-109.7556-2-12-						0-W06624	11890	318	10540	-28		7.4	21.4	-178	-1	-1	32.5	4938	64	8.1	69	0.164
56-43.2039-109.7417-2-12-						0-W06625	19750	543	19310	-43		11.3		403	-1	-1	14.0	3308	82	9.3	-42	0.183
56-43.1947-109.7361-2-12-						0-W06626	18780	1600	2951	65	-2	7.3	4.3	-404	-1	-1	7.1	2814	49	4.2	265	0.811
56-43.1967-109.7353-2-15-						0-W06627	24530	430	19490	-35	-3	10.0	7.2	602	-1	-1	18.2	4804	89	2.7	-45	0.169
56-43.1647-109.7206-2-12-						0-W06628	20510	325	4755	-21	-1	4.1	2.9	-185	-1	-1	7.1	2484	36	3.0	30	0.418

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples ①

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.1636-109.7208-2-12-			0-	W06629-	07/25/77-	9-	14-12.0-	-	-	5.7-	40-		-3-6-3-6-3-3-2-3-1-4-3-3-	-1-	-	-	-	-	3.68
56-43.1783-109.7469-2-12-			0-	W06630-	07/25/77-	10-	13-11.0-	-	-	5.8-	1000-		-3-6-4-6-2-2-1-3-3-2-3-3-	-1-	-	-	-	-	4.24
56-43.1775-109.7450-2-12-			0-	W06631-	07/25/77-	10-	13-11.0-	-	-	5.7-	1050-		-3-6-4-6-2-2-1-1-3-3-2-3-	-1-	-	-	-	-	7.24
56-43.1603-109.7447-2-12-			0-	W06632-	07/25/77-	10-	12-10.0-	-	-	5.8-	900-		-3-6-4-6-3-2-1-1-1-4-3-3-	-1-	-	-	-	-	5.67
56-43.1597-109.8206-2-12-			0-	W06633-	07/25/77-	12-	13-12.0-	-	-	5.7-	40-		-3-6-4-6-3-3-1-2-1-3-3-3-	-1-	-	-	-	-	2.83
56-43.1606-109.8194-2-12-			0-	W06634-	07/25/77-	12-	14-12.0-	-	-	5.7-	43-		-3-6-4-6-3-3-1-2-1-4-3-3-	-1-	-	-	-	-	2.87
56-43.1689-109.8358-2-12-			0-	W06635-	07/25/77-	12-	16-10.0-	-	-	5.9-	45-		-3-6-4-6-3-3-1-3-1-4-3-3-	-1-	-	-	-	-	3.21
56-43.1681-109.8394-2-12-			0-	W06636-	07/25/77-	12-	18-11.0-	-	-	5.7-	50-		-3-6-4-6-3-2-1-2-1-3-3-3-	-1-	-	-	-	-	4.04
56-43.1592-109.8467-2-12-			0-	W06637-	07/25/77-	13-	20-14.0-	-	-	5.8-	30-		-3-6-4-6-3-3-1-2-1-3-4-3-	-1-	-	-	-	-	3.02
56-43.1489-109.8442-2-12-			0-	W06638-	07/25/77-	13-	19-12.0-	-	-	5.7-	45-		-3-6-4-6-3-3-1-2-1-3-3-3-	-1-	-	-	-	-	2.69
56-43.1397-109.8708-2-12-			0-	W06639-	07/25/77-	13-	18-11.0-	-	-	5.9-	40-		-3-6-3-6-3-3-1-2-1-3-3-3-	-1-	-	-	-	-	4.93
56-43.1381-109.8689-2-15-			0-	W06640-	07/25/77-	14-	18-	-0-	-	-	-		-3-6-4-6-	-1-	-2-1-3-4-3-	-1-	-	-	-	-	12.69
56-43.1372-109.8803-2-12-			0-	W06641-	07/25/77-	14-	20-16.0-	-	-	5.7-	45-		-3-6-3-6-3-3-1-2-1-4-3-3-	-1-	-	-	-	-	2.41
56-43.1258-109.9003-2-15-			0-	W06642-	07/25/77-	14-	21-	-	-	-	-		-3-6-4-6-	-1-	-2-1-3-3-3-	-1-	-	-	-	-	2.57
56-43.9992-109.2619-2-12-			0-	W06643-	07/08/77-	8-	17- 9.0-	-	-	6.1-	140-		-1-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	1.78
56-43.9989-109.2650-2-12-			0-	W06644-	07/08/77-	8-	19-10.0-	-	-	6.1-	120-		-1-6-3-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	1.72
56-43.9000-109.5078-2-12-			0-	W06645-	07/09/77-	13-	20- 8.0-	-	-	5.7-	50-		-1-6-4-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-	1.29
56-43.8622-109.4989-2-12-			0-	W06646-	07/09/77-	13-	21- 9.0-	-	-	5.5-	30-		-1-6-3-6-2-3-1-2-3-2-2-1-	-1-	-	-	-	-	1.46
56-43.9972-109.4119-2-12-			0-	W06647-	07/08/77-	11-	17- 9.0-	-	-	5.9-	85-		-1-6-4-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	1.77
56-43.9933-109.4069-2-12-			0-	W06648-	07/08/77-	11-	17-10.0-	-	-	5.9-	90-		-1-6-3-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-	1.74
56-43.9781-109.4053-2-12-			0-	W06649-	07/08/77-	12-	20-10.0-	-	-	5.9-	90-		-1-6-4-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-	1.38
56-43.9744-109.3881-2-12-			0-	W06650-	07/08/77-	12-	24-12.0-	-	-	6.1-	120-		-1-6-3-6-3-3-1-2-1-4-3-1-	-1-	-	-	-	-	1.70
56-43.9622-109.3781-2-12-			0-	W06651-	07/08/77-	12-	24-13.0-	-	-	5.9-	80-		-1-6-4-6-3-2-1-2-1-2-3-1-	-1-	-	-	-	-	1.57
56-43.9536-109.3939-2-12-			0-	W06652-	07/08/77-	13-	21-10.0-	-	-	5.9-	80-		-1-6-4-6-3-3-1-2-1-4-4-1-	-1-	-	-	-	-	1.45
56-43.9531-109.3917-2-12-			0-	W06653-	07/08/77-	13-	21- 9.0-	-	-	5.9-	85-		-1-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	1.77
56-43.9375-109.3614-2-12-			0-	W06654-	07/08/77-	14-	24-	-	-	6.1-	140-		-1-6-4-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-	2.24
56-43.9281-109.3594-2-12-			0-	W06655-	07/08/77-	14-	24- 6.0-	-	-	6.1-	120-		-1-6-3-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-	1.83
56-43.9153-109.3633-2-12-			0-	W06656-	07/08/77-	14-	20-10.0-	-	-	6.1-	140-		-1-6-3-6-3-3-1-2-2-2-3-1-	-1-	-	-	-	-	2.07
56-43.9144-109.3636-2-12-			0-	W06657-	07/08/77-	14-	24-10.0-	-	-	5.9-	90-		-1-6-4-6-3-2-1-2-2-2-3-1-	-1-	-	-	-	-	1.59
56-43.9244-109.3486-2-12-			0-	W06658-	07/08/77-	15-	19- 9.0-	-	-	6.1-	120-		-1-6-3-6-3-2-1-2-1-3-3-1-	-1-	-	-	-	-	1.69
56-43.9042-109.3286-2-12-			0-	W06659-	07/08/77-	15-	19-12.0-	-	-	5.9-	100-		-1-6-2-6-3-2-1-2-1-3-2-1-	-1-	-	-	-	-	1.61
56-43.9942-109.4786-2-15-			0-	W06660-	07/08/77-	12-	24-	-	-	-	-		-1-6-3-7-	-	- -2-1-3-4-1-	-1-	-	-	-	-	2.62
56-43.9861-109.4878-2-15-			0-	W06661-	07/08/77-	12-	24-	-	-	-	-		-1-6-3-7-	-1-	-2-1-2-4-1-	-1-	-	-	-	-	1.80
56-43.9828-109.4950-2-15-			0-	W06662-	07/08/77-	12-	24-	-	-	-	-		-1-6-2-6-	-	- -2-1-4-3-1-	-1-	-	-	-	-	2.53
56-43.9817-109.4939-2-12-			0-	W06663-	07/08/77-	12-	26-13.0-	-	-	6.1-	120-		-1-6-3-6-2-2-1-2-1-3-2-1-	-1-	-	-	-	-	2.66
56-43.6819-109.4667-2-99-			0-	W06664-	07/11/77-	11-	27-	-0-	-	-	-		-1-6-4-6-	-	- -3-4-2-2-1-	-1-	-	-	-	-	3.48
56-43.8156-109.5431-2-12-			0-	W06665-	07/09/77-	11-	19- 5.0-	-	-	5.7-	30-		-1-6-4-6-3-2-1-2-1-3-2-1-	-1-	-	-	-	-	2.63
56-43.8381-109.5328-2-12-			0-	W06666-	07/09/77-	11-	19- 5.0-	-	-	5.7-	30-		-1-6-3-6-3-2-1-2-3-3-2-1-	-1-	-	-	-	-	1.33
56-43.8392-109.5356-2-12-			0-	W06667-	07/09/77-	11-	21- 9.0-	-	-	5.5-	40-		-1-6-4-6-3-3-1-2-3-2-2-1-	-1-	-	-	-	-	1.32
56-43.8567-109.5203-2-12-			0-	W06668-	07/09/77-	12-	20- 8.0-	-	-	5.5-	50-		-1-6-4-6-2-3-1-2-1-3-2-1-	-1-	-	-	-	-	3.39
56-43.8783-109.5125-2-12-			0-	W06669-	07/09/77-	12-	20- 9.0-	-	-	5.7-	50-		-1-6-3-6-2-3-1-2-1-4-2-1-	-1-	-	-	-	-	1.36
56-43.8906-109.5339-2-12-			0-	W06670-	07/09/77-	12-	19- 8.0-	-	-	5.7-	30-		-1-6-4-6-2-3-1-2-1-3-2-1-	-1-	-	-	-	-	1.28
56-43.8919-109.5328-2-12-			0-	W06671-	07/09/77-	12-	21-11.0-	-	-	5.5-	30-		-1-6-4-6-3-2-1-2-1-2-3-1-	-1-	-	-	-	-	1.27
56-43.8158-109.5667-2-12-			0-	W06672-	07/09/77-	11-	19- 7.0-	-	-	5.7-	40-		-1-6-4-6-3-2-1-2-2-2-2-1-	-1-	-	-	-	-	1.57
56-43.8211-109.5675-2-12-			0-	W06673-	07/09/77-	11-	19- 9.0-	-	-	5.5-	40-		-1-6-4-6-2-3-1-2-2-2-2-1-	-1-	-	-	-	-	1.56
56-43.8219-109.5875-2-12-			0-	W06674-	07/09/77-	11-	19- 9.0-	-	-	5.7-	40-		-1-6-4-6-3-3-1-2-1-3-3-1-	-1-	-	-	-	-	1.49
56-43.8303-109.5869-2-12-			0-	W06675-	07/09/77-	11-	20- 8.0-	-	-	5.7-	50-		-1-6-4-6-2-3-1-2-1-4-3-1-	-1-	-	-	-	-	1.29
56-43.8481-109.5947-2-12-			0-	W06676-	07/09/77-	12-	20- 9.0-	-	-	5.5-	40-		-1-6-3-6-3-2-1-2-1-3-2-1-	-1-	-	-	-	-	1.48
56-43.8469-109.5986-2-12-			0-	W06677-	07/09/77-	12-	22-11.0-	-	-	5.7-	30-		-1-6-4-6-2-3-1-2-1-3-3-1-	-1-	-	-	-	-	1.51
56-43.8589-109.6081-2-12-			0-	W06678-	07/09/77-	13-	23-11.0-	-	-	5.7-	35-		-1-6-4-6-3-3-1-2-1-2-3-1-	-1-	-	-	-	-	3.39
56-43.8833-109.6147-2-12-			0-	W06679-	07/09/77-	13-	21- 8.0-	-	-	5.2-	40-		-1-6-4-6-2-2-1-2-1-3-2-1-	-1-	-	-	-	-	1.54

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.1636-109.7208-2-12-						0-W06629	-5	8	-5	18	-20	19	6	-10	-15	2	18
56-43.1783-109.7469-2-12-						0-W06630	-5	6	-5	13	-20	-15	-5	-10	-15	2	18
56-43.1775-109.7450-2-12-						0-W06631	-5	8	-5	12	-20	-15	-5	-10	-15	1	14
56-43.1603-109.7447-2-12-						0-W06632	-5	10	-5	10	-20	-15	-5	-10	-15	1	14
56-43.1597-109.8206-2-12-						0-W06633	-5	-5	-5	23	-20	-15	8	-10	-15	2	29
56-43.1606-109.8194-2-12-						0-W06634	-5	8	-5	13	-20	17	-5	-10	-15	2	21
56-43.1689-109.8358-2-12-						0-W06635	-5	-5	-5	18	-20	-15	9	-10	-15	2	24
56-43.1681-109.8394-2-12-						0-W06636	-5	12	-5	16	-20	-15	-5	-10	-15	2	19
56-43.1592-109.8467-2-12-						0-W06637	-5	6	-5	-10	-20	-15	-5	-10	-15	2	14
56-43.1489-109.8442-2-12-						0-W06638	-5	-5	-5	32	-20	30	12	-10	-15	2	26
56-43.1397-109.8708-2-12-						0-W06639	-5	6	-5	18	-20	-15	5	-10	-15	2	18
56-43.1381-109.8689-2-15-						0-W06640	12	5	-5	-10	-20	-15	-5	-10	-15	2	10
56-43.1372-109.8803-2-12-						0-W06641	-5	-5	-5	32	-20	39	6	-10	-15	2	22
56-43.1258-109.9003-2-15-						0-W06642	-5	-5	6	32	-20	27	-5	-10	-15	2	22
56-43.9992-109.2619-2-12-						0-W06643	-5	-5	-5	28	-20	37	10	-10	-15	2	26
56-43.9989-109.2650-2-12-						0-W06644	-5	-5	-5	34	-20	49	9	-10	-15	2	25
56-43.9000-109.5078-2-12-						0-W06645	-5	-5	-5	34	-20	62	-5	-10	-15	2	17
56-43.8622-109.4989-2-12-						0-W06646	-5	-5	-5	27	-20	68	-5	-10	-15	2	18
56-43.9972-109.4119-2-12-						0-W06647	-5	-5	-5	33	-20	38	11	-10	-15	2	20
56-43.9933-109.4069-2-12-						0-W06648	-5	-5	-5	38	-20	62	13	-10	-15	2	23
56-43.9781-109.4053-2-12-						0-W06649	-5	-5	-5	35	-20	49	8	-10	-15	2	16
56-43.9744-109.3881-2-12-						0-W06650	-5	5	-5	38	-20	46	5	-10	-15	2	24
56-43.9622-109.3781-2-12-						0-W06651	-5	-5	5	17	-20	61	12	-10	-15	2	21
56-43.9536-109.3939-2-12-						0-W06652	-5	-5	-5	20	-20	43	8	-10	-15	2	19
56-43.9531-109.3917-2-12-						0-W06653	-5	-5	-5	34	-20	46	10	-10	-15	2	20
56-43.9375-109.3614-2-12-						0-W06654	-5	-5	-5	51	-20	26	7	-10	-15	2	25
56-43.9281-109.3594-2-12-						0-W06655	-5	-5	-5	30	-20	28	13	-10	-15	2	19
56-43.9153-109.3653-2-12-						0-W06656	-5	-5	-5	32	-20	21	11	-10	-15	3	23
56-43.9144-109.3636-2-12-						0-W06657	-5	-5	-5	31	-20	32	9	-10	-15	2	20
56-43.9244-109.3486-2-12-						0-W06658	-5	-5	-5	34	-20	33	5	-10	-15	2	25
56-43.9042-109.3286-2-12-						0-W06659	-5	-5	-5	30	-20	43	14	-10	-15	2	21
56-43.9942-109.4786-2-15-						0-W06660	-5	5	-5	18	-20	45	12	-10	-15	2	26
56-43.9861-109.4878-2-15-						0-W06661	-5	-5	-5	32	-20	46	10	-10	-15	2	22
56-43.9828-109.4950-2-15-						0-W06662	-5	-5	-5	35	-20	34	13	-10	-15	2	30
56-43.9817-109.4939-2-12-						0-W06663	-5	-5	-5	21	-20	34	8	-10	-15	2	81
56-43.6819-109.4667-2-99-						0-W06664	-5	-5	-5	30	-20	40	6	-10	-15	2	17
56-43.8156-109.5431-2-12-						0-W06665	-5	5	5	24	-20	35	11	-10	-15	2	29
56-43.8381-109.5328-2-12-						0-W06666	-5	-5	-5	29	-20	57	-5	-10	-15	2	16
56-43.8392-109.5356-2-12-						0-W06667	5	-5	-5	36	-20	63	12	-10	-15	-1	26
56-43.8567-109.5203-2-12-						0-W06668	-5	7	-5	26	-20	17	10	-10	-15	2	28
56-43.8783-109.5125-2-12-						0-W06669	-5	6	5	33	-20	44	7	-10	-15	2	16
56-43.8906-109.5339-2-12-						0-W06670	-5	-5	-5	34	-20	62	6	-10	-15	2	12
56-43.8919-109.5328-2-12-						0-W06671	-5	-5	5	43	-20	58	-5	-10	-15	2	17
56-43.8158-109.5667-2-12-						0-W06672	-5	-5	-5	32	-20	45	17	-10	-15	2	14
56-43.8211-109.5675-2-12-						0-W06673	-5	5	5	26	-20	41	5	-10	-15	2	17
56-43.8219-109.5875-2-12-						0-W06674	-5	-5	-5	23	-20	48	-5	-10	-15	2	16
56-43.8303-109.5859-2-12-						0-W06675	-5	-5	-5	34	-20	68	-5	-10	-15	2	15
56-43.8481-109.5947-2-12-						0-W06676	-5	-5	-5	31	-20	51	-5	-10	-15	2	19
56-43.8469-109.5986-2-12-						0-W06677										2	18
56-43.8589-109.6081-2-12-						0-W06678	-5	5	-5	19	-20	-15	6	-10	-15	2	27
56-43.8833-109.6147-2-12-						0-W06679	-5	-5	-5	39	-20	33	6	-10	-15	2	18

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.1636-109.7208-2-12-						0-W06629	58420	-0.08	714	22590	124	-90	6.9	68	-1.4	6	1.8	25750	21.9	19650	59	0.4
56-43.1783-109.7469-2-12-						0-W06630	35600	-0.08	296	18130	120	125	3.1	76	-1.5	6	1.8	19660	32.4	10990	83	0.6
56-43.1775-109.7456-2-12-						0-W06631	35660	-0.10	258	23520	177	97	4.8	92	-1.9	11	2.8	34480	61.3	12520	124	0.9
56-43.1603-109.7447-2-12-						0-W06632	31430	-0.32	282	21230	177	91	3.5	70	-1.3	8	2.0	21820	40.3	8597	138	0.7
56-43.1497-109.8206-2-12-						0-W06633	68900	-0.46	818	24720	104	-100	12.9	90	-2.0	5	2.1	34260	15.3	22610		-0.3
56-43.1606-109.8194-2-12-						0-W06634	52310	-0.41	599	24120	114	129	4.4	35	1.6	5	1.7	21220	13.3	20620		1.0
56-43.1689-109.8358-2-12-						0-W06635	53360	-0.36	659	25150	133	-76	5.8	32	1.6	6	2.0	22130	15.2	17860		0.3
56-43.1681-109.8394-2-12-						0-W06636	50900	-0.32	618	18090	153	132	5.1	25	-1.3	7	2.1	22280	26.4	19520		0.3
56-43.1592-109.8467-2-12-						0-W06637	52550	-0.35	594	15950	149	90	2.7	18	-1.4	6	2.2	20110	20.4	17850		0.4
56-43.1489-109.8442-2-12-						0-W06638	67860	-0.44	675	24880	86	-87	11.6	83	-2.0	3	1.6	31190	12.2	16680		0.3
56-43.1397-109.8708-2-12-						0-W06639	52660	-0.36	690	17990	140	99	5.9	37	-1.5	7	2.1	30660	31.5	17910		0.4
56-43.1381-109.8689-2-15-						0-W06640	42390	1.51	403	20070	262	-75	11.2	81	-1.6	10	2.8	89670	112.7	15530	250	1.1
56-43.1372-109.8903-2-12-						0-W06641	70060	-0.46	1062	31410	110	-98	15.2	128	-2.1	4	2.0	36240	11.2	16360		0.5
56-43.1258-109.9003-2-15-						0-W06642	65200	-0.47	881	31810	76	-87	15.8	123	-2.1	3	1.7	35550	10.9	18490		0.8
56-43.9992-109.2619-2-12-						0-W06643	77290	-0.43	1248	38400	75	-98	20.0	147	-2.0	2	1.5	45060	5.4	12850		-0.2
56-43.9989-109.2650-2-12-						0-W06644	80470	-0.41	1289	42340	78	-99	18.5	185	-1.9	2	1.5	41520	3.9	16420		-0.2
56-43.9980-109.5078-2-12-						0-W06645	71790	-0.58	907	46290	97	-113	38.9	271	-2.6	2	1.6	76380	4.3	9615		0.8
56-43.9822-109.4986-2-12-						0-W06646	69570	-0.55	1010	43270	70	-98	33.0	242	-2.5	2	1.5	67430	4.0	10230		-0.3
56-43.9972-109.4119-2-12-						0-W06647	76090	-0.43	1242	38060	95	121	25.4	268	-2.0	2	1.9	54310	6.3	14790		0.5
56-43.9933-109.4069-2-12-						0-W06648	81340	-0.40	1283	40280	79	-98	17.8	170	-1.8	2	1.5	33940	3.7	15340		-0.2
56-43.9781-109.4053-2-12-						0-W06649	82540	-0.52	1227	45720	95	146	28.3	184	-2.4	3	1.8	56030	3.4	13620		-0.3
56-43.9744-109.3881-2-12-						0-W06650	82590	-0.07	1097	42820	60	-105	21.3	174	-2.1	2	1.6	44310	4.2	13240	45	-0.1
56-43.9632-109.3781-2-12-						0-W06651	80690	-0.06	1341	43070	90	-104	19.9	214	-1.9	2	1.3	38600	3.3	13330	47	0.2
56-43.9536-109.3939-2-12-						0-W06652	81310	-0.08	1316	46880	91	-101	26.1	249	-2.4	2	1.8	47060	4.1	13960	54	-0.1
56-43.9531-109.3917-2-12-						0-W06653	79940	-0.06	1410	42050	92	-123	18.2	188	-2.0	2	1.3	34890	4.0	15130	43	0.3
56-43.9375-109.3614-2-12-						0-W06654	71130	-0.11	965	32700	76	-93	18.7	155	-2.2	3	1.8	43840	7.0	16570	54	0.7
56-43.9281-109.3594-2-12-						0-W06655	70810	-0.12	1157	41580	58	-102	22.9	209	-2.4	3	1.5	48140	4.6	13110	38	-0.2
56-43.9153-109.3653-2-12-						0-W06656	75320	-0.09	1230	34210	66	-93	16.7	146	-1.9	3	1.5	41750	5.0	18140	43	0.2
56-43.9144-109.3636-2-12-						0-W06657	83040	-0.09	1355	42690	69	-115	17.8	176	-1.8	2	1.5	34020	3.7	14130	45	0.3
56-43.9244-109.3486-2-12-						0-W06658	82700	-0.11	1136	40060	75	-102	19.4	150	-2.3	2	1.8	42420	4.3	17220	47	0.3
56-43.9042-109.3286-2-12-						0-W06659	83150	-0.13	1342	41680	70	-104	20.1	185	-2.4	2	1.4	41400	3.9	14620	48	-0.2
56-43.9042-109.4786-2-15-						0-W06660	75780	-0.09	1234	31220	77	-92	16.8	141	-1.8	3	1.7	41460	10.7	18290	51	0.3
56-43.9861-109.4878-2-15-						0-W06661	83040	-0.09	1307	43120	78	-113	19.2	183	-1.8	3	1.5	39730	5.1	15740	36	0.2
56-43.9828-109.4950-2-15-						0-W06662	72540	-0.10	977	27760	89	-91	16.7	132	-2.2	3	1.9	41990	10.7	15340	49	0.3
56-43.9817-109.4939-2-12-						0-W06663	83250	-0.11	845	48500	60	-82	11.6	59	5.3	4	1.5	30290	5.2	22200	35	0.2
56-43.9819-109.4667-2-99-						0-W06664	88350	-0.10	1354	40190	68	-95	21.2	122	-2.1	2	1.7	47986	4.5	13930	49	-0.1
56-43.8156-109.5431-2-12-						0-W06665	76560	-0.08	881	27010	114	-109	11.1	102	-1.6	4	1.9	28540	13.4	16450	54	0.4
56-43.8381-109.5328-2-12-						0-W06666	71890	-0.13	869	46330	74	-101	37.4	239	-2.6	2	1.6	71740	4.0	13250	51	0.2
56-43.8392-109.5256-2-12-						0-W06667	64110	-0.13	968	44230	64	-103	43.7	321	-2.8	2	1.4	92970	4.1	14790	46	-0.2
56-43.8567-109.5203-2-12-						0-W06668	71550	-0.08	896	22890	105	-88	11.9	83	1.9	5	2.0	31840	22.4	17870	65	0.4
56-43.8783-109.5125-2-12-						0-W06669	73350	-0.10	893	43650	101	-116	33.0	236	-2.1	3	1.3	65950	3.8	11770	40	0.3
56-43.8906-109.5339-2-12-						0-W06670	68410	-0.13	947	45730	88	-103	38.1	242	-2.8	2	1.7	70120	3.4	11580	44	0.4
56-43.8916-109.5378-2-12-						0-W06671	70300	-0.13	943	44090	70	-102	38.1	270	-2.7	3	1.4	81490	3.7	11680	42	0.3
56-43.8158-109.5667-2-12-						0-W06672	82700	-0.10	1388	43960	69	-101	27.7	134	-2.2	3	1.5	52490	3.2	12280	45	0.2
56-43.8211-109.5675-2-12-						0-W06673	83970	-0.10	1173	42450	96	-118	23.4	142	-2.1	3	1.6	48840	3.8	16140	40	0.3
56-43.8219-109.5875-2-12-						0-W06674	73550	-0.13	966	44040	90	-100	33.4	199	-2.7	2	1.8	63560	4.5	13020	53	0.2
56-43.8302-109.5869-2-12-						0-W06675	75150	-0.13	1191	47320	63	144	35.1	204	-2.8	2	1.4	61950	2.9	10590	50	0.2
56-43.8481-109.5947-2-12-						0-W06676	76550	-0.11	1297	46790	66	-100	31.3	166	-2.3	2	1.5	59540	4.2	13880	43	0.2
56-43.8469-109.5986-2-12-						0-W06677	78540	-0.10	1057	49200	95	-115	26.2	161	-2.1	3	1.6	52310	3.8	10750	40	0.2
56-43.9589-109.6081-2-12-						0-W06678	69500	-0.06	797	24460	108	-92	13.2	79	3.0	4	2.1	35170	21.2	17280	62	0.4
56-43.8833-109.6147-2-12-						0-W06679	80520	-0.07	1109	43770	100	-103	25.3	151	-2.1	2	1.5	50270	4.5	14270	41	-0.1

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER: STATE, LATITUDE, LONGITUDE, DOE LAB, SAMPLE TYPE, REPLICATE	LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued). Concentrations reported in weight parts per million (ppm)															U/Th RATIO
		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.1636-109.7208-2-12-	0-W06620	15810	947	17880	-24	-2	7.1	9.8	-263	-1	-1	23.2	4117	68	3.9	-28	0.156
56-43.1793-109.7469-2-12-	0-W06630	11800	741	10690	-26	-2	7.0	9.3	-170	-1	-1	25.2	3324	49	4.6	-18	0.168
56-43.1775-109.7456-2-12-	0-W06631	11710	889	10310	-32	-2	9.9	13.3	253	-1	-1	46.6	6489	82	7.3	-24	0.155
56-43.1603-109.7447-2-12-	0-W06632	11470	306	9662	-27		7.3	18.8	285	-1	-1	35.7	5213	66	11.8	-29	0.159
56-43.1597-109.8206-2-12-	0-W06633	20390	567	19150	-45		10.9		505	-1	-1	15.5	4387	78		-49	0.183
56-43.1606-109.8194-2-12-	0-W06634	9375	291	16640	-38		6.3		-205	-1	-1	25.2	3585	54		48	0.114
56-43.1685-109.8258-2-12-	0-W06635	12550	346	16740	48		6.2	13.6	-200	-1	-1	23.9	3727	55	10.3	53	0.134
56-43.1681-109.8304-2-12-	0-W06636	9019	243	18020	-29		6.1	17.4	-189	-1	-1	30.3	4058	59	12.1	47	0.133
56-43.1592-109.8467-2-12-	0-W06637	7955	198	18500	-29		6.5	17.5	-201	-1	-1	24.0	3343	45	5.8	-30	0.126
56-43.1489-109.8442-2-12-	0-W06638	19520	522	18100	50		9.9		406	-1	-1	11.9	3443	76		79	0.226
56-43.1397-109.8708-2-12-	0-W06639	8430	303	17730	53		6.9	10.8	-210	-1	1	29.5	5142	69	11.0	76	0.167
56-43.1381-109.8889-2-15-	0-W06640	8650	503	18530	-39		7.9	28.8	-225	2	2	64.3	9551	164	16.1	75	0.167
56-43.1372-109.8803-2-12-	0-W06641	21990	484	18220	-44		11.3		477	-1	-1	16.3	4034	92		-39	0.148
56-43.1258-109.9003-2-15-	0-W06642	26410	533	17640	50		11.7		363	-2	-1	12.9	4224	107		152	0.159
56-43.0997-109.2619-2-12-	0-W06643	32730	639	21540	-41		14.7		947	-1	-1	7.4	5110	140		46	0.241
56-43.0986-109.2650-2-12-	0-W06644	32710	697	22490	-37		14.0		845	-1	-1	6.0	4883	151		83	0.287
56-43.0900-109.3078-2-12-	0-W06645	35690	952	18770	-56		25.3		740	-1	-1	6.1	5452	215		-140	0.211
56-43.0822-109.4989-2-12-	0-W06646	44490	784	18760	-53		19.4		1028	-1	-1	7.4	5367	214		100	0.197
56-43.0972-109.4119-2-12-	0-W06647	38240	689	23350	-42		15.3		1078	-1	-1	7.7	6491	182		129	0.230
56-43.0933-109.4069-2-12-	0-W06648	35230	571	23310	-37		12.0	6.5	969	-1	-1	6.2	4002	114		-69	0.281
56-43.0791-109.4053-2-12-	0-W06649	39370	773	21620	-51		19.1		1144	-1	-1	7.1	4341	144		-98	0.194
56-43.0744-109.3881-2-12-	0-W06650	30770	666	22310	-33	-2	16.6	3.9	860	-1	-1	6.5	4353	138	-1.6	112	0.262
56-43.0622-109.3781-2-12-	0-W06651	44460	650	22470	-30	-2	14.2	4.9	1035	-1	-1	6.4	4074	135	-1.5	-42	0.245
56-43.0536-109.3939-2-12-	0-W06652	44470	649	23640	-38	-2	18.2	4.8	1070	-1	-1	7.6	4067	135	-1.9	-53	0.191
56-43.0531-109.3917-2-12-	0-W06653	37600	573	24660	-31	-1	13.1	5.1	1173	-1	-1	7.4	4563	100	-1.3	-45	0.239
56-43.0375-109.3814-2-12-	0-W06654	26210	571	19350	-37	-3	14.6	5.3	635	-1	-1	10.3	4544	140	-2.2	-22	0.217
56-43.0281-109.3594-2-12-	0-W06655	32730	700	22310	-41	-3	16.4	3.8	855	-2	-1	7.6	4760	167	-2.4	130	0.241
56-43.0153-109.3653-2-12-	0-W06656	25050	601	20860	-30	-2	13.9	4.3	759	-1	-1	7.3	4449	151	-1.9	101	0.284
56-43.0144-109.3636-2-12-	0-W06657	37880	586	24240	-28	-2	12.6	4.4	1032	-1	-1	6.2	3515	114	-1.6	-35	0.256
56-43.0244-109.3486-2-12-	0-W06658	31740	637	22080	-39	-3	15.5	3.5	809	-2	-1	6.5	3867	122	-2.1	73	0.260
56-43.0042-109.3286-2-12-	0-W06659	41560	608	23490	-40	-3	14.2	3.1	1196	-1	-1	7.6	3789	116	-2.4	160	0.212
56-43.0042-109.4786-2-15-	0-W06660	24720	572	21530	-29	-2	13.3	5.1	765	-1	-1	10.3	4697	120	3.1	135	0.254
56-43.0061-109.4878-2-15-	0-W06661	31270	606	22820	-28	-2	14.6	4.5	771	-1	-1	6.1	4117	153	-1.8	-38	0.295
56-43.0828-109.4950-2-15-	0-W06662	21080	549	19740	-36	-3	13.9	5.8	728	-1	-1	10.1	4376	122	3.0	145	0.250
56-43.0817-109.4039-2-12-	0-W06663	30820	645	11460	70	-3	9.2	4.4	499	-1	-1	9.5	4054	76	3.1	80	0.260
56-43.6819-109.4667-2-99-	0-W06664	25790	577	20400	-35	-3	13.7	4.1	923	-1	-1	6.9	5128	142	-2.0	108	0.504
56-43.8156-109.5431-2-12-	0-W06665	20870	566	21710	-27	-2	9.3	7.3	458	-1	-1	14.6	4499	79	3.2	-25	0.180
56-43.8381-109.5328-2-12-	0-W06666	40780	871	18990	-43	-3	22.6	5.5	778	-1	-1	7.3	5120	213	-2.6	158	0.182
56-43.8392-109.5356-2-12-	0-W06667	60290	1054	17190	-49	-3	25.0	4.1	768	-1	-1	6.8	8083	339	-2.7	163	0.194
56-43.8567-109.5203-2-12-	0-W06668	17570	534	20530	55	-2	10.0	7.5	595	-1	-1	19.9	4393	86	3.3	115	0.170
56-43.8793-109.5125-2-12-	0-W06669	40820	978	18950	-36	-3	19.4	4.5	566	-1	-1	5.8	5819	260	-1.9	-25	0.234
56-43.8906-109.5336-2-12-	0-W06670	54550	808	18560	-44	-3	24.0	4.7	900	-2	-1	6.7	5898	205	-2.4	135	0.191
56-43.8916-109.5328-2-12-	0-W06671	53740	962	18750	-46	-3	23.3	4.6	795	-1	-1	6.2	7473	265	-2.7	195	0.205
56-43.8158-109.5667-2-12-	0-W06672	47100	745	21080	-36	-3	18.4	4.3	797	-1	-1	7.1	4886	163	-2.3	43	0.221
56-43.8211-109.5675-2-12-	0-W06673	46130	739	20940	-35	-3	16.4	4.8	802	-1	-1	7.8	5378	160	-1.9	74	0.200
56-43.8219-109.5875-2-12-	0-W06674	52210	821	18790	-44	-3	23.4	4.7	588	-1	-1	6.8	4350	198	-2.4	-61	0.219
56-43.8303-109.5869-2-12-	0-W06675	56140	897	18720	-43	-3	24.6	3.8	933	-2	-1	5.7	5792	181	-2.7	-139	0.226
56-43.8481-109.5947-2-12-	0-W06676	50740	830	19830	-37	-3	20.8	3.5	770	-1	-1	6.2	5297	195	-2.0	-46	0.239
56-43.8660-109.5986-2-12-	0-W06677	54850	833	19840	-34	-2	18.4	4.8	681	-1	-1	7.0	4860	180	-1.9	-41	0.216
56-43.8789-109.6081-2-12-	0-W06678	15510	513	20370	61	-1	10.5	7.3	437	-1	-1	19.9	4246	85	2.5	130	0.170
56-43.8833-109.6147-2-12-	0-W06679	50680	783	20190	-33	-2	17.5	4.9	784	-1	-1	7.2	5772	178	-1.6	-43	0.214

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.8856-109.6161-2-12-						0-W06680-07/09/77-13-			21-10.0-		-	-	5.6-	30-		-1-6-4-6-3-2-1-2-1-3-2-1-		-1-	-	-	-	-	-	1.45
56-43.8847-109.6181-2-12-						0-W06681-07/09/77-13-			21-10.0-		-	-	5.2-	35-		-1-6-3-6-3-3-1-2-1-2-3-1-		-1-	-	-	-	-	-	1.90
56-43.9061-109.6231-2-12-						0-W06682-07/09/77-13-			21-11.0-		-	-	5.5-	30-		-1-6-3-6-3-3-1-2-1-2-2-1-		-1-	-	-	-	-	-	1.94
56-43.6658-109.4986-2-12-						0-W06683-07/11/77-14-			26-12.0-		-	-	5.7-	150-		-1-6-4-6-3-2-1-2-3-2-3-1-		-1-	-	-	-	-	-	1.69
56-43.9075-109.6219-2-12-						0-W06684-07/09/77-13-			23-11.0-		-	-	5.5-	30-		-1-6-4-6-2-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	1.26
56-43.8639-109.4892-2-12-						0-W06685-07/09/77-13-			20- 9.0-		-	-	5.7-	50-		-1-6-4-6-2-3-1-2-1-4-3-1-		-1-	-	-	-	-	-	1.22
56-43.8656-109.4886-2-12-						0-W06686-07/09/77-13-			20- 7.0-		-	-	5.5-	50-		-1-6-3-6-3-2-1-2-1-3-4-1-		-1-	-	-	-	-	-	3.04
56-43.8883-109.4567-2-12-						0-W06687-07/09/77-13-			18- 6.0-		-	-	5.5-	40-		-1-6-3-6-2-3-1-2-1-3-3-1-		-1-	-	-	-	-	-	3.10
56-43.8897-109.4575-2-12-						0-W06688-07/09/77-13-			18- 6.0-		-	-	5.7-	50-		-1-6-4-6-2-3-1-2-1-4-3-1-		-1-	-	-	-	-	-	1.37
56-43.7714-109.5506-2-12-						0-W06689-07/09/77-15-			22-11.0-		-	-	5.6-	30-		-1-6-3-6-2-3-1-2-2-2-2-1-		-1-	-	-	-	-	-	1.90
56-43.7489-109.5342-2-12-						0-W06690-07/09/77-15-			22-13.0-		-	-	5.7-	30-		-1-6-4-6-3-2-1-2-3-3-2-1-		-1-	-	-	-	-	-	1.33
56-43.7311-109.5489-2-12-						0-W06691-07/09/77-16-			23-12.0-		-	-	5.7-	50-		-1-6-4-6-2-3-1-2-2-3-2-1-		-1-	-	-	-	-	-	1.33
56-43.7261-109.5608-2-12-						0-W06692-07/09/77-16-			24-14.0-		-	-	5.5-	40-		-1-6-4-6-3-2-1-2-2-3-2-1-		-1-	-	-	-	-	-	1.50
56-43.7228-109.5522-2-15-						0-W06693-07/09/77-17-			28-		-	-	-	-		-1-6-3-6- -1- -2-2-3-2-1-		-1-	-	-	-	-	-	2.59
56-43.7794-109.3347-2-12-						0-W06694-07/11/77-10-			20-10.0-		-	-	5.9-	110-		-1-6-4-6-3-2-1-2-1-3-4-1-		-1-	-	-	-	-	-	1.84
56-43.8000-109.3392-2-12-						0-W06695-07/11/77-11-			22- 7.0-		-	-	5.9-	120-		-1-6-4-6-3-3-1-2-1-3-4-1-		-1-	-	-	-	-	-	1.85
56-43.8230-109.3719-2-12-						0-W06696-07/11/77-11-			24-11.0-		-	-	5.7-	120-		-1-6-4-6-4-3-1-2-1-3-4-1-		-1-	-	-	-	-	-	2.72
56-43.4328-109.8908-2-11-						0-W06697-07/25/77- 7-			10-12.0-		-	-	6.6-	500-		-3-6-4-6-3-3-1-2-1-4-4-3-		-1-	-	-	-	-	-	3.21
56-43.7283-109.6344-2-12-						0-W06698-07/10/77- 7-			13- 8.0-		-	-	5.7-	90-		-1-6-4-6-2-3-1-2-3-2-2-1-		-1-	-	-	-	-	-	1.92
56-43.7286-109.6378-2-12-						0-W06699-07/10/77- 7-			13- 8.0-		-	-	5.7-	120-		-1-6-4-6-2-2-1-2-3-3-2-1-		-1-	-	-	-	-	-	1.84
56-43.7508-109.6819-2-12-						0-W06700-07/10/77- 8-			14- 9.0-		-	-	5.7-	120-		-1-6-4-6-3-2-1-2-3-2-2-1-		-1-	-	-	-	-	-	1.97
56-43.7686-109.6639-2-12-						0-W06701-07/10/77- 8-			18- 6.0-		-	-	5.9-	100-		-1-6-4-6-2-3-1-2-1-2-2-1-		-1-	-	-	-	-	-	1.76
56-43.7803-109.6678-2-12-						0-W06702-07/10/77- 8-			16- 6.0-		-	-	5.7-	90-		-1-6-4-6-3-3-1-2-1-2-3-1-		-1-	-	-	-	-	-	4.57
56-43.7811-109.6700-2-12-						0-W06703-07/10/77- 8-			16- 9.0-		-	-	5.7-	100-		-1-6-4-6-3-2-1-2-1-4-3-1-		-1-	-	-	-	-	-	1.79
56-43.7914-109.6953-2-12-						0-W06704-07/10/77- 9-			18- 7.0-		-	-	5.9-	100-		-1-6-4-6-3-3-1-2-1-3-3-1-		-1-	-	-	-	-	-	1.82
56-43.7950-109.6906-2-12-						0-W06705-07/10/77- 9-			18- 7.0-		-	-	5.9-	120-		-1-6-4-6-3-3-1-2-1-3-2-1-		-1-	-	-	-	-	-	1.82
56-43.7972-109.6972-2-12-						0-W06706-07/10/77- 9-			16- 6.0-		-	-	5.7-	100-		-1-6-4-6-2-2-1-2-4-4-2-1-		-1-	-	-	-	-	-	2.71
56-43.7622-109.5361-2-12-						0-W06707-07/09/77-15-			24-13.0-		-	-	5.7-	110-		-1-6-4-6-2-3-1-2-3-2-2-1-		-1-	-	-	-	-	-	1.65
56-43.7733-109.5161-2-12-						0-W06708-07/09/77-15-			26-14.0-		-	-	5.9-	100-		-1-6-4-6-2-2-1-1-2-3-2-1-		-1-	-	-	-	-	-	2.17
56-43.7789-109.5092-2-12-						0-W06709-07/09/77-15-			28-14.0-		-	-	5.7-	110-		-1-6-3-6-3-2-1-2-3-2-2-1-		-1-	-	-	-	-	-	1.70
56-43.7804-109.5104-2-12-						0-W06710-07/09/77-15-			29-12.0-		-	-	5.7-	100-		-1-6-4-6-2-3-1-2-3-2-2-1-		-1-	-	-	-	-	-	1.53
56-43.7953-109.4972-2-12-						0-W06711-07/09/77-16-			26-11.0-		-	-	5.9-	100-		-1-6-4-6-2-3-1-2-1-3-3-1-		-1-	-	-	-	-	-	1.82
56-43.7969-109.4978-2-12-						0-W06712-07/09/77-16-			26-11.0-		-	-	5.7-	110-		-1-6-4-6-3-2-1-2-1-2-5-1-		-1-	-	-	-	-	-	1.73
56-43.8044-109.4847-2-12-						0-W06713-07/09/77-16-			26-14.0-		-	-	5.9-	120-		-1-6-4-6-2-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	1.83
56-43.8128-109.4756-2-12-						0-W06714-07/09/77-17-			24-14.0-		-	-	5.7-	100-		-1-6-3-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	3.47
56-43.8089-109.4722-2-12-						0-W06715-07/09/77-17-			21- 9.0-		-	-	5.7-	100-		-1-6-4-6-2-3-1-2-1-2-3-1-		-1-	-	-	-	-	-	1.77
56-43.8128-109.4664-2-12-						0-W06716-07/09/77-17-			20- 8.0-		-	-	5.7-	110-		-1-6-4-6-3-2-1-2-1-3-4-1-		-1-	-	-	-	-	-	1.68
56-43.8094-109.4658-2-12-						0-W06717-07/09/77-18-			18- 9.0-		-	-	5.9-	110-		-1-6-3-6-2-3-1-2-1-4-4-1-		-1-	-	-	-	-	-	1.81
56-43.7725-109.4931-2-12-						0-W06718-07/09/77-18-			17- 9.0-		-	-	5.7-	110-		-1-6-4-6-2-3-1-2-3-3-3-1-		-1-	-	-	-	-	-	5.14
56-43.7717-109.4942-2-12-						0-W06719-07/09/77-18-			16-11.0-		-	-	5.7-	120-		-1-6-4-6-3-2-1-2-2-3-3-1-		-1-	-	-	-	-	-	1.92
56-43.7633-109.7981-2-12-						0-W06720-07/10/77-13-			24-10.0-		-	-	6.1-	220-		-1-6-3-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	2.93
56-43.7644-109.7989-2-12-						0-W06721-07/10/77-13-			22- 9.0-		-	-	6.1-	220-		-1-6-3-6-3-2-1-2-1-3-3-1-		-1-	-	-	-	-	-	2.15
56-43.7736-109.7861-2-12-						0-W06722-07/10/77-14-			26- 6.0-		-	-	6.1-	260-		-1-6-3-6-3-2-1-2-1-3-2-1-		-1-	-	-	-	-	-	1.62
56-43.7753-109.7869-2-12-						0-W06723-07/10/77-14-			27- 9.0-		-	-	6.1-	260-		-1-6-3-6-3-2-1-2-1-4-3-1-		-1-	-	-	-	-	-	1.58
56-43.7894-109.8211-2-12-						0-W06724-07/10/77-16-			20- 6.0-		-	-	6.1-	270-		-1-6-3-6-3-2-1-2-1-3-2-1-		-1-	-	-	-	-	-	1.95
56-43.7936-109.8222-2-12-						0-W06725-07/10/77-16-			21-11.0-		-	-	6.1-	270-		-1-6-3-6-3-2-1-2-1-4-3-1-		-1-	-	-	-	-	-	2.77
56-43.7975-109.6997-2-12-						0-W06726-07/10/77- 9-			16- 6.0-		-	-	5.7-	100-		-1-6-4-6-2-3-1-2-4-3-2-1-		-1-	-	-	-	-	-	5.34
56-43.7967-109.7108-2-12-						0-W06727-07/10/77- 9-			16- 9.0-		-	-	5.7-	120-		-1-6-4-6-2-2-1-2-4-3-2-1-		-1-	-	-	-	-	-	2.08
56-43.7953-109.7106-2-12-						0-W06728-07/10/77- 9-			18- 9.0-		-	-	5.7-	90-		-1-6-4-6-2-3-1-2-3-3-2-1-		-1-	-	-	-	-	-	2.22
56-43.7517-109.1561-2-12-						0-W06729-07/12/77- 9-			21-11.0-		-	-	5.7-	150-		-1-6-4-6-3-2-1-2-2-3-2-1-		-1-	-	-	-	-	-	2.21
56-43.7517-109.1586-2-12-						0-W06730-07/12/77- 9-			21-11.0-		-	-	5.7-	150-		-1-6-4-6-3-2-1-2-2-3-2-1-		-1-	-	-	-	-	-	2.22

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.8856-109.6161-2-12-						0-W06680	-5	-5	-5	36	-20	59	7	-10	-15	2	16
56-43.8847-109.6181-2-12-						0-W06681	-5	-5	-5	22	-20	36	6	-10	-15	2	19
56-43.9061-109.6231-2-12-						0-W06682	-5	-5	-5	34	-20	28	-5	-10	-15	2	22
56-43.6658-109.4986-2-12-						0-W06683	-5	-5	-5	23	-20	42	8	-10	-15	1	18
56-43.9075-109.6219-2-12-						0-W06684	-5	-5	-5	12	-20	77	-5	-10	-15	-1	21
56-43.8639-109.4892-2-12-						0-W06685	-5	-5	6	37	-20	59	-5	-10	-15	2	17
56-43.8656-109.4886-2-12-						0-W06686	-5	6	-5	39	-20	27	11	-10	-15	2	27
56-43.8883-109.4567-2-12-						0-W06687	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	19
56-43.8897-109.4575-2-12-						0-W06688	-5	-5	-5	25	-20	51	-5	-10	-15	2	16
56-43.7714-109.5506-2-12-						0-W06689	-5	7	-5	35	-20	29	11	-10	-15	2	21
56-43.7489-109.5342-2-12-						0-W06690	-5	5	-5	36	-20	51	-5	-10	16	2	17
56-43.7311-109.5489-2-12-						0-W06691	-5	-5	-5	25	-20	66	-5	-10	-15	2	17
56-43.7261-109.5608-2-12-						0-W06692	-5	-5	-5	24	-20	55	11	-10	-15	2	16
56-43.7228-109.5522-2-15-						0-W06693	-5	-5	-5	35	-20	26	0	-10	-15	1	18
56-43.7794-109.3347-2-12-						0-W06694	-5	-5	-5	35	-20	57	12	-10	-15	2	26
56-43.8000-109.3392-2-12-						0-W06695	-5	-5	-5	24	-20	43	12	-10	-15	2	28
56-43.8239-109.3719-2-12-						0-W06696	-5	-5	-5	21	-20	57	15	-10	-15	2	19
56-43.4328-109.8908-2-11-						0-W06697	-5	-5	-5	15	-20	-15	-5	-10	-15	-1	14
56-43.7283-109.6344-2-12-						0-W06698	-5	-5	-5	26	-20	40	-5	-10	-15	2	19
56-43.7286-109.6378-2-12-						0-W06699	-5	-5	-5	23	-20	32	6	-10	-15	2	22
56-43.7508-109.6819-2-12-						0-W06700	-5	-5	-5	25	-20	23	-5	-10	-15	3	22
56-43.7686-109.6639-2-12-						0-W06701	-5	-5	-5	36	-20	61	7	-10	-15	3	22
56-43.7803-109.6678-2-12-						0-W06702	-5	-5	-5	21	-20	28	10	-10	-15	2	42
56-43.7811-109.6700-2-12-						0-W06703	-5	-5	-5	30	-20	43	7	-10	-15	2	21
56-43.7914-109.6953-2-12-						0-W06704	-5	-5	-5	25	-20	35	6	-10	-15	2	21
56-43.7950-109.6906-2-12-						0-W06705	-5	-5	-5	29	-20	33	0	-10	-15	2	21
56-43.7972-109.6972-2-12-						0-W06706	-5	-5	-5	24	-20	40	8	-10	-15	3	20
56-43.7622-109.5361-2-12-						0-W06707	-5	-5	-5	33	-20	22	-5	-10	-15	2	19
56-43.7733-109.5161-2-12-						0-W06708	-5	8	-5	-10	-20	58	9	-10	-15	2	21
56-43.7789-109.5092-2-12-						0-W06709	-5	-5	-5	23	-20	49	7	-10	-15	2	19
56-43.7806-109.5106-2-12-						0-W06710	-5	-5	-5	35	-20	35	-5	-10	-15	2	22
56-43.7953-109.4972-2-12-						0-W06711	-5	-5	-5	24	-20	37	5	-10	-15	3	16
56-43.7969-109.4978-2-12-						0-W06712	-5	-5	-5	30	-20	46	7	-10	-15	2	22
56-43.8044-109.4847-2-12-						0-W06713	-5	-5	-5	20	-20	55	6	-10	-15	2	16
56-43.8128-109.4756-2-12-						0-W06714	-5	-5	-5	27	-20	-15	6	-10	-15	2	34
56-43.8089-109.4722-2-12-						0-W06715	-5	-5	-5	21	-20	40	10	-10	-15	2	19
56-43.8128-109.4664-2-12-						0-W06716	-5	-5	-5	19	-20	20	-5	-10	-15	2	18
56-43.8094-109.4658-2-12-						0-W06717	-5	-5	-5	23	-20	30	5	-10	-15	3	20
56-43.7725-109.4931-2-12-						0-W06718	-5	5	-5	17	-20	23	-5	-10	-15	2	29
56-43.7717-109.4942-2-12-						0-W06719	-5	5	-5	29	-20	23	-5	-10	-15	2	19
56-43.7633-109.7981-2-12-						0-W06720	-5	-5	-5	31	-20	16	-5	-10	-15	2	28
56-43.7644-109.7989-2-12-						0-W06721	-5	-5	-5	23	-20	43	8	-10	-15	2	19
56-43.7736-109.7861-2-12-						0-W06722	-5	7	-5	31	-20	49	5	-10	-15	3	33
56-43.7752-109.7869-2-12-						0-W06723	-5	-5	5	41	-20	67	-5	-10	-15	3	24
56-43.7894-109.8211-2-12-						0-W06724	-5	-5	-5	26	-20	56	12	-10	-15	3	22
56-43.7939-109.8222-2-12-						0-W06725	-5	-5	-5	35	-20	32	9	-10	-15	2	25
56-43.7975-109.8097-2-12-						0-W06726	-5	10	-5	16	-20	17	-5	-10	-15	2	27
56-43.7967-109.7108-2-12-						0-W06727	-5	-5	-5	21	-20	40	5	-10	-15	2	26
56-43.7953-109.7106-2-12-						0-W06728	-5	-5	-5	24	-20	51	-5	-10	-15	2	25
56-43.7517-109.1561-2-12-						0-W06729	-5	-5	-5	31	-20	39	-5	-10	-15	2	22
56-43.7517-109.1586-2-12-						0-W06730	-5	-5	-5	24	-20	44	5	-10	-15	1	16

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56	43.8856	109.6161	2	12		0-W06680	76400	-0.09	1109	45370	74	-98	32.9	201	-2.7	2	1.8	64330	3.2	13150	47	-0.1
56	43.8847	109.6181	2	12		0-W06681	64300	-0.09	890	36500	70	-105	30.3	208	-2.6	3	1.6	69810	7.9	13710	50	0.2
56	43.8961	109.6231	2	12		0-W06682	68820	-0.07	874	35150	70	-97	29.7	172	-2.2	3	1.7	63140	7.0	13070	46	0.2
56	43.8658	109.4986	2	12		0-W06683	84530	-0.06	1226	42000	65	-106	13.8	128	-1.8	2	1.2	27330	4.2	13420	33	-0.1
56	43.9075	109.6219	2	12		0-W06684	60900	-0.10	857	44260	60	-98	55.9	346	-3.0	2	1.6	120300	3.3	9985	40	0.2
56	43.8630	109.4892	2	12		0-W06685	71930	-0.09	1042	45110	68	-116	38.4	265	-2.8	2	1.7	75860	3.7	10310	42	0.2
56	43.8656	109.4886	2	12		0-W06686	71280	-0.06	757	26800	94	-94	14.3	91	-1.8	4	1.6	35890	17.6	17300	55	0.4
56	43.8883	109.4567	2	12		0-W06687	27560	-0.04	286	26590	37	63	3.4	53	1.4	3	0.9	8783	22.1	13150	21	0.4
56	43.8997	109.4575	2	12		0-W06688	72870	-0.09	1062	44890	92	-100	38.4	261	-2.7	2	1.7	79070	4.3	12070	46	0.3
56	43.7714	109.5506	2	12		0-W06689	65870	-0.09	846	40800	75	-108	33.9	253	-2.7	3	1.5	77150	7.8	13430	44	0.3
56	43.7489	109.5342	2	12		0-W06690	72150	-0.08	923	46560	72	-104	39.2	239	-2.4	2	1.6	71910	4.0	11500	40	0.3
56	43.7311	109.5489	2	12		0-W06691	69530	-0.07	1075	46080	93	-103	31.6	246	-2.1	2	1.5	66860	3.5	12310	34	0.2
56	43.7241	109.5608	2	12		0-W06692	83350	-0.08	1280	44070	88	145	27.3	149	-2.5	2	2.3	56280	3.7	11330	49	0.4
56	43.7228	109.5522	2	12		0-W06693	87600	-0.08	1565	39390	66	-111	18.8	93	-2.4	2	1.1	44270	4.2	16990	46	0.1
56	43.7794	109.3347	2	12		0-W06694	82600	-0.06	1270	38450	94	-104	19.1	169	-1.9	2	1.7	38320	5.1	14680	49	-0.1
56	43.8006	109.3392	2	12		0-W06695	83170	-0.06	1511	37690	97	-103	15.9	143	-1.7	2	1.7	30550	4.7	14010	54	0.2
56	43.8230	109.3719	2	12		0-W06696	82550	-0.08	1347	34560	94	128	19.2	183	-2.5	3	2.1	40860	6.4	15800	55	0.3
56	43.4328	109.8908	2	11		0-W06697	29780	-0.05	319	13490	58	-55	-0.3	38	-1.4	5	1.4	8004	29.4	12820	39	0.4
56	43.7283	109.6344	2	12		0-W06698	81220	-0.10	1160	40450	90	-100	23.8	151	-2.6	3	1.9	44530	4.4	16240	51	0.2
56	43.7286	109.6378	2	12		0-W06699	82100	-0.10	1228	42580	67	-114	23.5	154	-2.6	3	1.7	46210	4.1	15280	45	-0.2
56	43.7509	109.6819	2	12		0-W06700	79870	-0.08	994	35880	63	-104	21.0	125	-2.2	3	1.4	39530	4.1	11310	48	0.2
56	43.7686	109.6639	2	12		0-W06701	75950	-0.08	1172	44220	75	-100	23.3	175	-2.1	2	1.4	46550	3.9	11560	45	0.2
56	43.7803	109.6678	2	12		0-W06702	34700	-0.08	237	33060	42	-66	6.9	123	4.0	4	1.2	18330	8.7	20010	38	0.5
56	43.7811	109.6700	2	12		0-W06703	78080	-0.10	1147	44570	60	-117	24.1	174	-2.7	3	1.5	50750	3.7	13450	47	0.2
56	43.7914	109.6552	2	12		0-W06704	78500	-0.08	1013	42540	70	-104	25.9	163	-2.3	2	1.6	48590	4.4	12040	44	0.2
56	43.7950	109.6906	2	12		0-W06705	75520	-0.07	1211	40740	94	-99	24.5	172	-2.1	2	1.6	46980	4.3	10870	39	0.2
56	43.7972	109.6972	2	12		0-W06706	79160	-0.09	1167	38310	87	-105	20.6	151	-2.7	3	1.8	46250	4.6	15160	51	0.4
56	43.7622	109.5361	2	12		0-W06707	74700	-0.08	1078	50440	67	-112	19.5	138	-2.4	2	1.6	43000	3.6	21040	46	0.3
56	43.7733	109.5161	2	12		0-W06708	58410	-0.08	829	45130	76	-97	28.7	210	-2.2	3	1.5	61020	8.0	7948	49	0.2
56	43.7789	109.5092	2	12		0-W06709	72130	-0.07	1273	45300	89	-102	19.7	147	-2.0	2	1.4	43320	3.7	14560	40	0.2
56	43.7806	109.5106	2	12		0-W06710	72850	-0.09	1029	49340	90		32.0	201	-2.5	2	1.6	62360	5.2	11090	49	0.2
56	43.7953	109.4972	2	12		0-W06711	68830	-0.09	1037	47650	70	-99	29.2	190	-2.5	2	1.5	56750	4.4	11330	45	0.2
56	43.7969	109.4978	2	12		0-W06712	75530	-0.07	1196	50160	69	-112	21.8	126	-2.0	3	1.6	43260	3.8	16460	42	0.2
56	43.8044	109.4847	2	12		0-W06713	68480	-0.07	827	47660	101	-102	28.0	219	-2.1	3	1.8	59610	5.2	15410	47	-0.1
56	43.8128	109.4756	2	12		0-W06714	68010	-0.08	876	24140	118	-95	13.1	93	-2.1	5	2.2	35880	22.4	19310	66	0.4
56	43.8089	109.4722	2	12		0-W06715	74650	-0.09	1287	49340	60	86	19.8	120	-2.5	3	1.7	41850	4.4	13900	44	0.2
56	43.8128	109.4664	2	12		0-W06716	77270	-0.07	1183	47720	74	-114	19.0	103	-2.0	2	1.7	38840	3.2	14470	45	-0.1
56	43.8094	109.4658	2	12		0-W06717	68560	-0.07	934	45890	95	-104	25.4	201	-2.0	2	1.6	54030	5.0	15560	43	0.2
56	43.7725	109.4931	2	12		0-W06718	29750	-0.07	385	28410	42	-63	4.9	97	3.2	4	1.2	17120	20.6	15640	41	0.4
56	43.7717	109.4942	2	12		0-W06719	75650	-0.09	1310	47860	82	-90	22.5	155	-2.4	3	1.7	46390	4.6	17920	49	0.2
56	43.7633	109.7981	2	12		0-W06720	76420	-0.07	1702	34850	83	-114	18.0	115	-2.0	4	1.8	41150	9.7	13420	48	0.2
56	43.7644	109.7989	2	12		0-W06721	84820	-0.06	1398	42210	93	-126	16.3	140	-2.2	2	1.9	47410	3.5	14310	42	-0.1
56	43.7736	109.7861	2	12		0-W06722	78300	-0.09	1258	36600	67	-91	23.8	198	-2.6	2	1.6	47720	4.4	15420	47	-0.2
56	43.7753	109.7869	2	12		0-W06723	79610	-0.09	1155	40150	50	-110	22.6	213	-2.6	2	1.3	45830	3.4	15850	40	-0.2
56	43.7894	109.8211	2	12		0-W06724	79270	-0.07	1229	38160	92	-102	19.9	187	-1.9	2	1.6	38140	4.7	12500	51	0.2
56	43.7930	109.8222	2	12		0-W06725	67340	-0.06	900	29830	97	-88	11.9	93	2.4	4	1.7	28680	8.8	17710	43	0.3
56	43.7975	109.8997	2	12		0-W06726	52320	-0.08	690	24400	117	-75	11.2	87	-2.1	5	2.2	36350	41.0	17550	67	0.6
56	43.7967	109.7108	2	12		0-W06727	78670	-0.09	1197	42760	78	-109	21.5	159	-2.6	2	1.8	46040	3.7	13940	42	-0.1
56	43.7953	109.7106	2	12		0-W06728	64670	-0.08	898	45470	67	-96	26.0	192	-2.2	3	1.6	54840	6.0	13460	51	0.5
56	43.7517	109.1561	2	12		0-W06729	78670	-0.07	1280	43940	74	-107	14.8	113	-2.0	2	1.8	29600	3.7	11960	35	0.1
56	43.7517	109.1586	2	12		0-W06730	76910	-0.09	1222	41510	67	-102	16.3	132	-2.4	2	1.7	33780	4.0	11170	44	-0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.	8856-	109.	6161-	2-	12-	0-W06690	52630	835	19720	-43	-2	23.1	5.2	674	-1	-1	7.2	5293	194	-2.1	194	0.201
56-43.	8847-	109.	6181-	2-	12-	0-W06691	42700	803	16650	-43	-2	17.9	4.2	867	-1	-1	8.5	7001	256	-2.2	134	0.224
56-43.	9061-	109.	6231-	2-	12-	0-W06692	43630	773	17920	41	-2	18.2	5.4	746	-1	-1	8.1	5188	196	2.0	151	0.240
56-43.	6658-	109.	4586-	2-	12-	0-W06693	36240	516	23050	-28	-2	10.1	3.3	927	-1	-1	4.6	3830	80	-1.5	-40	0.367
56-43.	9075-	109.	6219-	2-	12-	0-W06694	55040	1140	15410	-50	-2	29.8	4.8	575	-1	-1	6.3	10450	434	-2.3	172	0.200
56-43.	8638-	109.	4892-	2-	12-	0-W06695	59500	985	18980	-43	-2	24.3	4.0	644	-1	-1	5.8	6336	238	-2.2	-55	0.210
56-43.	8656-	109.	4886-	2-	12-	0-W06696	20170	560	20480	-27	-2	11.6	2.5	422	-1	-1	15.6	4515	92	3.9	125	0.195
56-43.	8883-	109.	4567-	2-	12-	0-W06697	16610	214	4738	-16	-1	3.3	4.1	-161	-1	-1	6.5	2648	33	2.8	-19	0.477
56-43.	8807-	109.	4575-	2-	12-	0-W06698	53650	918	19380	-47	-2	22.6	5.0	575	-1	-1	8.0	6153	257	-1.9	-55	0.171
56-43.	7714-	109.	5506-	2-	12-	0-W06699	47220	894	17260	-43	-2	20.0	4.8	911	-1	-1	9.7	7138	266	-2.2	188	0.196
56-43.	7489-	109.	5242-	2-	12-	0-W06600	52050	906	18700	-36	-2	22.2	4.9	903	-1	-1	6.1	5408	235	-1.6	128	0.218
56-43.	7311-	109.	5489-	2-	12-	0-W06601	58560	971	18790	-34	-2	20.1	4.9	918	-1	-1	5.8	7172	282	-1.7	128	0.229
56-43.	7261-	109.	5608-	2-	12-	0-W06602	30130	709	22280	-40	-2	17.3	5.0	856	-1	-1	7.4	4031	132	-1.7	-44	0.203
56-43.	7228-	109.	5522-	2-	15-	0-W06603	27040	673	19860	40	-2	12.9	4.3	820	-1	-1	7.6	4410	117	2.8	-54	0.341
56-43.	7794-	109.	3347-	2-	12-	0-W06604	36050	550	24010	-30	-2	12.5	4.5	934	-1	-1	7.8	3954	107	-1.5	148	0.226
56-43.	8000-	109.	3392-	2-	12-	0-W06605	28730	525	24070	-27	-1	10.1	5.6	1118	-1	-1	8.5	3659	103	2.1	-34	0.218
56-43.	8230-	109.	3719-	2-	12-	0-W06606	31440	477	22490	-43	-2	14.0	4.6	903	-1	-1	8.5	5144	112	-2.0	159	0.320
56-43.	4220-	109.	8008-	2-	11-	0-W06607	5870	135	6527	-25	-1	3.7	4.3	-167	-1	-1	15.1	2559	23	3.1	-55	0.213
56-43.	7283-	109.	6244-	2-	12-	0-W06608	40320	605	20230	-39	-2	15.6	5.0	959	-1	-1	8.5	4287	132	-2.1	-60	0.226
56-43.	7286-	109.	6378-	2-	12-	0-W06609	45590	648	20590	-41	-2	15.5	3.4	817	-1	-1	7.6	4513	141	-2.2	-128	0.242
56-43.	7509-	109.	6819-	2-	12-	0-W06700	38240	580	19470	-35	-2	13.6	3.7	837	-1	-1	7.9	4939	127	-1.9	84	0.249
56-43.	7684-	109.	6629-	2-	12-	0-W06701	40460	670	19720	-33	-2	15.3	5.8	721	-1	-1	7.7	5416	153	-1.9	104	0.229
56-43.	7903-	109.	6678-	2-	12-	0-W06702	22450	1021	3358	62	-2	6.8	5.5	-322	-1	-1	7.1	2804	55	3.1	186	0.644
56-43.	7911-	109.	6700-	2-	12-	0-W06703	50350	696	20190	-42	-2	16.2	3.6	764	-1	-1	8.9	5457	153	1.5	-72	0.201
56-43.	7914-	109.	6653-	2-	12-	0-W06704	43820	667	19890	33	-2	16.4	4.0	840	-1	-1	8.0	5139	155	-1.9	-70	0.227
56-43.	7950-	109.	6606-	2-	12-	0-W06705	47500	668	19670	-34	-2	15.5	5.1	776	-1	-1	8.0	5817	155	-1.6	-23	0.227
56-43.	7973-	109.	6572-	2-	12-	0-W06706	40230	610	20060	-44	-2	15.7	4.4	922	-1	-1	9.8	4152	124	-1.9	-93	0.226
56-43.	7622-	109.	5361-	2-	12-	0-W06707	41210	668	21490	-39	-2	15.2	3.6	1006	-2	-1	7.8	4293	124	-2.0	-146	0.212
56-43.	7733-	109.	5161-	2-	12-	0-W06708	48890	707	16570	-36	-2	18.3	5.9	527	-1	-1	12.9	5245	195	3.5	172	0.168
56-43.	7789-	109.	5092-	2-	12-	0-W06709	40070	685	21120	-31	-2	14.1	5.3	931	-1	-1	7.5	4188	151	2.1	103	0.227
56-43.	7806-	109.	5106-	2-	12-	0-W06710	49280	788	20370	-41	-2	19.5	5.1	727	-1	-1	9.8	5311	193	-2.4	144	0.156
56-43.	7852-	109.	4972-	2-	12-	0-W06711	48080	783	19010	-42	-2	17.2	4.5	846	-1	-1	8.7	5280	192	-2.1	-119	0.209
56-43.	7969-	109.	4978-	2-	12-	0-W06712	38620	636	21560	-31	-2	15.1	3.9	1112	-1	-1	7.7	4492	130	1.9	95	0.225
56-43.	8044-	109.	4847-	2-	12-	0-W06713	50540	821	19080	-33	-2	16.2	4.8	570	-1	-1	10.5	5630	225	-1.7	109	0.174
56-43.	8128-	109.	4756-	2-	12-	0-W06714	19130	548	21330	-35	-2	11.3	9.2	636	-2	-1	20.4	5483	76	4.0	-47	0.170
56-43.	8089-	109.	4722-	2-	12-	0-W06715	43730	649	20620	-40	-2	14.0	3.7	968	-1	-1	8.6	3801	121	-2.0	-125	0.204
56-43.	8128-	109.	4664-	2-	12-	0-W06716	38650	611	21800	-31	-2	13.3	4.2	994	-1	-1	7.0	3736	111	-1.6	116	0.240
56-43.	8094-	109.	4658-	2-	12-	0-W06717	43010	740	19970	-32	-2	15.4	5.3	690	-1	-1	10.4	4784	190	2.5	-81	0.174
56-43.	7725-	109.	4931-	2-	12-	0-W06718	21020	769	4427	51	-2	6.0	4.9	-292	-1	-1	9.8	2653	48	3.2	146	0.524
56-43.	7717-	109.	4942-	2-	12-	0-W06719	38300	653	21520	-40	-2	14.3	3.3	942	-2	-1	10.2	4514	167	-2.0	123	0.188
56-43.	7633-	109.	7581-	2-	12-	0-W06720	27630	570	22490	-31	-2	12.7	4.7	1063	-1	-1	10.3	6335	123	-2.0	115	0.284
56-43.	7644-	109.	7989-	2-	12-	0-W06721	27680	676	22670	-37	-2	13.3	4.5	1104	-2	-1	8.0	4926	172	-1.5	185	0.269
56-43.	7736-	109.	7861-	2-	12-	0-W06722	40930	568	19720	-43	-2	14.0	3.6	779	-2	-1	5.5	4728	139	-2.2	-29	0.295
56-43.	7753-	109.	7869-	2-	12-	0-W06723	34570	630	20240	-43	-2	13.2	3.5	866	-1	-1	6.1	5035	171	-2.2	158	0.259
56-43.	7894-	109.	8211-	2-	12-	0-W06724	33580	571	24300	-32	-2	12.7	4.8	986	-1	-1	8.3	4397	114	2.3	85	0.235
56-43.	7939-	109.	8222-	2-	12-	0-W06725	24290	607	18700	52	-2	9.5	6.1	555	-1	-1	11.8	3977	96	2.3	67	0.235
56-43.	7975-	109.	6697-	2-	12-	0-W06726	22020	502	13730	-36	-2	9.4	8.7	-229	-2	-1	25.0	3911	82	5.1	-27	0.214
56-43.	7967-	109.	7108-	2-	12-	0-W06727	41100	629	20150	-41	-2	15.8	3.6	852	-1	-1	7.1	4291	135	-2.0	125	0.293
56-43.	7953-	109.	7106-	2-	12-	0-W06728	47900	779	19040	-35	-2	16.3	4.7	589	-1	-1	13.9	5210	192	-1.6	-117	0.160
56-43.	7517-	109.	1561-	2-	12-	0-W06729	34500	590	21380	-32	-2	10.0	3.6	1053	-1	-1	6.3	3565	80	2.6	-47	0.351
56-43.	7517-	109.	1586-	2-	12-	0-W06730	33150	546	20990	-40	-2	11.9	3.3	1050	-2	-1	7.0	3200	81	-2.1	-54	0.317

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.7628-	109.0131-2-	12-			0-W06731-	07/12/77-	9-	18-	9.0-	-	-	5.9-	110-		-1-	6-	4-	6-	3-	2-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	2.19
56-	43.7711-	109.0239-2-	12-			0-W06732-	07/12/77-	10-	20-	9.0-	-	-	5.7-	40-		-1-	6-	3-	6-	4-	2-	1-	2-	1-	2-	2-	1-	-1-	-	-	-	-	2.36
56-	43.7725-	109.0333-2-	12-			0-W06733-	07/12/77-	10-	20-	11.0-	-	-	5.7-	50-		-1-	6-	4-	6-	2-	2-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	2.11
56-	43.7922-	109.0558-2-	12-			0-W06734-	07/12/77-	11-	26-	12.0-	-	-	5.9-	120-		-1-	6-	4-	6-	3-	2-	1-	2-	1-	2-	3-	1-	-1-	-	-	-	-	1.78
56-	43.7922-	109.0581-2-	12-			0-W06735-	07/12/77-	11-	26-	11.0-	-	-	5.7-	150-		-1-	6-	4-	6-	2-	3-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	2.84
56-	43.7681-	109.8147-2-	12-			0-W06736-	07/10/77-	13-	24-	9.0-	-	-	6.1-	275-		-1-	6-	3-	6-	3-	3-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	1.52
56-	43.7334-	109.8384-2-	12-			0-W06737-	07/10/77-	12-	24-	9.0-	-	-	6.1-	220-		-1-	6-	3-	6-	2-	3-	1-	2-	3-	3-	3-	1-	-1-	-	-	-	-	1.79
56-	43.7359-	109.8625-2-	12-			0-W06738-	07/10/77-	12-	22-	11.0-	-	-	6.1-	230-		-1-	6-	3-	6-	2-	3-	1-	2-	1-	3-	2-	1-	-1-	-	-	-	-	1.94
56-	43.7406-	109.8736-2-	12-			0-W06739-	07/10/77-	13-	20-	9.0-	-	-	5.9-	80-		-1-	6-	4-	6-	3-	2-	1-	2-	2-	2-	2-	1-	-1-	-	-	-	-	1.77
56-	43.7422-	109.8736-2-	12-			0-W06740-	07/10/77-	13-	21-	9.0-	-	-	5.7-	120-		-1-	6-	4-	6-	2-	3-	1-	2-	2-	3-	2-	1-	-1-	-	-	-	-	1.84
56-	43.7419-	109.8858-2-	12-			0-W06741-	07/10/77-	13-	23-	11.0-	-	-	5.7-	110-		-1-	6-	4-	6-	2-	3-	1-	2-	3-	2-	2-	1-	-1-	-	-	-	-	1.73
56-	43.7469-	109.8906-2-	12-			0-W06742-	07/10/77-	13-	20-	9.0-	-	-	6.1-	260-		-1-	6-	4-	6-	3-	3-	1-	2-	3-	2-	2-	1-	-1-	-	-	-	-	2.53
56-	43.7606-	109.8983-2-	12-			0-W06743-	07/10/77-	14-	22-	6.0-	-	-	6.1-	220-		-1-	6-	3-	6-	2-	3-	1-	2-	1-	2-	2-	1-	-1-	-	-	-	-	1.74
56-	43.7619-	109.8994-2-	12-			0-W06744-	07/10/77-	14-	20-	10.0-	-	-	6.1-	220-		-1-	6-	4-	6-	2-	3-	1-	2-	1-	2-	2-	1-	-1-	-	-	-	-	2.33
56-	43.7761-	109.9225-2-	12-			0-W06745-	07/10/77-	14-	21-	11.0-	-	-	6.1-	280-		-1-	6-	4-	6-	2-	3-	1-	2-	1-	2-	2-	1-	-1-	-	-	-	-	2.21
56-	43.7836-	109.9236-2-	12-			0-W06746-	07/10/77-	15-	23-	9.0-	-	-	6.1-	270-		-1-	6-	3-	6-	2-	3-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	1.56
56-	43.9275-	109.0011-2-	12-			0-W06747-	07/08/77-	19-	21-	12.0-	-	-	6.1-	110-		-2-	6-	3-	6-	2-	4-	1-	2-	2-	3-	2-	1-	-1-	-	-	-	-	2.39
56-	43.9039-	109.0092-2-	12-			0-W06748-	07/08/77-	19-	20-	10.0-	-	-	5.9-	75-		-2-	6-	3-	6-	3-	3-	2-	1-	2-	2-	2-	1-	-1-	-	-	-	-	1.78
56-	43.8900-	109.0158-2-	12-			0-W06749-	07/08/77-	19-	18-	11.0-	-	-	5.9-	90-		-2-	6-	4-	6-	3-	2-	1-	2-	2-	4-	2-	1-	-1-	-	-	-	-	1.80
56-	43.8900-	109.0228-2-	12-			0-W06750-	07/08/77-	19-	20-	10.0-	-	-	6.1-	130-		-2-	6-	4-	6-	3-	2-	1-	2-	2-	3-	2-	1-	-1-	-	-	-	-	1.96
56-	43.8914-	109.0400-2-	12-			0-W06751-	07/08/77-	19-	20-	10.0-	-	-	6.3-	120-		-2-	6-	3-	6-	3-	2-	1-	2-	2-	3-	2-	1-	-1-	-	-	-	-	1.85
56-	43.6714-	109.4672-2-	99-			0-W06752-	07/11/77-	12-	27-				-0-	-	-	-1-	6-	4-	6-	-	-	-	-2-	2-	2-	3-	1-	-1-	-	-	-	-	4.10
56-	43.8408-	109.0047-2-	15-			0-W06753-	07/12/77-	16-	29-		-	-	-	-	-	-1-	6-	4-	6-	-	-1-	-	-2-	2-	3-	3-	1-	-1-	-	-	-	-	5.33
56-	43.8436-	109.0225-2-	15-			0-W06754-	07/12/77-	16-	29-		-	-	-	-	-	-1-	6-	4-	6-	-	-1-	-	-2-	2-	3-	3-	1-	-1-	-	-	-	-	1.78
56-	43.7847-	109.9221-2-	12-			0-W06755-	07/10/77-	15-	20-	11.0-	-	-	6.1-	270-		-1-	6-	4-	6-	2-	3-	1-	2-	1-	3-	2-	1-	-1-	-	-	-	-	1.56
56-	43.7714-	109.9689-2-	12-			0-W06756-	07/10/77-	16-	20-	9.0-	-	-	5.9-	80-		-1-	6-	3-	6-	2-	3-	1-	2-	3-	2-	3-	1-	-1-	-	-	-	-	2.13
56-	43.7706-	109.9831-2-	12-			0-W06757-	07/10/77-	16-	22-	11.0-	-	-	6.1-	220-		-1-	6-	3-	6-	3-	3-	1-	2-	1-	4-	3-	1-	-1-	-	-	-	-	1.58
56-	43.7700-	109.9697-2-	12-			0-W06758-	07/10/77-	16-	20-	9.0-	-	-	5.9-	75-		-1-	6-	3-	6-	3-	2-	1-	2-	3-	2-	3-	1-	-1-	-	-	-	-	1.90
56-	43.7697-	109.9831-2-	11-			0-W06759-	07/10/77-	17-	20-	5.0-	-	-	6.1-	220-		-1-	6-	3-	6-	3-	3-	1-	2-	4-	3-	2-	1-	-1-	-	-	-	-	1.59
56-	43.8017-	109.8208-2-	12-			0-W06760-	07/10/77-	16-	21-	11.0-	-	-	5.9-	80-		-1-	6-	4-	6-	3-	2-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	1.82
56-	43.8003-	109.8233-2-	12-			0-W06761-	07/10/77-	16-	20-	6.0-	-	-	5.9-	70-		-1-	6-	3-	6-	3-	2-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	3.13
56-	43.8231-	109.3728-2-	12-			0-W06762-	07/11/77-	12-	22-	10.0-	-	-	5.9-	110-		-1-	6-	4-	6-	4-	3-	1-	2-	1-	3-	4-	1-	-1-	-	-	-	-	1.59
56-	43.7925-	109.3844-2-	12-			0-W06763-	07/11/77-	13-	22-	9.0-	-	-	5.7-	90-		-1-	6-	3-	6-	3-	2-	1-	2-	2-	3-	3-	1-	-1-	-	-	-	-	1.40
56-	43.7919-	109.3867-2-	12-			0-W06764-	07/11/77-	14-	23-	9.0-	-	-	5.9-	70-		-1-	6-	3-	6-	3-	3-	2-	1-	2-	3-	3-	1-	-1-	-	-	-	-	1.51
56-	43.7833-	109.3886-2-	12-			0-W06765-	07/11/77-	14-	21-	10.0-	-	-	5.9-	90-		-1-	6-	3-	6-	3-	3-	1-	2-	1-	4-	3-	1-	-1-	-	-	-	-	3.12
56-	43.7714-	109.4036-2-	12-			0-W06766-	07/11/77-	14-	22-	6.0-	-	-	5.9-	100-		-1-	6-	3-	6-	3-	3-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	1.46
56-	43.7672-	109.4036-2-	12-			0-W06767-	07/11/77-	14-	26-	11.0-	-	-	5.9-	100-		-1-	6-	4-	6-	3-	3-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	1.48
56-	43.7564-	109.4189-2-	12-			0-W06768-	07/11/77-	15-	21-	11.0-	-	-	5.7-	70-		-1-	6-	3-	6-	3-	2-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	1.49
56-	43.7556-	109.4169-2-	12-			0-W06769-	07/11/77-	15-	22-	10.0-	-	-	5.7-	70-		-1-	6-	4-	6-	3-	3-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	1.56
56-	43.7369-	109.4431-2-	11-			0-W06770-	07/11/77-	16-	20-	7.0-	-	-	5.7-	150-		-1-	6-	4-	6-	2-	2-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	1.51
56-	43.7342-	109.4431-2-	12-			0-W06771-	07/11/77-	17-	18-	9.0-	-	-	5.7-	90-		-1-	6-	3-	6-	2-	2-	1-	2-	2-	2-	2-	1-	-1-	-	-	-	-	1.48
56-	43.6344-	109.5286-2-	12-			0-W06772-	07/11/77-	15-	28-	12.0-	-	-	5.7-	40-		-1-	6-	3-	6-	2-	2-	1-	2-	3-	2-	3-	1-	-1-	-	-	-	-	2.39
56-	43.7153-	109.4744-2-	12-			0-W06773-	07/11/77-	17-	24-	11.0-	-	-	5.7-	80-		-1-	6-	3-	6-	3-	2-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	1.90
56-	43.7089-	109.4804-2-	12-			0-W06774-	07/11/77-	17-	24-	11.0-	-	-	5.7-	50-		-1-	6-	3-	6-	2-	2-	1-	2-	1-	2-	3-	1-	-1-	-	-	-	-	1.63
56-	43.7681-	109.0556-2-	12-			0-W06775-	07/12/77-	13-	27-	11.0-	-	-	5.7-	40-		-1-	6-	3-	6-	2-	3-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	2.90
56-	43.7203-	109.3436-2-	12-			0-W06776-	07/11/77-	7-	14-	6.0-	-	-	5.9-	110-		-1-	6-	4-	6-	2-	2-	1-	2-	4-	4-	2-	1-	-1-	-	-	-	-	2.37
56-	43.7267-	109.3483-2-	12-			0-W06777-	07/11/77-	7-	14-	9.0-	-	-	5.9-	120-		-1-	6-	4-	6-	3-	3-	1-	2-	4-	3-	2-	1-	-1-	-	-	-	-	2.07
56-	43.7422-	109.3372-2-	12-			0-W06778-	07/11/77-	8-	17-	11.0-	-	-	5.9-	110-		-1-	6-	4-	6-	3-	2-	1-	2-	3-	3-	3-	1-	-1-	-	-	-	-	1.97
56-	43.7444-	109.3372-2-	12-			0-W06779-	07/11/77-	8-	19-	9.0-	-	-	5.9-	110-		-1-	6-	4-	6-	2-	2-	1-	2-	3-	3-	2-	1-	-1-	-	-	-	-	2.00
56-	43.7586-	109.3233-2-	12-			0-W06780-	07/11/77-	8-	19-	9.0-	-	-	5.7-	120-		-1-	6-	4-	6-	2-	2-	1-	2-	1-	3-	3-	1-	-1-	-	-	-	-	1.94
56-	43.7606-	109.3264-2-	12-			0-W06781-	07/11/77-	9-	21-	9.0-	-	-	5.9-	120-		-1-	6-	4-	6-	2-	2-	1-	2-	1-	3-	2-	1-	-1-	-	-	-	-	2.75

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.7628-109.0131-2-12-						0-W06771	-5	-5	-5	25	-20	54	14	-10	-15	2	19
56-43.7711-109.0336-2-12-						0-W06772	-5	8	-5	24	-20	44	11	-10	-15	2	22
56-43.7725-109.0333-2-12-						0-W06773	-5	-5	-5	31	-20	42	11	-10	-15	2	25
56-43.7922-109.0558-2-12-						0-W06774	-5	6	-5	18	-20	37	16	-10	-15	2	19
56-43.7922-109.0581-2-12-						0-W06775	-5	-5	-5	20	-20	32	6	-10	-15	2	25
56-43.7681-109.8147-2-12-						0-W06776	-5	6	6	29	-20	59	14	-10	-15	2	32
56-43.7336-109.8386-2-12-						0-W06777	-5	-5	-5	42	-20	39	-5	-10	-15	3	20
56-43.7369-109.8625-2-12-						0-W06778	-5	-5	-5	24	-20	27	10	-10	-15	2	24
56-43.7406-109.8736-2-12-						0-W06779	-5	-5	-5	35	-20	43	5	-10	-15	2	18
56-43.7422-109.8736-2-12-						0-W06780	-5	-5	-5	25	-20	26	7	-10	-15	2	22
56-43.7419-109.8858-2-12-						0-W06781	-5	-5	-5	26	-20	26	17	-10	-15	2	20
56-43.7469-109.8906-2-12-						0-W06782	-5	6	-5	34	-20	28	7	-10	-15	2	26
56-43.7606-109.8983-2-12-						0-W06783	-5	5	-5	32	-20	19	7	-10	-15	2	22
56-43.7619-109.8994-2-12-						0-W06784	-5	-5	-5	35	-20	44	-5	-10	-15	2	24
56-43.7761-109.9225-2-12-						0-W06785	-5	-5	-5	34	-20	35	14	-10	16	2	21
56-43.7836-109.9239-2-12-						0-W06786	-5	-5	-5	31	-20	53	11	-10	-15	2	23
56-43.9275-109.0011-2-12-						0-W06787	-5	-5	-5	45	-20	-15	7	-10	-15	2	37
56-43.9039-109.0092-2-12-						0-W06788	-5	-5	-5	34	-20	53	16	-10	-15	2	18
56-43.8900-109.0158-2-12-						0-W06789	-5	7	-5	33	-20	51	12	-10	-15	2	21
56-43.8900-109.0328-2-12-						0-W06790	-5	5	-5	30	-20	34	16	-10	-15	2	24
56-43.8814-109.0400-2-12-						0-W06791	-5	-5	-5	32	-20	40	-5	-10	-15	2	19
56-43.6714-109.4672-2-09-						0-W06752	-5	5	-5	34	-20	28	6	-10	-15	2	30
56-43.8408-109.0047-2-15-						0-W06753										2	29
56-43.8436-109.0225-2-15-						0-W06754	-5	-5	-5	25	-20	49	9	-10	-15	2	18
56-43.7847-109.9231-2-12-						0-W06755	-5	6	-5	28	-20	56	13	-10	-15	3	21
56-43.7714-109.9689-2-12-						0-W06756	-5	-5	-5	25	-20	37	11	-10	-15	2	28
56-43.7706-109.9831-2-12-						0-W06757	-5	-5	-5	39	-20	50	8	-10	-15	2	32
56-43.7700-109.9697-2-12-						0-W06758	-5	-5	-5	24	-20	28	5	-10	-15	2	28
56-43.7697-109.9931-2-11-						0-W06759	-5	-5	-5	31	-20	52	6	-10	-15	2	26
56-43.8017-109.8208-2-12-						0-W06760	-5	-5	-5	21	-20	40	-5	-10	-15	1	10
56-43.8003-109.8233-2-12-						0-W06761	-5	-5	-5	33	-20	-15	-5	-10	-15	2	24
56-43.8231-109.3728-2-12-						0-W06762	-5	-5	-5	48	-20	47	8	-10	-15	2	30
56-43.7925-109.3844-2-12-						0-W06763	-5	-5	-5	35	-20	64	-5	-10	-15	2	17
56-43.7919-109.3867-2-12-						0-W06764	-5	-5	-5	50	-20	57	-5	-10	-15	2	19
56-43.7833-109.3886-2-12-						0-W06765	-5	5	-5	26	-20	19	5	-10	-15	2	32
56-43.7714-109.4036-2-12-						0-W06766	-5	-5	-5	24	-20	51	8	-10	-15	2	17
56-43.7672-109.4036-2-12-						0-W06767	-5	-5	-5	20	-20	78	-5	-10	-15	3	19
56-43.7564-109.4189-2-12-						0-W06768	-5	-5	-5	21	-20	53	11	-10	-15	3	17
56-43.7556-109.4169-2-12-						0-W06769	-5	6	-5	23	-20	60	7	-10	-15	3	21
56-43.7369-109.4431-2-11-						0-W06770	-5	6	-5	31	-20	53	7	-10	-15	2	17
56-43.7342-109.4431-2-12-						0-W06771	-5	-5	-5	18	-20	65	10	-10	-15	2	17
56-43.6344-109.5286-2-12-						0-W06772	-5	5	-5	29	-20	33	-5	-10	-15	2	26
56-43.7153-109.4744-2-12-						0-W06773	-5	7	-5	42	-20	72	-5	-10	-15	3	21
56-43.7089-109.4806-2-12-						0-W06774	-5	-5	-5	32	-20	48	6	-10	-15	2	18
56-43.7681-109.0556-2-12-						0-W06775	-5	7	-5	29	-20	-15	6	-10	-15	3	29
56-43.7203-109.3436-2-12-						0-W06776	-5	-5	-5	31	-20	46	13	-10	-15	2	20
56-43.7267-109.3483-2-12-						0-W06777	-5	-5	5	28	-20	42	10	-10	-15	2	25
56-43.7422-109.3372-2-12-						0-W06778	-5	5	-5	30	-20	52	9	-10	-15	2	24
56-43.7444-109.3372-2-12-						0-W06779	-5	-5	-5	16	-20	40	10	-10	-15	2	31
56-43.7586-109.3233-2-12-						0-W06780	-5	-5	-5	40	-20	52	6	-10	-15	3	22
56-43.7606-109.3264-2-12-						0-W06781	-5	-5	-5	35	-20	45	-5	-10	-15	2	24

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.7628-	109.0131-	2-	12-		0-W06731	77370	-0.09	1300	37640	80	-113	19.2	188	-2.4	2	1.6	42910	5.5	13870	50	-0.1
56-	43.7711-	109.0339-	2-	12-		0-W06732	67530	-0.07	816	46760	73	-94	22.7	145	-2.1	3	1.6	44790	9.2	12760	45	0.2
56-	43.7725-	109.0333-	2-	12-		0-W06733	77960	-0.07	1339	39860	103	-101	17.2	151	-1.9	3	1.8	36860	7.0	16570	47	0.2
56-	43.7022-	109.0588-	2-	12-		0-W06734	76470	-0.08	1264	45830	80	-95	20.7	125	-2.3	2	1.8	41560	4.1	18320	55	0.2
56-	43.7022-	109.0581-	2-	12-		0-W06735	77270	-0.09	1207	42120	42	-119	12.8	109	-2.4	2	1.5	26220	3.7	12320	30	-0.1
56-	43.7681-	109.8147-	2-	12-		0-W06736	80100	-0.09	1146	41570	60	-103	21.4	215	-2.2	2	1.3	47590	4.2	17370	37	-0.1
56-	43.7336-	109.8386-	2-	12-		0-W06737	85060	-0.07	1421	43330	97	-106	19.1	148	-2.0	2	1.6	46250	4.1	14510	43	-0.1
56-	43.7369-	109.8625-	2-	12-		0-W06738	80280	-0.09	1162	40030	87	-109	21.8	149	-2.5	3	1.9	45660	5.6	17550	52	0.2
56-	43.7406-	109.8736-	2-	12-		0-W06739	77130	-0.10	1112	42150	66	162	23.9	125	-2.7	2	1.6	49820	3.5	15540	44	0.2
56-	43.7422-	109.8736-	2-	12-		0-W06740	77960	-0.05	1311	44700	87	-105	19.7	136	-1.9	2	1.4	42110	4.1	15770	45	0.2
56-	43.7419-	109.8858-	2-	12-		0-W06741	73300	-0.07	1196	47630	81	-99	18.9	128	-1.9	2	1.4	38430	4.5	15180	43	0.2
56-	43.7469-	109.8906-	2-	12-		0-W06742	67430	-0.08	964	32190	88	-105	15.0	133	-2.3	4	1.8	38430	10.2	16500	49	0.3
56-	43.7606-	109.8983-	2-	12-		0-W06743	85050	-0.09	1280	41390	65	-109	19.8	120	-2.5	2	1.6	42430	3.5	12890	45	-0.1
56-	43.7619-	109.8994-	2-	12-		0-W06744	69460	-0.07	929	37190	76	-97	16.7	116	-1.9	3	1.7	36810	8.5	14670	49	0.2
56-	43.7761-	109.9225-	2-	12-		0-W06745	66640	-0.07	1142	37650	86	-95	18.5	106	-1.9	3	1.7	40990	7.6	12570	39	0.2
56-	43.7836-	109.9239-	2-	12-		0-W06746	77550	-0.09	1350	40460	73	-117	27.2	242	-2.6	2	1.6	56620	4.6	19330	45	0.4
56-	43.9275-	109.0011-	2-	12-		0-W06747	73610	-0.08	1049	36050	65	-104	15.0	115	2.8	3	1.6	35800	6.1	15910	43	0.2
56-	43.9039-	109.0092-	2-	12-		0-W06748	79280	-0.08	1199	41300	79	-107	21.3	194	-2.1	2	1.6	39790	4.7	13630	48	-0.1
56-	43.8900-	109.0158-	2-	12-		0-W06749	76800	-0.07	1295	41200	86	-106	18.5	193	-1.9	2	1.7	35520	4.3	15530	47	0.2
56-	43.8900-	109.0328-	2-	12-		0-W06750	77600	-0.09	1353	41410	69	-103	21.8	161	-2.5	2	1.7	45540	4.7	14200	45	-0.1
56-	43.8814-	109.0400-	2-	12-		0-W06751	78590	-0.09	1295	41870	59	-117	21.3	182	-2.6	3	1.5	44910	3.7	14850	39	0.2
56-	43.6714-	109.4672-	2-	99-		0-W06752	84350	-0.07	1274	39320	53	-95	19.7	105	-2.1	2	1.6	42640	4.1	11610	42	-0.1
56-	43.8408-	109.0047-	2-	15-		0-W06753	55560	-0.06	728	25620	117	-89	10.1	88	2.5	5	1.8	31590	34.7	17230	59	0.6
56-	43.8436-	109.0225-	2-	15-		0-W06754	77510	-0.08	1132	47960	80	-100	21.8	129	-2.4	2	1.8	43780	4.4	13020	48	0.2
56-	43.7847-	109.9231-	2-	12-		0-W06755	83610	-0.14	1553	44500	65	-239	14.4	163	-5.0	-4	1.9	39530	-3.3	26070	36	-0.3
56-	43.7714-	109.9689-	2-	12-		0-W06756	70930	-0.07	1044	37630	78	-98	22.8	120	-2.2	3	1.7	44550	6.3	13670	44	0.2
56-	43.7706-	109.9831-	2-	12-		0-W06757	76020	-0.07	1202	42410	86	-113	21.7	223	-2.1	2	1.5	46540	4.1	13690	38	0.1
56-	43.7700-	109.9897-	2-	12-		0-W06758	78890	-0.09	1205	41320	80	-111	25.7	124	-2.7	2	1.9	52130	4.4	15930	54	0.2
56-	43.7697-	109.9931-	2-	11-		0-W06759	76160	-0.09	1112	48290	60	-108	25.6	207	-2.7	2	1.7	54180	3.9	13700	42	0.2
56-	43.8017-	109.8208-	2-	12-		0-W06760	78460	-0.08	1104	42630	62	137	25.2	129	-2.3	3	1.7	50150	3.4	14800	47	0.3
56-	43.8003-	109.8233-	2-	12-		0-W06761	64220	-0.06	936	24850	99	-107	11.1	85	2.1	4	1.7	27070	14.4	16490	52	0.4
56-	43.8231-	109.3728-	2-	12-		0-W06762	78360	-0.09	1185	45230	83	-106	28.3	266	-2.6	2	1.8	58550	5.0	12760	46	0.2
56-	43.7925-	109.3844-	2-	12-		0-W06763	72070	-0.09	947	46100	60	-108	31.2	209	-2.7	2	1.8	61900	3.5	11580	39	-0.2
56-	43.7919-	109.3867-	2-	12-		0-W06764	70350	-0.08	1083	43730	64	-102	33.7	215	-2.3	2	1.6	61800	3.4	12640	39	-0.1
56-	43.7833-	109.3886-	2-	12-		0-W06765	64470	-0.06	877	26330	98	-105	11.1	87	-1.7	4	1.7	27690	13.8	17470	47	0.4
56-	43.7714-	109.4036-	2-	12-		0-W06766	71850	-0.09	1032	44940	66	-109	36.2	225	-2.7	2	1.6	62470	3.4	13020	47	0.2
56-	43.7672-	109.4036-	2-	12-		0-W06767	71590	-0.09	1083	47380	63	-103	32.7	206	-2.7	2	1.7	56640	2.9	11260	46	0.2
56-	43.7564-	109.4189-	2-	12-		0-W06768	70660	-0.08	1077	44250	65	-102	32.0	203	-2.3	2	1.4	60470	3.1	12310	44	0.2
56-	43.7556-	109.4169-	2-	12-		0-W06769	74260	-0.07	1128	42850	89	-118	25.7	180	-2.1	2	1.5	51160	2.9	14980	40	0.2
56-	43.7369-	109.4431-	2-	11-		0-W06770	71660	-0.09	1178	47140	73	-108	33.1	217	-2.7	2	2.0	62750	3.9	12290	48	0.1
56-	43.7342-	109.4431-	2-	12-		0-W06771	73200	-0.09	1086	46040	62	-120	31.7	196	-2.6	2	1.4	58440	3.5	9200	43	0.2
56-	43.6344-	109.5286-	2-	12-		0-W06772	85400	-0.07	943	34300	78	-89	22.4	149	-2.1	3	1.5	47540	9.5	15260	48	0.3
56-	43.7153-	109.4744-	2-	12-		0-W06773	67860	-0.08	1070	46300	88	-121	31.4	245	-2.3	2	1.4	64390	3.4	9604	37	0.2
56-	43.7089-	109.4806-	2-	12-		0-W06774	76130	-0.09	917	43830	85	-111	30.8	168	-2.8	2	1.6	61670	4.0	13100	44	0.2
56-	43.7681-	109.0556-	2-	12-		0-W06775	67410	-0.08	696	26170	80	-100	9.3	70	-2.1	3	1.6	27930	11.3	15080	52	0.4
56-	43.7203-	109.3436-	2-	12-		0-W06776	70670	-0.07	1308	35150	76	-101	16.7	142	-2.0	3	1.7	35180	6.9	16350	47	0.2
56-	43.7267-	109.3483-	2-	12-		0-W06777	75800	-0.07	1299	35500	88	-121	18.8	199	-1.9	2	1.7	37980	5.7	15970	50	0.3
56-	43.7422-	109.3372-	2-	12-		0-W06778	77740	-0.08	1230	37740	103	-107	23.8	231	-2.3	2	2.0	46660	5.1	18210	57	0.3
56-	43.7444-	109.3372-	2-	12-		0-W06779	77840	-0.08	1429	35500	82	-107	20.1	165	-2.3	3	1.7	38370	4.4	17670	54	-0.1
56-	43.7586-	109.3233-	2-	12-		0-W06780	76140	-0.07	1363	41060	82	-102	21.6	202	-2.0	2	2.0	42590	4.5	14650	49	-0.1
56-	43.7606-	109.3264-	2-	12-		0-W06781	68050	-0.07	1168	33890	102	-106	15.8	154	-1.9	3	1.8	33910	10.0	12980	52	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.7628-109.C181-2-12-				C-	W06731		23370	592	23370	-38	-2	12.9	4.6	912	-1	-1	8.0	5107	134	-2.0	-31	0.269
56-43.7711-109.C339-2-12-				C-	W06732		26560	647	18790	-33	-2	13.5	4.9	870	-1	-1	9.9	4228	139	2.5	104	0.238
56-43.7725-109.C333-2-12-				C-	W06733		33540	632	22640	-30	-2	12.3	5.1	846	-1	-1	9.4	4126	115	1.9	-64	0.224
56-43.7922-109.C558-2-12-				C-	W06734		32690	625	20960	-38	-2	14.7	4.6	744	-1	-1	7.6	3373	124	2.5	-50	0.234
56-43.7922-109.C581-2-12-				C-	W06735		20850	473	22680	-40	-2	9.6	2.1	957	-2	-1	4.5	3364	61	-2.0	-64	0.631
56-43.7681-109.8147-2-12-				C-	W06736		24570	638	20850	-26	-2	13.9	3.8	940	-1	-1	5.6	4510	165	-1.7	53	0.271
56-43.7336-109.8386-2-12-				C-	W06737		33800	689	22100	-32	-2	13.8	4.7	1058	-1	-1	5.8	5764	192	-1.7	-96	0.309
56-43.7360-109.8625-2-12-				C-	W06738		35460	659	22260	-41	-2	14.7	5.0	805	-1	-1	7.6	3911	133	-2.2	-136	0.255
56-43.7406-109.8736-2-12-				C-	W06739		40200	749	21210	-44	-3	15.4	4.1	1034	-1	-1	7.0	4861	142	-2.0	129	0.253
56-43.7422-109.8736-2-12-				C-	W06740		37870	623	21250	-32	-1	13.4	4.7	915	-1	-1	8.7	4029	119	2.4	91	0.211
56-43.7419-109.8856-2-12-				C-	W06741		41580	654	20480	-30	-2	13.0	4.7	1031	-1	-1	7.6	4373	132	2.5	-58	0.228
56-43.7469-109.8906-2-12-				C-	W06742		30680	550	18760	-38	-2	12.3	5.3	616	-1	-1	11.8	4810	108	-2.3	119	0.214
56-43.7606-109.8883-2-12-				C-	W06743		33850	605	22540	-40	-2	13.2	3.4	1114	-1	-1	5.8	4264	136	-2.0	119	0.300
56-43.7619-109.8994-2-12-				C-	W06744		27160	583	19450	-31	-2	11.7	5.0	709	-1	-1	10.4	4564	127	2.3	100	0.224
56-43.7761-109.8225-2-12-				C-	W06745		34800	630	18870	-30	-2	12.3	5.7	911	-1	-1	9.1	5324	145	2.0	91	0.243
56-43.7836-109.8239-2-12-				C-	W06746		30270	683	20100	-44	-2	15.8	3.9	753	-2	-2	6.8	6270	174	-1.9	-56	0.229
56-43.8275-109.8011-2-12-				C-	W06747		27730	663	18680	56	-2	12.8	3.7	627	-1	-1	8.5	3901	103	2.5	-51	0.281
56-43.9039-109.8092-2-12-				C-	W06748		28060	623	24150	-33	-2	14.0	4.0	1054	-1	-1	6.9	4058	118	-1.7	112	0.258
56-43.8906-109.8158-2-12-				C-	W06749		30980	617	24220	-30	-2	12.7	4.8	938	-1	-1	7.4	4221	116	-1.6	-66	0.243
56-43.8800-109.8328-2-12-				C-	W06750		30880	646	22870	-40	-2	15.9	3.4	1027	-2	-1	5.8	4602	131	-2.0	-80	0.338
56-43.8814-109.8406-2-12-				C-	W06751		36030	695	22680	-40	-2	16.4	3.3	960	-1	-2	7.3	5052	142	-2.1	76	0.252
56-43.6714-109.4672-2-99-				C-	W06752		29950	536	19980	-34	-2	12.7	3.9	1055	-2	-1	6.8	4777	128	-1.7	107	0.603
56-43.8408-109.8047-2-15-				C-	W06753		19740	511	14050	-28	-1	8.2	9.6	-279	-1	-1	21.9	3993	83	4.0	79	0.243
56-43.8436-109.8225-2-15-				C-	W06754		36730	614	21580	-39	-2	15.2	4.9	837	-1	-1	8.6	3911	133	-2.1	-62	0.207
56-43.7847-109.8231-2-12-				C-	W06755		42800	670	22080	-87	-4	11.0	3.0	-780	-5	-2	4.9	5882	166	-3.7	129	0.318
56-43.7714-109.8686-2-12-				C-	W06756		37810	671	19420	-35	-2	13.9	4.4	834	-1	-1	8.7	4697	138	2.2	159	0.245
56-43.7706-109.9831-2-12-				C-	W06757		44100	635	20190	-33	-2	12.8	4.6	1032	-1	-1	7.4	4865	160	2.4	104	0.214
56-43.7700-109.6697-2-12-				C-	W06758		29780	712	21580	-44	-2	16.5	4.6	860	-1	-1	7.5	4076	141	-2.1	132	0.253
56-43.7697-109.9931-2-11-				C-	W06759		41410	737	22280	-41	-2	18.7	4.0	898	-1	-1	6.1	5134	184	-2.1	147	0.261
56-43.8017-109.8208-2-12-				C-	W06760		42150	709	21080	-37	-2	15.9	4.5	891	-1	-1	7.1	4714	143	-1.6	148	0.256
56-43.8003-109.8233-2-12-				C-	W06761		16890	545	19530	51	-2	9.1	7.0	644	-1	-1	14.4	4136	73	3.0	75	0.217
56-43.8231-109.3728-2-12-				C-	W06762		37810	707	20830	-42	-2	16.9	4.5	887	-1	-1	6.2	4990	181	-2.1	160	0.256
56-43.7625-109.3844-2-12-				C-	W06763		53070	888	20220	-42	-2	21.1	3.7	800	-2	-1	5.7	5256	189	-2.1	-132	0.246
56-43.7919-109.3867-2-12-				C-	W06764		51030	847	20140	-37	-2	19.5	3.9	741	-2	-1	6.3	5080	191	-1.7		0.240
56-43.7933-109.3886-2-12-				C-	W06765		19760	550	19590	42	-1	9.1	6.7	680	-1	-1	14.5	3513	77	2.6	54	0.215
56-43.7714-109.4036-2-12-				C-	W06766		52670	848	20890	-43	-2	21.4	4.4	1004	-1	-1	5.8	4509	187	-2.1	210	0.252
56-43.7672-109.4036-2-12-				C-	W06767		53500	839	20780	-43	-2	19.2	3.5	800	-1	-1	5.9	5140	169	-2.1	128	0.251
56-43.7564-109.4189-2-12-				C-	W06768		51760	844	20380	-35	-2	19.2	4.2	959	-1	-1	5.9	5552	186	-1.8	163	0.252
56-43.7556-109.4169-2-12-				C-	W06769		44310	805	21060	-34	-2	16.8	5.4	774	-1	-1	5.8	4634	171	-1.7	89	0.269
56-43.7369-109.4431-2-11-				C-	W06770		52260	827	20810	-45	-2	20.9	4.4	825	-1	-1	6.3	4345	190	3.0	-62	0.240
56-43.7342-109.4431-2-12-				C-	W06771		49830	850	21100	-43	-2	19.8	3.9	946	-1	-1	5.8	5788	186	-2.5	125	0.255
56-43.6244-109.5286-2-12-				C-	W06772		36720	660	16900	-33	-2	14.5	4.8	606	-1	-1	10.2	4514	140	2.3	126	0.232
56-43.7153-109.4744-2-12-				C-	W06773		56640	943	18980	-36	-2	19.5	4.6	627	-2	-1	5.1	5366	236	-1.8	-48	0.273
56-43.7089-109.4806-2-12-				C-	W06774		46540	812	20820	-47	-2	19.8	4.4	933	-1	-1	7.5	5042	179	-2.3	58	0.217
56-43.7681-109.0156-2-12-				C-	W06775		22310	556	19810	-37	-2	9.9	4.8	-283	-1	-1	12.2	4012	86	-1.6	34	0.236
56-43.7203-109.3436-2-12-				C-	W06776		30160	564	21690	-31	-2	11.6	4.6	1002	-1	-1	8.5	4787	106	-1.5	90	0.279
56-43.7267-109.3483-2-12-				C-	W06777		34620	579	24130	-32	-2	12.0	5.8	990	-1	-1	8.7	4683	121	-1.4	40	0.238
56-43.7422-109.3372-2-12-				C-	W06778		30980	593	24890	-39	-2	14.3	6.1	806	-1	-1	9.1	5161	134	-1.9	-21	0.216
56-43.7444-109.3372-2-12-				C-	W06779		33300	570	24790	-37	-2	11.9	4.4	972	-1	-1	8.3	4651	114	-1.9	127	0.241
56-43.7586-109.3233-2-12-				C-	W06780		25490	611	24570	68	-2	13.8	4.9	1115	-1	-1	7.1	4451	128	-1.6	-26	0.273
56-43.7606-109.3264-2-12-				C-	W06781		32400	504	20110	-31	-2	11.0	6.7	658	-1	-1	10.5	4484	105	2.1	-43	0.266

APPENDIX I-B. (continued). Elemental 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	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																										
56-43.7639-109.3006-2-12-						0-W06782-07/11/77-		9-	20-	11.0-	-	-	5.7-	110-		-1-6-4-6-3-3-1-2-1-3-3-1-											-1-	-	-	-	-	2.20
56-43.7650-109.3022-2-12-						0-W06783-07/11/77-		9-	18-	12.0-	-	-	5.9-	100-		-1-6-4-6-3-3-1-2-1-3-3-1-											-1-	-	-	-	-	1.93
56-43.7794-109.3314-2-12-						0-W06784-07/11/77-		10-	20-	6.0-	-	-	5.8-	110-		-1-6-3-6-3-3-1-2-1-4-4-1-											-1-	-	-	-	-	2.14
56-43.3144-109.7553-2-12-						0-W06785-07/25/77-		11-	15-	10.0-	-	-	5.7-	900-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	5.12
56-43.3147-109.7581-2-12-						0-W06786-07/25/77-		11-	15-	10.0-	-	-	5.8-	1000-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	7.21
56-43.3486-109.7644-2-12-						0-W06787-07/25/77-		12-	18-	10.0-	-	-	5.8-	1000-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	2.83
56-43.3500-109.7642-2-12-						0-W06788-07/25/77-		12-	18-	10.0-	-	-	5.8-	1000-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	2.51
56-43.3581-109.8019-2-12-						0-W06789-07/25/77-		12-	18-	10.0-	-	-	5.8-	1000-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	5.65
56-43.2797-109.7958-2-12-						0-W06790-07/25/77-		14-	18-	10.0-	-	-	6.5-	585-		-3-6-3-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	3.48
56-43.2806-109.7939-2-99-						0-W06791-07/25/77-		14-	18-	10.0-	0-	-	-	-		-3-6-4-6- - - - -1-4-3-2-											-1-	-	-	-	-	2.52
56-43.2683-109.7519-2-12-						0-W06792-07/25/77-		14-	18-	10.0-	-	-	5.7-	1000-		-3-6-3-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	5.11
56-43.2706-109.7794-2-15-						0-W06793-07/25/77-		14-	18-	-	-	-	-	-		-3-7-4-6- - - -2-1-4-3-2-											-1-	-	-	-	-	3.39
56-43.2667-109.7514-2-12-						0-W06794-07/25/77-		14-	18-	10.0-	-	-	6.1-	175-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	3.11
56-43.2722-109.8433-2-12-						0-W06795-07/25/77-		15-	18-	10.0-	-	-	5.7-	40-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	3.89
56-43.2708-109.8417-2-12-						0-W06796-07/25/77-		16-	18-	10.0-	-	-	5.7-	43-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	3.45
56-43.2353-109.8553-2-15-						0-W06797-07/25/77-		17-	18-	-	-	-	-	-		-3-6-4-6- - - - -1-4-3-2-											-1-	-	-	-	-	3.41
56-43.2344-109.8564-2-12-						0-W06798-07/25/77-		17-	18-	10.0-	-	-	5.7-	45-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	3.38
56-43.2450-109.9236-2-12-						0-W06799-07/25/77-		18-	12-	10.0-	-	-	5.6-	45-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	2.79
56-43.2444-109.9222-2-12-						0-W06800-07/25/77-		18-	12-	10.0-	-	-	5.7-	43-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	4.65
56-43.1997-109.9272-2-12-						0-W06801-07/25/77-		18-	12-	10.0-	-	-	5.7-	45-		-3-6-4-6-3-3-1-2-1-4-3-2-											-1-	-	-	-	-	4.09
56-43.2011-109.9264-2-15-						0-W06802-07/25/77-		18-	12-	-	-	-	-	-		-3-6-4-6- -1- -1-1-3-3-3-											-1-	-	-	-	-	1.80
56-43.1189-109.9100-2-12-						0-W06803-07/24/77-		11-	20-	16.0-	-	-	5.7-	40-		-3-6-4-6-2-2-1-2-2-3-2-3-											-1-	-	-	-	-	2.49
56-43.5344-109.9506-2-99-						0-W06804-07/26/77-		17-	11-	0-0-	-	-	-	-		-3-6-4-6- - - - -1-3-3-2-											-1-	-	-	-	-	2.07
56-43.5453-109.9622-2-99-						0-W06805-07/26/77-		17-	11-	0-0-	-	-	-	-		-3-6-4-6- - - - -1-3-3-2-											-1-	-	-	-	-	1.81
56-43.5478-109.9819-2-12-						0-W06806-07/26/77-		18-	17-	11.0-	-	-	5.7-	110-		-3-6-3-1-3-3-1-2-1-3-3-2-											-1-	-	-	-	-	4.67
56-43.5369-109.9919-2-11-						0-W06807-07/26/77-		18-	17-	11.0-	-	-	5.7-	100-		-4-9-4-6-2-3-1-2-1-3-3-2-											-1-	-	-	-	-	2.71
56-43.5239-109.9061-2-12-						0-W06808-07/26/77-		19-	15-	11.0-	-	-	5.6-	40-		-3-6-3-1-3-3-1-2-1-3-3-2-											-1-	-	-	-	-	2.93
56-43.5228-109.9047-2-12-						0-W06809-07/26/77-		19-	15-	11.0-	-	-	5.6-	45-		-3-6-3-1-3-3-1-2-1-3-3-2-											-1-	-	-	-	-	2.93
56-43.5025-109.9078-2-12-						0-W06810-07/26/77-		19-	15-	11.0-	-	-	5.9-	85-		-3-6-4-6-3-3-1-2-1-3-3-2-											-1-	-	-	-	-	2.51
56-43.8922-109.9539-2-37-						0-W06811-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.52
56-43.9825-109.9206-2-37-						0-W06812-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.24
56-43.9881-109.9250-2-37-						0-W06813-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.31
56-43.9914-109.9711-2-37-						0-W06814-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.29
56-43.8714-109.9256-2-37-						0-W06815-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.64
56-43.9306-109.9600-2-37-						0-W06816-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.67
56-43.9144-109.9469-2-37-						0-W06817-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.31
56-43.7694-109.9853-2-37-						0-W06818-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.68
56-43.7592-109.8142-2-37-						0-W06819-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.65
56-43.7569-109.8161-2-37-						0-W06820-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.51
56-43.7258-109.8322-2-37-						0-W06821-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.90
56-43.8147-109.9244-2-37-						0-W06822-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.41
56-43.8175-109.9733-2-37-						0-W06823-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																1.73
56-43.2758-109.6542-2-37-						0-W06824-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																4.31
56-43.2689-109.6050-2-37-						0-W06825-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																5.65
56-43.2703-109.6011-2-37-						0-W06826-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																29.53
56-43.3125-109.5742-2-37-						0-W06827-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																22.00
56-43.3992-109.5447-2-37-						0-W06828-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																3.52
56-43.4158-109.5233-2-37-						0-W06829-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																2.88
56-43.4258-109.5100-2-37-						0-W06830-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																2.80
56-43.3511-109.6811-2-37-						0-W06831-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																3.67
56-43.3436-109.6431-2-37-						0-W06832-			-	-	-	-	-	-		- - - - - - - - - - - - - - - - - - - -																24.67

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.7629-109.3006-2-12-						0-W06782	-5	-5	-5	22	-20	47	7	-10	-15	2	27
56-43.7650-109.3022-2-12-						0-W06783	-5	-5	-5	24	-20	56	16	-10	-15	3	18
56-43.7704-109.3314-2-12-						0-W06784	-5	11	-5	31	-20	51	16	-10	-15	3	27
56-43.3144-109.7553-2-12-						0-W06785	-5	11	-5	23	-20	18	-5	-10	16	1	10
56-43.3147-109.7581-2-12-						0-W06786	-5	11	-5	10	-20	15	-5	-10	-15	1	11
56-43.3486-109.7644-2-12-						0-W06787	-5	7	-5	15	-20	-15	-5	-10	-15	1	17
56-43.3500-109.7642-2-12-						0-W06788	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	19
56-43.3581-109.8019-2-12-						0-W06789	-5	-5	-5	20	-20	18	-5	-10	-15	1	16
56-43.2797-109.7958-2-12-						0-W06790	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	19
56-43.2806-109.7939-2-99-						0-W06791	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	13
56-43.2693-109.7519-2-12-						0-W06792	-5	-5	-5	11	-20	22	-5	-10	-15	1	15
56-43.2706-109.7794-2-15-						0-W06793	-5	5	-5	11	-20	-15	-5	-10	-15	2	16
56-43.2667-109.7514-2-12-						0-W06794	-5	-5	-5	41	-20	-15	-5	-10	-15	2	26
56-43.2722-109.8433-2-12-						0-W06795	-5	-5	-5	13	-20	-15	15	-10	-15	2	31
56-43.2708-109.8417-2-12-						0-W06796	-5	8	-5	27	-20	18	-5	-10	-15	2	25
56-43.2252-109.8553-2-15-						0-W06797	-5	-5	-5	16	-20	20	9	-10	-15	2	26
56-43.2244-109.8564-2-12-						0-W06798	-5	-5	-5	15	-20	-15	5	-10	-15	2	17
56-43.2450-109.9236-2-12-						0-W06799	-5	6	-5	13	-20	-15	-5	-10	-15	2	16
56-43.2444-109.9222-2-12-						0-W06800	-5	7	-5	16	-20	-15	6	-10	-15	2	13
56-43.1997-109.9272-2-12-						0-W06801	-5	-5	-5	15	-20	-15	-5	-10	-15	2	19
56-43.2011-109.9264-2-15-						0-W06802	-5	7	-5	42	-20	45	11	-10	-15	2	17
56-43.1189-109.9100-2-12-						0-W06803	-5	5	-5	20	-20	-15	-5	-10	-15	2	21
56-43.5344-109.9506-2-99-						0-W06804	-5	-5	-5	36	-20	35	-5	-10	-15	2	28
56-43.5453-109.9622-2-99-						0-W06805	-5	6	-5	33	-20	43	5	-10	-15	2	26
56-43.5478-109.9819-2-12-						0-W06806	-5	5	-5	26	-20	-15	5	-10	-15	1	15
56-43.5369-109.9919-2-11-						0-W06807	-5	-5	-5	26	-20	39	-5	-10	-15	2	27
56-43.5230-109.9061-2-12-						0-W06808	-5	6	-5	24	-20	-15	-5	-10	-15	2	26
56-43.5228-109.9047-2-12-						0-W06809	-5	-5	-5	23	-20	-15	-5	-10	-15	2	25
56-43.5025-109.9078-2-12-						0-W06810	-5	6	-5	28	-20	21	5	-10	-15	2	27
56-43.8922-109.9939-2-37-						0-W06811	-5	-5	-5	30	-20	65	16	-10	-15	2	24
56-43.9825-109.9206-2-37-						0-W06812	-5	-5	-5	50	-20	90	14	-10	-15	1	17
56-43.9881-109.9250-2-37-						0-W06813	-5	-5	-5	25	-20	66	14	-10	-15	1	23
56-43.9914-109.9711-2-37-						0-W06814	-5	-5	-5	20	-20	76	9	-10	-15	2	23
56-43.8714-109.9256-2-37-						0-W06815	-5	5	-5	29	-20	48	16	-10	-15	2	25
56-43.9306-109.9600-2-37-						0-W06816										1	29
56-43.9144-109.9469-2-37-						0-W06817	-5	-5	-5	39	-20	84	13	-10	-15	2	27
56-43.7694-109.9853-2-37-						0-W06818	-5	-5	-5	30	-20	77	14	-10	-15	2	33
56-43.7592-109.8142-2-37-						0-W06819	-5	-5	-5	22	-20	56	10	-10	-15	1	26
56-43.7569-109.8161-2-37-						0-W06820	-5	-5	-5	25	-20	85	5	-10	-15	2	24
56-43.7258-109.8222-2-37-						0-W06821										2	25
56-43.8147-109.9244-2-37-						0-W06822	-5	-5	-5	27	-20	83	15	-10	-15	1	27
56-43.8175-109.9733-2-37-						0-W06823										2	32
56-43.2758-109.8542-2-37-						0-W06824										2	13
56-43.2689-109.8050-2-37-						0-W06825	-5	13	-5	-10	-20	-15	7	-10	18	2	9
56-43.2703-109.8011-2-37-						0-W06826	-5	14	-5	10	-20	15	36	-10	-15	2	28
56-43.3125-109.5742-2-37-						0-W06827	-5	6	-5	35	-20	38	28	-10	-15	3	45
56-43.3992-109.5447-2-37-						0-W06828	-5	7	-5	28	-20	-15	22	-10	-15	2	43
56-43.4158-109.5233-2-37-						0-W06829	-5	-5	-5	23	-20	17	12	-10	-15	2	39
56-43.4258-109.5100-2-37-						0-W06830	-5	7	-5	18	-20	-15	19	-10	-15	2	36
56-43.3511-109.6811-2-37-						0-W06831	-5	5	-5	15	-20	-15	14	-10	16	2	15
56-43.3436-109.6431-2-37-						0-W06832	-5	11	-5	29	-20	26	40	-10	-15	2	36

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.7639-	109.3006-	2-	12-	0-	W06782	73690	-0.08	1195	39040	102	-103	21.8	189	-2.4	2	2.0	41240	9.2	14540	63	0.2
56-	43.7650-	109.3022-	2-	12-	0-	W06783	74140	-0.08	1374	40420	94	-103	24.4	239	-2.4	3	2.2	49860	5.9	14540	52	-0.1
56-	43.7794-	109.3314-	2-	12-	0-	W06784	76240	-0.07	1453	33340	81	123	20.4	169	-2.0	3	1.7	39860	5.4	17700	49	0.2
56-	43.8144-	109.7553-	2-	12-	0-	W06785	31330	-0.05	237	19170	155	97	3.5	69	-1.4	7	1.7	20840	31.2	9439	83	0.5
56-	43.8147-	109.7581-	2-	12-	0-	W06786	31840	-0.07	243	19560	194	113	4.4	94	-1.8	9	3.0	31780	65.6	9445	119	1.0
56-	43.8486-	109.7644-	2-	12-	0-	W06787	35450	-0.06	252	16500	74	65	4.5	51	-1.6	4	1.3	14800	12.4	12280	53	0.3
56-	43.8500-	109.7642-	2-	12-	0-	W06788	35320	-0.04	374	14080	53	127	3.7	39	-1.2	4	1.1	11220	7.1	12470	39	0.2
56-	43.8591-	109.8019-	2-	12-	0-	W06789	33550	-0.05	230	19270	141	-62	4.1	63	-1.3	7	1.6	18400	39.0	10520	78	0.6
56-	43.8797-	109.7558-	2-	12-	0-	W06790	20690	-0.05	171	20300	38	72	1.8	42	-1.3	3	1.2	9926	28.9	10500	23	0.5
56-	43.8806-	109.7639-	2-	99-	0-	W06791	47570	-0.05	741	15170	94	-69	2.7	21	-1.4	5	1.8	13910	11.5	17620	54	0.4
56-	43.8683-	109.7519-	2-	12-	0-	W06792	35200	-0.05	397	18280	126	-68	5.8	62	2.1	7	1.5	22710	34.7	12680	76	0.5
56-	43.8706-	109.7794-	2-	15-	0-	W06793	40450	-0.05	572	17570	140	112	4.4	26	-1.2	5	2.0	17730	19.3	17850	73	0.4
56-	43.8667-	109.7514-	2-	12-	0-	W06794	64750	-0.07	782	21910	95	-88	13.2	80	2.4	4	1.7	31020	14.1	15730	54	0.4
56-	43.8722-	109.8433-	2-	12-	0-	W06795	55880	-0.08	743	15830	127	100	8.2	33	-2.1	7	1.8	25790	16.2	22030	78	0.3
56-	43.8708-	109.8417-	2-	12-	0-	W06796	60200	-0.06	818	23900	119	-98	10.7	66	-1.8	5	1.9	28290	13.2	17150	65	0.4
56-	43.8353-	109.8553-	2-	15-	0-	W06797	65820	-0.05	967	23970	110	-109	9.9	101	-1.8	4	2.1	30770	14.4	18260	49	0.4
56-	43.8344-	109.8564-	2-	12-	0-	W06798	52240	-0.06	571	22560	124	-80	8.2	55	-1.8	5	2.1	23430	19.4	18060	74	0.5
56-	43.8450-	109.8236-	2-	12-	0-	W06799	48210	-0.06	723	22230	120	99	4.4	29	-1.6	5	1.9	18150	13.7	18320	69	0.3
56-	43.8444-	109.8222-	2-	12-	0-	W06800	50510	0.05	738	17580	136	151	4.4	33	-1.6	7	2.1	27440	26.5	19760	82	0.5
56-	43.1997-	109.8272-	2-	12-	0-	W06801	48120	-0.05	614	18150	148	-87	4.1	30	-1.4	7	2.1	20350	21.7	19530	60	0.5
56-	43.7011-	109.8264-	2-	15-	0-	W06802	76430	-0.10	1231	41970	69	-96	23.2	162	-2.2	3	1.5	51790	3.7	14430	50	0.4
56-	43.1180-	109.8100-	2-	12-	0-	W06803	60620	-0.07	866	33760	129	103	10.0	61	-1.5	4	1.9	26540	11.0	16880	63	0.3
56-	43.5344-	109.8506-	2-	99-	0-	W06804	80490	-0.08	1208	44690	57	-100	14.0	133	1.6	2	1.2	31320	2.5	13700	29	0.1
56-	43.5452-	109.8422-	2-	99-	0-	W06805	78740	-0.11	1187	39220	71	-97	22.7	190	-2.3	2	1.6	46060	5.5	14440	58	-0.2
56-	43.5478-	109.8819-	2-	12-	0-	W06806	62110	-0.10	566	29640	105	232	8.7	51	-2.1	6	2.1	33560	20.3	13220	55	0.3
56-	43.5368-	109.8819-	2-	11-	0-	W06807	66010	-0.09	1004	30540	102	-103	14.8	103	-1.9	4	2.3	35670	11.3	15780	48	0.3
56-	43.5239-	109.8061-	2-	12-	0-	W06808	69610	-0.07	815	24620	72	120	9.1	64	1.9	4	1.4	24320	11.1	18130	44	0.3
56-	43.5228-	109.8047-	2-	12-	0-	W06809	66470	-0.09	853	23140	82	-84	11.4	94	3.4	4	1.8	31050	14.0	17840	52	0.3
56-	43.5025-	109.8078-	2-	12-	0-	W06810	70530	-0.09	1075	33110	92	200	16.4	106	-2.0	4	1.8	39390	10.8	13640	54	0.3
56-	43.8922-	109.9939-	2-	37-	0-	W06811	92260	-0.10	1273	43600	71	-107	27.8	213	-2.6	2	1.6	45940	3.6	11550	49	-0.2
56-	43.9825-	109.9206-	2-	37-	0-	W06812	86530	-0.10	1199	46310	53	-123	23.7	207	-2.4	1	1.0	38310	2.2	13760	40	-0.1
56-	43.9881-	109.9250-	2-	37-	0-	W06813	78740	-0.09	1081	44930	62	-105	27.4	195	-2.1	2	1.3	45590	3.0	11590	46	0.1
56-	43.9914-	109.9711-	2-	37-	0-	W06814	78990	-0.08	1171	44580	80	-104	24.2	241	-2.0	2	1.5	41510	3.1	11120	36	0.1
56-	43.8714-	109.9256-	2-	37-	0-	W06815	85400	-0.11	1401	43460	93	-110	25.5	157	-2.6	2	1.7	46600	3.6	10970	42	-0.2
56-	43.9306-	109.9600-	2-	37-	0-	W06816	98790	-0.14	1170	43960	52	-173	18.4	146	-3.5	2	1.3	32480	-2.2	15330	33	-0.2
56-	43.9144-	109.9445-	2-	37-	0-	W06817	80380	-0.09	904	45630	62	-108	29.6	226	-2.3	2	1.4	49210	2.7	14900	37	-0.1
56-	43.7694-	109.9853-	2-	37-	0-	W06818	84450	-0.08	1159	35290	80	-110	22.0	193	-2.0	2	1.7	37640	4.6	9977	42	-0.1
56-	43.7592-	109.8142-	2-	37-	0-	W06819	78220	-0.12	1190	45520	85	-109	32.4	202	-3.0	3	1.6	63640	3.6	13340	47	-0.2
56-	43.7569-	109.8161-	2-	37-	0-	W06820	82120	-0.10	1065	47930	52	-122	23.0	212	-2.6	2	1.3	43210	2.0	11300	39	-0.2
56-	43.7258-	109.8322-	2-	37-	0-	W06821	86990	-0.09	1155	43510	68	-117	17.6	94	-2.2	2	1.4	35620	3.1	13420	39	-0.1
56-	43.8147-	109.8244-	2-	37-	0-	W06822	78430	-0.08	1167	41190	97	-106	23.7	216	-2.0	2	1.7	43040	3.7	11010	38	0.3
56-	43.8175-	109.8733-	2-	37-	0-	W06823	86220	-0.10	1357	40900	67	-113	19.9	126	-2.5	2	1.9	36790	3.8	12710	47	0.3
56-	43.2758-	109.6542-	2-	37-	0-	W06824	74640	-0.08	-180	14410	88	171	7.8	77	-2.1	5	1.3	20880	3.5	10620	58	0.5
56-	43.2689-	109.6050-	2-	37-	0-	W06825	61050	-0.07	380	15030	256	200	4.5	26	-1.6	16	2.4	21370	24.0	17060	119	1.0
56-	43.2707-	109.6011-	2-	37-	0-	W06826	65970	-0.10	338	15700	196	227	8.1	38	-2.6	16	2.0	27700	16.4	14720	130	1.0
56-	43.3125-	109.5742-	2-	37-	0-	W06827	74260	-0.11	465	21620	74	173	12.7	76	3.7	10	1.3	31820	5.9	13710	61	0.5
56-	43.3902-	109.5447-	2-	37-	0-	W06828	65840	-0.09	476	39260	51	-78	8.6	33	3.9	6	1.3	21480	5.4	41250	31	0.4
56-	43.4158-	109.5233-	2-	37-	0-	W06829	52820	-0.08	603	62070	74	123	7.3	43	3.8	5	1.3	20270	5.9	31990	32	0.4
56-	43.4258-	109.5100-	2-	37-	0-	W06830	51180	-0.10	498	65990	74	156	8.2	55	3.3	5	1.6	20390	7.1	27890	35	0.4
56-	43.3511-	109.6811-	2-	37-	0-	W06831	71690	-0.09	341	10160	67	283	4.1	36	-2.2	7	1.0	14360	5.2	16030	52	0.3
56-	43.3436-	109.6431-	2-	37-	0-	W06832	68250	-0.10	335	10370	101	251	12.8	51	3.9	8	1.2	29130	6.6	13230	68	0.5

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	43.7639-	109.3006-	2-	12-		0-W06782	20990	572	23130	-39	-2	14.0	5.2	762	-1	-1	10.5	4284	117	-1.7	104	0.210
56-	43.7650-	109.3022-	2-	12-		0-W06783	35740	666	24220	-39	-2	14.8	4.4	926	-1	-1	8.8	5254	149	-1.9	96	0.219
56-	43.7794-	109.3314-	2-	12-		0-W06784	25230	588	22960	-32	-2	12.6	4.6	933	-1	-1	8.8	4415	115	1.6	-99	0.243
56-	43.3144-	109.7553-	2-	12-		0-W06785	9067	283	10770	-21	-1	6.6	13.6	-173	-1	-1	29.2	3953	60	4.7	46	0.175
56-	43.3147-	109.7581-	2-	12-		0-W06786	10990	331	9952	-28	-2	8.9	13.1	-209	-2	-1	44.3	5221	70	7.1	75	0.163
56-	43.3496-	109.7644-	2-	12-		0-W06787	10860	206	11570	-24	-1	5.9	5.3	-160	-1	-1	14.6	2390	38	3.8	-34	0.194
56-	43.3500-	109.7642-	2-	12-		0-W06788	9223	176	11480	-19	-1	4.5	3.9	275	-1	-1	11.9	1943	32	2.2	56	0.211
56-	43.3581-	109.8019-	2-	12-		0-W06789	12400	276	10890	-20	-1	6.3	13.6	-174	-1	-1	32.4	4096	59	4.8	32	0.174
56-	43.2797-	109.7958-	2-	12-		0-W06790	14220	172	3862	-21	-1	3.5	3.5	-137	-1	-1	6.9	2015	27	3.2	-36	0.504
56-	43.2806-	109.7939-	2-	90-		0-W06791	5445	164	18630	44	-1	5.2	6.8	-173	-1	-1	18.6	2447	37	3.3	-34	0.135
56-	43.2683-	109.7519-	2-	12-		0-W06792	9124	283	10490	45	-1	6.8	8.2	-206	2	-1	26.9	3508	57	4.5	53	0.190
56-	43.2706-	109.7794-	2-	15-		0-W06793	12200	221	19260	-20	-1	5.2	10.8	-193	-1	-1	24.8	2946	42	3.3	-27	0.137
56-	43.2667-	109.7514-	2-	12-		0-W06794	22520	556	17860	-34	-2	10.7	6.0	464	-1	-1	13.9	4213	72	3.6	126	0.224
56-	43.2722-	109.8433-	2-	12-		0-W06795	10280	334	17000	-35	-2	7.3	8.5	-229	-2	-1	30.1	4172	58	3.8	87	0.129
56-	43.2708-	109.8417-	2-	12-		0-W06796	16350	413	18310	45	-2	8.7	7.3	424	-1	-1	22.8	4191	80	2.0	106	0.151
56-	43.2353-	109.8553-	2-	15-		0-W06797	17230	565	18650	50	-1	9.0	7.8	487	-1	-1	15.2	4233	94	2.6	142	0.224
56-	43.2344-	109.8564-	2-	12-		0-W06798	14090	322	16690	-30	-2	7.8	9.4	-211	-1	-1	22.7	3357	63	4.0	-41	0.149
56-	43.2450-	109.8236-	2-	12-		0-W06799	8944	209	18320	42	-1	5.8	8.0	-184	-1	1	21.2	3279	40	3.7	-35	0.132
56-	43.2444-	109.8222-	2-	12-		0-W06800	10650	227	18330	55	-1	7.1	10.9	-196	-1	1	30.1	4185	57	4.2	93	0.154
56-	43.1997-	109.8272-	2-	12-		0-W06801	12240	270	17460	40	-1	6.0	12.6	-240	-1	1	25.6	3960	50	3.6	61	0.160
56-	43.2011-	109.8264-	2-	15-		0-W06802	47810	677	20260	-39	-3	16.2	4.2	890	-2	-1	8.5	5255	153	-1.9	101	0.212
56-	43.1189-	109.9100-	2-	12-		0-W06803	23040	388	19320	47	-2	7.9	8.7	380	-1	-1	19.0	3771	79	2.8	59	0.131
56-	43.5344-	109.9506-	2-	90-		0-W06804	28690	595	21520	-28	-2	11.5	3.0	1055	-1	-1	6.7	3671	120	-1.6	82	0.309
56-	43.5453-	109.9622-	2-	90-		0-W06805	36000	614	21980	-39	-3	14.8	4.6	838	-2	-1	8.0	4480	130	-2.3	88	0.226
56-	43.5478-	109.9819-	2-	12-		0-W06806	11740	533	23240	-40	-2	9.2	8.2	-285	-2	1	12.8	6247	83	2.7	54	0.365
56-	43.5369-	109.9919-	2-	11-		0-W06807	28950	641	16680	-34	-2	10.1	6.6	624	-1	-1	10.8	4426	102	3.1		0.251
56-	43.5239-	109.9661-	2-	12-		0-W06808	20080	544	18810	35	-2	7.8	4.9	586	-1	-1	11.2	3897	74	1.8	44	0.262
56-	43.5228-	109.9047-	2-	12-		0-W06809	20450	532	18410	-34	-2	10.1	6.1	511	-1	-1	15.2	4098	75	3.4	-55	0.193
56-	43.5025-	109.9078-	2-	12-		0-W06810	21860	646	19460	47	-2	11.6	5.7	558	-1	-1	10.6	5192	97	2.5	97	0.237
56-	43.8922-	109.9939-	2-	37-		0-W06811	50740	715	23600	-44	-3	16.3	3.9	986	-1	-1	5.6	4479	128	-2.3	101	0.271
56-	43.9825-	109.9206-	2-	37-		0-W06812	43800	664	25470	-38	-2	14.0	2.3	1164	-1	-1	4.5	3546	114	-2.1	90	0.276
56-	43.9881-	109.9250-	2-	37-		0-W06813	44740	710	22590	-33	-2	16.6	3.9	751	-1	-1	6.2	3404	128	-2.3	131	0.211
56-	43.9914-	109.9711-	2-	37-		0-W06814	50420	693	22800	-32	-2	16.0	4.1	988	-1	-1	7.1	4446	116	-1.8	68	0.182
56-	43.8714-	109.9256-	2-	37-		0-W06815	41490	699	23110	-44	-3	16.1	4.8	883	-1	-1	8.0	4823	120	-2.3	-68	0.205
56-	43.9306-	109.9600-	2-	37-		0-W06816	54240	785	24300	-61	-4	10.5	1.5	1164	-3	-2	3.9	3956	117	-3.2	-49	0.428
56-	43.9144-	109.9469-	2-	37-		0-W06817	50360	770	21240	-36	-2	18.3	2.8	777	-1	-1	5.0	3859	136	-2.0	124	0.262
56-	43.7694-	109.9853-	2-	37-		0-W06818	39640	611	22890	-33	-2	12.3	4.6	1088	-1	-1	7.2	3686	100	-1.8	-46	0.233
56-	43.7592-	109.8142-	2-	37-		0-W06819	47890	814	20910	-49	-3	19.3	3.8	900	-2	-1	8.4	6592	219	-2.6	112	0.196
56-	43.7569-	109.8161-	2-	37-		0-W06820	48480	752	22700	-41	-3	16.7	3.3	834	-1	-1	5.1	4053	127	-2.3	-57	0.296
56-	43.7258-	109.8322-	2-	37-		0-W06821	36500	605	21450	-36	-2	11.3	3.7	811	-1	-1	6.8	3533	104	-1.9	46	0.279
56-	43.8147-	109.9244-	2-	37-		0-W06822	47550	676	22930	-32	-2	14.6	5.1	1251	-1	-1	6.3	4536	131	-1.7	73	0.224
56-	43.8178-	109.9733-	2-	37-		0-W06823	31890	572	25070	-42	-3	12.2	3.9	908	-1	-1	7.8	3645	89	-2.2	-51	0.222
56-	43.2758-	109.6542-	2-	37-		0-W06824	28440	235	36930	-33	-2	7.3	6.2	-348	-2	-1	21.4	2545	57	-1.6	-64	0.201
56-	43.2689-	109.6050-	2-	37-		0-W06825	8863	194	28250	-27	-2	7.6	24.2	266	-1	2	80.5	4223	49	9.4	-59	0.070
56-	43.2703-	109.6011-	2-	37-		0-W06826	13420	475	25410	-41	-3	9.1	21.5	-329	-2	-2	64.1	4518	67	8.6	-69	0.461
56-	43.3125-	109.5742-	2-	37-		0-W06827	26070	595	20320	-47	-3	10.7	8.8	-436	-2	-2	19.2	3405	82	6.1	151	1.146
56-	43.3903-	109.5447-	2-	37-		0-W06828	24580	750	30730	105	-2	7.3	4.0	-369	-1	-1	12.1	3539	43	3.7	-39	0.291
56-	43.4158-	109.5223-	2-	37-		0-W06829	40290	520	2591	87	-2	7.4	5.9	-293	-1	-1	12.2	2703	49	4.2	61	0.236
56-	43.4258-	109.5100-	2-	37-		0-W06830	55740	441	3239	113	-2	7.3	4.8	-268	-1	-1	13.6	2824	43	2.9	-58	0.206
56-	43.3511-	109.6811-	2-	37-		0-W06831	14130	167	37170	-38	-2	6.3	5.0	-344	-1	-1	21.4	2868	43	3.1	-54	0.171
56-	43.3436-	109.6431-	2-	37-		0-W06832	22110	339	17780	-44	-3	9.3	9.9	-327	-2	-2	33.0	3691	79	5.7	91	0.746

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																														U CONCENTRATION
							TIME SAMPLED																													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	43.2758	109.6547	2	37	0	W06833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.42
56	43.4681	109.6697	2	37	0	W06834	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.95
56	43.2858	109.5644	2	37	0	W06835	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.26
56	43.3553	109.5217	2	37	0	W06836	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.53
56	43.3728	109.4956	2	37	0	W06837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.32
56	43.3308	109.5256	2	37	0	W06838	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.51
56	43.3314	109.4858	2	37	0	W06839	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.02
56	43.3406	109.4594	2	37	0	W06840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.29
56	43.2869	109.5517	2	37	0	W06841	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.48
56	43.3161	109.5542	2	37	0	W06842	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.99
56	43.3567	109.7494	2	37	0	W06843	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.07
56	43.3828	109.7508	2	37	0	W06844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.74
56	43.4503	109.6114	2	37	0	W06845	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.33
56	43.4683	109.5897	2	37	0	W06846	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.69
56	43.4736	109.5819	2	37	0	W06847	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.89
56	43.4733	109.5767	2	37	0	W06848	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.51
56	43.2964	109.6333	2	37	0	W06849	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.60
56	43.2731	109.5775	2	37	0	W06850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68.15
56	43.1853	109.6236	2	37	0	W06851	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.26
56	43.2069	109.6153	2	37	0	W06852	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.35
56	43.2306	109.5928	2	37	0	W06853	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.34
56	43.2456	109.5731	2	37	0	W06854	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.33
56	43.3256	109.5789	2	37	0	W06855	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.11
56	43.3050	109.6053	2	37	0	W06856	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.97
56	43.3233	109.6419	2	37	0	W06857	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.19
56	43.3456	109.6036	2	37	0	W06858	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.03
56	43.3906	109.5928	2	37	0	W06859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86.99
56	43.3633	109.6464	2	37	0	W06860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.85
56	43.3994	109.6356	2	37	0	W06861	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94.65
56	43.4114	109.5872	2	37	0	W06862	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.90
56	43.4228	109.5778	2	37	0	W06863	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.93
56	43.4197	109.6611	2	37	0	W06864	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.08
56	43.4611	109.6608	2	37	0	W06865	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.91
56	43.4119	109.5908	2	37	0	W06866	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.42
56	43.2911	109.6742	2	37	0	W06867	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.81
56	43.2550	109.6839	2	37	0	W06868	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.01
56	43.2944	109.5458	2	37	0	W06869	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.99
56	43.3372	109.6464	2	37	0	W06870	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.47
56	43.5003	109.7131	2	37	0	W06871	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.00
56	43.3778	109.6672	2	37	0	W06872	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.95
56	43.4506	109.7111	2	37	0	W06873	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
56	43.4679	109.7511	2	37	0	W06874	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.50
56	43.6436	109.7931	2	37	0	W06875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.12
56	43.4850	109.8106	2	37	0	W06876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.93
56	43.4864	109.8100	2	37	0	W06877	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.61
56	43.4800	109.8217	2	37	0	W06878	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.86
56	43.4889	109.8397	2	37	0	W06879	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.14
56	43.4897	109.8378	2	37	0	W06880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.46
56	43.4525	109.7456	2	37	0	W06881	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.25
56	43.4994	109.7625	2	37	0	W06882	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.89
56	43.5017	109.7500	2	37	0	W06883	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.62

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY	
							Concentrations reported in weight parts per million (ppm)									Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB. SAMPLE LOCATION NUMBER	Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.2750-109.6547-2-37-						0-W06833	-5	8	-5	16	-20	-15	6	-10	-15	2	8
56-43.4681-109.6697-2-37-						0-W06834	-5	18	-5	-10	-20	37	22	-10	-15	2	32
56-43.2858-109.5844-2-37-						0-W06835	-5	-5	-5	20	-20	27	25	-10	-15	3	41
56-43.3553-109.5217-2-37-						0-W06836	-5	7	-5	15	-20	-15	8	-10	-15	2	34
56-43.3728-109.4956-2-37-						0-W06837	-5	7	-5	14	-20	-15	12	-10	15	3	42
56-43.3308-109.5256-2-37-						0-W06838	-5	13	-5	12	-20	-15	10	-10	-15	-1	12
56-43.3314-109.4858-2-37-						0-W06839	-5	13	-5	17	-20	35	10	-10	-15	2	15
56-43.3406-109.4594-2-37-						0-W06840	-5	7	-5	13	-20	-15	12	-10	-15	3	8
56-43.2869-109.5517-2-37-						0-W06841	-5	8	-5	14	-20	22	8	-10	-15	2	11
56-43.3161-109.5542-2-37-						0-W06842	-5	6	-5	-10	-20	-15	10	-10	-15	2	9
56-43.3547-109.7494-2-37-						0-W06843	-5	-5	-5	38	-20	31	40	-10	-15	2	36
56-43.3828-109.7508-2-37-						0-W06844										2	30
56-43.4503-109.6114-2-37-						0-W06845	-5	-5	-5	26	-20	-15	10	-10	-15	3	50
56-43.4683-109.5897-2-37-						0-W06846										3	31
56-43.4736-109.5819-2-37-						0-W06847	-5	-5	-5	35	-20	18	11	-10	-15	2	38
56-43.4733-109.5767-2-37-						0-W06848	-5	6	-5	32	-20	-15	13	-10	-15	2	38
56-43.2964-109.6333-2-37-						0-W06849	-5	6	-5	12	-20	-15	11	-10	-15	2	14
56-43.2731-109.5775-2-37-						0-W06850										2	36
56-43.1853-109.6236-2-37-						0-W06851	-5	7	-5	13	-20	28	11	-10	-15	2	18
56-43.2069-109.6153-2-37-						0-W06852	-5	15	-5	11	-20	-15	8	-10	-15	2	12
56-43.2306-109.5928-2-37-						0-W06853	-5	8	-5	16	-20	39	8	-10	-15	2	13
56-43.2456-109.5721-2-37-						0-W06854	-5	12	-5	19	-20	25	15	-10	-15	2	19
56-43.3256-109.5709-2-37-						0-W06855	-5	8	-5	16	-20	19	20	-10	-15	3	47
56-43.3050-109.5052-2-37-						0-W06856										2	35
56-43.3233-109.6419-2-37-						0-W06857	-5	14	-5	36	-20	40	58	-10	-15	2	70
56-43.3456-109.6036-2-37-						0-W06858	-5	13	-5	18	-20	26	36	-10	-15	3	31
56-43.3906-109.5928-2-37-						0-W06859	-5	0	-5	20	-20	31	34	-10	17	2	39
56-43.3633-109.6464-2-37-						0-W06860	-5	6	-5	33	-20	20	23	-10	-15	-1	63
56-43.3094-109.6356-2-37-						0-W06861	-5	10	-5	40	-20	32	70	-10	-15	2	26
56-43.4114-109.5872-2-37-						0-W06862	-5	10	-5	28	-20	31	27	-10	28	3	39
56-43.4229-109.5778-2-37-						0-W06863	-5	-5	-5	13	-20	-15	15	-10	-15	3	21
56-43.4197-109.6611-2-37-						0-W06864	-5	7	-5	14	-20	18	16	-10	-15	3	30
56-43.4611-109.6608-2-37-						0-W06865	-5	11	-5	22	-20	-15	18	-10	-15	2	26
56-43.4119-109.5908-2-37-						0-W06866	-5	9	-5	27	-20	-15	18	-10	-15	3	44
56-43.2311-109.6742-2-37-						0-W06867	-5	13	-5	31	-20	25	26	-10	-15	3	31
56-43.2550-109.6839-2-37-						0-W06868	-5	0	-5	36	-20	29	28	-10	-15	2	43
56-43.2844-109.5458-2-37-						0-W06869	-5	-5	-5	35	-20	55	19	-10	-15	2	36
56-43.3372-109.6464-2-37-						0-W06870	-5	12	-5	47	-20	21	47	-10	-15	2	49
56-43.5002-109.7131-2-37-						0-W06871	-5	12	-5	30	-20	38	19	-10	-15	2	26
56-43.3778-109.6672-2-37-						0-W06872	-5	6	-5	37	-20	41	21	-10	-15	2	49
56-43.4506-109.7111-2-37-						0-W06873	-5	-5	-5	20	-20	20	9	-10	-15	2	32
56-43.4678-109.7511-2-37-						0-W06874	-5	5	-5	27	-20	47	14	-10	-15	1	16
56-43.4436-109.7931-2-37-						0-W06875	-5	11	-5	24	-20	187	12	-10	-15	-1	25
56-43.4850-109.8106-2-37-						0-W06876	-5	0	-5	42	-20	46	17	-10	-15	2	33
56-43.4864-109.8100-2-37-						0-W06877	-5	-5	-5	15	-20	68	8	-10	-15	2	40
56-43.4800-109.8217-2-37-						0-W06878	-5	5	-5	15	-20	20	12	-10	-15	1	26
56-43.4889-109.8397-2-37-						0-W06879	-5	8	-5	17	-20	42	13	-10	-15	2	26
56-43.4897-109.8378-2-37-						0-W06880	-5	5	-5	31	-20	65	19	-10	-15	2	42
56-43.4525-109.7456-2-37-						0-W06881	-5	-5	-5	30	-20	122	25	-10	-15	2	49
56-43.4994-109.7625-2-37-						0-W06882	-5	8	-5	38	-20	60	14	-10	-15	2	40
56-43.5017-109.7500-2-37-						0-W06883	-5	9	-5	30	-20	81	15	-10	-15	2	48

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.2758-109.6547-2-37-						C-W06833	60440	-0.06	454	90&1	128	266	3.7	24	-1.5	8	1.7	13160	9.0	15950	59	0.5
56-43.4481-109.6697-2-37-						0-W06834	63130	-0.12	432	19160	313	197	15.1	122	-3.1	20	3.3	43610	41.5	13930	189	1.5
56-43.2958-109.5844-2-37-						0-W06835	70090	-0.09	413	16860	51	210	11.4	36	-2.4	7	1.2	27600	4.1	13970	45	0.5
56-43.3553-109.5217-2-37-						0-W06836	49070	-0.07	568	4766	133	-41	7.7	56	2.8	9	1.8	22750	29.6	32500	54	0.9
56-43.3728-109.4956-2-37-						0-W06837	57860	-0.09	785	8503	145	79	8.0	52	5.2	14	2.1	22170	46.9	44850	81	1.2
56-43.3308-109.5256-2-37-						0-W06838	60810	-0.07	398	10350	115	265	5.4	57	-1.9	11	1.7	16930	12.5	14710	77	0.8
56-43.3314-109.4858-2-37-						0-W06839	61480	-0.07	417	19940	143	195	6.5	76	-1.7	12	2.1	21080	23.7	15420	85	0.6
56-43.3406-109.4594-2-37-						0-W06840	58400	-0.05	427	14560	96	174	3.3	34	-1.2	7	1.5	10770	5.3	12700	48	0.4
56-43.2868-109.5517-2-37-						0-W06841	61540	-0.07	329	18390	120	243	5.2	50	-1.9	9	1.8	16990	6.4	15730	65	0.5
56-43.3161-109.5542-2-37-						0-W06842	60240	-0.07	307	17150	108	243	4.9	47	-1.7	9	1.6	14810	6.9	15110	69	0.5
56-43.3567-109.7494-2-37-						0-W06843	67710	-0.10	-174	22460	100	250	18.6	76	-2.8	7	2.2	54900	16.1	7377	64	0.4
56-43.3828-109.7508-2-37-						0-W06844	67320	-0.10	-178	16910	163	154	12.3	62	-2.7	5	2.1	35950	8.7	13760	101	0.4
56-43.4503-109.6114-2-37-						0-W06845	77470	-0.10	576	23410	95	-53	13.1	54	6.3	6	1.6	33680	7.2	42940	46	0.5
56-43.4683-109.5897-2-37-						0-W06846	44670	-0.13	658	63090	36	-93	8.1	33	-3.3	5	-0.5	21440	6.1	23930	-11	-0.2
56-43.4736-109.5819-2-37-						0-W06847	65780	-0.08	523	40600	67	91	10.7	34	3.4	5	1.2	26510	5.4	41270	41	0.3
56-43.4733-109.5767-2-37-						0-W06848	41930	-0.06	444	33960	62	-68	6.2	99	3.4	4	1.3	16930	7.1	15820	38	0.5
56-43.2964-109.6333-2-37-						C-W06849	68220	-0.06	313	7289	65	230	2.2	15	-1.4	5	1.1	9581	6.7	14760	48	0.3
56-43.2731-109.5775-2-37-						0-W06850	59210	-0.14	402	16980	138	257	12.8	44	-3.4	16	1.3	38890	8.0	14720	99	1.2
56-43.1953-109.6736-2-37-						0-W06851	62400	-0.06	305	23290	67	346	9.6	130	-1.7	3	1.2	20820	3.0	9925	42	0.2
56-43.2069-109.6153-2-37-						0-W06852	61530	-0.07	449	19060	194	210	4.8	63	-1.7	12	2.5	24770	30.8	16000	90	1.0
56-43.2306-109.5628-2-37-						0-W06853	57210	-0.09	300	21180	170	218	9.7	127	-2.4	15	2.5	41030	21.8	9405	97	1.2
56-43.2456-109.5731-2-37-						0-W06854	65690	-0.08	389	21250	109	241	7.4	105	-2.0	7	1.7	21760	13.1	14780	68	0.8
56-43.3256-109.5789-2-37-						0-W06855	60140	-0.09	432	18360	89	202	10.2	57	-2.2	17	2.1	32580	12.2	14230	65	1.3
56-43.3050-109.5053-2-37-						0-W06856	64670	-0.13	-207	24960	120	169	21.5	383	-3.4	5	1.8	46280	18.0	12490	39	0.6
56-43.3233-109.6410-2-37-						0-W06857	75000	-0.11	476	14570	191	300	17.9	65	3.1	9	2.3	44240	8.6	21410	124	0.7
56-43.3454-109.6036-2-37-						0-W06858	73000	-0.08	375	10310	107	205	5.2	36	-2.1	7	1.3	21950	5.2	20050	94	0.4
56-43.3006-109.5628-2-37-						C-W06859	68980	-0.08	361	13320	130	164	8.5	51	-2.0	8	2.0	30380	7.6	17160	113	0.7
56-43.3633-109.6464-2-37-						0-W06860	66000	-0.07	389	16560	126	267	10.4	65	2.7	11	2.0	28360	10.7	16990	77	0.7
56-43.3994-109.6256-2-37-						0-W06861	57560	-0.15	361	10340	189	294	10.1	61	4.7	10	2.1	28580	4.8	15980	162	0.6
56-43.4114-109.5872-2-37-						0-W06862	68880	-0.10	397	16270	170	173	10.0	61	4.3	24	2.5	37500	18.9	17590	144	1.7
56-43.4225-109.5778-2-37-						0-W06863	58210	-0.06	361	12740	66	-87	6.1	34	-1.5	7	1.3	17070	6.6	17040	44	0.5
56-43.4197-109.6611-2-37-						0-W06864	67870	-0.06	489	10530	105	154	4.9	27	-1.4	5	1.6	18190	7.4	20700	78	0.5
56-43.4611-109.6608-2-37-						0-W06865	67000	-0.07	515	6761	133	-94	5.5	33	-1.8	6	1.7	28360	10.5	21700	97	0.3
56-43.4119-109.5608-2-37-						0-W06866	83300	-0.10	805	14240	91	95	14.0	57	6.2	8	1.6	30710	8.4	56090	61	0.8
56-43.2311-109.6742-2-37-						0-W06867	73350	-0.07	288	13070	142	250	11.0	55	1.8	10	2.0	33430	10.5	11900	77	0.6
56-43.2550-109.6839-2-37-						0-W06868	72150	-0.08	424	17490	158	258	13.9	60	-2.0	9	1.9	38000	10.3	18320	71	0.4
56-43.2944-109.5458-2-37-						0-W06869	61640	-0.12	342	23540	91	211	21.9	133	-3.1	11	2.3	46800	10.8	9546	64	1.0
56-43.3372-109.6464-2-37-						0-W06870	78480	-0.11	529	14570	111	270	12.0	59	4.4	9	1.6	36220	8.3	16250	96	0.7
56-43.5003-109.7131-2-37-						0-W06871	65620	-0.09	388	15910	170	232	13.8	144	-2.4	12	2.3	38750	15.0	9006	107	0.9
56-43.3778-109.6672-2-37-						0-W06872	73750	-0.10	484	13100	204	251	13.4	106	4.2	12	2.5	40760	10.8	18250	118	0.8
56-43.4506-109.7111-2-37-						0-W06873	31010	-0.09	-109	8224	81	-73	13.4	66	-2.4	-1	1.6	41400	12.1	-2473	54	0.3
56-43.4678-109.7511-2-37-						0-W06874	63080	-0.12	541	23800	77	193	12.3	99	-3.2	7	1.6	26890	6.6	13130	59	0.3
56-43.6436-109.7031-2-37-						0-W06875	58480	-0.08	256	22670	93	224	21.9	448	-2.4	6	1.2	38720	10.3	9727	50	0.3
56-43.4850-109.8106-2-37-						0-W06876	68880	-0.09	753	17540	150	145	14.9	146	2.9	6	2.3	49850	12.9	9637	78	0.6
56-43.4864-109.8100-2-37-						0-W06877	69660	-0.10	512	23970	82	240	21.2	222	-2.7	4	1.8	47960	7.6	11880	43	0.3
56-43.4800-109.8217-2-37-						0-W06878	65300	-0.10	704	17940	71	200	10.0	55	-2.8	5	1.7	41400	13.7	7366	53	0.3
56-43.4980-109.8307-2-37-						0-W06879	65150	-0.07	430	24170	107	161	15.0	100	-2.1	5	1.8	36170	21.1	6909	67	0.4
56-43.4887-109.8378-2-37-						0-W06880	67040	-0.08	551	19440	93	234	17.5	203	-2.2	4	1.7	44230	10.1	9504	48	0.4
56-43.4525-109.7456-2-37-						0-W06881	63480	-0.11	-200	19160	120	203	27.1	336	-3.1	8	1.9	51580	8.1	-5167	75	0.5
56-43.4994-109.7625-2-37-						0-W06882	67220	-0.10	458	21640	147	268	23.1	215	2.7	6	1.9	58000	24.4	12920	96	0.4
56-43.5017-109.7500-2-37-						0-W06883	66570	-0.09	440	20540	112	244	16.9	211	-2.5	6	2.0	36670	17.2	11580	87	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.2758-109.6547-2-37-						0-W06833	6460	114	30160	-24	-1	4.3	11.2	-261	-1	-1	40.0	2192	29	4.7	-36	0.061
56-43.4681-109.6697-2-37-						0-W06834	24460	646	18790	-49	-3	14.5	23.6	-325	-2	3	106.0	7423	112	18.1	-72	0.054
56-43.2858-109.5844-2-37-						0-W06835	10150	423	23750	75	-2	9.4	7.0	-337	-1	-1	18.3	3357	64	4.3	145	1.652
56-43.3553-109.5217-2-37-						0-W06836	10650	377	2336	75	-2	8.1	10.8	-197	-1	1	26.8	3955	45	6.9	31	0.206
56-43.3728-109.4956-2-37-						0-W06837	16360	300	2772	150	-2	10.9	12.6	-196	-2	2	32.8	5194	47	9.2	-32	0.254
56-43.3308-109.5256-2-37-						0-W06838	10410	266	28120	-32	-2	8.4	10.0	-272	-1	2	40.1	4080	44	5.8	84	0.112
56-43.3314-109.4858-2-37-						0-W06839	10350	293	27790	-27	-2	10.1	11.5	-243	-1	2	44.8	4512	58	7.7	-31	0.157
56-43.3406-109.4594-2-37-						0-W06840	7491	178	26470	32	-1	6.0	8.9	-209	-1	1	20.6	2755	31	3.3	-26	0.111
56-43.2868-109.5517-2-37-						0-W06841	10000	233	28130	-20	-2	9.2	10.1	-226	-1	-1	31.8	3320	43	6.2	-30	0.109
56-43.3161-109.5542-2-37-						0-W06842	10350	231	27110	-28	-2	7.6	8.3	-259	-1	1	29.8	3605	41	5.3	-43	0.100
56-43.3547-109.7494-2-37-						0-W06843	28610	886	20260	53	-3	19.9	8.2	-364	-2	-1	16.7	8385	116	4.0	130	0.304
56-43.3828-109.7508-2-37-						0-W06844	25700	437	16230	-44	-3	10.0	14.5	-344	-2	-2	38.6	3610	88	5.0	-45	0.304
56-43.4503-109.6114-2-37-						0-W06845	22380	579	2021	101	-3	11.7	6.4	-278	-2	-2	15.7	3857	64	3.9	-65	0.212
56-43.4683-109.5897-2-37-						0-W06846	27000	547	1948	-62	-3	4.9	2.7	-446	-2	-2	14.0	3524	45	-3.0	-93	0.192
56-43.4736-109.5816-2-37-						0-W06847	20650	579	1477	131	-2	8.6	4.8	-268	-1	-1	12.0	3100	50	3.1	-92	0.241
56-43.4733-109.5767-2-37-						0-W06848	24230	843	4252	-26	-2	6.8	5.0	-310	-1	-1	10.5	2890	56	3.9	138	0.334
56-43.2964-109.6233-2-37-						0-W06849	10960	87	30480	-25	-1	4.0	6.0	-243	-1	-1	27.9	1653	24	2.3	-43	0.237
56-43.2731-109.5775-2-37-						0-W06850	16960	1001	15390	-62	-3	9.3	15.7	-535	-3	-2	34.4	3390	95	7.7	105	1.981
56-43.1853-109.6236-2-37-						0-W06851	23760	339	23820	-24	-2	9.4	4.8	-248	-1	-1	15.2	2185	54	2.5	-35	0.214
56-43.2069-109.6153-2-37-						0-W06852	9251	304	25520	-27	-2	8.0	15.8	-255	-1	2	48.2	5265	63	7.9	-33	0.132
56-43.2306-109.5926-2-37-						0-W06853	14030	537	25090	-42	-2	12.7	16.3	-288	3	3	38.5	9923	107	9.4	65	0.217
56-43.2456-109.5721-2-37-						0-W06854	21840	305	27040	51	-2	9.1	7.1	-278	-2	-1	27.0	3135	56	4.1	100	0.197
56-43.3256-109.5789-2-37-						0-W06855	23450	632	16700	-34	-2	11.3	11.4	-317	-2	2	23.9	4907	79	10.9	146	0.716
56-43.3050-109.5053-2-37-						0-W06856	29060	737	12530	-52	-3	19.4	7.9	-414	-2	-2	19.4	5178	117	4.3	-116	0.153
56-43.3233-109.6419-2-37-						0-W06857	29320	565	20710	140	-3	12.4	16.2	-308	-2	-2	49.6	3849	88	7.7	-66	0.790
56-43.3456-109.6036-2-37-						0-W06858	14560	285	26890	50	-2	6.1	9.1	-311	-2	-1	36.5	2709	51	3.9	-64	1.097
56-43.3906-109.5928-2-37-						0-W06859	20940	399	17890	61	-2	8.7	13.7	-266	-2	-1	33.2	3564	80	7.0	-64	2.620
56-43.3633-109.6464-2-37-						0-W06860	21340	339	18020	63	-2	10.2	15.2	-251	-1	2	31.9	4298	84	5.5	96	0.403
56-43.3994-109.6356-2-37-						0-W06861	27110	588	11300	-72	-4	8.7	25.2	-410	-4	-2	39.7	2235	71	4.7	-105	2.384
56-43.4114-109.5872-2-37-						0-W06862	23010	575	14760	85	-3	11.8	19.7	-328	-2	4	53.4	8282	98	13.6	-57	0.953
56-43.4228-109.5778-2-37-						0-W06863	10710	253	20130	64	-1	7.3	5.0	-221	-1	-1	19.7	3051	44	5.5	-32	0.352
56-43.4197-109.6611-2-37-						0-W06864	13920	243	24240	-23	-1	5.4	13.1	-231	-1	-1	40.6	2949	40	2.4	-32	0.495
56-43.4611-109.6608-2-37-						0-W06865	12960	227	26500	53	-2	5.4	14.6	-227	-2	-1	54.0	2881	50	2.6	-27	0.313
56-43.4115-109.5908-2-37-						0-W06866	16340	482	1919	141	-3	11.0	8.3	-275	-1	-1	18.2	4329	60	5.7	-59	0.847
56-43.2911-109.6742-2-37-						0-W06867	20820	308	24970	81	-2	11.7	10.7	-240	2	-1	41.7	5009	62	6.4	122	0.091
56-43.2550-109.6839-2-37-						0-W06868	27390	467	21220	-31	-2	13.9	13.7	-268	-1	-1	48.6	5456	90	6.1	-40	0.083
56-43.2844-109.5458-2-37-						0-W06869	29760	1027	17380	-50	-3	17.8	11.7	-370	-2	-2	17.2	6248	134	9.4	188	0.465
56-43.3372-109.6464-2-37-						0-W06870	23600	704	18360	61	-3	11.1	11.2	-403	-2	-2	28.4	4469	92	4.9	-86	1.143
56-43.5003-109.7131-2-37-						0-W06871	21090	555	16140	-38	-2	12.0	14.9	-318	-2	2	47.4	5470	105	8.2	141	0.190
56-43.3778-109.6672-2-37-						0-W06872	34300	440	14870	86	-2	12.8	20.9	-307	-2	-1	44.4	6216	100	7.8	-126	0.292
56-43.4506-109.7111-2-37-						0-W06873	9061	232	13730	-38	-2	13.1	5.7	-194	-2	-2	15.9	2010	42	2.5	-109	0.199
56-43.4678-109.7511-2-37-						0-W06874	23670	471	14760	-53	-3	10.6	5.1	-422	-2	-1	14.4	3830	82	3.9	-75	0.451
56-43.6436-109.7921-2-37-						0-W06875	55090	884	15000	-38	-2	14.1	6.6	-256	-1	-1	21.6	3927	84	2.8	73	0.144
56-43.4850-109.8106-2-37-						0-W06876	20590	740	12640	-39	-2	13.9	12.0	-330	-2	-2	32.7	4970	95	5.6	-89	0.120
56-43.4864-109.8100-2-37-						0-W06877	32220	776	20790	-43	-2	16.6	6.2	-323	-1	-2	16.4	4459	96	3.6	-66	0.159
56-43.4800-109.8217-2-37-						0-W06878	18310	685	14560	-47	-3	10.5	6.7	-386	-2	-2	19.4	4684	71	3.0	96	0.147
56-43.4888-109.8397-2-37-						0-W06879	17790	757	20470	-32	-2	12.0	7.5	-322	-1	-1	27.4	6455	69	4.7	-43	0.115
56-43.4897-109.8378-2-37-						0-W06880	26540	660	17120	72	-2	13.2	8.1	-320	-2	-1	20.3	5053	95	4.4		0.170
56-43.4525-109.7456-2-37-						0-W06881	39030	1197	16300	-53	-3	14.8	12.6	-419	-2	-2	23.8	3774	94	5.1	-53	0.809
56-43.4994-109.7625-2-37-						0-W06882	29910	828	14480	-50	-3	16.5	9.0	-369	-2	-2	49.7	4935	126	5.8	-131	0.098
56-43.5017-109.7500-2-37-						0-W06883	25750	696	12120	-38	-2	14.6	9.3	-324	-2	-1	36.9	4942	96	5.1	106	0.153

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	43.3986	109.7494	2	37	-	0-W06884	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.61
56	43.3975	109.7511	2	37	-	0-W06885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.48
56	43.4803	109.8683	2	37	-	0-W06886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.45
56	43.4789	109.8675	2	37	-	0-W06887	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.01
56	43.5044	109.7361	2	37	-	0-W06888	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.19
56	43.5197	109.7069	2	37	-	0-W06889	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.57
56	43.5142	109.7125	2	37	-	0-W06890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.33
56	43.5161	109.7639	2	37	-	0-W06891	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.26
56	43.2547	109.5172	2	37	-	0-W06892	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
56	43.5069	109.6564	2	37	-	0-W06893	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.86
56	43.3033	109.6731	2	37	-	0-W06894	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.79
56	43.4839	109.6389	2	37	-	0-W06895	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.71
56	43.5117	109.8114	2	37	-	0-W06896	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
56	43.5194	109.6714	2	37	-	0-W06897	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.18
56	43.1911	109.5694	2	37	-	0-W06898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.52
56	43.2100	109.5289	2	37	-	0-W06899	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.55
56	43.1350	109.5182	2	37	-	0-W06900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.63
56	43.1439	109.4958	2	37	-	0-W06901	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.65
56	43.2828	109.5550	2	37	-	0-W06902	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.31
56	43.1903	109.5250	2	37	-	0-W06903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.48
56	43.3167	109.4994	2	37	-	0-W06904	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.31
56	43.1989	109.5125	2	37	-	0-W06905	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.59
56	43.5544	109.5547	2	37	-	0-W06906	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.74
56	43.2358	109.5186	2	37	-	0-W06907	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.84
56	43.2383	109.5028	2	37	-	0-W06908	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.44
56	43.4880	109.6208	2	37	-	0-W06909	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.92
56	43.1278	109.5592	2	37	-	0-W06910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.38
56	43.1386	109.5575	2	37	-	0-W06911	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.59
56	43.1403	109.5589	2	37	-	0-W06912	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
56	43.1528	109.5336	2	37	-	0-W06913	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.88
56	43.1522	109.5750	2	37	-	0-W06914	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.69
56	43.0894	109.4931	2	37	-	0-W06915	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.03
56	43.1033	109.5597	2	37	-	0-W06916	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.30
56	43.0756	109.5019	2	37	-	0-W06917	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.91
56	43.0694	109.4767	2	37	-	0-W06918	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.72
56	43.1783	109.5633	2	37	-	0-W06919	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.50
56	43.0619	109.4522	2	37	-	0-W06920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.67
56	43.0611	109.5106	2	37	-	0-W06921	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.20
56	43.0778	109.5189	2	37	-	0-W06922	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.04
56	43.1506	109.4839	2	37	-	0-W06923	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.27
56	43.1006	109.5336	2	37	-	0-W06924	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.92
56	43.0878	109.5075	2	37	-	0-W06925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.49
56	43.1225	109.4828	2	37	-	0-W06926	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.13
56	43.0172	109.4611	2	37	-	0-W06927	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.64
56	43.0408	109.5186	2	37	-	0-W06928	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.83
56	43.0408	109.5186	2	37	-	0-W06929	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.56
56	43.5372	109.5169	2	37	-	0-W06930	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.21
56	43.2144	109.5056	2	37	-	0-W06931	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.97
56	43.2458	109.4750	2	37	-	0-W06932	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.29
56	43.1986	109.4594	2	37	-	0-W06933	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.81
56	43.1744	109.4658	2	37	-	0-W06934	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.52

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.3986-109.7494-2-37-					0	-W06884	-5	10	-5	28	-20	25	12	-10	-15	2	38
56-43.3975-109.7511-2-37-					0	-W06885	-5	-5	-5	22	-20	33	16	-10	-15	3	44
56-43.4803-109.8683-2-37-					0	-W06886	-5	15	-5	21	-20	54	9	-10	-15	2	33
56-43.4789-109.8675-2-37-					0	-W06887	-5	10	-5	37	-20	36	20	-10	-15	2	35
56-43.5044-109.7361-2-37-					0	-W06888	-5	5	-5	31	-20	53	23	-10	-15	2	49
56-43.5197-109.7069-2-37-					0	-W06889	-5	7	-5	22	-20	23	16	-10	-15	2	41
56-43.5142-109.7125-2-37-					0	-W06890	-5	8	-5	29	-20	42	20	-10	-15	2	45
56-43.5161-109.7639-2-37-					0	-W06891	-5	-5	-5	26	-20	42	9	-10	-15	2	37
56-43.2547-109.5172-2-37-					0	-W06892	-5	-5	-5	51	-20	60	22	-10	-15	2	40
56-43.5069-109.6564-2-37-					0	-W06893	-5	6	-5	21	-20	28	16	-10	-15	2	34
56-43.3033-109.6731-2-37-					0	-W06894	-5	13	-5	24	-20	57	10	-10	16	2	40
56-43.4839-109.6389-2-37-					0	-W06895	-5	8	-5	25	-20	33	11	-10	-15	2	36
56-43.5117-109.8114-2-37-					0	-W06896	-5	-5	-5	23	-20	27	-5	-10	-15	2	40
56-43.5194-109.6714-2-37-					0	-W06897	-5	16	-5	13	-20	27	8	-10	-15	2	29
56-43.1911-109.5694-2-37-					0	-W06898	-5	-5	-5	39	-20	172	14	-10	-15	2	40
56-43.2100-109.5289-2-37-					0	-W06899	-5	-5	-5	33	-20	111	25	-10	-15	2	42
56-43.1350-109.5183-2-37-					0	-W06900	-5	-5	-5	46	-20	100	14	-10	17	2	41
56-43.1439-109.4958-2-37-					0	-W06901	-5	-5	-5	46	-20	154	23	-10	-15	1	46
56-43.2828-109.5550-2-37-					0	-W06902	-5	10	-5	18	-20	-15	12	-10	-15	2	9
56-43.1903-109.5250-2-37-					0	-W06903	-5	-5	-5	40	-20	144	31	-10	-15	2	48
56-43.3167-109.4904-2-37-					0	-W06904	-5	-5	-5	36	-20	136	15	-10	-15	3	33
56-43.1980-109.5125-2-37-					0	-W06905	-5	-5	-5	45	-20	118	18	-10	-15	3	40
56-43.5544-109.5547-2-37-					0	-W06906	-5	-5	-5	46	-20	130	10	-10	-15	3	49
56-43.2358-109.5186-2-37-					0	-W06907										3	29
56-43.2383-109.5028-2-37-					0	-W06908	-5	-5	-5	35	-20	81	14	-10	-15	3	45
56-43.4889-109.6208-2-37-					0	-W06909	-5	11	-5	17	-20	33	15	-10	20	3	28
56-43.1778-109.5592-2-37-					0	-W06910										3	69
56-43.1386-109.5575-2-37-					0	-W06911	-5	-5	-5	51	-20	67	33	-10	-15	3	55
56-43.1403-109.5589-2-37-					0	-W06912	-5	-5	-5	21	-20	20	16	-10	-15	4	26
56-43.1528-109.5239-2-37-					0	-W06913	-5	5	-5	21	-20	97	15	-10	-15	2	9
56-43.1522-109.5750-2-37-					0	-W06914	-5	-5	-5	22	-20	62	11	-10	-15	3	13
56-43.0894-109.4931-2-37-					0	-W06915	-5	-5	-5	43	-20	125	25	-10	-15	3	47
56-43.1033-109.5597-2-37-					0	-W06916	-5	10	-5	29	-20	48	25	-10	-15	4	45
56-43.0756-109.5019-2-37-					0	-W06917	-5	-5	-5	29	-20	33	41	-10	-15	3	64
56-43.0694-109.4767-2-37-					0	-W06918	-5	-5	-5	14	-20	16	14	-10	-15	3	34
56-43.1783-109.5633-2-37-					0	-W06919										3	30
56-43.0619-109.4522-2-37-					0	-W06920	-5	-5	-5	28	-20	20	26	-10	-15	3	53
56-43.0611-109.5106-2-37-					0	-W06921	-5	6	-5	33	-20	25	13	-10	-15	3	11
56-43.0778-109.5189-2-37-					0	-W06922	-5	14	-5	36	-20	53	60	-10	-15	4	43
56-43.1506-109.4839-2-37-					0	-W06923	-5	-5	-5	90	-20	175	28	-10	-15	2	57
56-43.1006-109.5336-2-37-					0	-W06924	-5	8	-5	67	-20	114	61	-10	-15	3	48
56-43.0878-109.5075-2-37-					0	-W06925	-5	-5	-5	22	-20	28	17	-10	-15	3	22
56-43.1225-109.4828-2-37-					0	-W06926	-5	-5	-5	33	-20	63	16	-10	-15	2	46
56-43.0172-109.4611-2-37-					0	-W06927	-5	6	-5	25	-20	23	31	-10	-15	3	38
56-43.0408-109.5186-2-37-					0	-W06928											
56-43.0408-109.5186-2-37-					0	-W06929											
56-43.5372-109.5169-2-37-					0	-W06930	-5	-5	-5	19	-20	23	14	-10	-15	3	29
56-43.2144-109.5056-2-37-					0	-W06931	-5	-5	-5	43	-20	137	13	-10	-15	3	32
56-43.2458-109.4750-2-37-					0	-W06932	-5	-5	-5	16	-20	67	7	-10	-15	2	14
56-43.1986-109.4594-2-37-					0	-W06933	-5	-5	-5	34	-20	41	14	-10	-15	3	37
56-43.1744-109.4658-2-37-					0	-W06934	-5	-5	-5	46	-20	91	20	-10	-15	2	40

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.3986-109.7494-2-37-						0-W06884	68370	-0.08	-148	18150	143	220	16.5	70	-2.2	5	1.5	42540	13.1	12040	71	0.7
56-43.3975-109.7511-2-37-						0-W06885	61260	-0.08	639	10260	111	136	12.6	79	4.4	8	1.9	33640	14.7	28080	63	0.7
56-43.4803-109.8683-2-37-						0-W06886	67420	-0.09	465	25550	166	226	13.4	161	-2.6	8	2.5	34250	35.8	8348	108	0.6
56-43.4789-109.8675-2-37-						0-W06887	60940	-0.09	698	19330	129	-114	13.8	66	2.1	7	2.2	31830	16.4	13910	84	0.5
56-43.5044-109.7361-2-37-						0-W06888	67260	-0.08	605	17450	144	177	14.2	165	4.5	8	2.0	38990	18.4	14250	82	0.7
56-43.5107-109.7069-2-37-						0-W06889	68090	-0.09	747	6590	180	79	10.2	103	3.7	9	1.7	26020	32.3	29140	114	0.8
56-43.5142-109.7125-2-37-						0-W06890	74760	-0.09	749	14930	85	-83	13.6	105	2.9	7	1.7	31380	10.9	24020	64	0.4
56-43.5161-109.7639-2-37-						0-W06891	62180	-0.07	461	13170	58	162	12.3	81	3.0	4	1.4	37340	9.3	14740	45	0.3
56-43.2547-109.5172-2-37-						0-W06892	69600	-0.09	417	26670	92	200	21.6	161	2.9	7	2.0	55720	9.6	9184	39	0.5
56-43.5069-109.6564-2-37-						0-W06893	52470	-0.07	638	34960	84	-46	9.0	58	4.4	7	1.6	23770	10.8	31650	42	0.6
56-43.3023-109.6731-2-37-						0-W06894	72670	-0.09	339	15590	104	144	13.3	129	-2.5	8	1.3	39660	9.4	14400	69	0.5
56-43.4839-109.6389-2-37-						0-W06895	68800	-0.07	401	13250	76	-100	12.1	82	-1.8	5	1.2	29950	5.9	21360	46	0.4
56-43.5117-109.8114-2-37-						0-W06896	64230	-0.08	382	22830	135	189	20.2	88	-2.4	5	1.7	67810	22.5	6779	67	0.5
56-43.5194-109.6714-2-37-						0-W06897	54950	-0.08	840	12390	198	-61	8.5	78	-2.2	8	1.8	24600	28.4	20770	122	0.6
56-43.1911-109.5694-2-37-						0-W06898	64600	-0.10	294	34540	49	351	22.9	348	-2.8	5	1.3	44030	4.1	9274	35	0.3
56-43.2100-109.5289-2-37-						0-W06899	62020	-0.10	320	18350	57	161	16.6	208	-2.6	4	1.0	34140	5.9	6611	49	0.4
56-43.1350-109.5183-2-37-						0-W06900	57190	-0.08	216	29390	87	300	22.3	458	-2.3	4	1.6	45700	10.8	8456	38	0.5
56-43.1430-109.4958-2-37-						0-W06901	66550	-0.11	422	24160	58	270	27.4	419	-3.0	4	1.1	46840	6.4	9358	44	0.6
56-43.2829-109.5550-2-37-						0-W06902	62750	-0.06	307	15910	128	230	2.9	21	-1.7	11	1.6	15270	9.2	13910	73	0.6
56-43.1903-109.5250-2-37-						0-W06903	67490	-0.08	351	21770	58	-102	23.0	420	-2.4	5	1.3	40570	6.5	9630	44	0.3
56-43.3167-109.4994-2-37-						0-W06904	66910	-0.08	284	18130	77	166	23.2	625	-2.3	4	1.4	39590	5.7	9542	39	0.4
56-43.1989-109.5125-2-37-						0-W06905	73100	-0.12	563	17620	110	-106	26.2	678	-3.1	7	1.3	50430	7.6	11660	60	0.6
56-43.5544-109.5547-2-37-						0-W06906	73380	-0.10	322	21170	55	-116	21.3	249	-2.9	5	1.3	46230	4.0	12400	46	0.4
56-43.2258-109.5186-2-37-						0-W06907	61640	-0.11	-231	14760	71	-98	24.3	152	5.6	7	1.6	33100	3.7	8992	67	0.4
56-43.2383-109.5028-2-37-						0-W06908	64260	-0.09	231	26180	57	178	18.8	213	-2.3	5	1.3	37820	7.1	8336	37	0.4
56-43.4889-109.6208-2-37-						0-W06909	58170	-0.09	430	13400	161	-90	11.3	116	-2.4	10	1.8	39300	18.7	17260	96	0.9
56-43.1278-109.5592-2-37-						0-W06910	80370	-0.14	459	18060	146	385	17.9	213	4.6	6	1.5	43680	5.6	15430	105	0.3
56-43.1386-109.5575-2-37-						0-W06911	68810	-0.09	253	18290	101	300	18.1	200	-2.4	5	1.5	40880	7.9	12890	71	0.3
56-43.1403-109.5589-2-37-						0-W06912	64080	-0.05	388	20650	69	170	6.5	35	-1.3	4	1.5	20700	6.3	12840	28	0.4
56-43.1528-109.5339-2-37-						0-W06913	63220	-0.06	415	20100	69	203	11.7	196	-1.7	3	1.3	21760	4.9	13570	35	0.5
56-43.1522-109.5750-2-37-						0-W06914	65220	-0.06	405	21570	60	174	10.7	230	-1.7	3	1.1	19070	4.8	12690	39	0.2
56-43.0894-109.4931-2-37-						0-W06915	63700	-0.10	-186	27070	50	237	26.9	374	-2.8	4	1.2	45320	13.2	7584	50	0.4
56-43.1033-109.5597-2-37-						0-W06916	65360	-0.07	468	26980	161	235	13.6	108	1.8	6	2.3	34390	5.2	10620	82	0.5
56-43.0756-109.5019-2-37-						0-W06917	73930	-0.10	384	27310	85	261	14.0	61	3.6	4	1.9	43270	7.5	10510	68	0.3
56-43.0694-109.4767-2-37-						0-W06918	77180	-0.13	-219	38710	41	353	14.8	66	-3.5	14	1.4	55160	16.3	7693	34	1.0
56-43.1783-109.5633-2-37-						0-W06919	63680	-0.09	200	26100	84	290	30.9	506	2.7	5	1.5	49450	5.0	7568	62	0.4
56-43.0615-109.4522-2-37-						0-W06920	67930	-0.08	425	25900	84	220	11.5	58	-2.4	5	2.0	34100	7.4	10060	57	0.3
56-43.0611-109.5106-2-37-						0-W06921	78180	-0.06	629	14580	29	-111	3.7	23	-1.5	2	1.1	11780	2.7	19090	20	-0.1
56-43.0778-109.5189-2-37-						0-W06922	74390	-0.11	418	30230	115	340	22.4	107	-3.0	6	2.0	47210	5.7	9913	100	0.3
56-43.1506-109.4839-2-37-						0-W06923	66430	-0.08	265	21580	52	265	39.6	430	3.2	4	1.0	56620	4.3	10150	40	0.4
56-43.1006-109.5339-2-37-						0-W06924	62860	-0.08	-164	25920	128	280	25.6	432	4.3	6	1.8	47550	8.1	14800	73	0.6
56-43.0878-109.5075-2-37-						0-W06925	73030	-0.08	475	24910	103	209	9.5	49	-2.4	5	2.0	26920	10.1	9963	68	0.4
56-43.1225-109.4828-2-37-						0-W06926	77600	-0.11	323	29260	61	247	20.1	158	-3.1	4	1.5	43530	5.5	11030	50	0.2
56-43.0172-109.4611-2-37-						0-W06927	73620	-0.07	431	26520	53	260	9.9	39	-2.1	4	1.3	26380	6.2	11230	32	0.4
56-43.0408-109.5186-2-37-						0-W06928	69610	-0.11	-258	25100	107	348	12.9	140	-3.2	6	2.0	30540	6.3	13020	48	0.7
56-43.0408-109.5186-2-37-						0-W06929	74360	-0.19	432	34820	51	379	6.1	110	-5.6	10	2.2	29720	11.1	8620	-13	-0.4
56-43.5372-109.5169-2-37-						0-W06930	74620	-0.07	332	16410	39	188	6.3	37	-1.9	4	1.1	19380	6.2	12750	32	0.2
56-43.2144-109.5056-2-37-						0-W06931	71300	-0.07	208	17520	49	-98	24.1	446	-2.1	3	1.3	38600	3.2	10910	34	0.3
56-43.2458-109.4750-2-37-						0-W06932	65830	-0.07	319	26720	100	154	14.0	231	-2.2	6	1.5	35700	18.3	9643	45	0.6
56-43.1986-109.4594-2-37-						0-W06933	72300	-0.09	265	18570	48	158	12.2	144	-2.6	4	1.6	32270	7.0	6782	27	0.3
56-43.1744-109.4658-2-37-						0-W06934	70400	-0.10	309	25620	48	247	22.7	233	3.1	4	1.1	51740	7.1	11820	30	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.3986-109.7404-2-37-						0-W06884	26350	551	22530	-34	-2	13.3	11.2	-301	-2	-1	27.5	5003	99	4.3	-33	0.277
56-43.3975-109.7511-2-37-						0-W06885	23510	371	10480	90	-2	11.0	10.1	-225	-2	-1	20.6	3934	71	4.9	92	0.263
56-43.4803-109.8683-2-37-						0-W06886	27310	646	19780	-41	-2	14.3	9.8	-346	-2	-2	55.0	6701	93	5.3	120	0.099
56-43.4789-109.8675-2-37-						0-W06887	13460	1170	13750	-37	-2	10.6	10.1	-415	-2	-1	33.3	3997	71	3.6	85	0.120
56-43.5044-109.7361-2-37-						0-W06888	22370	727	11190	64	-2	14.3	12.6	-314	-2	-1	36.1	5110	103	7.0	98	0.136
56-43.5197-109.7069-2-37-						0-W06889	15420	338	4768	-38	-2	8.9	10.6	-213	-2	-1	60.3	3427	55	8.1	68	0.109
56-43.5142-109.7125-2-37-						0-W06890	10050	548	7088	86	-2	10.6	6.5	-218	-2	-2	25.9	3976	70	3.8	-66	0.167
56-43.5161-109.7639-2-37-						0-W06891	16980	569	12250	-33	-2	11.4	4.7	-269	-1	-1	13.4	3378	73	2.1	-44	0.243
56-43.2547-109.5172-2-37-						0-W06892	23400	958	15530	48	-2	16.7	7.6	-349	-1	-1	14.0	4329	137	5.9	-52	0.226
56-43.5060-109.8564-2-37-						0-W06893	13180	477	1964	102	-2	8.3	6.0	-215	-1	-1	14.9	3841	38	5.1	-43	0.259
56-43.3033-109.6731-2-37-						0-W06894	30440	536	24640	-42	-2	11.9	6.0	-358	-2	-2	35.8	4494	107	4.6	-54	0.162
56-43.4839-109.6389-2-37-						0-W06895	30850	380	21480	-31	-2	8.7	5.0	-267	-1	-1	25.3	3408	71	3.1	-42	0.226
56-43.5117-109.8114-2-37-						0-W06896	18400	995	18530	-41	-2	13.1	8.3	-373	-2	-1	32.5	8964	147	5.7	-77	0.097
56-43.5194-109.6714-2-37-						0-W06897	14760	318	6574	-38	-2	7.7	12.1	-212	-2	-1	69.2	3624	51	7.8	-52	0.075
56-43.1911-109.5694-2-37-						0-W06898	45680	910	18940	-46	-3	17.2	3.4	-410	-2	-2	10.2	3391	112	2.3	63	0.541
56-43.2100-109.5289-2-37-						0-W06899	26150	480	14350	-42	-2	11.3	6.4	-331	-2	-1	9.3	3255	85	-2.1	-38	1.887
56-43.1350-109.5183-2-37-						0-W06900	52200	965	15480	-35	-2	20.6	8.5	-337	-1	-1	12.5	4521	104	4.4	-20	0.616
56-43.1439-109.4958-2-37-						0-W06901	52000	723	15050	-49	-3	16.0	5.7	-330	-2	-2	13.0	4156	109	-2.2	-74	0.742
56-43.2828-109.5550-2-37-						0-W06902	6422	175	28980	-27	-2	7.7	10.0	-252	-1	2	36.8	3964	45	4.3	-38	0.090
56-43.1903-109.5250-2-37-						0-W06903	43040	650	16980	-37	-2	15.1	4.4	-322	-2	-1	11.8	3993	106	3.7	110	0.634
56-43.3167-109.4994-2-37-						0-W06904	44140	591	17860	-35	-2	14.3	6.4	-304	-1	-1	14.9	3775	93	3.3	170	0.222
56-43.1989-109.5125-2-37-						0-W06905	41160	935	17320	-49	-3	21.6	8.0	-356	-2	-2	27.5	4355	106	4.2	218	0.240
56-43.5544-109.5547-2-37-						0-W06906	47650	611	18710	-43	-3	14.9	6.0	-374	-2	-1	9.8	4635	126	3.1	161	1.300
56-43.2358-109.5186-2-37-						0-W06907	28830	705	6968	-55	-3	10.1	8.6	-430	-2	-2	9.7	3504	88	-3.0	152	1.427
56-43.2383-109.5028-2-37-						0-W06908	33060	730	18350	-37	-2	14.4	7.7	-348	-1	-1	9.3	4158	106	2.6	-99	0.692
56-43.4889-109.6208-2-37-						0-W06909	21700	446	17190	-40	-2	9.7	12.0	-265	-2	-2	65.8	4984	90	7.8	-50	0.120
56-43.1278-109.5592-2-37-						0-W06910	38100	861	16820	87	-3	12.7	7.4	-506	-2	-2	22.5	5034	117	-2.9	262	0.817
56-43.1386-109.5575-2-37-						0-W06911	26380	660	15660	-37	-2	13.2	7.8	-320	-1	-1	17.4	4395	102	2.7	-100	0.781
56-43.1402-109.5589-2-37-						0-W06912	13520	333	25250	59	-1	6.7	6.5	-240	-1	-1	20.6	3169	41	3.7	58	0.170
56-43.1528-109.5339-2-37-						0-W06913	28730	320	24120	-28	-2	8.4	5.1	-227	-1	-1	18.4	1912	41	2.6	50	0.157
56-43.1522-109.5750-2-37-						0-W06914	29680	319	23810	45	-2	8.0	3.7	-267	-1	-1	14.5	2163	38	2.9	-42	0.186
56-43.0894-109.4931-2-37-						0-W06915	55400	1022	13550	-42	-3	17.2	6.0	-391	-1	-2	11.2	4801	133	3.4	228	1.253
56-43.1033-109.5597-2-37-						0-W06916	21200	559	22720	52	-2	13.7	14.5	464	-1	-1	26.1	5534	78	4.6		0.433
56-43.0756-109.5019-2-37-						0-W06917	26680	630	21930	95	-3	14.6	6.2	-319	-2	-2	15.5	5112	85	4.7	106	0.833
56-43.0694-109.4767-2-37-						0-W06918	23200	988	23050	-50	-3	29.5	8.2	-430	-1	-2	10.5	6091	125	7.9	-63	0.545
56-43.1783-109.5633-2-37-						0-W06919	67480	847	14800	-39	-2	17.3	7.3	-333	-1	-1	13.0	4013	113	3.3	148	1.038
56-43.0619-109.4522-2-37-						0-W06920	24400	523	21040	-33	-2	13.6	12.3	-325	-2	-1	17.0	4290	77	3.7	160	0.922
56-43.0611-109.5106-2-37-						0-W06921	6522	200	34660	-24	-1	3.3	2.2	-250	-1	-1	7.7	1326	21	-1.3	39	0.286
56-43.0778-109.5189-2-37-						0-W06922	44200	991	20000	-47	-3	15.4	10.7	-450	-2	-2	24.7	5681	116	3.9	202	0.892
56-43.1506-109.4839-2-37-						0-W06923	53350	755	14820	-39	-2	19.7	5.5	-307	-1	-1	11.7	4600	137	3.6	256	0.878
56-43.1006-109.5339-2-37-						0-W06924	56310	896	14430	67	-2	17.2	13.3	-342	-2	-1	24.9	4561	110	6.0	-19	0.720
56-43.0878-109.5075-2-37-						0-W06925	21290	371	24190	-36	-2	13.1	9.8	-262	-1	-1	15.0	4574	71	2.7	81	0.499
56-43.1225-109.4828-2-37-						0-W06926	42740	626	17260	-52	-3	14.9	4.3	-399	-2	-1	6.7	5053	129	-2.5	94	1.661
56-43.0172-109.4611-2-37-						0-W06927	14020	747	24140	-32	-2	10.5	6.0	-355	-1	-1	9.4	2579	54	2.6	-55	1.164
56-43.0408-109.5186-2-37-						0-W06928	31950	850	22620	-50	-3	13.8	10.9	-502	-2	-2	17.4	3995	68	-2.3	160	0.278
56-43.0408-109.5186-2-37-						0-W06929	42440	700	24300	-90	-5	14.7	6.7	-624	-5	-2	18.6	4061	89		-113	0.245
56-43.5272-109.5169-2-37-						0-W06930	15820	291	30540	-31	-2	7.1	4.0	-312	-1	-1	9.1	2839	41	-1.8	-47	0.463
56-43.2144-109.5056-2-37-						0-W06931	36610	523	18400	37	-2	13.2	3.6	-278	-1	-1	11.3	3124	84	2.6	115	0.351
56-43.2458-109.4750-2-37-						0-W06932	24030	471	20670	-31	-2	17.7	7.8	-305	-1	-1	19.7	5773	98	4.4	85	0.116
56-43.1986-109.4594-2-37-						0-W06933	24470	461	25640	-43	-2	11.9	5.3	-305	-2	-1	9.2	3680	64	-2.0	-122	0.197
56-43.1744-109.4658-2-37-						0-W06934	41720	701	16170	-47	-3	17.3	4.6	-263	-1	-2	13.7	4396	136	3.6	106	0.184

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.0869-109.4867-2-37-						0-W06935-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.01
56-43.4997-109.5235-2-37-						0-W06936-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.40
56-43.0272-109.4992-2-37-						0-W06937-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.88
56-43.0183-109.4983-2-37-						0-W06938-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.15
56-43.1489-109.6186-2-37-						0-W06939-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.18
56-43.0389-109.4786-2-37-						0-W06940-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.37
56-43.4322-109.6989-2-37-						0-W06941-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.56
56-43.0208-108.4497-2-15-						0-W06942-	09/24/79-	14-	25-	-0-	-	-	-	-	10-1-7-4-7-	-1-	-1-4-3-1-1-	-7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.32
56-43.0214-108.4614-2-15-						0-W06943-	09/24/79-	14-	25-	-	-	-	-	-	12-1-8-4-6-	-1-	-2-2-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.50
56-43.0472-108.4881-2-15-						0-W06944-	09/24/79-	15-	27-	-	-	-	-	-	18-1-7-4-6-	-1-	-2-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.38
56-43.0503-108.4275-2-15-						0-W06945-	09/24/79-	15-	25-	-	-	-	-	-	10-1-7-4-6-	-1-	-2-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.26
56-43.0742-108.4061-2-15-						0-W06946-	09/24/79-	4-	23-	-	-	-	-	-	6-1-7-4-7-	-1-	-2-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.16
56-43.0714-108.4089-2-15-						0-W06947-	09/24/79-	4-	22-	-0-	-	-	-	-	4-1-7-4-7-	-1-	-2-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.34
56-43.0961-108.4072-2-15-						0-W06948-	09/24/79-	5-	22-	-	-	-	-	-	-1-6-4-6-	-1-	-2-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.98
56-43.0953-108.4083-2-15-						0-W06949-	09/24/79-	5-	22-	-	-	-	-	-	12-1-6-4-6-	-1-	-2-4-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.21
56-43.1044-108.4200-2-15-						0-W06950-	09/24/79-	6-	19-	-	-	-	-	-	10-1-7-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.72
56-43.1050-108.4183-2-15-						0-W06951-	09/24/79-	6-	19-	-	-	-	-	-	10-1-7-4-6-	-1-	-2-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.86
56-43.1403-108.4275-2-12-						0-W06952-	09/26/79-	9-	18-	12.6-0-	-	-	7.3-	380-	14-1-7-5-6-3-3-4-3-2-3-1-1-			-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.71
56-43.1389-108.4256-2-12-						0-W06953-	09/26/79-	10-	18-	13.8-	-	-	7.1-	443-	8-1-7-5-7-3-4-4-3-4-3-1-1-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.25
56-43.1556-108.4550-2-15-						0-W06954-	09/26/79-	11-	20-	-0-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.89
56-43.1429-108.4725-2-15-						0-W06955-	09/26/79-	11-	20-	-0-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.94
56-43.1681-108.4211-2-12-						0-W06956-	09/26/79-	14-	25-	20.7-	-	-	7.5-	367-	8-1-7-4-7-1-2-2-3-4-3-2-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.14
56-43.1872-108.4794-2-15-						0-W06960-	09/26/79-	15-	25-	-	-	-	-	-	14-1-7-4-7-	-1-	-2-4-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.12
56-43.1767-108.4911-2-15-						0-W06961-	09/26/79-	4-	25-	-0-	-	-	-	-	14-1-7-4-7-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.76
56-43.2244-108.4836-2-12-						0-W06962-	09/26/79-	6-	25-	18.1-	-	-	7.9-	735-	6-1-7-5-7-2-3-2-3-4-2-2-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.89
56-43.2256-108.4822-2-15-						0-W06963-	09/26/79-	6-	25-	-	-	-	-	-	12-1-7-4-7-	-1-	-3-4-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.85
56-43.2197-108.4703-2-15-						0-W06964-	09/26/79-	6-	22-	-0-	-	-	-	-	8-1-7-4-7-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.09
56-43.2108-108.4397-2-12-						0-W06966-	09/26/79-	7-	17-	17.6-	-	-	8.0-	280-	8-1-6-5-6-4-4-3-2-2-2-3-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.17
56-43.2136-108.4221-2-15-						0-W06967-	09/26/79-	8-	17-	-0-	-	-	-	-	9-1-6-4-6-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
56-43.1481-108.3869-2-12-						0-W06968-	09/27/79-	8-	25-	13.7-	-	-	7.5-	575-	14-1-6-4-6-3-3-4-2-1-2-2-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.14
56-43.1856-108.3917-2-12-						0-W06971-	09/27/79-	9-	27-	13.7-	-	-	7.6-	140-	4-1-6-5-6-2-3-1-2-2-2-2-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.43
56-43.2456-108.4417-2-15-						0-W06972-	09/27/79-	11-	27-	-0-	-	-	-	-	16-1-6-4-6-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.88
56-43.2264-108.3533-2-12-						0-W06973-	09/27/79-	13-	22-	19.8-0-	-	-	7.9-	628-	6-1-7-6-7-3-3-1-3-4-2-1-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.85
56-43.2336-108.3796-2-15-						0-W06974-	09/27/79-	13-	25-	-	-	-	-	-	14-1-7-4-7-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.52
56-43.2328-108.3806-2-15-						0-W06975-	09/27/79-	14-	25-	-0-	-	-	-	-	8-1-7-4-7-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.67
56-43.2406-108.3069-2-15-						0-W06976-	09/27/79-	14-	25-	-	-	-	-	-	6-1-6-4-6-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.99
56-43.2017-108.3089-2-15-						0-W06977-	09/27/79-	15-	27-	-0-	-	-	-	-	8-1-6-4-6-	-1-	-3-4-2-1-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.66
56-43.1861-108.3236-2-12-						0-W06978-	09/27/79-	4-	25-	18.1-	-	-	7.9-	670-	6-1-6-4-6-4-4-3-2-4-3-2-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.86
56-43.1681-108.2744-2-15-						0-W06980-	09/27/79-	4-	22-	-	-	-	-	-	14-1-6-4-6-	-1-	-2-3-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.79
56-43.1681-108.3133-2-15-						0-W06982-	09/27/79-	5-	25-	-	-	-	-	-	12-1-6-4-6-	-1-	-2-4-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.57
56-43.1525-108.3539-2-12-						0-W06983-	09/27/79-	6-	17-	17.6-	-	-	7.7-	680-	4-1-7-4-7-3-3-4-2-4-3-2-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.07
56-43.1317-108.3764-2-15-						0-W06984-	09/27/79-	6-	17-	-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.62
56-43.1219-108.2722-2-12-						0-W06987-	09/27/79-	7-	17-	16.0-	-	-	7.5-	309-	8-1-7-4-7-3-3-3-3-2-3-2-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.26
56-43.0367-109.1900-2-12-						0-W06988-	09/28/79-	17-	28-	7.0-0-	-	-	8.6-	75-	16-4-7-5-6-3-3-1-2-2-3-5-1-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.73
56-43.0428-109.1950-2-15-						0-W06989-	09/28/79-	17-	28-	-	-	-	-	-	8-3-6-4-6-	-1-	-2-4-2-5-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.82
56-43.0414-109.1831-2-12-						0-W06990-	09/28/79-	18-	28-	11.0-	-	-	7.3-	300-	6-2-7-4-6-2-2-1-2-4-2-5-1-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.81
56-43.0431-109.2017-2-12-						0-W06991-	09/28/79-	10-	17-	6.0-	-	-	8.5-	70-	10-2-7-5-7-3-3-2-2-2-3-5-2-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.15
56-43.0108-108.3394-2-15-						0-W06992-	09/27/79-	11-	30-	-	-	-	-	-	6-1-1-4-1-	-1-	-2-3-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80
56-43.0211-108.2606-2-15-						0-W06993-	09/27/79-	11-	32-	-	-	-	-	-	6-1-1-4-1-	-1-	-1-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.73
56-43.0347-108.2569-2-15-						0-W06994-	09/27/79-	12-	32-	-	-	-	-	-	10-1-1-4-1-	-1-	-2-3-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.87
56-43.0153-108.2586-2-15-						0-W06995-	09/27/79-	12-	33-	-	-	-	-	-	8-1-1-4-1-	-1-	-1-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.04

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.0866-109.4867-2-37-						0-W06935	-5	-5	-5	23	-20	60	19	-10	-15	3	15
56-43.4997-109.5239-2-37-						0-W06936	-5	-5	-5	12	-20	16	19	-10	-15	3	13
56-43.0272-109.4592-2-37-						0-W06937	-5	-5	-5	26	-20	30	17	-10	-15	3	34
56-43.0183-109.4583-2-37-						0-W06938										3	22
56-43.1489-109.6186-2-37-						0-W06939	-5	-5	-5	23	-20	71	37	-10	-15	3	22
56-43.0389-109.4786-2-37-						0-W06940	-5	5	-5	31	-20	77	35	-10	-15	3	16
56-43.4322-109.6989-2-37-						0-W06941										3	17
56-43.0208-108.4497-2-15-						0-W06942	-5	-5	-5	20	-20	15	8	-10	-15	3	29
56-43.0214-108.4614-2-15-						0-W06943	-5	5	-5	15	-20	27	16	-10	22	3	40
56-43.0472-108.4881-2-15-						0-W06944	-5	10	-5	25	-20	17	11	-10	-15	3	31
56-43.0503-108.4275-2-15-						0-W06945	-5	5	-5	21	-20	19	19	-10	-15	3	30
56-43.0742-108.4061-2-15-						0-W06946	-5	7	-5	18	-20	-15	19	-10	-15	3	35
56-43.0714-108.4089-2-15-						0-W06947	-5	8	-5	19	-20	31	-5	-10	17	3	22
56-43.0961-108.4072-2-15-						0-W06948	-5	10	-5	16	-20	-15	-5	-10	-15	3	22
56-43.0953-108.4083-2-15-						0-W06949	-5	-5	-5	22	-20	-15	16	-10	-15	3	38
56-43.1044-108.4200-2-15-						0-W06950	-5	6	-5	20	-20	-15	11	-10	-15	3	35
56-43.1050-108.4183-2-15-						0-W06951	-5	5	-5	-10	-20	18	7	-10	-15	3	27
56-43.1403-108.4275-2-12-						0-W06952	-5	8	-5	19	-20	27	5	-10	-15	3	32
56-43.1389-108.4256-2-12-						0-W06953	-5	5	-5	11	-20	15	10	-10	-15	2	21
56-43.1556-108.4550-2-15-						0-W06954	-5	-5	-5	16	-20	-15	9	-10	-15	3	33
56-43.1428-108.4725-2-15-						0-W06955	-5	5	-5	19	-20	15	8	-10	-15	3	32
56-43.1681-108.4211-2-12-						0-W06959	-5	5	-5	17	-20	-15	6	-10	-15	3	17
56-43.1872-108.4794-2-15-						0-W06960	-5	5	-5	12	-20	-15	11	-10	-15	3	39
56-43.1767-108.4911-2-15-						0-W06961	-5	-5	-5	18	-20	24	17	-10	-15	3	36
56-43.2244-108.4836-2-12-						0-W06962	-5	-5	-5	16	-20	-15	9	-10	-15	3	22
56-43.2256-108.4822-2-15-						0-W06963	-5	5	-5	11	-20	-15	8	-10	-15	2	30
56-43.2197-108.4703-2-15-						0-W06964	-5	-5	-5	20	-20	17	7	-10	17	3	31
56-43.2108-108.4397-2-12-						0-W06966	-5	-5	-5	-10	-20	-15	5	-10	-15	3	21
56-43.2136-108.4231-2-15-						0-W06967	-5	-5	-5	18	-20	17	15	-10	-15	3	30
56-43.1491-108.3869-2-12-						0-W06968	-5	-5	-5	16	-20	-15	-5	-10	-15	3	23
56-43.1956-108.3917-2-12-						0-W06971	-5	-5	-5	22	-20	-15	6	-10	-15	3	28
56-43.2456-108.4417-2-15-						0-W06972	-5	7	-5	19	-20	-15	13	-10	-15	3	33
56-43.2264-108.3533-2-12-						0-W06973	-5	-5	-5	18	-20	-15	9	-10	-15	3	31
56-43.2336-108.3786-2-15-						0-W06974	-5	-5	-5	19	-20	18	13	-10	-15	3	26
56-43.2328-108.3606-2-15-						0-W06975	-5	-5	-5	27	-20	-15	9	-10	-15	3	31
56-43.2406-108.3069-2-15-						0-W06976	-5	-5	-5	16	-20	-15	8	-10	-15	3	35
56-43.2017-108.3089-2-15-						0-W06977	-5	5	-5	24	-20	-15	13	-10	-15	3	25
56-43.1861-108.3236-2-12-						0-W06978	-5	6	-5	11	-20	-15	9	-10	-15	2	20
56-43.1681-108.2744-2-15-						0-W06980	-5	-5	-5	13	-20	45	14	-10	-15	3	40
56-43.1681-108.3133-2-15-						0-W06982	-5	5	-5	13	-20	23	11	-10	-15	3	46
56-43.1525-108.3539-2-12-						0-W06983	-5	-5	-5	17	-20	-15	7	-10	-15	3	27
56-43.1317-108.3364-2-15-						0-W06984	-5	-5	-5	17	-20	-15	6	-10	-15	2	36
56-43.1219-108.2722-2-12-						0-W06987	-5	7	-5	18	-20	17	10	-10	-15	2	28
56-43.0367-109.1900-2-12-						0-W06988	-5	6	-5	21	-20	23	15	-10	-15	2	39
56-43.0428-109.1950-2-15-						0-W06989	-5	6	-5	24	-20	20	15	-10	-15	3	50
56-43.0414-109.1831-2-12-						0-W06990	-5	6	-5	24	-20	18	9	-10	-15	3	33
56-43.0431-109.2017-2-12-						0-W06991	-5	-5	-5	20	-20	34	10	-10	-15	2	41
56-43.0108-108.3294-2-15-						0-W06992	-5	7	-5	19	-20	26	17	-10	-15	3	33
56-43.0311-108.2606-2-15-						0-W06993	-5	6	-5	17	-20	-15	8	-10	-15	3	23
56-43.0347-108.2569-2-15-						0-W06994	-5	5	-5	15	-20	26	13	-10	-15	3	28
56-43.0153-108.2586-2-15-						0-W06995	-5	6	-5	-10	-20	22	19	-10	-15	3	24

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB. SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)														
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.0869-	109.4867-	2-	37-		0-W06935	66370	-0.07	282	27110	59	162	18.4	214	-2.2	3	1.3	39360	10.9	8001	42	0.2
56-	43.4997-	109.5239-	2-	37-		0-W06936	70260	-0.05	858	16560	182	-111	5.0	13	-1.4	7	2.4	13400	2.9	25810	74	0.3
56-	43.0272-	109.4992-	2-	37-		0-W06937	77520	-0.10	322	15070	132	280	9.9	87	5.2	7	2.2	27700	7.5	11590	100	0.3
56-	43.0183-	109.4983-	2-	37-		0-W06938	84310	-0.11	557	22130	75	-185	5.9	-18	-3.2	7	1.5	24640	5.8	15070	50	0.3
56-	43.1489-	109.6186-	2-	37-		0-W06939	61800	-0.07	237	31690	113	333	18.3	228	-2.3	7	2.4	40330	9.8	9922	62	0.5
56-	43.0389-	109.4786-	2-	37-		0-W06940	61240	-0.07	-138	30970	151	298	18.0	266	-2.2	8	2.6	40560	11.0	11010	64	0.5
56-	43.4322-	109.6589-	2-	37-		0-W06941	70110	-0.14	615	15610	103	-137	9.5	75	-4.0	10	2.0	35000	11.9	15540	82	1.0
56-	43.0208-	108.4497-	2-	15-		0-W06942	57160	-0.08	499	20390	70	-75	5.8	56	3.3	4	1.4	20170	10.4	21610	39	0.4
56-	43.0214-	108.4614-	2-	15-		0-W06943	61710	-0.09	755	17410	111	-75	8.9	77	4.0	6	1.7	28080	18.4	19330	73	0.5
56-	43.0472-	108.4681-	2-	15-		0-W06944	55790	-0.09	806	27260	174	-79	8.0	89	3.5	8	1.8	31110	23.9	18310	101	0.6
56-	43.0503-	108.4275-	2-	15-		0-W06945	57760	-0.10	749	23200	93	-79	6.4	60	4.1	5	1.4	21550	11.5	17740	45	0.5
56-	43.0742-	108.4061-	2-	15-		0-W06946	62230	-0.09	572	31870	137	-85	7.2	70	3.2	5	1.8	24690	15.1	19410	85	0.5
56-	43.0714-	108.4089-	2-	15-		0-W06947	48190	-0.10	519	22270	270	110	8.5	109	2.7	9	1.9	38460	41.0	14540	148	1.1
56-	43.0961-	108.4072-	2-	15-		0-W06948	48230	-0.08	755	20950	154	-74	5.2	65	2.2	7	1.7	22530	25.4	14970	84	0.6
56-	43.0953-	108.4083-	2-	15-		0-W06949	61740	-0.09	650	26320	75	-88	5.8	47	2.7	4	1.5	17570	9.4	20180	38	0.3
56-	43.1044-	108.4200-	2-	15-		0-W06950	58600	-0.09	615	27540	95	-77	7.8	56	5.7	4	1.6	23670	12.0	21260	57	0.4
56-	43.1050-	108.4183-	2-	15-		0-W06951	52100	-0.08	739	26620	99	-78	4.4	51	2.9	5	1.5	18890	14.5	18760	54	0.5
56-	43.1403-	108.4275-	2-	12-		0-W06952	55970	-0.09	600	21840	104	-79	7.3	61	3.8	6	1.5	22500	17.2	21840	61	0.5
56-	43.1389-	108.4256-	2-	12-		0-W06953	53220	-0.08	588	17830	83	-82	3.1	48	2.1	4	1.3	14170	11.1	15260	50	0.4
56-	43.1556-	108.4550-	2-	15-		0-W06954	61170	-0.06	575	19890	68	-71	8.5	54	4.9	4	1.4	24520	7.6	22000	34	0.4
56-	43.1428-	108.4725-	2-	15-		0-W06955	60330	-0.08	620	16360	77	-74	6.6	48	3.7	4	1.2	22610	8.2	18770	33	0.3
56-	43.1681-	108.4211-	2-	12-		0-W06959	48390	-0.06	585	14920	59	-65	3.2	29	2.4	4	1.2	13480	5.6	18710	32	0.4
56-	43.1872-	108.4794-	2-	15-		0-W06960	56520	-0.07	578	24840	64	-77	7.2	50	4.2	5	1.3	22660	7.0	21430	32	0.4
56-	43.1767-	108.4911-	2-	15-		0-W06961	64330	-0.07	532	18330	61	-79	8.9	59	4.6	4	1.4	25740	7.4	21830	37	0.3
56-	43.2244-	108.4836-	2-	12-		0-W06962	43170	-0.06	619	27790	60	-64	3.4	45	1.8	4	1.2	15370	10.8	15840	41	0.3
56-	43.2256-	108.4822-	2-	15-		0-W06963	48710	-0.06	713	29830	85	-65	5.7	52	3.7	5	1.4	18130	18.9	17350	44	0.4
56-	43.2197-	108.4703-	2-	15-		0-W06964	54810	-0.06	557	32460	69	-68	6.3	60	3.8	4	1.3	21770	12.1	19050	43	0.4
56-	43.2108-	108.4397-	2-	12-		0-W06966	42920	-0.07	640	28840	68	-62	4.2	38	2.7	4	1.2	14120	15.4	13750	38	0.4
56-	43.2136-	108.4231-	2-	15-		0-W06967	54310	-0.06	673	10620	77	-67	5.7	57	3.8	5	1.4	22670	13.1	19500	41	0.4
56-	43.1481-	108.3869-	2-	12-		0-W06968	52960	-0.06	709	18340	78	-81	4.5	39	2.4	5	1.3	16100	13.0	16310	45	0.4
56-	43.1956-	108.3917-	2-	12-		0-W06971	57370	-0.06	651	23110	90	-83	6.7	54	3.4	4	1.4	19890	12.5	19630	47	0.4
56-	43.2456-	108.4417-	2-	15-		0-W06972	54880	-0.08	566	23560	82	-66	6.0	52	4.6	5	1.4	21710	10.3	21070	37	0.4
56-	43.2264-	108.3533-	2-	12-		0-W06973	50930	-0.07	525	19040	63	-71	4.1	52	3.7	4	1.4	20750	10.6	17440	36	0.4
56-	43.2336-	108.3786-	2-	15-		0-W06974	55170	-0.06	526	21120	67	-72	5.5	48	3.2	4	1.1	18830	8.2	17190	35	0.4
56-	43.2328-	108.3806-	2-	15-		0-W06975	57550	-0.06	613	21640	57	-69	6.5	51	3.9	4	1.3	21570	9.0	21270	35	0.3
56-	43.2406-	108.3069-	2-	15-		0-W06976	54300	-0.07	643	22960	76	-70	4.8	50	3.2	4	1.2	19070	10.2	18920	37	0.4
56-	43.2017-	108.3089-	2-	15-		0-W06977	51370	-0.05	655	11770	61	-64	3.9	39	2.5	4	1.3	16900	10.3	18830	36	0.3
56-	43.1861-	108.3236-	2-	12-		0-W06978	54200	-0.07	617	19430	166	-91	5.8	70	2.0	7	2.0	22660	27.9	16130	97	0.7
56-	43.1681-	108.2744-	2-	15-		0-W06980	64130	-0.08	432	28796	87	-90	13.0	102	3.8	5	1.7	33610	14.2	20060	48	0.5
56-	43.1681-	108.3133-	2-	15-		0-W06982	65850	-0.09	834	31200	65	-91	8.6	80	2.1	4	1.6	28840	8.1	14440	32	0.3
56-	43.1525-	108.3539-	2-	12-		0-W06983	51140	-0.07	668	22580	148	-79	4.1	69	2.9	7	1.5	22100	34.1	18690	77	0.8
56-	43.1317-	108.3364-	2-	15-		0-W06984	68540	-0.07	886	30230	170	-106	7.4	74	2.7	5	1.7	24200	16.6	14690	94	0.5
56-	43.1219-	108.2722-	2-	12-		0-W06987	57360	-0.07	521	19060	97	-77	6.9	55	1.8	5	1.6	22830	19.9	15360	54	0.4
56-	43.0367-	108.1900-	2-	12-		0-W06988	68090	-0.13	402	24890	89	-118	16.0	117	-2.8	5	1.7	40970	16.0	12410	38	0.4
56-	43.0428-	108.1950-	2-	15-		0-W06989	52600	-0.07	686	15270	82	-50	6.5	64	2.8	7	1.6	29590	19.4	39390	38	0.7
56-	43.0414-	108.1831-	2-	12-		0-W06990	57730	-0.08	758	11160	95	-66	8.9	150	3.2	8	2.4	27230	26.8	37740	46	0.7
56-	43.0431-	108.2017-	2-	12-		0-W06991	69380	-0.10	515	26910	86	-126	18.3	135	2.9	4	1.9	42470	19.2	9014	44	0.5
56-	43.0108-	108.3394-	2-	15-		0-W06992	61800	-0.08	519	19940	115	-77	9.0	87	3.6	5	1.6	31480	20.9	19420	57	0.6
56-	43.0311-	108.2606-	2-	15-		0-W06993	50740	-0.06	622	17830	61	-70	6.8	54	2.1	4	1.2	18500	15.0	16540	32	0.4
56-	43.0347-	108.2569-	2-	15-		0-W06994	60030	-0.07	616	13400	71	-79	9.0	60	3.2	4	1.5	24830	13.7	18270	36	0.4
56-	43.0153-	108.2586-	2-	15-		0-W06995	54080	-0.06	540	13080	72	-74	8.5	60	2.4	4	1.4	23230	17.0	14460	41	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.0869-109.4867-2-37-						C-W06935	31560	687	20340	-34	-2	16.0	4.7	-305	-1	-1	12.7	4412	102	2.5	166	0.316
56-43.4997-109.5239-2-37-						C-W06936	6840	453	30080	47	-1	4.4	17.9	598	2	1	21.3	2837	25	3.7	-33	0.207
56-43.0272-109.4992-2-37-						C-W06937	21730	389	20690	-44	-3	11.0	14.4	-307	-2	-2	33.3	4214	61	5.6	151	0.447
56-43.0183-109.4983-2-37-						C-W06938	14020	506	34100	-57	-3	7.0	6.0	-521	-2	-2	24.9	3378	71	-2.7	-55	0.207
56-43.1489-109.6186-2-37-						C-W06939	36000	630	20590	-31	-2	19.5	10.1	-280	-1	2	23.1	4699	100	4.0	-49	0.268
56-43.0389-109.4786-2-37-						C-W06940	35280	640	20510	-32	-2	19.3	16.3	-293	-1	-1	31.1	5740	99	8.1	40	0.205
56-43.4322-109.6589-2-37-						C-W06941	20910	720	15440	-70	-3	10.4	9.2	-476	-3	-3	36.0	4340	94	7.8	-101	0.210
56-43.0208-108.4497-2-15-						C-W06942	14900	370	11300	65	-2	6.5	5.4	-227	-1	-1	12.8	2879	49	3.9	-76	0.259
56-43.0214-108.4614-2-15-						C-W06943	20120	512	10870	71	-2	8.1	7.6	-248	-1	1	19.0	3941	68	4.0	71	0.237
56-43.0472-108.4881-2-15-						C-W06944	17060	695	10410	80	-2	8.7	10.9	-276	-1	-1	37.0	5916	67	7.1	-38	0.172
56-43.0503-108.4275-2-15-						C-W06945	15750	404	10170	47	-2	6.3	6.7	-266	-1	-1	17.5	3747	53	3.9	-26	0.192
56-43.0742-108.4061-2-15-						C-W06946	15520	547	12590	61	-2	7.8	7.9	-258	-1	-1	21.0	3552	66	3.1	71	0.198
56-43.0714-108.4089-2-15-						C-W06947	15980	911	10800	45	-2	10.4	18.3	-296	2	2	47.5	8041	82	8.3	-23	0.155
56-43.0961-108.4072-2-15-						C-W06948	10270	538	12690	34	-2	6.9	9.9	-232	-1	1	25.8	4408	47	5.6	62	0.193
56-43.0959-108.4083-2-15-						C-W06949	15210	396	14160	59	-2	5.9	5.4	-269	-1	-1	12.2	2796	37	3.5	44	0.263
56-43.1044-108.4200-2-15-						C-W06950	15100	458	10850	53	-2	6.6	6.7	-245	-1	-1	17.5	3205	55	3.2	33	0.213
56-43.1050-108.4183-2-15-						C-W06951	12960	451	12720	64	-2	5.7	5.8	-241	-1	-1	15.0	3300	47	3.1	41	0.257
56-43.1403-108.4275-2-12-						C-W06952	15800	446	11040	53	-2	6.5	8.7	-248	-1	-1	20.2	3693	44	4.1	92	0.233
56-43.1389-108.4256-2-12-						C-W06953	9413	333	13080	-26	-2	4.0	5.5	-247	-1	-1	13.2	2631	35	4.2	-31	0.246
56-43.1556-108.4550-2-15-						C-W06954	20570	376	10260	65	-2	7.2	4.8	-224	-1	-1	11.3	3145	55	3.2	121	0.256
56-43.1428-108.4725-2-15-						C-W06955	18260	410	11550	62	-2	6.4	5.1	-236	-1	-1	11.7	2782	51	3.5	-20	0.251
56-43.1691-108.4211-2-12-						C-W06959	11250	246	11890	59	-1	4.5	4.5	-189	-1	-1	7.9	2092	29	2.3	-20	0.271
56-43.1872-108.4794-2-15-						C-W06960	15130	391	9383	72	-2	6.5	5.1	-267	-1	1	10.7	3122	52	2.8	89	0.292
56-43.1767-108.4911-2-15-						C-W06961	19150	437	10150	83	-2	7.4	5.0	-243	-1	-1	11.1	3031	55	2.9	110	0.249
56-43.2244-108.4836-2-12-						C-W06962	14370	302	9019	60	-2	4.8	4.0	-204	-1	-1	9.4	2117	39	2.3	-32	0.307
56-43.2256-108.4822-2-15-						C-W06963	15210	352	6474	54	-2	5.9	5.4	-229	-1	-1	17.2	3241	56	4.1	98	0.224
56-43.2107-108.4703-2-15-						C-W06964	13070	332	9779	59	-1	6.3	4.9	-205	-1	-1	13.5	2759	54	3.5	41	0.229
56-43.2108-108.4397-2-12-						C-W06966	15550	311	8807	53	-2	4.5	5.0	-199	-1	-1	11.2	2481	40	2.9	-32	0.283
56-43.2134-108.4221-2-15-						C-W06967	17110	374	10790	65	-2	6.8	6.3	-209	-1	-1	13.2	3342	50	4.0	62	0.239
56-43.1491-108.3869-2-12-						C-W06968	11130	324	13480	47	-1	5.0	5.5	-245	-1	-1	12.9	3608	39	3.0	56	0.243
56-43.1856-108.3917-2-12-						C-W06971	12360	398	14370	52	-2	6.0	5.3	-237	-1	-1	12.3	3062	47	3.6	87	0.279
56-43.2456-108.4417-2-15-						C-W06972	16200	285	8608	74	-2	6.2	6.2	-223	-1	-1	13.5	2983	47	3.9	-40	0.213
56-43.2264-108.3523-2-12-						C-W06973	15720	319	10260	73	-2	5.9	5.2	-216	-1	-1	11.0	3020	44	4.9	78	0.259
56-43.2336-108.3786-2-15-						C-W06974	16800	317	9384	62	-1	5.8	5.1	-234	-1	-1	11.1	2605	43	2.8	46	0.227
56-43.2328-108.3806-2-15-						C-W06975	16300	343	9564	48	-2	6.3	4.6	-216	-1	-1	11.0	2616	49	2.3	55	0.243
56-43.2406-108.3069-2-15-						C-W06976	16520	336	12030	-27	-2	5.5	5.7	372	-1	-1	11.1	2672	46	3.2	-36	0.269
56-43.2017-108.3089-2-15-						C-W06977	11870	303	12030	57	-1	5.2	3.7	-192	-1	-1	10.1	2271	40	2.4	61	0.263
56-43.1861-108.3236-2-12-						C-W06978	10540	540	14790	46	2	6.8	11.2	-289	1	-1	28.5	4542	44	5.2	31	0.171
56-43.1681-108.2744-2-15-						C-W06980	30260	673	12970	81	-2	10.4	5.9	-294	-1	-1	14.5	3625	87	3.0	-83	0.261
56-43.1661-108.3133-2-15-						C-W06982	29300	520	16950	52	-2	10.0	5.8	544	-1	-1	8.6	3507	68	3.7	-42	0.299
56-43.1525-108.3539-2-12-						C-W06983	12690	465	12660	-27	-2	6.8	6.2	-243	-1	1	25.3	4610	51	6.1	-34	0.240
56-43.1317-108.3364-2-15-						C-W06984	14470	631	17520	69	-2	7.5	9.6	356	-1	-1	23.2	4308	52	5.1	79	0.199
56-43.1219-108.2722-2-12-						C-W06987	14040	367	13880	68	-2	8.2	6.1	-227	-1	-1	18.8	3362	53	4.3	104	0.227
56-43.0367-109.1900-2-12-						C-W06988	23300	968	17510	-48	-3	15.2	6.5	-410	-2	-1	11.8	5998	116	3.6	80	0.486
56-43.0428-109.1950-2-15-						C-W06989	11140	509	3494	107	-2	8.3	7.3	-221	-1	-1	16.5	2891	47	6.0	-35	0.232
56-43.0414-109.1831-2-12-						C-W06990	10330	413	4583	104	-2	8.9	8.3	-274	-2	1	20.3	3464	47	5.7	-26	0.237
56-43.0431-109.2017-2-12-						C-W06991	23800	1361	15010	-40	-3	16.8	6.6	-442	-2	-1	15.5	6838	131	4.3	-168	0.397
56-43.0108-108.3394-2-15-						C-W06992	17440	512	11690	73	-2	8.7	9.1	-249	-2	-1	23.7	4613	77	5.3	76	0.203
56-43.0311-108.2606-2-15-						C-W06993	14520	317	11800	-24	-2	6.4	4.8	591	-1	-1	12.9	3179	46	3.2	-31	0.289
56-43.0247-108.2569-2-15-						C-W06994	16970	375	10710	77	-2	7.6	5.8	-255	-1	-1	13.8	4335	61	3.3	60	0.280
56-43.0153-108.2586-2-15-						C-W06995	13480	369	12180	66	-2	7.4	5.2	-219	-1	-1	15.9	3454	55	4.0	47	0.254

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.0517-	108.2564-2-99-		0-		W06996-	09/27/79-	13-	32-		-	-	-	-	-	5-	1-	1-	4-	1-	-	1-	-	-	3-	2-	2-	2-	-	1-	-	-	-	-	4.30
56-	43.0517-	108.2533-2-15-		0-		W06997-	09/27/79-	13-	33-		-	-	-	-	-	6-	1-	1-	4-	1-	-	1-	-	2-	3-	2-	2-	2-	-	4-	1-	-	-	-	3.46
56-	43.0686-	108.2636-2-11-		0-		W06998-	09/27/79-	14-	31-	23.0-	0-	-	7.4-	1500-	-	8-	1-	1-	4-	7-	2-	2-	2-	-	3-	2-	2-	2-	-	3-	-	-	-	-	3.20
56-	43.0709-	108.2617-2-15-		0-		W06999-	09/27/79-	14-	32-		-	-	-	-	-	9-	1-	1-	4-	1-	-	1-	-	2-	3-	2-	2-	2-	-	3-	-	-	-	-	3.62
56-	43.0758-	108.3064-2-15-		0-		W07000-	09/27/79-	15-	32-		0-	-	-	-	-	9-	1-	1-	4-	1-	-	1-	-	2-	3-	2-	2-	2-	-	3-	-	-	-	-	4.25
56-	43.0731-	108.3106-2-15-		0-		W07001-	09/27/79-	15-	32-		0-	-	-	-	-	12-	1-	1-	4-	1-	-	1-	-	2-	3-	2-	2-	1-	-	3-	-	-	-	-	3.10
56-	43.0731-	108.3114-2-15-		0-		W07002-	09/27/79-	15-	32-		-	-	-	-	-	6-	4-	1-	5-	1-	-	1-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	-	2.86
56-	43.0858-	108.2589-2-15-		0-		W07003-	09/27/79-	15-	32-		-	-	-	-	-	7-	1-	1-	4-	1-	-	1-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	-	4.11
56-	43.0956-	108.2611-2-15-		0-		W07004-	09/27/79-	15-	33-		-	-	-	-	-	10-	1-	1-	4-	1-	-	1-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	-	3.47
56-	43.1047-	108.2489-2-12-		0-		W07005-	09/27/79-	17-	32-	18.0-	0-	-	7.7-	575-	-	12-	2-	6-	5-	6-	3-	3-	2-	2-	4-	3-	2-	1-	-	3-	-	-	-	-	3.66
56-	43.0714-	108.3653-2-12-		0-		W07008-	09/27/79-	18-	32-	16.0-	0-	-	7.6-	500-	-	6-	1-	6-	5-	6-	3-	3-	2-	2-	4-	3-	1-	1-	-	3-	-	-	-	-	3.70
56-	43.0247-	109.2122-2-12-		0-		W07009-	09/29/79-	9-	27-	3.8-	-	-	7.7-	40-	-	10-	2-	7-	4-	6-	3-	3-	1-	2-	1-	4-	4-	1-	-	1-	-	-	-	-	6.85
56-	43.0072-	109.2728-2-12-		0-		W07010-	09/29/79-	12-	30-	6.8-	-	-	6.4-	60-	-	18-	2-	7-	4-	6-	3-	3-	1-	2-	4-	2-	5-	1-	-	1-	-	-	-	-	4.12
56-	43.0069-	109.2689-2-11-		0-		W07011-	09/29/79-	13-	30-	5.2-	-	-	7.0-	65-	-	16-	2-	7-	5-	8-	2-	2-	1-	-	2-	2-	5-	1-	-	1-	-	-	-	-	7.63
56-	43.0111-	109.2489-2-11-		0-		W07012-	09/29/79-	14-	30-	5.4-	0-	-	7.0-	20-	-	23-	2-	7-	5-	6-	2-	2-	1-	-	3-	1-	5-	1-	-	1-	-	-	-	-	3.52
56-	43.0222-	109.2272-2-11-		0-		W07013-	09/29/79-	15-	28-	3.0-	-	-	6.6-	42-	-	8-	2-	7-	5-	8-	2-	2-	1-	-	4-	3-	4-	1-	-	1-	-	-	-	-	7.92
56-	43.0508-	109.1083-2-15-		0-		W07014-	09/30/79-	9-	31-		-	-	-	-	-	9-	1-	1-	4-	1-	-	1-	-	2-	3-	1-	4-	1-	-	3-	-	-	-	-	2.83
56-	43.0547-	109.0850-2-11-		0-		W07015-	09/30/79-	9-	31-	10.8-	0-	-	9.2-	1800-	-	8-	1-	1-	5-	6-	2-	2-	1-	-	4-	2-	3-	1-	-	3-	-	-	-	-	2.11
56-	43.0622-	109.0761-2-15-		0-		W07016-	09/30/79-	10-	31-		-	-	-	-	-	8-	1-	4-	5-	4-	-	1-	-	2-	3-	1-	3-	1-	-	3-	-	-	-	-	1.98
56-	43.0619-	109.0747-2-15-		0-		W07017-	09/30/79-	10-	31-		-	-	-	-	-	16-	1-	4-	5-	4-	-	1-	-	2-	3-	1-	3-	1-	-	3-	-	-	-	-	1.67
56-	43.0747-	109.0803-2-12-		0-		W07018-	09/30/79-	10-	31-	12.8-	-	-	7.4-	950-	-	13-	1-	7-	4-	6-	2-	2-	1-	2-	2-	4-	1-	3-	1-	-	3-	-	-	-	-	2.17
56-	43.0756-	109.0800-2-15-		0-		W07019-	09/30/79-	10-	31-		-	-	-	-	-	6-	1-	4-	5-	4-	-	1-	-	2-	3-	1-	3-	1-	-	3-	-	-	-	-	2.42
56-	43.0931-	109.0500-2-15-		0-		W07020-	09/30/79-	11-	31-		-	-	-	-	-	18-	1-	4-	5-	4-	-	1-	-	2-	3-	1-	3-	1-	-	3-	-	-	-	-	2.25
56-	43.0914-	109.0922-2-12-		0-		W07021-	09/30/79-	11-	32-	12.6-	-	-	8.0-	440-	-	6-	1-	1-	5-	6-	3-	3-	1-	2-	2-	2-	3-	1-	-	3-	-	-	-	-	2.04
56-	43.0906-	109.0914-2-12-		0-		W07022-	09/30/79-	11-	31-	14.6-	-	-	7.5-	1050-	-	4-	1-	6-	4-	6-	2-	2-	1-	2-	2-	2-	3-	1-	-	1-	-	-	-	-	1.81
56-	43.1067-	109.1053-2-15-		0-		W07023-	09/30/79-	12-	32-		-	-	-	-	-	8-	1-	4-	5-	4-	-	1-	-	1-	3-	1-	3-	1-	-	3-	-	-	-	-	1.73
56-	43.0836-	109.1222-2-11-		0-		W07024-	09/30/79-	12-	32-	7.8-	-	-	8.1-	330-	-	6-	2-	7-	4-	6-	3-	3-	1-	-	2-	4-	3-	1-	-	1-	-	-	-	-	2.01
56-	43.0828-	109.1236-2-12-		0-		W07025-	09/30/79-	12-	32-	9.1-	-	-	8.2-	365-	-	5-	2-	7-	5-	8-	2-	2-	1-	2-	2-	4-	3-	1-	-	1-	-	-	-	-	2.61
56-	43.0869-	109.1286-2-12-		0-		W07026-	09/30/79-	13-	32-	9.5-	-	-	8.0-	310-	-	8-	2-	7-	5-	6-	3-	3-	1-	2-	2-	4-	5-	1-	-	1-	-	-	-	-	2.50
56-	43.0867-	109.1253-2-11-		0-		W07027-	09/30/79-	14-	32-	10.1-	0-	-	7.7-	320-	-	10-	2-	6-	5-	6-	3-	3-	1-	-	2-	4-	4-	1-	-	1-	-	-	-	-	2.21
56-	43.0992-	109.0431-2-12-		0-		W07028-	09/30/79-	15-	32-	16.5-	0-	-	7.7-	600-	-	8-	1-	6-	5-	6-	3-	3-	1-	2-	2-	2-	2-	1-	-	3-	-	-	-	-	2.89
56-	43.1306-	109.1094-2-15-		0-		W07031-	09/30/79-	16-	32-		-	-	-	-	-	12-	1-	4-	5-	4-	-	1-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	-	2.16
56-	43.1294-	109.1097-2-15-		0-		W07032-	09/30/79-	16-	32-		-	-	-	-	-	10-	1-	4-	5-	4-	-	1-	-	2-	3-	2-	2-	1-	-	1-	-	-	-	-	2.11
56-	43.1275-	109.0878-2-15-		0-		W07033-	09/30/79-	16-	32-		-	-	-	-	-	14-	1-	6-	5-	4-	-	1-	-	2-	3-	2-	3-	1-	-	3-	-	-	-	-	2.98
56-	43.1539-	109.0986-2-15-		0-		W07034-	09/30/79-	17-	30-		-	-	-	-	-	12-	1-	1-	4-	1-	-	1-	-	2-	3-	2-	3-	1-	-	3-	-	-	-	-	5.28
56-	43.1531-	109.0997-2-12-		0-		W07035-	09/30/79-	17-	30-	16.5-	0-	-	7.3-	500-	-	6-	1-	6-	5-	6-	2-	2-	2-	2-	2-	2-	3-	1-	-	3-	-	-	-	-	4.14
56-	43.1267-	109.0300-2-15-		0-		W07036-	09/30/79-	17-	30-		-	-	-	-	-	10-	1-	6-	5-	6-	-	1-	-	2-	3-	2-	2-	2-	-	1-	-	-	-	-	2.34
56-	43.1514-	109.0542-2-15-		0-		W07037-	09/30/79-	18-	28-		-	-	-	-	-	16-	1-	1-	4-	1-	-	1-	-	2-	3-	2-	3-	2-	-	1-	-	-	-	-	4.59
56-	43.1503-	109.0367-2-15-		0-		W07038-	09/30/79-	18-	28-		-	-	-	-	-	14-	1-	1-	4-	1-	-	1-	-	2-	3-	2-	2-	2-	-	1-	-	-	-	-	3.12
56-	43.1397-	109.0069-2-12-		0-		W07039-	09/30/79-	19-	26-	15.2-	-	-	7.8-	550-	-	12-	1-	6-	6-	8-	2-	2-	2-	2-	2-	2-	3-	2-	-	3-	-	-	-	-	3.04
56-	43.0619-	109.8864-2-15-		0-		W07040-	10/01/79-	10-	30-		-	-	-	-	-	8-	1-	6-	4-	6-	-	1-	-	2-	2-	2-	2-	1-	-	3-	-	-	-	-	2.80
56-	43.0636-	108.8842-2-15-		0-		W07041-	10/01/79-	11-	32-		0-	-	-	-	-	-	1-	6-	4-	6-	-	1-	-	2-	3-	2-	2-	1-	-	3-	-	-	-	-	2.74
56-	43.1606-	108.5708-2-12-		0-		W07048-	09/27/79-	13-	25-	18.0-	0-	-	7.8-	645-	-	13-	4-	7-	5-	7-	3-	3-	1-	2-	4-	3-	2-	1-	-	1-	-	-	-	-	5.17
56-	43.1342-	108.6100-2-15-		0-		W07062-	09/27/79-	19-	23-		-	-	-	-	-	9-	4-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	1-	-	-	-	-	2.84
56-	43.1322-	108.6044-2-15-		0-		W07063-	09/27/79-	19-	23-		-	-	-	-	-	12-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	1-	-	-	-	-	3.67
56-	43.1258-	108.5883-2-15-		0-		W07064-	09/27/79-	19-	23-		-	-	-	-	-	15-	1-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	1-	-	-	-	-	3.13
56-	43.1182-	108.5594-2-15-		0-		W07065-	09/27/79-	20-	23-		-	-	-	-	-	12-	4-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	1-	-	-	-	-	3.27
56-	43.2783-	109.1481-2-15-		0-		W07067-	09/28/79-	15-	25-		0-	-	-	-	-	15-	2-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	3-	-	-	-	-	2.99
56-	43.2664-	109.1267-2-15-		0-		W07068-	09/28/79-	15-	26-		-	-	-	-	-	4-	2-	6-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	1-	-	-	-	-	4.50
56-	43.2950-	109.2164-2-12-		0-		W07073-	09/28/79-	16-	24-	13.2-	-	-	7.8-	280-	-	12-	4-	6-	5-	8-	3-	3-	1-	2-	3-	3-	3-	2-	-	1-	-	-	-	-	2.49
56-	43.3011-	109.2300-2-15-		0-		W07074-	09/28/79-	17-	24-		-	-	-	-	-	13-	3-	7-	4-	6-	-	1-	-	2-	3-	3-	3-	2-	-	1-	-	-	-	-	2.54

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.0517-108.2564-2-99-				0-W06997			-5	-5	-5	-10	-20	-15	5	-10	-15	3	18
56-43.0517-108.2533-2-15-				0-W06997			-5	6	-5	26	-20	26	13	-10	17	3	31
56-43.0686-108.2639-2-11-				0-W06998			-5	-5	-5	12	-20	-15	-5	-10	-15	2	14
56-43.0708-108.2617-2-15-				0-W06999			-5	-5	-5	21	-20	-15	6	-10	-15	2	21
56-43.0756-108.3044-2-15-				0-W07000			-5	-5	-5	21	-20	29	7	-10	-15	2	25
56-43.0731-108.3106-2-15-				0-W07001			-5	6	-5	14	-20	-15	12	-10	-15	2	18
56-43.0731-108.3114-2-15-				0-W07002			-5	-5	-5	18	-20	23	7	-10	-15	2	33
56-43.0958-108.2589-2-15-				0-W07003			-5	-5	-5	16	-20	26	-5	-10	-15	3	28
56-43.0956-108.2611-2-15-				0-W07004			-5	5	-5	26	-20	19	15	-10	-15	3	39
56-43.1047-108.3489-2-12-				0-W07005			-5	-5	-5	18	-20	16	16	-10	-15	3	45
56-43.0714-108.3653-2-12-				0-W07008			-5	6	-5	10	-20	22	12	-10	-15	2	20
56-43.0247-109.2122-2-12-				0-W07009			-5	-5	-5	30	-20	32	13	-10	-15	2	39
56-43.0072-109.2728-2-12-				0-W07010			-5	5	-5	29	-20	23	12	-10	-15	2	38
56-43.0069-109.2689-2-11-				0-W07011			-5	-5	-5	22	-20	27	18	-10	-15	3	39
56-43.0111-109.2489-2-11-				0-W07012			-5	7	-5	24	-20	24	16	-10	-15	3	46
56-43.0222-109.2272-2-11-				0-W07013			-5	5	-5	31	-20	24	9	-10	-15	3	50
56-43.0508-109.1683-2-15-				0-W07014			-5	-5	-5	20	-20	-15	8	-10	-15	2	38
56-43.0547-109.0850-2-11-				0-W07015			-5	-5	-5	22	-20	-15	5	-10	-15	2	44
56-43.0622-109.0761-2-15-				0-W07016			-5	-5	-5	22	-20	-15	9	-10	-15	2	39
56-43.0619-109.0747-2-15-				0-W07017			-5	-5	-5	15	-20	-15	7	-10	-15	2	22
56-43.0747-109.0603-2-12-				0-W07018			-5	-5	-5	19	-20	-15	7	-10	-15	2	26
56-43.0756-109.0800-2-15-				0-W07019			-5	-5	-5	22	-20	-15	6	-10	-15	2	46
56-43.0931-109.0500-2-15-				0-W07020			-5	7	-5	21	-20	17	13	-10	-15	2	28
56-43.0914-109.0922-2-12-				0-W07021			-5	6	-5	18	-20	-15	-5	-10	-15	2	28
56-43.0906-109.0914-2-12-				0-W07022			-5	-5	-5	20	-20	-15	5	-10	-15	2	27
56-43.1067-109.1053-2-15-				0-W07023			-5	-5	-5	23	-20	15	9	-10	-15	2	44
56-43.0836-109.1222-2-11-				0-W07024			-5	-5	-5	26	-20	15	7	-10	-15	1	23
56-43.0828-109.1236-2-12-				0-W07025			-5	-5	-5	17	-20	-15	-5	-10	-15	2	16
56-43.0869-109.1286-2-12-				0-W07026			-5	-5	-5	29	-20	-15	10	-10	-15	2	22
56-43.0867-109.1253-2-11-				0-W07027			-5	-5	-5	15	-20	21	6	-10	-15	2	50
56-43.0992-109.0431-2-12-				0-W07028			-5	-5	-5	17	-20	19	8	-10	-15	2	28
56-43.1306-109.1094-2-15-				0-W07031			-5	6	-5	14	-20	-15	8	-10	-15	2	26
56-43.1294-109.1097-2-15-				0-W07032			-5	5	-5	22	-20	-15	11	-10	-15	2	26
56-43.1275-109.0878-2-15-				0-W07033			-5	-5	-5	17	-20	-15	5	-10	-15	3	20
56-43.1539-109.0986-2-15-				0-W07034			-5	-5	-5	21	-20	26	11	-10	-15	3	24
56-43.1531-109.0997-2-12-				0-W07035			-5	6	-5	13	-20	-15	8	-10	-15	3	32
56-43.1267-109.0300-2-15-				0-W07036			-5	-5	-5	14	-20	-15	-5	-10	-15	2	21
56-43.1514-109.0542-2-15-				0-W07037			-5	5	-5	25	-20	37	11	-10	-15	3	30
56-43.1503-109.0267-2-15-				0-W07038			-5	-5	-5	34	-20	46	13	-10	-15	3	42
56-43.1397-109.0069-2-12-				0-W07039			-5	5	-5	27	-20	18	12	-10	-15	3	29
56-43.0619-108.8864-2-15-				0-W07040			-5	6	-5	19	-20	-15	11	-10	-15	2	27
56-43.0636-108.8842-2-15-				0-W07041			-5	6	-5	12	-20	-15	9	-10	-15	3	22
56-43.1606-108.5708-2-12-				0-W07049			-5	-5	-5	18	-20	-15	10	-10	-15	3	21
56-43.1342-108.6100-2-15-				0-W07062			-5	-5	-5	27	-20	-15	12	-10	-15	3	36
56-43.1322-108.6044-2-15-				0-W07063			-5	6	-5	26	-20	-15	22	-10	-15	3	32
56-43.1258-108.5883-2-15-				0-W07064			-5	-5	-5	33	-20	16	18	-10	-15	3	33
56-43.1183-108.5594-2-15-				0-W07065			-5	-5	5	20	-20	26	11	-10	-15	3	41
56-43.2783-109.1491-2-15-				0-W07067			-5	8	-5	31	-20	49	17	-10	16	2	24
56-43.2664-109.1267-2-15-				0-W07068			-5	-5	-5	30	-20	47	13	-10	-15	2	39
56-43.2950-109.2164-2-12-				0-W07073			-5	-5	-5	24	-20	23	7	-10	-15	2	41
56-43.3011-109.2300-2-15-				0-W07074			-5	-5	-5	25	-20	35	6	-10	-15	3	34

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.0517-108.2564-2-99-						0-W06996	44720	-0.07	537	13880	64	-62	4.7	44	-1.4	5	1.4	16030	21.4	15390	32	0.5
56-43.0517-108.2533-2-15-						0-W06997	57610	-0.07	514	14000	69	-70	9.7	63	2.6	4	1.7	27050	9.4	17210	37	0.3
56-43.0686-108.2639-2-11-						0-W06998	43880	-0.05	633	20380	51	-76	4.1	44	1.7	4	1.2	12530	14.2	13660	31	0.4
56-43.0708-108.2617-2-15-						0-W06999	50680	-0.06	568	15190	69	-72	6.9	57	2.2	4	1.5	17530	16.7	17990	35	0.4
56-43.0758-108.2064-2-15-						0-W07000	57150	-0.08	658	17930	102	-74	7.6	83	-1.6	5	1.6	26020	19.3	16940	49	0.5
56-43.0731-108.3106-2-15-						0-W07001	53760	-0.06	663	26880	83	-78	7.2	88	-1.4	4	1.7	23290	15.6	16210	52	0.4
56-43.0731-108.3114-2-15-						0-W07002	54430	-0.07	613	24850	63	191	7.3	69	2.6	3	1.3	19010	9.4	17770	36	0.3
56-43.0858-108.2589-2-15-						0-W07003	53180	-0.06	493	15850	76	-71	8.3	63	2.2	5	1.5	21520	18.4	18170	36	0.5
56-43.0956-108.2611-2-15-						0-W07004	58260	-0.08	657	17420	80	-71	8.3	72	3.5	4	1.4	23430	10.9	20620	41	0.4
56-43.1047-108.3489-2-12-						0-W07005	65610	-0.08	769	26360	70	-93	7.7	62	3.8	4	1.7	22450	6.9	18160	39	0.4
56-43.0714-108.3653-2-12-						0-W07008	52760	-0.06	632	28720	122	-91	5.3	64	1.3	5	1.5	20760	18.4	16450	69	0.5
56-43.0247-109.2122-2-12-						0-W07009	66380	-0.12	364	22980	60	-122	14.9	89	-2.6	4	1.8	41940	12.8	12250	42	0.3
56-43.0072-109.2728-2-12-						0-W07010	68780	-0.12	550	27760	111	219	11.5	102	-2.6	4	1.6	35990	18.1	15810	42	0.3
56-43.0069-109.2689-2-11-						0-W07011	68400	-0.11	634	15990	105	-103	5.8	156	3.2	5	1.5	24940	7.6	14940	56	0.3
56-43.0111-109.2489-2-11-						0-W07012	67850	-0.10	688	13220	70	-111	6.4	56	4.8	4	1.7	26770	9.8	16890	44	0.3
56-43.0222-109.2272-2-11-						0-W07013	64850	-0.11	474	22180	64	-113	11.9	78	-2.5	8	2.6	29030	11.6	12940	62	0.5
56-43.0508-109.1083-2-15-						0-W07014	34680	-0.07	248	52690	56	-136	7.2	57	2.9	3	1.2	19020	7.3	18570	24	0.4
56-43.0547-109.0850-2-11-						0-W07015	39430	-0.11	297	70660	46	82	9.4	44	-1.8	4	1.0	21840	7.0	15500	27	0.2
56-43.0622-109.0761-2-15-						0-W07016	44790	-0.09	312	46100	46	-70	5.2	47	3.1	4	1.3	17460	7.1	22480	22	0.3
56-43.0619-109.0747-2-15-						0-W07017	38640	-0.07	299	47830	36	-64	3.0	37	2.0	3	0.8	12420	8.2	18450	21	0.2
56-43.0747-109.0803-2-12-						0-W07018	34350	-0.07	259	61830	38	125	5.0	47	2.2	3	1.1	15590	7.4	15560	22	0.3
56-43.0756-109.0800-2-15-						0-W07019	45080	-0.09	373	42190	45	-70	7.1	43	2.4	4	1.2	19710	8.3	20280	31	0.3
56-43.0931-109.0500-2-15-						0-W07020	42460	-0.08	304	37170	44	-58	5.2	42	2.4	3	0.9	15780	8.1	16510	16	0.3
56-43.0914-109.0922-2-12-						0-W07021	39710	-0.09	244	74890	35	118	4.6	31	2.2	3	0.8	12740	6.0	17840	-11	0.2
56-43.0906-109.0914-2-12-						0-W07022	36170	-0.08	315	47630	29	-60	3.4	31	-1.3	3	0.7	12340	6.8	18250	15	0.2
56-43.1067-109.1053-2-15-						0-W07023	37160	-0.08	302	52880	36	-49	5.8	42	2.0	3	0.9	15640	8.1	19880	20	0.2
56-43.0836-109.1222-2-11-						0-W07024	30180	-0.12	236	56770	32	-68	2.2	59	2.5	3	0.7	10440	6.0	12850	-16	-0.2
56-43.0828-109.1236-2-12-						0-W07025	27330	-0.08	238	63670	28	-61	-0.3	65	-1.3	3	0.7	8013	7.6	12400	17	0.2
56-43.0960-109.1286-2-12-						0-W07026	39830	-0.10	380	82220	43	162	4.0	57	3.7	3	1.0	15840	8.3	17080	28	0.3
56-43.0867-109.1253-2-11-						0-W07027	31510	-0.09	-258	50980	54	-220	6.6	51	2.9	3	1.2	19800	6.9	-10840	-12	0.3
56-43.0992-109.0431-2-12-						0-W07028	50500	-0.11	458	69850	59	-77	6.1	50	2.7	4	1.4	17760	8.3	14760	33	0.3
56-43.1306-109.1094-2-15-						0-W07031	39270	-0.07	365	32780	40	-48	4.4	40	2.0	4	0.9	14420	12.0	16940	26	0.3
56-43.1294-109.1097-2-15-						0-W07032	39830	-0.07	397	36420	42	-56	6.3	44	1.9	3	0.9	17050	10.3	17330	20	0.2
56-43.1275-109.0879-2-15-						0-W07033	40130	-0.08	507	11210	47	-55	4.4	40	2.4	4	1.0	12520	8.9	15770	26	0.4
56-43.1539-109.0986-2-15-						0-W07034	55430	-0.09	411	17090	63	-59	8.2	92	-1.4	4	1.5	21760	15.8	15770	39	0.3
56-43.1531-109.0997-2-12-						0-W07035	46940	-0.11	376	21340	76	-57	2.5	40	6.0	5	1.1	21680	9.4	16400	36	0.4
56-43.1267-109.0300-2-15-						0-W07036	36660	-0.06	464	20090	41	-49	4.2	37	1.7	3	1.0	13790	10.9	17190	24	0.2
56-43.1514-109.0542-2-15-						0-W07037	63090	-0.11	545	25760	93	-80	9.2	119	-1.7	4	1.6	26500	18.3	16820	52	0.3
56-43.1503-109.0367-2-15-						0-W07038	68400	-0.10	439	20160	69	-69	11.0	106	1.9	4	1.2	29100	6.7	15500	44	0.2
56-43.1397-109.0669-2-12-						0-W07039	52730	-0.10	594	21390	58	-72	5.8	75	2.2	4	1.3	20810	10.3	15720	23	0.3
56-43.0619-108.8864-2-15-						0-W07040	40320	-0.07	476	37750	54	-57	6.0	34	2.2	4	1.2	17080	10.8	15570	35	0.3
56-43.0636-108.8842-2-15-						0-W07041	43490	-0.09	539	17390	50	-58	4.3	31	2.9	4	1.1	15590	9.0	12440	26	0.3
56-43.1406-108.5708-2-12-						0-W07048	53600	-0.09	515	25830	153	-87	5.6	71	-1.4	7	1.8	23560	25.6	14260	89	0.6
56-43.1342-108.6106-2-15-						0-W07062	58770	-0.09	631	21990	62	96	6.2	48	4.8	4	1.2	20340	4.6	24270	29	0.3
56-43.1322-108.6044-2-15-						0-W07063	59580	-0.09	594	28420	93	190	9.3	64	4.5	5	1.4	25210	9.6	21480	51	0.3
56-43.1258-108.5883-2-15-						0-W07064	60370	-0.13	618	29540	76	-81	6.8	57	6.3	5	1.9	22950	8.1	22200	37	0.3
56-43.1183-108.5594-2-15-						0-W07065	64920	-0.10	590	23870	72	-76	8.0	74	4.0	4	1.5	24300	8.7	19880	40	0.3
56-43.2783-109.1481-2-15-						0-W07067	64710	-0.10	559	21670	84	-89	14.2	162	-1.8	5	1.5	34760	16.0	17670	47	0.4
56-43.2664-109.1267-2-15-						0-W07068	67030	-0.09	486	24620	84	-84	15.1	164	-1.6	4	1.5	33980	12.4	12600	44	0.4
56-43.2950-109.2164-2-12-						0-W07073	51750	-0.13	497	23330	59	-86	7.6	69	-1.9	4	1.5	16280	9.8	16010	-16	0.3
56-43.3011-109.2300-2-15-						0-W07074	55470	-0.10	426	22830	71	-72	12.1	115	-1.6	4	1.3	27260	12.4	15730	44	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.0517-108.2564-2-99-						0-W06996	9384	286	10470	48	-2	5.8	5.5	-191	-1	-1	15.1	3578	41	4.1	-34	0.285
56-43.0517-108.2533-2-15-						0-W06997	14050	373	10380	39	-2	8.4	5.4	-226	-1	-1	12.5	3267	60	3.2	-28	0.277
56-43.0686-108.2630-2-11-						0-W06998	10260	274	12470	30	-1	4.3	3.9	-225	-1	-1	10.3	2950	31	3.2	-31	0.311
56-43.0708-108.2617-2-15-						0-W06999	11880	320	11560	42	-1	6.0	4.8	-209	-1	-1	12.9	3103	49	2.9	-32	0.281
56-43.0758-108.3064-2-15-						0-W07000	14660	380	13160	50	-2	7.6	7.8	-224	-1	-1	24.1	4344	73	4.0	90	0.176
56-43.0731-108.3106-2-15-						0-W07001	16410	336	16810	44	-2	7.2	6.2	409	-1	-1	18.9	3200	59	4.4	-11	0.164
56-43.0731-108.3114-2-15-						0-W07002	21350	370	26040	51	-2	6.4	4.6	-323	-1	-1	11.5	2964	53	-1.5	60	0.249
56-43.0858-108.2589-2-15-						0-W07003	13390	343	11440	54	-2	7.5	5.6	-212	-1	-1	15.0	3841	51	4.2	90	0.274
56-43.0956-108.2611-2-15-						0-W07004	19090	440	10450	66	-2	7.8	6.2	-241	-1	-1	13.5	3771	63	3.7	-37	0.257
56-43.1047-108.3489-2-12-						0-W07005	22620	402	15280	79	-2	7.4	5.0	-279	-1	-1	10.7	2568	53	2.0	71	0.342
56-43.0714-108.3653-2-12-						0-W07008	10330	477	14960	44	-1	6.1	7.2	-284	-1	-1	21.8	3603	50	4.2	-37	0.170
56-43.0247-109.2122-2-12-						0-W07009	22970	766	16470	-46	-3	14.9	6.9	-401	-2	-1	11.0	5440	116	-2.2	68	0.623
56-43.0072-109.2728-2-12-						0-W07010	23120	729	10970	-45	-3	12.9	7.6	-381	-2	-1	20.5	5740	105	3.8	62	0.201
56-43.0069-109.2689-2-11-						0-W07011	13800	282	15130	-45	-3	10.3	7.1	-296	-1	-1	16.5	4586	61	2.6	95	0.462
56-43.0111-109.2489-2-11-						0-W07012	13010	393	13140	95	-3	9.0	6.2	-366	-1	-1	13.4	5064	77	-2.2	-113	0.263
56-43.0222-109.2272-2-11-						0-W07013	15850	468	16240	-43	-3	14.3	9.0	-345	-2	-1	8.5	4560	83	3.6	144	0.932
56-43.0508-109.1083-2-15-						0-W07014	24130	2786	3382	-27	-2	6.1	4.8	-571	-1	-1	8.2	2658	40	3.0	-26	0.345
56-43.0547-109.0850-2-11-						0-W07015	26770	565	7619	63	-3	6.2	3.9	516	-1	-1	7.4	2980	45	2.4	-44	0.285
56-43.0622-109.0761-2-15-						0-W07016	23310	412	8446	-27	-2	6.1	3.6	-243	-1	-1	7.1	3160	42	3.0	25	0.279
56-43.0619-109.0747-2-15-						0-W07017	19840	328	8197	52	-2	4.7	2.9	-194	-1	-1	5.5	2618	36	2.8	34	0.304
56-43.0747-109.0803-2-12-						0-W07018	28100	594	5930	-21	-2	5.1	3.1	-243	-1	-1	6.4	1921	38	-1.3	-42	0.239
56-43.0756-109.0800-2-15-						0-W07019	32400	350	8468	-29	-2	6.9	4.3	-224	-1	1	6.6	3149	49	2.6	81	0.367
56-43.0931-109.0500-2-15-						0-W07020	15810	333	5628	-25	-2	5.2	3.6	-207	-1	-1	6.7	2726	41	2.6	-33	0.336
56-43.0914-109.0922-2-12-						0-W07021	30980	473	5712	-30	-2	4.8	2.8	-271	-1	-1	7.0	2432	38	2.7	-39	0.291
56-43.0906-109.0914-2-12-						0-W07022	22170	245	6183	35	-2	4.4	2.9	-193	-1	-1	5.1	3039	36	2.9	-32	0.255
56-43.1067-109.1053-2-15-						0-W07023	26100	361	3471	56	-2	5.5	3.3	-191	-1	-1	5.9	2574	38	2.2	32	0.293
56-43.0836-109.1222-2-11-						0-W07024	23280	267	3502	-35	-3	3.7	3.0	-278	-2	-1	4.1	1556	30	-2.2	-40	0.490
56-43.0828-109.1236-2-12-						0-W07025	28030	531	3059	-25	-2	3.4	3.2	-258	-1	-1	4.4	1640	31	1.8	68	0.593
56-43.0869-109.1286-2-12-						0-W07026	64780	180	5041	-32	-3	5.5	3.7	-211	-1	-1	7.9	2251	47	-1.9	108	0.367
56-43.0867-109.1253-2-11-						0-W07027	43050	4590	1899	63	-2	6.6	3.9	-824	-1	-1	7.3	-2230	-23	3.7	49	0.303
56-43.0992-109.0431-2-12-						0-W07028	29130	524	5749	52	-3	6.0	4.5	-300	-1	-1	8.7	3229	49	3.3	-36	0.332
56-43.1306-109.1094-2-15-						0-W07031	20060	344	4713	-20	-2	5.4	3.3	-179	-1	-1	6.9	2537	49	2.5	-36	0.313
56-43.1294-109.1097-2-15-						0-W07032	23600	308	5751	49	-2	6.0	3.8	-199	-1	-1	7.1	2670	44	-1.4	44	0.297
56-43.1275-109.0878-2-15-						0-W07033	7899	285	4650	50	-2	4.1	3.9	-196	-1	-1	9.9	2190	39	2.4	55	0.301
56-43.1539-109.0986-2-15-						0-W07034	16600	402	6580	-25	-2	7.8	5.0	-206	-1	-1	15.9	3963	64	2.9	-30	0.332
56-43.1531-109.0997-2-12-						0-W07035	20560	218	5147	66	-3	6.8	4.9	-200	-1	-1	18.2	3381	63	3.9	-44	0.227
56-43.1267-109.0300-2-15-						0-W07036	13660	258	6015	50	-2	4.2	3.5	-160	-1	-1	7.1	2519	41	2.1	-25	0.330
56-43.1514-109.0542-2-15-						0-W07037	18380	447	10080	-32	-3	8.7	7.0	-265	-1	-1	21.9	4717	68	5.6	-25	0.210
56-43.1503-109.0367-2-15-						0-W07038	25670	413	8240	-30	-3	9.4	4.5	-230	-1	-1	13.1	3263	69	3.8	74	0.238
56-43.1397-109.0069-2-12-						0-W07039	17740	418	8390	60	-2	7.0	5.0	-249	-1	-1	11.4	2795	63	2.8	75	0.267
56-43.0619-108.8864-2-15-						0-W07040	13390	263	7957	62	-2	5.1	5.0	-172	-1	-1	10.7	2908	44	3.5	55	0.262
56-43.0636-108.8842-2-15-						0-W07041	10420	289	5459	-27	-2	5.0	4.5	-208	-1	-1	7.4	2866	42	3.3	42	0.370
56-43.1606-108.5708-2-12-						0-W07048	12780	633	15920	-25	-2	8.4	9.1	-258	-1	1	21.3	3910	57	6.1	-30	0.243
56-43.1342-108.6100-2-15-						0-W07062	18750	327	10090	63	-2	6.3	4.4	-219	-1	-1	10.4	2778	47	-2.1	-33	0.273
56-43.1322-108.6044-2-15-						0-W07063	18460	472	11690	65	-2	7.8	6.2	-247	-1	-1	15.8	3868	50	5.0	-38	0.232
56-43.1258-108.5893-2-15-						0-W07064	17470	428	7329	57	-3	7.1	5.6	-289	-1	-1	11.0	3258	60	-2.2	-44	0.285
56-43.1183-108.5594-2-15-						0-W07065	25320	432	9850	63	-2	7.8	4.7	-238	-1	-1	11.3	3539	63	1.7	-42	0.289
56-43.2782-109.1481-2-15-						0-W07067	21140	630	14880	46	-3	11.0	7.6	-284	-1	-1	26.6	5440	101	7.0	84	0.112
56-43.2664-109.1267-2-15-						0-W07069	25240	520	15980	56	-2	11.9	6.4	-250	-1	-1	21.0	4669	96	4.3	86	0.214
56-43.2950-109.2164-2-12-						0-W07073	20490	352	8633	-38	-3	6.6	5.2	-293	-2	-1	8.7	2870	58	3.8	-55	0.286
56-43.3011-109.2300-2-15-						0-W07074	22930	537	9128	44	-2	10.1	5.4	-245	-1	-1	13.9	3730	83	3.6	-26	0.183

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																											U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.3281-109.2086-2-12-						0-W07075-09/28/79-17-			23-14.2-	-	-	-	7.7-	490-	11-3-7-5-8-3-3-1-2-4-3-3-2-													-1-	-	-	-	-	4.21
56-43.3325-109.2222-2-12-						0-W07076-09/28/79-18-			23-13.2-C-	-	-	7.6-	890-	11-3-7-5-6-3-3-2-2-3-3-3-2-													-1-	-	-	-	-	3.52
56-43.4228-109.3647-2-12-						0-W07078-09/29/79- 8-			12-10.2-	-	-	-	7.8-	104-	21-3-8-4-6-3-3-1-2-3-3-3-1-													-1-	-	-	-	-	4.77
56-43.3544-109.4111-2-11-						0-W07079-09/29/79- 9-			24- 9.7-C-	-	-	7.0-	365-	-3-7-5-8-3-3-1- -3-3-4-1-													-1-	-	-	-	-	5.39
56-43.3381-109.4350-2-12-						0-W07080-09/29/79-10-			24-10.7-	-	-	8.1-	25-	-3-7-4-7-3-3-1-2-3-3-4-1-													-1-	-	-	-	-	6.68
56-43.3514-109.4039-2-12-						0-W07081-09/29/79-11-			25-11.5-	-	-	7.6-	37-	-3-7-4-7-3-3-3-2-3-3-4-1-													-1-	-	-	-	-	5.84
56-43.3575-109.3328-2-15-						0-W07083-09/29/79-13-			25-	-	-	-	-	-	9-3-6-4-6- -1- -2-3-3-4-2-													-1-	-	-	-	-	4.32
56-43.3358-109.3706-2-15-						0-W07084-09/29/79-14-			25-	-	-	-	-	-	10-3-7-4-4- -1- -2-3-3-4-2-													-1-	-	-	-	-	2.24
56-43.3306-109.3739-2-15-						0-W07085-09/29/79-14-			25-	-	-	-	-	-	12-3-7-4-6- -1- -2-3-3-4-2-													-1-	-	-	-	-	6.25
56-43.3039-109.3858-2-11-						0-W07086-09/29/79-15-			23-11.1-C-	-	-	9.6-	205-	13-3-7-5-8-2-2-1- -3-3-4-2-													-3-	-	-	-	-	1.91
56-43.2700-109.4311-2-12-						0-W07087-09/29/79-16-			25-12.4-C-	-	-	7.3-	204-	-2-7-5-6-2-2-1-2-2-3-5-2-													-3-	-	-	-	-	6.02
56-43.2661-109.4347-2-15-						0-W07088-09/29/79-16-			25-	-	-	-	-	-	-3-7-4-8- -1- -2-2-3-5-2-													-1-	-	-	-	-	5.37
56-43.2631-109.4342-2-12-						0-W07089-09/29/79-17-			24-10.2-	-	-	7.2-	22-	-3-8-4-7-3-3-1-2-2-3-5-2-													-1-	-	-	-	-	6.21
56-43.2772-109.4417-2-99-						0-W07090-09/29/79-18-			23-	-C-	-	-	-	-	8-3-7-4-8- -1- -1-3-3-5-2-													-1-	-	-	-	-	3.74
56-43.3039-109.3636-2-12-						0-W07091-09/29/79-19-			22-10.1-	-	-	7.4-	24-	14-3-7-4-7-3-3-1-2-3-3-4-2-													-1-	-	-	-	-	5.29
56-43.0442-109.2014-2-12-						0-W07092-09/29/79-10-			17- 8.1-	-	-	8.1-	65-	8-2-7-5-7-3-3-2-2-2-3-5-2-													-1-	-	-	-	-	3.92
56-43.0511-109.2139-2-12-						0-W07093-09/29/79-11-			17- 6.0-	-	-	7.6-	85-	8-2-7-5-7-3-3-2-2-2-3-5-2-													-1-	-	-	-	-	4.07
56-43.0500-109.2275-2-12-						0-W07094-09/29/79-11-			18- 5.5-	-	-	7.3-	55-	7-2-7-5-7-3-3-2-2-2-3-5-2-													-1-	-	-	-	-	3.00
56-43.0525-109.2381-2-12-						0-W07095-09/29/79-12-			18- 7.0-C-	-	-	7.4-	55-	10-2-7-5-7-3-3-2-2-2-3-5-2-													-1-	-	-	-	-	4.19
56-43.0350-109.1375-2-12-						0-W07096-09/30/79- 9-			11- 8.0-C-	-	-	6.5-	100-	22-2-7-5-7-3-3-1-2-2-3-5-2-													-1-	-	-	-	-	3.87
56-43.0225-109.1356-2-12-						0-W07097-09/29/79-17-			14-10.0-C-	-	-	8.0-	40-	8-2-7-5-7-3-3-2-2-1-3-5-2-													-1-	-	-	-	-	4.70
56-43.0236-109.1350-2-12-						0-W07098-09/29/79-18-			14-11.0-C-	-	-	8.2-	25-	10-2-7-5-7-4-3-1-2-1-3-5-2-													-1-	-	-	-	-	13.82
56-43.0014-109.0197-2-12-						0-W07101-09/30/79-12-			24-15.0-	-	-	8.0-	45-	10-1-4-4-6-2-3-2-2-3-3-2-2-1-													-	-	-	-	-	2.52
56-43.0169-109.0781-2-15-						0-W07102-09/30/79-12-			25-	-	-	-	-	-	5-1-7-4-6- -1- -3-4-2-3-1-													-1-	-	-	-	-	2.21
56-43.0128-109.0628-2-15-						0-W07103-09/30/79-13-			25-	-	-	-	-	-	8-3-9-1-7- -1- -3-4-2-3-1-													-1-	-	-	-	-	3.42
56-43.0319-108.9950-2-15-						0-W07104-09/30/79-14-			25-	-	-	-	-	-	10-3-9-1-7- -1- -3-4-2-3-1-													-1-	-	-	-	-	4.39
56-43.0367-108.9053-2-99-						0-W07108-09/30/79-16-			25-	-C-	-	-	-	-	8-1-7-5-8- -1- - -4-2-2-1-													-3-	-	-	-	-	3.62
56-43.0708-108.9094-2-12-						0-W07109-09/30/79-17-			25-17.0-	-	-	7.5-	1200-	4-1-7-6-8-2-3-2-3-4-3-2-1-													-3-	-	-	-	-	2.02
56-43.1094-108.9136-2-12-						0-W07110-09/30/79-17-			20-19.0-	-	-	7.6-	1600-	14-1-6-5-8-3-3-1-3-4-3-2-1-													-1-	-	-	-	-	4.83
56-43.1894-109.0458-2-15-						0-W07112-10/01/79-15-			25-	-	-	-	-	-	6-1-6-4-7- -1- -3-4-2-2-1-													-1-	-	-	-	-	2.51
56-43.2378-109.0319-2-15-						0-W07113-10/01/79-16-			25-	-	-	-	-	-	11-1-6-4-7- -1- -3-4-2-2-1-													-1-	-	-	-	-	3.53
56-43.2617-109.0897-2-15-						0-W07114-10/01/79-17-			20-	-	-	-	-	-	10-1-6-4-6- -1- -3-4-2-2-1-													-	-	-	-	-	4.12
56-43.2608-109.0892-2-15-						0-W07115-10/01/79-17-			20-	-	-	-	-	-	12-1-6-4-6- -1- -3-3-2-2-1-													-1-	-	-	-	-	3.79
56-43.2964-109.2336-2-12-						0-W07118-10/02/79-10-			20- 7.0-	-	-	8.1-	230-	8-1-4-6-8-3-3-1-2-3-2-3-2-													-1-	-	-	-	-	2.67
56-43.2147-109.2481-2-11-						0-W07119-10/02/79-11-			20-11.0-	-	-	7.5-	1000-	6-1-7-6-8-2-3-1-2-2-2-2-2-													-3-	-	-	-	-	3.39
56-43.1983-109.2397-2-15-						0-W07120-10/02/79-12-			20-	-	-	-	-	-	10-1-7-4-7- -1- -3-4-2-2-2-													-1-	-	-	-	-	2.73
56-43.2169-109.1992-2-15-						0-W07121-10/02/79-13-			18-	-	-	-	-	-	6-1-7-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	2.33
56-43.2156-109.1675-2-12-						0-W07122-10/02/79-14-			18-16.0-C-	-	-	7.2-	600-	6-1-7-4-6-3-3-1-2-4-2-2-2-													-3-	-	-	-	-	2.80
56-43.2442-109.2019-2-15-						0-W07123-10/02/79-14-			19-	-	-	-	-	-	6-1-7-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	2.32
56-43.2433-109.2017-2-15-						0-W07124-10/02/79-14-			19-	-	-	-	-	-	8-1-7-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	3.33
56-43.2094-109.1675-2-99-						0-W07125-10/02/79-15-			20-	-C-	-	-	-	-	10-1-7-5-8- -1- - -4-2-2-2-													-3-	-	-	-	-	4.01
56-43.2139-109.1286-2-15-						0-W07126-10/02/79-15-			20-	-	-	-	-	-	10-1-6-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	3.78
56-43.2244-109.1331-2-15-						0-W07127-10/02/79-15-			20-	-C-	-	-	-	-	8-1-6-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	4.80
56-43.2381-109.1292-2-15-						0-W07128-10/02/79-16-			20-	-C-	-	-	-	-	14-1-6-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	5.85
56-43.2378-109.1275-2-15-						0-W07129-10/02/79-16-			20-	-	-	-	-	-	9-1-6-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	3.75
56-43.2211-108.9992-2-15-						0-W07130-10/02/79-16-			20-	-	-	-	-	-	7-1-6-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	3.60
56-43.2125-108.9536-2-15-						0-W07132-10/02/79-17-			20-	-	-	-	-	-	10-1-6-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	4.36
56-43.1897-109.0103-2-15-						0-W07133-10/02/79-17-			20-	-	-	-	-	-	4-1-7-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	2.93
56-43.1886-109.0092-2-15-						0-W07134-10/02/79-17-			20-	-	-	-	-	-	6-1-7-4-6- -1- -3-4-2-2-2-													-1-	-	-	-	-	3.44
56-43.1392-108.9286-2-15-						0-W07135-10/02/79-17-			20-	-C-	-	-	-	-	10-1-7-6-7- -1- -3-4-2-2-2-													-2-	-	-	-	-	3.43
56-43.2033-108.8775-2-15-						0-W07136-10/02/79-18-			15-	-C-	-	-	-	-	8-1-6-4-6- -1- -3-4-2-2-2-													-4-	-	-	-	-	4.36

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.3281-109.2086-2-12-						0-W07075	-5	-5	-5	16	-20	21	-5	-10	-15	2	32
56-43.3325-109.2322-2-12-						0-W07076	-5	-5	-5	20	-20	-15	12	-10	-15	2	35
56-43.4228-109.3647-2-12-						0-W07078	-5	5	-5	18	-20	16	18	-10	-15	2	27
56-43.3544-109.4111-2-11-						0-W07079	-5	6	-5	21	-20	25	6	-10	16	3	47
56-43.3381-109.4350-2-12-						0-W07080	-5	9	-5	12	-20	28	11	-10	-15	3	13
56-43.3514-109.4039-2-12-						0-W07081	-5	9	-5	17	-20	34	7	-10	-15	3	11
56-43.3575-109.3328-2-15-						0-W07083	-5	7	-5	13	-20	21	10	-10	-15	3	33
56-43.3358-109.3706-2-15-						0-W07084	-5	-5	-5	14	-20	-15	9	-10	-15	2	38
56-43.3306-109.3739-2-15-						0-W07085	-5	-5	-5	12	-20	18	10	-10	-15	3	29
56-43.3039-109.3858-2-11-						0-W07086	-5	-5	-5	31	-20	77	8	-10	-15	2	25
56-43.2700-109.4311-2-12-						0-W07087	-5	-5	-5	18	-20	28	15	-10	-15	3	36
56-43.2661-109.4347-2-15-						0-W07088	-5	-5	-5	61	-20	37	16	-10	-15	2	42
56-43.2631-109.4342-2-12-						0-W07089	-5	11	-5	34	-20	79	10	-10	-15	2	29
56-43.2772-109.4417-2-99-						0-W07090	-5	-5	-5	25	-20	-15	16	-10	-15	3	34
56-43.3039-109.3836-2-12-						0-W07091	-5	5	-5	31	-20	60	13	-10	-15	2	34
56-43.0442-109.2014-2-12-						0-W07092	-5	-5	-5	33	-20	51	8	-10	-15	2	37
56-43.0511-109.2139-2-12-						0-W07093	-5	-5	-5	19	-20	42	11	-10	-15	2	44
56-43.0500-109.2275-2-12-						0-W07094	-5	-5	-5	18	-20	86	14	-10	-15	2	35
56-43.0525-109.2381-2-12-						0-W07095	-5	6	-5	34	-20	81	14	-10	-15	2	49
56-43.0350-109.1975-2-12-						0-W07096	-5	5	-5	17	-20	21	12	-10	-15	3	23
56-43.0225-109.1956-2-12-						0-W07097	-5	5	-5	22	-20	15	12	-10	-15	2	23
56-43.0236-109.1350-2-12-						0-W07098	-5	5	-5	18	-20	-15	15	-10	-15	2	37
56-43.0014-109.0197-2-12-						0-W07101	-5	-5	-5	12	-20	-15	6	-10	-15	2	11
56-43.0169-109.0781-2-15-						0-W07102	-5	-5	-5	17	-20	-15	7	-10	-15	2	17
56-43.0128-109.0628-2-15-						0-W07103	-5	-5	-5	17	-20	-15	11	-10	-15	2	32
56-43.0319-108.9950-2-15-						0-W07104	-5	6	-5	18	-20	16	15	-10	-15	3	29
56-43.0367-108.9053-2-99-						0-W07108	-5	-5	-5	30	-20	-15	10	-10	-15	2	25
56-43.0708-108.9094-2-12-						0-W07109	-5	7	-5	11	-20	-15	7	-10	-15	2	22
56-43.1094-108.9136-2-12-						0-W07110	-5	-5	-5	27	-20	-15	12	-10	-15	3	31
56-43.1894-109.0458-2-15-						0-W07112	-5	7	-5	18	-20	45	12	-10	-15	3	37
56-43.2378-109.0319-2-15-						0-W07113	-5	-5	-5	17	-20	45	20	-10	-15	3	40
56-43.2617-109.0897-2-15-						0-W07114	-5	-5	-5	24	-20	51	5	-10	17	2	35
56-43.2608-109.0892-2-15-						0-W07115	-5	9	-5	25	-20	-15	17	-10	22	2	32
56-43.2364-109.2336-2-12-						0-W07118	-5	-5	-5	19	-20	-15	8	-10	-15	2	41
56-43.2147-109.2481-2-11-						0-W07119	-5	-5	-5	14	-20	-15	8	-10	-15	1	26
56-43.1983-109.2397-2-15-						0-W07120	-5	-5	-5	19	-20	-15	5	-10	-15	2	25
56-43.2169-109.1992-2-15-						0-W07121	-5	-5	-5	23	-20	17	7	-10	-15	2	34
56-43.2156-109.1975-2-12-						0-W07122	-5	-5	-5	22	-20	35	7	-10	-15	2	27
56-43.2442-109.2019-2-15-						0-W07123	-5	9	-5	33	-20	55	20	-10	-15	2	39
56-43.2433-109.2017-2-15-						0-W07124	-5	9	-5	29	-20	43	-5	-10	16	2	31
56-43.2094-109.1675-2-99-						0-W07125	-5	-5	-5	26	-20	37	15	-10	-15	2	42
56-43.2139-109.1286-2-15-						0-W07126	-5	6	-5	28	-20	45	11	-10	-15	2	43
56-43.2244-109.1331-2-15-						0-W07127	-5	-5	-5	32	-20	48	13	-10	-15	2	44
56-43.2381-109.1292-2-15-						0-W07128	-5	6	-5	30	-20	58	13	-10	-15	2	48
56-43.2378-109.1275-2-15-						0-W07129	-5	-5	-5	32	-20	53	9	-10	-15	3	35
56-43.2211-108.9992-2-15-						0-W07130	-5	-5	-5	13	-20	38	10	-10	-15	3	40
56-43.2125-108.9936-2-15-						0-W07132	-5	7	-5	20	-20	49	18	-10	-15	3	39
56-43.1897-109.0103-2-15-						0-W07133	-5	9	-5	22	-20	33	15	-10	-15	2	35
56-43.1886-109.0092-2-15-						0-W07134	-5	7	-5	23	-20	33	14	-10	-15	2	29
56-43.1383-108.9286-2-15-						0-W07135	-5	-5	-5	20	-20	20	17	-10	19	2	27
56-43.2033-108.8775-2-15-						0-W07136	-5	6	-5	20	-20	16	9	-10	-15	2	21

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.3281-109.2086-2-12-						0-W07075	43070	-0.10	457	46290	76	77	6.7	68	-1.5	6	1.2	18000	15.5	17570	45	0.4
56-43.3325-109.2322-2-12-						0-W07076	44160	-0.08	459	41120	68	-62	8.3	64	2.0	5	1.2	19080	11.2	13940	37	0.4
56-43.4228-109.3647-2-12-						0-W07078	56120	-0.11	688	18010	78	-64	6.8	80	-1.7	4	1.5	18100	10.4	15840	42	0.4
56-43.3544-109.4111-2-11-						0-W07079	48520	-0.10	383	38550	70	120	3.9	58	-1.6	6	1.3	16490	11.1	15950	46	0.5
56-43.3381-109.4350-2-12-						0-W07080	45640	-0.10	494	21820	201	238	5.3	71	-1.6	16	2.4	22600	26.6	16370	102	1.1
56-43.3514-109.4639-2-12-						0-W07081	60500	-0.09	393	26230	175	256	6.6	62	-1.5	14	2.3	21520	25.0	16040	102	1.1
56-43.3575-109.3328-2-15-						0-W07083	48030	-0.10	404	29250	105	-65	5.5	58	2.7	8	1.5	20700	22.2	28070	50	0.8
56-43.3358-109.3706-2-15-						0-W07084	41180	-0.08	339	36550	39	-62	3.6	38	1.6	4	1.3	13750	11.8	16740	25	0.3
56-43.3306-109.3739-2-15-						0-W07085	49500	-0.10	656	21340	131	94	6.4	49	2.5	10	2.3	23890	32.3	38350	58	0.9
56-43.3039-109.3858-2-11-						0-W07086	64800	-0.14	323	20290	64	-98	19.0	231	2.2	5	1.4	36420	10.6	13970	36	0.4
56-43.2700-109.4311-2-12-						0-W07087	63320	-0.13	682	7399	131	176	6.5	60	4.2	10	2.0	22720	29.6	42410	56	1.0
56-43.2661-109.4347-2-15-						0-W07088	69680	-0.12	454	15120	84	145	7.1	94	4.6	7	2.1	30010	8.8	22100	82	0.4
56-43.2631-109.4342-2-12-						0-W07089	65120	-0.14	315	27510	151	143	18.6	373	-2.2	8	1.7	43620	30.8	9301	79	0.7
56-43.2772-109.4417-2-99-						0-W07090	60420	-0.11	693	9908	88	-69	8.4	48	3.6	8	1.9	28170	12.9	40230	50	0.6
56-43.3039-109.3636-2-12-						0-W07091	62600	-0.14	513	18200	121	247	14.1	196	-2.3	6	1.6	33420	19.9	20090	49	0.4
56-43.0442-109.2014-2-12-						0-W07092	57550	-0.12	525	15980	80	-111	17.1	226	-2.0	4	1.4	38160	13.3	22940	43	0.4
56-43.0511-109.2139-2-12-						0-W07093	56910	-0.11	704	14900	85	-81	11.1	259	2.3	6	1.4	29420	23.5	21550	44	0.4
56-43.0500-109.2275-2-12-						0-W07094	70830	-0.13	448	24100	87	-98	19.5	451	2.2	5	1.7	41730	12.2	9111	49	0.4
56-43.0525-109.2381-2-12-						0-W07095	68950	-0.17	-224	23120	170	-123	18.3	542	-2.6	7	2.0	40000	23.7	12600	84	0.6
56-43.0350-109.1375-2-12-						0-W07096	61030	-0.10	405	26610	86	-89	9.8	134	-1.6	5	1.7	36560	20.6	16550	47	0.6
56-43.0225-109.1356-2-12-						0-W07097	61620	-0.13	627	21350	80	156	9.3	53	2.0	5	2.0	43700	18.7	12600	39	0.5
56-43.0236-109.1350-2-12-						0-W07098	63670	-0.14	517	24270	110	-119	11.3	58	-2.3	6	2.5	47700	21.3	12200	65	0.5
56-43.0014-109.0197-2-12-						0-W07101	29230	-0.08	353	20380	42	-53	2.7	35	1.3	3	1.1	12090	15.6	14040	19	0.3
56-43.0169-109.0781-2-15-						0-W07102	30210	-0.07	319	42350	29	-45	2.5	29	-1.0	2	1.0	10990	12.9	16290	26	0.3
56-43.0128-109.0628-2-15-						0-W07103	28960	-0.09	304	17420	46	-51	3.8	85	2.5	4	1.2	15350	9.6	15970	33	0.3
56-43.0319-108.9950-2-15-						0-W07104	54460	-0.08	546	12680	73	-62	8.4	61	3.5	5	1.3	26160	12.7	17730	38	0.4
56-43.0367-108.9053-2-99-						0-W07109	51970	-0.16	544	18860	104	217	7.4	47	-2.6	5	1.6	25680	13.5	14180	51	0.3
56-43.0708-108.9094-2-12-						0-W07109	36200	-0.09	435	15710	45	-70	-1.0	22	2.2	2	0.9	24520	4.4	13420	-11	0.3
56-43.1094-108.9136-2-12-						0-W07110	62300	-0.09	656	7358	72	-55	7.0	51	4.9	5	1.4	21410	8.9	18240	42	0.4
56-43.1894-109.0458-2-15-						0-W07112	68360	-0.11	560	20930	66	-96	10.9	138	-1.8	4	1.5	24950	9.3	13600	30	0.3
56-43.2378-109.0319-2-15-						0-W07113	65680	0.75	477	30040	82	-87	11.1	125	2.2	4	1.3	30390	13.3	14750	51	0.4
56-43.2617-109.0897-2-15-						0-W07114	65980	-0.10	568	22620	77	-84	13.5	171	-1.6	5	1.5	32660	12.4	17840	54	0.4
56-43.2608-109.0892-2-15-						0-W07115	60740	-0.09	549	19530	102	-82	11.3	137	2.0	5	1.5	31890	20.3	17170	60	0.4
56-43.2364-109.2336-2-12-						0-W07118	45660	-0.11	424	17790	53	87	4.8	51	-1.6	5	1.0	13960	13.7	21000	36	0.4
56-43.2147-109.2481-2-11-						0-W07119	32470	-0.09	295	42690	50	-89	3.0	67	2.3	3	1.3	11360	11.8	12260	32	0.4
56-43.1993-109.2397-2-15-						0-W07120	40250	-0.09	435	23350	50	71	5.7	82	2.7	3	1.0	16950	10.2	15700	34	0.3
56-43.2169-109.1992-2-15-						0-W07121	44000	-0.08	315	41070	50	-60	6.2	77	2.7	4	1.2	21210	10.8	15870	29	0.3
56-43.2156-109.1975-2-12-						0-W07122	50020	-0.13	460	32300	57	-82	8.1	119	-2.0	4	1.3	21830	13.5	13730	38	0.4
56-43.2442-109.2019-2-15-						0-W07123	65100	-0.11	426	17920	73	-81	16.2	155	-1.8	4	1.2	33610	9.2	15220	41	0.3
56-43.2433-109.2017-2-15-						0-W07124	60410	-0.10	448	26100	72	-71	12.5	176	-1.6	5	1.4	31020	20.9	15130	42	0.5
56-43.2004-109.1675-2-99-						0-W07125	57830	-0.11	513	15500	71	139	15.3	149	1.8	5	1.3	33210	13.2	18740	49	0.4
56-43.2139-109.1286-2-15-						0-W07126	57310	-0.12	383	23500	100	-79	15.3	194	-1.9	5	1.5	33390	17.2	16840	47	0.4
56-43.2244-109.1331-2-15-						0-W07127	56910	-0.11	421	26490	119	121	14.9	226	-1.8	6	1.6	39490	21.0	14260	59	0.5
56-43.2381-109.1292-2-15-						0-W07128	62460	-0.12	326	25280	121	-104	18.9	266	-1.9	6	1.6	47480	22.5	12900	67	0.5
56-43.2378-109.1275-2-15-						0-W07129	65160	-0.11	381	23250	75	-87	18.4	165	-1.8	4	1.4	35970	10.8	14230	47	0.4
56-43.2211-108.9992-2-15-						0-W07130	65560	-0.10	686	26120	95	-91	9.9	103	2.5	4	1.5	24690	13.6	17540	49	0.4
56-43.2125-108.9536-2-15-						0-W07132	65530	-0.09	543	21570	96	-86	9.7	102	2.4	4	1.5	27770	13.5	16560	58	0.4
56-43.1897-109.0103-2-15-						0-W07133	71480	-0.09	794	24410	63	-102	11.0	100	2.1	3	1.4	25860	6.6	14840	35	0.2
56-43.1886-109.0092-2-15-						0-W07134	72010	-0.09	513	25940	77	-90	13.5	103	2.7	4	1.5	29710	7.8	16150	45	0.3
56-43.1393-108.9386-2-15-						0-W07135	58590	-0.10	712	18240	87	-69	7.1	65	3.2	4	1.4	21590	10.0	18870	44	0.3
56-43.2033-108.8775-2-15-						0-W07136	47650	-0.07	576	35920	69	-59	4.5	51	2.9	5	1.4	16760	13.1	14970	46	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.3281-109.2086-2-12-						0-W07075	19670	484	6240	60	-2	6.3	7.1	-257	-1	-1	20.1	3283	50	3.3	67	0.209
56-43.3325-109.2722-2-12-						0-W07076	13440	456	6524	-25	-2	6.5	5.8	-222	-1	-1	14.6	3148	50	3.1	84	0.241
56-43.4228-109.3647-2-12-						0-W07078	15600	363	14320	56	-3	6.0	6.9	324	-1	-1	17.0	3135	55	4.5	-41	0.281
56-43.3544-109.4111-2-11-						0-W07079	25010	284	8788	-32	-3	5.9	5.8	-241	-2	-1	21.7	2827	42	5.3	37	0.248
56-43.3381-109.4350-2-12-						0-W07080	15200	331	27350	53	-2	10.3	17.9	-253	-1	2	58.6	5577	61	9.8	52	0.114
56-43.3514-109.4030-2-12-						0-W07081	19660	297	26530	65	-2	9.9	15.0	-239	-1	2	49.4	4304	53	9.4	61	0.118
56-43.3575-109.3328-2-15-						0-W07083	20270	303	5593	77	-2	6.8	8.6	-227	-1	-1	21.0	3310	42	5.9	-36	0.206
56-43.3358-109.3706-2-15-						0-W07084	23050	310	7501	40	-2	5.2	4.4	-193	-1	-1	6.7	3070	37	2.8	-22	0.334
56-43.3306-109.3739-2-15-						0-W07085	21520	302	2622	72	-2	8.4	9.1	-181	-1	1	26.9	2987	40	6.5	66	0.232
56-43.3039-109.3858-2-11-						0-W07086	25630	509	12540	-43	-4	14.0	5.5	-322	-2	-1	12.0	4447	92	-2.5	185	0.159
56-43.2700-109.4311-2-12-						0-W07087	9828	464	3804	73	-3	9.5	10.3	-284	-2	-1	24.6	3860	49	9.5	41	0.245
56-43.2661-109.4347-2-15-						0-W07088	19230	390	8823	58	-3	11.6	10.0	-257	-1	-1	14.1	3093	74	4.4	-35	0.381
56-43.2631-109.4342-2-12-						0-W07089	30430	865	18780	-27	-3	18.9	11.5	-353	-1	-1	39.4	7971	116	6.4	99	0.158
56-43.2772-109.4417-2-99-						0-W07090	12570	673	5190	128	-3	9.1	8.9	-290	-1	-1	15.0	3498	51	5.8	142	0.249
56-43.3039-109.3636-2-12-						0-W07091	29760	645	10070	-40	-4	12.6	9.7	-357	-2	-1	22.0	5176	97	4.8	128	0.240
56-43.0442-109.2014-2-12-						0-W07092	19440	1615	10170	57	-3	12.6	7.2	-449	-1	-1	12.3	4540	76	4.8	89	0.319
56-43.0511-109.2139-2-12-						0-W07093	16960	570	11340	53	-3	11.4	7.2	-280	-1	-1	19.8	5183	80	4.7	51	0.206
56-43.0500-109.2275-2-12-						0-W07094	33030	704	14720	-41	-3	16.8	6.8	-337	-1	-1	16.0	5888	124	4.0	-146	0.187
56-43.0525-109.2381-2-12-						0-W07095	30590	858	16240	-44	-4	16.8	12.0	-433	-2	-2	43.4	9036	116	6.4	-72	0.097
56-43.0350-109.1375-2-12-						0-W07096	16510	598	17570	57	-2	12.5	7.0	-257	-1	-1	16.5	4929	86	4.4	-34	0.235
56-43.0225-109.1356-2-12-						0-W07097	12090	765	18290	-40	-3	9.9	6.9	-380	-1	-1	17.0	4747	93	5.2	127	0.276
56-43.0236-109.1350-2-12-						0-W07098	15550	896	18670	-41	-4	14.3	10.1	-384	-1	-1	16.0	5622	107	5.3	-54	0.864
56-43.0014-109.0197-2-12-						0-W07101	11440	150	5990	36	-2	3.3	4.1	-167	-1	-1	7.1	1955	34	3.4	-26	0.355
56-43.0160-109.0781-2-15-						0-W07102	20580	211	3451	37	-2	3.8	2.7	-153	-1	-1	6.4	1495	28	2.1	-33	0.345
56-43.0128-109.0628-2-15-						0-W07103	13090	311	5098	57	-2	5.4	4.5	-190	-1	-1	7.9	2652	47	3.3	-87	0.433
56-43.0319-109.0950-2-15-						0-W07104	9812	372	8902	65	-2	7.6	5.4	-202	-1	-1	16.3	3749	69	3.2	-48	0.269
56-43.0367-108.9053-2-99-						0-W07108	-5562	789	11780	-50	-4	6.2	7.3	-467	-2	-2	24.2	3662	65	6.2	-48	0.150
56-43.0708-108.9094-2-12-						0-W07109	6218	799	4792	-28	-2	3.0	2.9	-313	-1	-1	7.1	1736	35	-1.5	44	0.285
56-43.1094-108.9136-2-12-						0-W07110	11490	156	6716	67	-2	7.0	4.2	421	-1	-1	15.1	2957	67	4.2	129	0.320
56-43.1894-109.0458-2-15-						0-W07112	27150	508	15990	50	-3	10.4	5.0	686	-1	-1	10.6	3663	67	2.8	-74	0.237
56-43.2278-109.0319-2-15-						0-W07113	28370	534	14020	-30	-2	9.0	6.7	-267	-1	-1	19.3	4113	84	4.1	46	0.183
56-43.2617-109.0897-2-15-						0-W07114	30800	492	16140	-30	-3	11.7	6.2	-249	-1	-1	18.9	5132	97	3.8	98	0.218
56-43.2608-109.0892-2-15-						0-W07115	18000	564	14140	39	-2	10.6	6.8	-259	-1	-1	25.8	5214	85	6.3	107	0.147
56-43.2364-109.2336-2-12-						0-W07118	17800	486	8038	-28	-3	5.4	6.2	-292	-1	1	8.2	3391	49	3.6	-43	0.326
56-43.2147-109.2481-2-11-						0-W07119	33230	1565	3653	33	-2	4.9	4.3	-427	-1	-1	8.9	2709	28	3.0	121	0.381
56-43.1983-109.2397-2-15-						0-W07120	23010	596	4590	55	-2	6.1	4.5	-255	-1	-1	8.0	2880	48	2.8	78	0.341
56-43.2160-109.1992-2-15-						0-W07121	25470	412	6249	43	-2	7.4	4.3	-210	-1	-1	8.1	2795	58	-2.0	80	0.288
56-43.2156-109.1975-2-12-						0-W07122	21740	326	7970	-36	-3	7.6	5.4	-279	-1	-1	13.1	4174	69	3.3	53	0.214
56-43.2442-109.2019-2-15-						0-W07123	23710	567	10870	59	-3	12.0	4.6	-261	-1	-1	10.8	3467	90	3.5	-44	0.215
56-43.2433-109.2017-2-15-						0-W07124	25270	545	10470	61	-2	10.6	6.0	-240	-1	-1	18.2	6374	110	4.2	61	0.183
56-43.2094-109.1675-2-99-						0-W07125	21990	553	11040	-33	-3	11.7	6.3	-275	-1	-1	17.7	5372	92	3.2	-41	0.227
56-43.2139-109.1286-2-15-						0-W07126	26720	596	12010	-32	-3	12.2	6.7	-270	-1	-1	21.4	6843	112	4.5	-59	0.177
56-43.2244-109.1331-2-15-						0-W07127	24910	605	14280	-30	-3	13.8	7.5	-284	-1	-1	32.8	8457	131	7.1	85	0.146
56-43.2381-109.1292-2-15-						0-W07128	26270	776	14690	-33	-3	16.2	9.5	-345	2	-1	36.0	9781	152	5.2	-40	0.162
56-43.2378-109.1275-2-15-						0-W07129	28560	485	13570	33	-3	12.9	5.1	-270	-1	-1	14.9	4347	99	3.6	84	0.252
56-43.2211-108.9992-2-15-						0-W07130	23020	532	18440	52	-2	8.9	7.2	628	-1	-1	16.1	3988	67	4.0	-35	0.224
56-43.2125-108.9536-2-15-						0-W07132	21830	496	16840	46	-2	9.5	6.2	-251	-1	-1	17.7	4067	70	3.8	100	0.246
56-43.1897-109.0103-2-15-						0-W07133	25200	450	17390	-27	-2	9.0	5.0	654	-1	-1	11.2	3052	64	3.2	78	0.262
56-43.1886-109.0092-2-15-						0-W07134	28220	520	15580	60	-2	9.7	5.6	581	-1	-1	12.9	3317	68	3.1	119	0.267
56-43.1383-108.9386-2-15-						0-W07135	19100	353	11710	53	-2	7.4	6.4	-217	-1	-1	14.8	2396	61	2.2	-25	0.232
56-43.2032-108.8775-2-15-						0-W07136	22820	243	9055	49	-2	6.0	5.0	-176	-1	-1	15.1	3183	73	3.9	54	0.289

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.2136-108.9253-2-15-						0-W07137-10/02/79-18-			15-		-0-	-	-	-	-	8-1-6-4-6-	-1-	-3-4-2-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.19
56-43.3536-108.8950-2-15-						0-W07138-10/04/79-11-			17-		-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.42
56-43.3411-108.8947-2-15-						0-W07139-10/04/79-11-			20-		-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.66
56-43.3308-108.8931-2-15-						0-W07140-10/04/79-11-			22-		-0-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.74
56-43.3111-108.8950-2-15-						0-W07141-10/04/79-11-			23-		-	-	-	-	-	8-1-7-4-7-	-1-	-3-4-2-1-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.49
56-43.0531-108.8956-2-15-						0-W07142-10/01/79-11-			32-		-	-	-	-	-	14-1-1-4-4-	-1-	-2-3-1-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.56
56-43.0872-108.9361-2-15-						0-W07143-10/01/79-11-			32-		-	-	-	-	-	16-1-6-5-6-	-1-	-2-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.47
56-43.0922-108.9189-2-11-						0-W07144-10/01/79-12-			32-	15.2-	-	-	7.0-	-	750-	10-1-6-5-6-2-2-1-	-2-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.91
56-43.0756-108.9372-2-15-						0-W07145-10/01/79-12-			33-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-2-1-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.30
56-43.1242-108.9597-2-12-						0-W07146-10/01/79-13-			34-	14.9-	-0-	-	7.5-	-	700-	8-1-6-5-6-2-2-1-	2-2-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.93
56-43.1122-108.9706-2-15-						0-W07147-10/01/79-13-			33-		-	-	-	-	-	14-1-6-5-6-	-1-	-2-3-1-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.12
56-43.1453-109.1522-2-15-						0-W07149-10/01/79-14-			34-		-0-	-	-	-	-	8-1-6-5-6-	-1-	-2-2-1-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.55
56-43.1444-109.1522-2-12-						0-W07150-10/01/79-14-			34-	13.1-	-0-	-	7.5-	-	330-	8-1-6-5-6-2-2-1-	2-2-2-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.02
56-43.1128-109.2225-2-12-						0-W07152-10/01/79-15-			30-	6.0-	-	-	7.8-	-	70-	8-2-7-4-6-3-3-1-	2-1-2-5-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.27
56-43.1119-109.2217-2-12-						0-W07153-10/01/79-16-			30-	5.5-	-	-	7.6-	-	150-	16-2-7-5-8-3-3-1-	2-1-3-5-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.50
56-43.1436-109.1572-2-15-						0-W07154-10/01/79-16-			32-		-	-	-	-	-	8-1-7-5-6-	-1-	-2-3-2-5-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.33
56-43.2747-109.0339-2-15-						0-W07155-10/02/79- 9-			25-		-	-	-	-	-	16-1-6-4-1-	-1-	-1-3-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.69
56-43.3019-109.0136-2-15-						0-W07156-10/02/79- 9-			28-		-	-	-	-	-	10-1-6-5-1-	-1-	-2-3-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.51
56-43.3078-109.0261-2-15-						0-W07157-10/02/79- 9-			29-		-	-	-	-	-	14-1-6-5-6-	-1-	-2-3-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.49
56-43.3178-109.0658-2-15-						0-W07158-10/02/79-10-			28-		-	-	-	-	-	12-1-6-5-6-	-1-	-2-3-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.76
56-43.3361-109.0867-2-15-						0-W07159-10/02/79-10-			30-		-	-	-	-	-	8-1-6-4-1-	-1-	-2-3-1-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29
56-43.3361-109.0856-2-15-						0-W07160-10/02/79-10-			30-		-	-	-	-	-	4-1-6-4-1-	-1-	-2-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.93
56-43.3600-109.1194-2-15-						0-W07161-10/02/79-11-			30-		-	-	-	-	-	8-4-6-5-1-	-1-	-2-3-1-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.82
56-43.3603-109.1181-2-15-						0-W07162-10/02/79-11-			30-		-	-	-	-	-	10-4-6-4-6-	-1-	-2-3-1-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.68
56-43.3303-109.0350-2-15-						0-W07163-10/02/79-11-			32-		-	-	-	-	-	6-4-6-4-6-	-1-	-2-3-1-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.77
56-43.3717-109.0331-2-15-						0-W07164-10/02/79-12-			30-		-	-	-	-	-	13-1-1-4-1-	-1-	-2-3-1-3-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.28
56-43.3767-109.0283-2-15-						0-W07165-10/02/79-12-			30-		-	-	-	-	-	12-1-1-5-1-	-1-	-2-3-1-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.63
56-43.3869-109.0300-2-15-						0-W07166-10/02/79-13-			30-		-	-	-	-	-	10-1-1-5-1-	-1-	-2-3-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.01
56-43.3911-109.0361-2-15-						0-W07167-10/02/79-13-			30-		-	-	-	-	-	10-1-1-5-1-	-1-	-2-3-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.76
56-43.3953-109.0447-2-15-						0-W07168-10/02/79-13-			30-		-	-	-	-	-	13-4-6-5-6-	-1-	-2-3-1-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.83
56-43.4161-109.0753-2-15-						0-W07169-10/02/79-13-			30-		-	-	-	-	-	14-4-6-5-6-	-1-	-2-3-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.29
56-43.4272-109.0983-2-15-						0-W07170-10/02/79-14-			30-		-	-	-	-	-	16-4-4-5-4-	-1-	-2-3-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.81
56-43.4378-109.0936-2-15-						0-W07171-10/02/79-14-			30-		-	-	-	-	-	14-4-6-5-6-	-1-	-2-3-1-2-2-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.04
56-43.4819-109.1228-2-15-						0-W07173-10/02/79-15-			30-		-	-	-	-	-	8-1-6-5-6-	-1-	-1-4-1-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.76
56-43.4503-109.0661-2-15-						0-W07174-10/02/79-15-			30-		-0-	-	-	-	-	6-4-6-5-6-	-1-	-2-3-2-3-1-	-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.31
56-43.4419-109.0456-2-15-						0-W07175-10/02/79-15-			30-		-	-	-	-	-	8-4-6-4-6-	-1-	-2-3-1-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.07
56-43.4703-109.0419-2-15-						0-W07176-10/02/79-16-			30-		-	-	-	-	-	8-1-6-4-6-	-1-	-2-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.53
56-43.4703-109.0403-2-15-						0-W07177-10/02/79-16-			30-		-	-	-	-	-	14-1-6-4-6-	-1-	-2-3-2-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.69
56-43.4244-109.0350-2-15-						0-W07178-10/02/79-16-			30-		-	-	-	-	-	8-1-6-5-6-	-1-	-1-3-1-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.04
56-43.4089-109.0158-2-15-						0-W07179-10/02/79-17-			30-		-	-	-	-	-	10-1-6-5-6-	-1-	-2-3-2-2-1-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.07
56-43.4011-109.0003-2-15-						0-W07180-10/02/79-17-			30-		-	-	-	-	-	12-1-6-5-6-	-1-	-2-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.35
56-43.3889-108.9931-2-15-						0-W07181-10/02/79-17-			30-		-	-	-	-	-	8-1-6-5-4-	-1-	-2-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.63
56-43.5211-108.9561-2-15-						0-W07182-10/04/79-12-			26-		-	-	-	-	-	22-1-6-4-6-	-1-	-2-3-1-3-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.67
56-43.5261-108.9817-2-15-						0-W07183-10/04/79-12-			26-		-0-	-	-	-	-	6-1-6-5-1-	-1-	-1-3-1-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.67
56-43.5278-108.9814-2-15-						0-W07184-10/04/79-12-			27-		-	-	-	-	-	18-1-6-5-6-	-1-	-2-3-1-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.58
56-43.5461-108.9614-2-12-						0-W07185-10/04/79-13-			28-	13.2-	-0-	-	7.8-	-	1500-	4-1-6-5-6-2-2-1-	2-3-1-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.01
56-43.4786-108.8911-2-15-						0-W07186-10/04/79-13-			30-		-	-	-	-	-	20-1-6-5-6-	-1-	-2-3-1-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.68
56-43.4358-108.8783-2-15-						0-W07187-10/04/79-13-			30-		-	-	-	-	-	14-1-7-4-6-	-1-	-2-3-2-2-1-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.34
56-43.4361-108.9475-2-15-						0-W07188-10/04/79-14-			30-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.61
56-43.4364-108.9461-2-15-						0-W07189-10/04/79-14-			30-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
56-43.4358-108.9200-2-15-						0-W07190-10/04/79-14-			31-		-	-	-	-	-	12-1-1-4-6-	-1-	-2-3-1-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.42

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.2136-108.9253-2-15-						0-W07137	-5	-5	-5	18	-20	30	16	-10	-15	3	42
56-43.2536-108.8950-2-15-						0-W07138	-5	-5	-5	32	-20	24	14	-10	-15	3	39
56-43.3411-108.8947-2-15-						0-W07139	-5	-5	-5	27	-20	42	22	-10	-15	4	53
56-43.3308-108.8931-2-15-						0-W07140	-5	-5	-5	20	-20	33	9	-10	-15	3	33
56-43.3111-108.8950-2-15-						0-W07141	-5	9	-5	21	-20	17	14	-10	-15	3	34
56-43.0531-108.8956-2-15-						0-W07142	-5	6	-5	21	-20	19	7	-10	-15	2	21
56-43.0872-108.9361-2-15-						0-W07143	-5	7	-5	25	-20	19	17	-10	-15	3	32
56-43.0822-108.9189-2-11-						0-W07144	-5	-5	-5	30	-20	-15	-5	-10	-15	1	31
56-43.0756-108.9372-2-15-						0-W07145	-5	6	-5	19	-20	22	15	-10	-15	2	38
56-43.1242-108.9597-2-12-						0-W07146	-5	-5	-5	14	-20	17	7	-10	-15		
56-43.1122-108.9706-2-15-						0-W07147	-5	-5	-5	21	-20	31	11	-10	-15	3	31
56-43.1453-109.1522-2-15-						0-W07149	-5	5	-5	21	-20	-15	7	-10	-15	2	27
56-43.1444-109.1522-2-12-						0-W07150	-5	-5	-5	24	-20	-15	5	-10	-15	1	21
56-43.1128-109.2225-2-12-						0-W07152	-5	8	-5	37	-20	42	10	-10	-15	2	49
56-43.1119-109.2217-2-12-						0-W07153	-5	-5	-5	18	-20	18	8	-10	-15	3	34
56-43.1436-109.1972-2-15-						0-W07154	-5	8	-5	19	-20	-15	16	-10	-15	2	24
56-43.2747-109.0339-2-15-						0-W07155	-5	-5	-5	22	-20	39	14	-10	-15	2	32
56-43.3019-109.0136-2-15-						0-W07156	-5	-5	-5	22	-20	17	14	-10	-15	3	36
56-43.3078-109.0261-2-15-						0-W07157	-5	-5	-5	21	-20	18	20	-10	-15	2	30
56-43.3179-109.0658-2-15-						0-W07158	-5	-5	-5	30	-20	19	14	-10	-15	3	45
56-43.3361-109.0867-2-15-						0-W07159	-5	-5	-5	22	-20	16	11	-10	-15	3	30
56-43.3361-109.0856-2-15-						0-W07160	-5	-5	-5	16	-20	20	8	-10	-15	3	27
56-43.3600-109.1194-2-15-						0-W07161	-5	-5	-5	23	-20	-15	-5	-10	-15	2	20
56-43.3603-109.1181-2-15-						0-W07162	-5	-5	-5	14	-20	-15	8	-10	-15	2	24
56-43.3303-109.0350-2-15-						0-W07163	-5	-5	-5	16	-20	-15	13	-10	-15	3	24
56-43.3717-109.0331-2-15-						0-W07164	-5	-5	-5	23	-20	-15	-5	-10	-15	3	24
56-43.3767-109.0283-2-15-						0-W07165	-5	-5	-5	48	-20	34	20	-10	-15	3	36
56-43.3869-109.0300-2-15-						0-W07166	-5	-5	-5	36	-20	31	22	-10	18	2	35
56-43.3911-109.0361-2-15-						0-W07167	-5	-5	-5	26	-20	27	19	-10	-15	2	29
56-43.3953-109.0447-2-15-						0-W07168	-5	-5	-5	33	-20	49	21	-10	16	3	42
56-43.4161-109.0753-2-15-						0-W07169	-5	-5	-5	21	-20	43	33	-10	-15	3	27
56-43.4372-109.0983-2-15-						0-W07170	-5	-5	-5	37	-20	32	26	-10	-15	2	36
56-43.4378-109.0936-2-15-						0-W07171	-5	-5	-5	28	-20	38	27	-10	-15	3	37
56-43.4819-109.1228-2-15-						0-W07172	-5	-5	-5	33	-20	44	38	-10	-15	2	46
56-43.4503-109.0661-2-15-						0-W07174	-5	-5	-5	18	-20	30	21	-10	-15	2	39
56-43.4419-109.0456-2-15-						0-W07175	-5	-5	-5	30	-20	-15	14	-10	-15	2	14
56-43.4703-109.0419-2-15-						0-W07176	-5	-5	-5	16	-20	-15	12	-10	-15	2	21
56-43.4703-109.0403-2-15-						0-W07177	-5	-5	-5	-10	-20	30	12	-10	-15	2	18
56-43.4244-109.0350-2-15-						0-W07178	-5	5	-5	20	-20	22	14	-10	-15	1	20
56-43.4089-109.0158-2-15-						0-W07179	-5	-5	-5	31	-20	37	15	-10	-15	2	30
56-43.4011-109.0003-2-15-						0-W07180	-5	-5	-5	16	-20	24	15	-10	-15	2	18
56-43.3889-108.9531-2-15-						0-W07181	-5	-5	-5	13	-20	18	18	-10	-15	2	20
56-43.5211-108.9561-2-15-						0-W07182	-5	-5	-5	13	-20	-15	13	-10	-15	3	31
56-43.5261-108.9817-2-15-						0-W07183	-5	8	5	-10	-20	16	-5	-10	26	1	16
56-43.5278-108.9814-2-15-						0-W07184	-5	-5	-5	28	-20	-15	13	10	-15	3	26
56-43.5461-108.9614-2-12-						0-W07185	-5	-5	-5	20	-20	26	11	-10	-15	3	20
56-43.4786-108.8911-2-15-						0-W07186	-5	-5	-5	20	-20	-15	5	-10	-15	2	22
56-43.4358-108.8783-2-15-						0-W07187	-5	-5	-5	16	-20	-15	8	-10	-15	3	26
56-43.4361-108.9475-2-15-						0-W07188	-5	-5	-5	17	-20	-15	-5	-10	17	2	12
56-43.4364-108.9461-2-15-						0-W07189	-5	-5	-5	14	-20	-15	7	-10	-15	2	15
56-43.4358-108.9200-2-15-						0-W07190	-5	-5	-5	12	-20	-15	9	-10	-15	2	22

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.2176-	108.9253-	2-	15-	0-	W07137	63580	-0.10	644	28200	87	-93	12.5	115	3.6	4	1.4	29860	13.7	15700	55	0.4
56-	43.3536-	108.8950-	2-	15-	0-	W07138	57760	-0.08	635	33070	80	-83	8.9	97	4.1	4	1.4	23360	10.8	20950	39	0.4
56-	43.3411-	108.8947-	2-	15-	0-	W07139	64190	-0.11	641	23000	65	-84	11.6	105	3.8	4	1.2	23530	6.7	17980	26	0.3
56-	43.3308-	108.8931-	2-	15-	0-	W07140	57360	-0.09	626	13000	59	-77	7.5	82	3.6	4	1.3	21270	10.4	18660	31	0.3
56-	43.3111-	108.8950-	2-	15-	0-	W07141	52730	-0.09	540	18710	75	-72	7.0	69	4.2	5	1.3	22050	10.2	18760	45	0.5
56-	43.0531-	108.8956-	2-	15-	0-	W07142	40870	-0.08	473	17470	63	-65	6.4	47	1.8	3	1.4	19960	16.8	16040	35	0.4
56-	43.0872-	108.9361-	2-	15-	0-	W07143	66620	-0.11	655	19890	124	128	9.9	83	-1.8	5	1.8	24710	14.1	21850	64	0.4
56-	43.0822-	108.9189-	2-	11-	0-	W07144	50610	-0.14	507	37670	70	-110	9.5	54	-2.1	4	1.4	68450	6.4	12320	42	0.3
56-	43.0756-	108.9372-	2-	15-	0-	W07145	61120	-0.10	615	17150	101	-90	8.7	115	1.7	5	1.7	30160	22.2	20470	61	0.5
56-	43.1242-	108.9597-	2-	12-	0-	W07146	48080	-0.09	369	36460	62	-79	7.7	64	-1.5	4	1.5	19310	14.4	17800	46	0.4
56-	43.1122-	108.9706-	2-	15-	0-	W07147	67470	-0.11	643	15280	90	-78	9.1	71	1.6	4	1.5	27080	10.0	16310	44	0.3
56-	43.1453-	109.1522-	2-	15-	0-	W07149	38890	-0.08	406	22760	52	-58	4.6	53	2.8	4	1.0	16600	5.9	19420	26	0.3
56-	43.1444-	109.1522-	2-	12-	0-	W07150	31680	-0.17	339	38180	62	140	4.3	63	-1.2	5	1.1	15290	26.5	17880	-36	0.3
56-	43.1128-	109.2225-	2-	12-	0-	W07152	55230	-0.13	561	12450	125	-88	11.2	128	3.0	8	2.0	28380	28.9	20640	65	0.7
56-	43.1119-	109.2217-	2-	12-	0-	W07153	58740	-0.14	606	10540	104	-61	6.0	89	3.6	8	1.9	22100	25.0	42710	52	0.7
56-	43.1436-	109.1972-	2-	15-	0-	W07154	41010	-0.08	551	20990	46	81	4.6	46	3.1	3	1.0	16140	9.3	18930	28	0.2
56-	43.2747-	109.0339-	2-	15-	0-	W07155	61920	-0.10	696	18770	88	-88	10.0	99	2.4	5	1.5	26480	11.0	16220	49	0.4
56-	43.3019-	109.0136-	2-	15-	0-	W07156	60560	-0.09	614	17080	68	-86	10.0	70	4.4	4	1.4	25410	8.2	21050	38	0.3
56-	43.3078-	109.0261-	2-	15-	0-	W07157	61760	-0.11	502	9488	86	-81	8.1	72	5.1	3	1.7	22120	8.9	22100	44	0.3
56-	43.3178-	109.0658-	2-	15-	0-	W07158	61360	-0.09	662	27820	62	85	8.8	55	5.5	5	1.2	24350	5.3	22080	31	0.3
56-	43.3361-	109.0867-	2-	15-	0-	W07159	54830	-0.10	687	23220	78	-69	8.2	71	4.5	5	1.4	23600	9.1	22210	44	0.5
56-	43.3361-	109.0856-	2-	15-	0-	W07160	40780	-0.08	530	25050	85	-83	5.9	46	3.2	5	1.4	19000	12.8	19040	51	0.4
56-	43.3600-	109.1194-	2-	15-	0-	W07161	48290	-0.10	525	20190	110	-77	4.8	59	2.8	5	1.6	18430	18.5	20760	65	0.5
56-	43.3603-	109.1181-	2-	15-	0-	W07162	52620	-0.08	645	23860	68	-73	5.1	46	3.3	4	1.2	16580	8.9	18980	42	0.3
56-	43.3303-	109.0350-	2-	15-	0-	W07163	52560	-0.09	651	9607	81	-75	6.7	62	3.7	4	1.3	21190	11.3	25400	36	0.3
56-	43.3717-	109.0331-	2-	15-	0-	W07164	53220	-0.08	645	16470	62	-83	6.4	51	3.7	3	1.2	19750	7.5	23410	36	0.4
56-	43.3767-	109.0283-	2-	15-	0-	W07165	57180	-0.12	518	36020	62	289	6.5	57	4.5	3	1.4	21100	6.1	22920	32	0.3
56-	43.3869-	109.0300-	2-	15-	0-	W07166	55180	-0.09	640	39420	54	-66	4.5	50	4.2	4	1.1	19010	6.4	18980	33	0.3
56-	43.3911-	109.0361-	2-	15-	0-	W07167	48730	-0.09	522	37350	54	-53	4.7	50	3.6	3	1.0	18750	6.3	17180	29	0.2
56-	43.3953-	109.0447-	2-	15-	0-	W07168	60380	-0.09	601	26810	66	-77	9.6	54	5.4	4	1.2	24580	5.8	19720	39	0.2
56-	43.4161-	109.0753-	2-	15-	0-	W07169	61700	-0.05	491	21300	84	-75	8.2	64	5.5	5	1.3	25620	10.3	21870	44	0.4
56-	43.4372-	109.0983-	2-	15-	0-	W07170	56530	-0.04	561	28390	71	-74	6.1	55	5.1	4	1.5	21650	8.0	21260	33	0.4
56-	43.4378-	109.0936-	2-	15-	0-	W07171	67180	-0.04	610	21740	76	-76	9.0	60	4.6	4	1.3	25630	8.0	18730	44	0.3
56-	43.4819-	109.1228-	2-	15-	0-	W07172	56870	-0.05	763	18280	61	-59	7.0	61	5.8	4	1.6	20670	5.8	15410	30	0.3
56-	43.4503-	109.0661-	2-	15-	0-	W07174	45330	-0.04	1917	25150	53	-54	8.2	62	3.4	3	1.5	24440	6.6	17420	29	0.3
56-	43.4419-	109.0456-	2-	15-	0-	W07175	29490	-0.03	421	47700	42	72	3.0	26	1.8	3	1.0	10670	10.1	13020	26	0.3
56-	43.4703-	109.0419-	2-	15-	0-	W07176	37990	-0.03	407	41800	53	106	4.9	35	2.1	3	1.1	14000	11.3	16560	31	0.3
56-	43.4703-	109.0403-	2-	15-	0-	W07177	38960	-0.04	515	48660	58	-65	2.6	35	2.8	4	1.1	12430	13.7	16600	32	0.3
56-	43.4244-	109.0350-	2-	15-	0-	W07178	36220	-0.04	462	52980	46	-51	2.9	35	2.7	3	1.0	13460	6.7	16020	24	0.3
56-	43.4089-	109.0158-	2-	15-	0-	W07179	40220	-0.04	562	37120	52	70	6.0	60	4.3	3	1.2	18480	7.6	17340	30	0.3
56-	43.4011-	109.0003-	2-	15-	0-	W07180	37710	-0.03	533	30120	52	-51	4.2	45	2.5	3	1.0	14170	11.0	16010	32	0.3
56-	43.3889-	108.9931-	2-	15-	0-	W07181	42770	-0.04	675	28000	60	-68	4.1	42	2.9	4	1.3	13880	10.9	18260	29	0.3
56-	43.5211-	108.9561-	2-	15-	0-	W07182	51360	-0.03	836	13790	74	-68	2.1	18	2.8	4	1.4	12110	18.3	17730	42	0.4
56-	43.5261-	108.9817-	2-	15-	0-	W07183	30270	-0.03	486	38320	36	-55	2.4	23	1.8	3	0.9	9875	5.1	12320	16	0.2
56-	43.5278-	108.9814-	2-	15-	0-	W07184	55800	-0.20	622	8513	73	-77	3.7	33	4.6	5	1.2	12100	6.1	21670	-37	0.3
56-	43.5461-	108.9614-	2-	12-	0-	W07185	56190	-0.18	524	24990	55	-70	3.2	31	3.0	4	1.2	14960	6.9	20390	41	0.4
56-	43.4786-	108.8911-	2-	15-	0-	W07186	54380	-0.17	559	13320	54	-55	3.6	27	4.0	4	1.0	16080	7.6	19640	-27	0.4
56-	43.4358-	108.8783-	2-	15-	0-	W07187	48420	-0.14	717	10430	58	-64	3.8	24	3.1	4	1.3	10550	9.7	18620	-33	0.3
56-	43.4361-	108.9475-	2-	15-	0-	W07188	29170	-0.16	545	22810	46	-34	2.8	38	2.4	4	1.1	9535	19.8	10580	-30	0.3
56-	43.4364-	108.9461-	2-	15-	0-	W07189	34080	-0.14	540	30630	40	136	2.4	27	2.4	3	1.0	9675	7.2	13360	-22	0.2
56-	43.4358-	108.9200-	2-	15-	0-	W07190	41320	-0.16	896	21170	47	-59	3.7	26	2.1	4	1.2	13510	11.5	13240	33	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.2136-108.9253-2-15-						0-W07137	25120	514	14480	57	-2	9.6	6.8	-296	-1	-1	20.4	4242	73	3.1	109	0.265
56-43.3536-108.8950-2-15-						0-W07138	20270	515	13910	74	-2	7.0	4.9	541	-1	-1	13.0	3766	50	4.2	60	0.263
56-43.3411-108.8947-2-15-						0-W07139	36800	475	12440	-33	-3	8.6	5.0	310	-1	-1	10.8	3673	63	-2.7	57	0.339
56-43.3308-108.8931-2-15-						0-W07140	23810	431	13960	65	-2	8.0	5.2	-235	-1	-1	11.4	2978	52	3.1	58	0.328
56-43.3111-108.8950-2-15-						0-W07141	22510	413	6952	64	-2	7.1	5.7	-267	-1	-1	16.3	3082	68	3.4	90	0.275
56-43.0531-108.8966-2-15-						0-W07142	12440	298	6230	54	-2	5.7	4.4	-202	-1	-1	15.8	3011	53	4.7	-30	0.225
56-43.0872-108.9361-2-15-						0-W07143	14360	394	14810	50	-3	7.6	9.9	-259	-1	-1	29.5	5012	64	5.6	65	0.152
56-43.0822-108.9189-2-11-						0-W07144	14800	1010	10830	-47	-3	6.2	4.2	-430	-2	-1	16.2	2827	63	-3.3	-65	0.303
56-43.0756-108.9372-2-15-						0-W07145	16460	446	13610	50	-2	8.8	9.4	-281	-1	-1	31.6	5355	77	5.2	75	0.168
56-43.1242-108.9597-2-12-						0-W07146	20720	410	10550	55	-2	6.7	4.3	562	-1	-1	11.8	3033	52	4.1	54	0.333
56-43.1122-108.9706-2-15-						0-W07147	16340	375	13140	57	-3	8.1	6.3	-240	-1	-1	18.0	3616	67	3.7	46	0.229
56-43.1453-109.1522-2-15-						0-W07149	22170	437	5746	-23	-2	5.7	4.0	-222	-1	-1	8.1	2568	42	3.3	53	0.315
56-43.1444-109.1522-2-12-						0-W07150	35600	342	3455	52	-4	5.7	6.6	-183	-1	1	17.3	2622	35	4.8	36	0.232
56-43.1128-109.2225-2-12-						0-W07152	15070	491	7923	75	-3	12.0	11.8	-332	-2	-1	31.4	4269	70	5.5	105	0.200
56-43.1119-109.2217-2-12-						0-W07153	15610	323	4404	109	-3	9.3	11.5	-234	-2	-1	26.8	3159	49	7.3	-47	0.243
56-43.1436-109.1972-2-15-						0-W07154	22750	424	5816	43	-2	5.7	3.0	-229	-1	-1	7.3	2848	49	3.0	-68	0.319
56-43.2747-109.0339-2-15-						0-W07155	26820	498	15670	56	-3	8.6	6.6	345	-1	-1	21.3	3848	68	4.3	76	0.173
56-43.3019-109.0136-2-15-						0-W07156	20930	495	10050	69	-2	8.2	5.2	-297	-1	-1	13.7	2708	57	3.1	87	0.256
56-43.3078-109.0261-2-15-						0-W07157	21160	520	11060	80	-3	7.4	5.1	-264	-1	-1	13.2	3225	54	3.3	-69	0.264
56-43.3178-109.0658-2-15-						0-W07158	22360	487	8513	86	-2	7.8	4.6	-249	-1	-1	11.3	3459	60	3.4	-88	0.333
56-43.3361-109.0867-2-15-						0-W07159	18360	456	8464	61	-3	7.4	6.1	-246	-1	-1	16.1	3370	49	3.6	76	0.266
56-43.3361-109.0856-2-15-						0-W07160	13410	435	11810	58	-2	5.9	5.9	-272	-1	-1	14.4	2658	41	3.8	61	0.342
56-43.3600-109.1194-2-15-						0-W07161	14410	435	11780	58	-2	5.6	7.9	-237	-1	-1	20.9	3225	45	4.7	-12	0.231
56-43.3603-109.1181-2-15-						0-W07162	16250	404	10970	68	-2	5.6	4.7	-234	-1	-1	12.3	3482	43	3.9	45	0.299
56-43.3303-109.0350-2-15-						0-W07163	15680	458	11820	65	-2	6.6	6.5	-244	-1	-1	16.6	2505	50	4.0	-48	0.236
56-43.3717-109.0331-2-15-						0-W07164	15650	339	11980	53	-2	6.0	4.7	-261	-1	-1	12.2	2682	39	3.2	80	0.269
56-43.3767-109.0283-2-15-						0-W07165	25090	430	8048	69	-3	6.8	4.1	-263	-1	-1	11.3	2353	54	-2.8	71	0.321
56-43.3869-109.0300-2-15-						0-W07166	23100	372	7820	65	-2	6.3	5.5	314	-1	-1	10.6	2653	64	-1.7	-64	0.378
56-43.3911-109.0361-2-15-						0-W07167	24060	303	5755	70	-2	6.0	4.1	-181	-1	-1	11.1	2601	67	2.8	-49	0.339
56-43.3953-109.0447-2-15-						0-W07168	21480	400	9163	96	-2	7.3	4.8	-266	-1	-1	11.6	3097	48	3.4	103	0.330
56-43.4161-109.0753-2-15-						0-W07169	20490	436	9850	102	1	7.8	7.4	-244	-1	-1	17.1	2803	62	3.0	54	0.251
56-43.4372-109.0983-2-15-						0-W07170	18300	384	9629	77	-1	6.5	5.2	-242	-1	-1	14.1	2779	42	2.5	-43	0.199
56-43.4378-109.0936-2-15-						0-W07171	18900	379	10460	62	-1	7.5	6.2	-238	-1	-1	22.9	2570	50	3.1	94	0.176
56-43.4819-109.1228-2-15-						0-W07173	17950	228	5107	65	-1	7.6	6.4	-213	2	-1	10.9	2929	119	3.2	-16	0.345
56-43.4503-109.0661-2-15-						0-W07174	18420	271	5297	63	-1	7.0	4.8	-185	-1	-1	10.2	2696	111	2.1	84	0.325
56-43.4419-109.0456-2-15-						0-W07175	28430	229	3325	-19	-1	3.6	3.8	-169	-1	-1	9.7	1963	41	2.4	69	0.316
56-43.4703-109.0419-2-15-						0-W07176	24720	223	5829	40	-1	4.3	4.5	-177	-1	-1	16.4	2140	43	2.2	-42	0.215
56-43.4703-109.0403-2-15-						0-W07177	28520	255	4395	-21	-1	3.8	5.8	-219	-1	-1	18.6	2070	38	3.4	-42	0.198
56-43.4244-109.0350-2-15-						0-W07178	30630	278	3544	53	-1	4.7	4.1	-186	-1	-1	8.6	2112	50	2.1	70	0.353
56-43.4089-109.0158-2-15-						0-W07179	25230	321	6627	61	-1	5.7	4.3	-218	-1	-1	12.4	2711	58	2.3	65	0.328
56-43.4011-109.0003-2-15-						0-W07180	30280	258	6533	49	-1	4.4	4.6	-174	-1	-1	15.2	2074	44	2.2	52	0.220
56-43.3889-108.9531-2-15-						0-W07181	12280	340	5724	54	-1	4.7	4.7	-248	-1	-1	14.5	2407	46	2.8	-32	0.250
56-43.5211-108.9561-2-15-						0-W07182	5500	236	12440	59	-1	3.8	5.6	326	-1	-1	12.5	2597	32	3.7	32	0.374
56-43.5261-108.9817-2-15-						0-W07183	13030	208	7457	40	-1	3.4	3.3	-168	-1	-1	5.0	1843	31	2.0	-28	0.334
56-43.5278-108.9814-2-15-						0-W07184	5986	367	10150	75	-5	4.1	7.3	-245	-1	-1	15.3	2064	45	7.2	85	0.365
56-43.5461-108.9614-2-12-						0-W07185	13220	327	10590	62	-4	5.1	5.3	-209	-1	-1	12.0	2348	42	3.0	82	0.334
56-43.4786-108.8911-2-15-						0-W07186	6938	269	7233	73	-4	5.1	5.7	191	-1	-1	12.9	2562	47	4.3	74	0.363
56-43.4358-108.8783-2-15-						0-W07187	5204	277	11420	61	-4	3.5	6.3	264	1	-1	11.6	2153	34	2.4	-16	0.374
56-43.4361-108.9475-2-15-						0-W07188	16800	212	1444	45	-4	3.6	3.7	-154	-1	-1	8.7	2108	47	-2.4	44	0.415
56-43.4364-108.9461-2-15-						0-W07189	17100	228	4613	53	-3	3.7	4.9	-152	-1	-1	6.3	2068	49	2.6	-40	0.460
56-43.4358-108.9200-2-15-						0-W07190	6735	327	8209	41	-4	4.1	5.0	300	-1	-1	8.0	1882	28	4.5	47	0.428

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.4386-	108.8214-	2-	12-		0-W07191-	10/04/79-	14-	32-	21.5-	0-	-	7.8-	4500-	8-1-6-5-6-2-2-1-2-3-1-3-1-														-3-	-	-	-	-	2.09
56-	43.3211-	109.3075-	2-	12-		0-W07192-	09/30/79-	10-	24-	15.1-	0-	-	7.7-	1290-	14-3-7-5-7-2-2-1-2-3-3-4-2-														-3-	-	-	-	-	2.54
56-	43.3219-	109.3083-	2-	15-		0-W07194-	09/30/79-	10-	24-	-	-	-	-	-	16-3-7-4-6- -1- -2-3-3-4-2-														-1-	-	-	-	-	2.33
56-	43.3372-	109.2667-	2-	12-		0-W07195-	09/30/79-	11-	25-	14.8-	0-	-	7.9-	490-	15-3-7-5-8-3-3-1-2-2-3-3-2-														-3-	-	-	-	-	5.70
56-	43.3197-	109.2794-	2-	11-		0-W07196-	09/30/79-	12-	26-	21.2-	0-	-	7.1-	2490-	12-3-7-5-6-2-2-1- -3-3-4-2-														-3-	-	-	-	-	2.74
56-	43.2839-	109.2544-	2-	12-		0-W07197-	09/30/79-	13-	25-	17.3-	-	-	7.8-	185-	10-3-7-4-6-3-3-1-2-3-3-4-2-														-1-	-	-	-	-	2.10
56-	43.2844-	109.2553-	2-	12-		0-W07198-	09/30/79-	13-	25-	14.0-	0-	-	7.8-	500-	9-3-7-4-6-3-3-1-2-3-3-4-2-														-9-	-	-	-	-	2.76
56-	43.2822-	109.2908-	2-	12-		0-W07199-	09/30/79-	14-	25-	13.8-	-	-	7.9-	450-	6-1-4-5-8-3-3-1-2-3-3-4-2-														-1-	-	-	-	-	2.60
56-	43.2833-	109.3128-	2-	15-		0-W07200-	09/30/79-	14-	25-	-	-	-	-	-	14-1-4-4-4- -1- -2-3-3-4-2-														-1-	-	-	-	-	2.60
56-	43.2831-	109.1833-	2-	12-		0-W07202-	09/30/79-	16-	24-	17.8-	0-	-	7.8-	279-	9-3-7-5-6-3-3-1-2-3-3-4-2-														-3-	-	-	-	-	4.97
56-	43.2747-	109.2033-	2-	15-		0-W07203-	09/30/79-	16-	25-	-	-	-	-	-	13-3-7-4-6- -1- -2-3-3-3-2-														-1-	-	-	-	-	2.96
56-	43.2719-	109.2078-	2-	12-		0-W07204-	09/30/79-	16-	25-	16.5-	-	-	7.8-	268-	12-3-7-5-7-3-3-1-2-3-3-4-2-														-1-	-	-	-	-	2.91
56-	43.1917-	109.3075-	2-	11-		0-W07205-	09/30/79-	17-	23-	9.6-	-	-	7.7-	480-	10-3-7-5-6-2-2-1- -1-3-5-2-														-1-	-	-	-	-	2.14
56-	43.1706-	109.3281-	2-	12-		0-W07206-	09/30/79-	18-	23-	9.2-	-	-	7.5-	250-	1-3-7-4-8-3-3-1-2-1-3-5-3-														-1-	-	-	-	-	4.16
56-	43.1719-	109.3269-	2-	11-		0-W07207-	09/30/79-	18-	22-	7.8-	-	-	7.6-	590-	12-3-1-5-6-2-2-1- -1-3-5-3-														-1-	-	-	-	-	1.46
56-	43.2217-	109.2569-	2-	15-		0-W07208-	10/01/79-	11-	24-	-	-	-	-	-	10-3-7-4-6- -1- -2-3-3-4-1-														-1-	-	-	-	-	2.94
56-	43.2206-	109.2572-	2-	12-		0-W07209-	10/01/79-	12-	23-	-	-	-	7.6-	160-	10-3-7-4-6-3-3-1-2-2-2-4-1-														-1-	-	-	-	-	3.87
56-	43.1953-	109.3097-	2-	12-		0-W07210-	10/01/79-	10-	22-	9.4-	-	-	7.6-	42-	-3-7-4-6-3-3-1-2-1-3-5-1-														-1-	-	-	-	-	5.27
56-	43.1958-	109.3106-	2-	12-		0-W07211-	10/01/79-	10-	23-	9.4-	-	-	7.3-	34-	-3-7-4-8-3-3-1-2-1-3-5-1-														-1-	-	-	-	-	4.45
56-	43.2386-	109.2650-	2-	12-		0-W07212-	10/01/79-	12-	24-	16.2-	0-	-	7.9-	480-	16-3-7-5-6-2-2-1-2-3-3-4-2-														-3-	-	-	-	-	2.14
56-	43.2594-	109.2322-	2-	12-		0-W07213-	10/01/79-	13-	24-	15.2-	0-	-	7.8-	590-	8-3-7-5-6-3-3-1-2-3-3-4-2-														-3-	-	-	-	-	2.08
56-	43.2580-	109.2311-	2-	12-		0-W07214-	10/01/79-	13-	25-	14.9-	0-	-	7.7-	240-	10-3-7-5-6-3-3-1-2-3-3-4-2-														-3-	-	-	-	-	2.61
56-	43.2461-	109.3072-	2-	15-		0-W07215-	10/01/79-	15-	24-	-	-	-	-	-	8-3-7-4-6- -1- -2-3-3-4-2-														-1-	-	-	-	-	1.90
56-	43.2281-	109.2686-	2-	11-		0-W07216-	10/01/79-	17-	20-	6.2-	-	-	7.7-	295-	12-3-7-5-8-3-3-1- -1-3-5-2-														-1-	-	-	-	-	2.67
56-	43.2239-	109.2547-	2-	99-		0-W07217-	10/01/79-	17-	22-	-0-	-	-	-	-	12-3-7-4-6- -1- - -1-3-5-2-														-1-	-	-	-	-	2.52
56-	43.2714-	109.2811-	2-	12-		0-W07218-	10/01/79-	19-	20-	11.2-	0-	-	7.7-	175-	10-3-7-5-6-3-3-1-2-3-3-4-2-														-3-	-	-	-	-	3.49
56-	43.2644-	109.3117-	2-	15-		0-W07219-	10/01/79-	19-	20-	-	-	-	-	-	8-3-7-4-6- -1- -2-3-3-4-2-														-1-	-	-	-	-	2.50
56-	43.2619-	109.3314-	2-	12-		0-W07220-	10/01/79-	19-	20-	18.7-	-	-	7.8-	187-	9-3-7-5-8-3-3-1-2-2-2-4-2-														-1-	-	-	-	-	1.94
56-	43.2517-	109.3883-	2-	12-		0-W07221-	10/02/79-	9-	22-	9.6-	-	-	7.2-	58-	-3-7-5-8-3-3-1-2-1-3-5-3-														-1-	-	-	-	-	6.15
56-	43.2691-	109.3592-	2-	12-		0-W07222-	10/02/79-	10-	23-	9.8-	-	-	7.6-	60-	-3-7-4-6-3-3-1-2-1-3-5-3-														-1-	-	-	-	-	5.06
56-	43.2542-	109.3453-	2-	11-		0-W07223-	10/02/79-	11-	23-	9.2-	-	-	7.5-	187-	6-3-7-4-6-3-3-1- -1-3-4-2-														-1-	-	-	-	-	1.30
56-	43.2325-	108.8458-	2-	15-		0-W07224-	10/02/79-	12-	24-	-	-	-	-	-	26-4-6-4-6- -1- -2-3-2-3-2-														-1-	-	-	-	-	3.06
56-	43.2356-	108.8431-	2-	15-		0-W07225-	10/02/79-	12-	24-	-	-	-	-	-	16-4-6-4-6- -1- -2-3-2-3-2-														-1-	-	-	-	-	3.03
56-	43.2331-	108.8222-	2-	15-		0-W07226-	10/02/79-	13-	24-	-	-	-	-	-	16-4-6-4-6- -1- -2-3-3-3-2-														-1-	-	-	-	-	3.36
56-	43.2433-	108.7831-	2-	15-		0-W07227-	10/02/79-	13-	24-	-	-	-	-	-	18-1-6-4-6- -1- -2-3-3-3-2-														-1-	-	-	-	-	3.32
56-	43.2419-	108.7775-	2-	15-		0-W07228-	10/02/79-	13-	24-	-	-	-	-	-	12-1-6-4-6- -1- -2-3-3-3-2-														-1-	-	-	-	-	3.63
56-	43.2428-	108.7731-	2-	15-		0-W07229-	10/02/79-	13-	23-	-	-	-	-	-	11-1-6-4-6- -1- -2-3-3-3-2-														-1-	-	-	-	-	3.42
56-	43.2453-	108.7622-	2-	15-		0-W07230-	10/02/79-	14-	23-	-	-	-	-	-	7-1-6-4-6- -1- -2-3-3-3-2-														-1-	-	-	-	-	3.46
56-	43.1778-	108.6658-	2-	15-		0-W07235-	10/02/79-	16-	23-	-	-	-	-	-	13-3-7-4-7- -1- -2-3-3-3-2-														-1-	-	-	-	-	3.27
56-	43.1389-	108.6253-	2-	15-		0-W07236-	10/02/79-	16-	22-	-	-	-	-	-	11-3-7-4-7- -1- -2-3-3-3-2-														-1-	-	-	-	-	3.59
56-	43.0964-	108.5586-	2-	15-		0-W07239-	10/02/79-	17-	20-	-	-	-	-	-	11-4-6-4-7- -1- -2-3-3-3-2-														-1-	-	-	-	-	3.67
56-	43.4806-	108.9878-	2-	11-		0-W07242-	10/04/79-	15-	32-	15.5-	-	-	7.9-	1700-	4-1-6-4-7-2-2-1- -3-2-3-1-														-4-	-	-	-	-	1.81
56-	43.4919-	108.9900-	2-	12-		0-W07243-	10/04/79-	16-	32-	17.2-	-	-	7.8-	1450-	5-1-6-5-6-2-2-1-2-3-2-3-1-														-4-	-	-	-	-	2.21
56-	43.4747-	108.9333-	2-	15-		0-W07244-	10/04/79-	16-	32-	-	-	-	-	-	12-1-9-4-7- -1- -2-3-2-3-1-														-1-	-	-	-	-	3.81
56-	43.4753-	108.9381-	2-	15-		0-W07245-	10/04/79-	16-	32-	-	-	-	-	-	10-1-6-5-4- -1- -2-3-1-3-1-														-1-	-	-	-	-	2.24
56-	43.4758-	108.9375-	2-	15-		0-W07246-	10/04/79-	17-	32-	-	-	-	-	-	6-1-7-4-7- -1- -2-3-2-3-1-														-1-	-	-	-	-	1.68
56-	43.4928-	108.9481-	2-	11-		0-W07247-	10/04/79-	17-	32-	12.1-	-	-	7.3-	4700-	6-1-6-4-7-2-2-1- -3-1-3-1-														-3-	-	-	-	-	1.88
56-	43.3964-	108.8969-	2-	15-		0-W07248-	10/04/79-	18-	30-	-	-	-	-	-	6-1-6-5-6- -1- -2-3-1-2-1-														-3-	-	-	-	-	2.89
56-	43.3872-	108.9364-	2-	15-		0-W07249-	10/04/79-	18-	30-	-	-	-	-	-	12-1-6-5-4- -1- -2-3-1-2-1-														-1-	-	-	-	-	3.21
56-	43.3878-	108.9350-	2-	15-		0-W07250-	10/04/79-	18-	28-	-	-	-	-	-	9-1-6-5-6- -1- -2-3-1-2-1-														-1-	-	-	-	-	3.22
56-	43.3889-	108.9239-	2-	15-		0-W07251-	10/04/79-	18-	27-	-	-	-	-	-	11-1-6-5-6- -1- -2-3-2-2-1-														-1-	-	-	-	-	2.67

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.4389-108.9214-2-12-						0-W07191	-5	-5	-5	18	-20	-15	8	-10	-15	2	18
56-43.3211-109.3075-2-12-						0-W07193	-5	-5	-5	18	-20	16	12	-10	-15	1	13
56-43.3219-109.3083-2-15-						0-W07194	-5	-5	-5	30	-20	-15	10	-10	-15	1	32
56-43.3372-109.2967-2-12-						0-W07195	-5	8	-5	13	-20	23	9	-10	-15	2	17
56-43.3197-109.2794-2-11-						0-W07196	-5	-5	-5	20	-20	-15	9	-10	-15	1	20
56-43.2839-109.2544-2-12-						0-W07197	-5	-5	-5	11	-20	-15	-5	-10	-15	1	11
56-43.2844-109.2553-2-12-						0-W07198	-5	-5	-5	16	-20	32	-5	-10	-15	2	16
56-43.2822-109.2908-2-12-						0-W07199	-5	6	-5	24	-20	27	-5	-10	-15	2	16
56-43.2833-109.3128-2-15-						0-W07200	-5	-5	-5	26	-20	47	7	-10	-15	2	45
56-43.2831-109.1833-2-12-						0-W07202	-5	7	-5	-10	-20	-15	10	-10	15	1	15
56-43.2747-109.2033-2-15-						0-W07203	-5	7	-5	39	-20	80	14	-10	-15	2	23
56-43.2719-109.2078-2-12-						0-W07204	-5	5	-5	17	-20	-15	9	-10	-15	2	20
56-43.1917-109.3075-2-11-						0-W07205	-5	-5	-5	25	-20	38	5	-10	-15	2	35
56-43.1706-109.3381-2-12-						0-W07206	-5	11	-5	23	-20	33	11	-10	15	2	39
56-43.1719-109.3269-2-11-						0-W07207	-5	-5	-5	30	-20	31	10	-10	-15	2	35
56-43.2217-109.2569-2-15-						0-W07208	-5	8	-5	24	-20	-15	10	-10	-15	1	29
56-43.2206-109.2572-2-12-						0-W07209	-5	-5	-5	24	-20	-15	14	-10	-15	2	19
56-43.1953-109.3097-2-12-						0-W07210	-5	6	-5	33	-20	21	16	-10	-15	2	38
56-43.1958-109.3106-2-12-						0-W07211	-5	6	-5	23	-20	28	17	-10	-15	2	32
56-43.2386-109.2650-2-12-						0-W07212	-5	-5	-5	19	-20	-15	10	-10	-15	2	34
56-43.2594-109.2322-2-12-						0-W07213	-5	5	-5	13	-20	-15	5	-10	-15	2	27
56-43.2589-109.2311-2-12-						0-W07214	-5	-5	-5	19	-20	-15	-5	-10	-15	3	30
56-43.2461-109.3072-2-15-						0-W07215	-5	-5	-5	19	-20	-15	6	-10	-15	2	29
56-43.2281-109.3686-2-11-						0-W07216	-5	-5	-5	25	-20	23	14	-10	-15	2	33
56-43.2239-109.3547-2-99-						0-W07217	-5	-5	-5	12	-20	15	13	-10	-15	2	30
56-43.2714-109.2811-2-12-						0-W07218	-5	-5	-5	11	-20	16	-5	-10	-15	2	9
56-43.2644-109.3117-2-15-						0-W07219	-5	-5	-5	12	-20	-15	5	-10	-15	2	6
56-43.2619-109.3314-2-12-						0-W07220	-5	-5	-5	20	-20	25	6	-10	-15	1	12
56-43.2517-109.3883-2-12-						0-W07221	-5	-5	-5	38	-20	48	15	-10	-15	2	33
56-43.2681-109.3592-2-12-						0-W07222	-5	5	-5	29	-20	54	12	-10	-15	1	26
56-43.2542-109.3453-2-11-						0-W07223	-5	-5	-5	23	-20	21	-5	-10	-15	2	8
56-43.2325-108.8458-2-15-						0-W07224	-5	-5	-5	17	-20	16	14	-10	-15	3	33
56-43.2356-108.8431-2-15-						0-W07225	-5	-5	-5	27	-20	17	16	-10	-15	3	33
56-43.2331-108.8222-2-15-						0-W07226	-5	-5	-5	25	-20	18	10	-10	-15	2	22
56-43.2433-108.7831-2-15-						0-W07227	-5	6	-5	30	-20	15	11	-10	-15	2	29
56-43.2419-108.7775-2-15-						0-W07228	-5	-5	-5	24	-20	24	13	-10	-15	3	36
56-43.2428-108.7731-2-15-						0-W07229	-5	5	-5	24	-20	26	12	-10	-15	3	31
56-43.2453-108.7622-2-15-						0-W07230	-5	7	-5	28	-20	35	13	-10	-15	2	34
56-43.1778-108.6958-2-15-						0-W07235	-5	8	-5	26	-20	37	13	-10	-15	3	29
56-43.1389-108.6253-2-15-						0-W07236	-5	-5	-5	19	-20	16	15	-10	-15	2	21
56-43.0964-108.5956-2-15-						0-W07238	-5	5	-5	23	-20	-15	19	-10	-15	3	29
56-43.4806-108.9878-2-11-						0-W07242	-5	-5	-5	13	-20	-15	7	-10	-15	2	26
56-43.4819-108.9900-2-12-						0-W07243	-5	-5	-5	21	-20	-15	6	-10	-15	2	22
56-43.4747-108.9333-2-15-						0-W07244	-5	-5	-5	22	-20	16	8	-10	-15	2	26
56-43.4753-108.9381-2-15-						0-W07245	-5	5	-5	25	-20	21	7	-10	-15	2	41
56-43.4758-108.9375-2-15-						0-W07246	-5	-5	-5	10	-20	-15	6	-10	-15	2	13
56-43.4828-108.9481-2-11-						0-W07247	-5	-5	-5	17	-20	-15	-5	-10	-15	2	20
56-43.3964-108.8969-2-15-						0-W07248	-5	-5	-5	13	-20	15	8	-10	-15	2	13
56-43.3872-108.9364-2-15-						0-W07249	-5	6	-5	19	-20	17	8	-10	-15	2	17
56-43.3878-108.9350-2-15-						0-W07250	-5	-5	-5	22	-20	22	10	-10	-15	2	34
56-43.3889-108.9239-2-15-						0-W07251	-5	-5	-5	17	-20	-15	5	-10	-15	2	12

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.4389-108.9214-2-12-						0-W07191	33260	-0.14	653	54010	39	-62	3.7	27	2.3	4	1.0	12180	8.4	12940	-29	0.3
56-43.3211-109.3075-2-12-						0-W07193	32320	-0.20	233	107900	46	-65	6.0	64	-1.5	3	1.0	12910	8.9	13170		0.2
56-43.3219-109.3083-2-15-						0-W07194	40470	-0.17	325	90970	38	-50	6.4	38	2.5	3	0.9	17310	6.8	18710	-27	0.5
56-43.3372-109.2967-2-12-						0-W07195	52010	-0.23	804	12840	74	109	9.2	118	-1.6	5	1.5	22720	15.0	18040	64	0.4
56-43.3197-109.2794-2-11-						0-W07196	36490	-0.18	689	56880	55	-60	5.7	51	2.1	5	1.1	18790	11.8	13910	-34	0.3
56-43.2839-109.2544-2-12-						0-W07197	29200	-0.18	334	29730	35	-53	3.5	49	-1.2	2	1.0	10170	16.3	13630	-30	0.3
56-43.2844-109.2553-2-12-						0-W07198	40630	-0.22	372	18600	53	-71	6.7	99	-1.5	4	1.0	18750	15.1	15080	-33	0.3
56-43.2822-109.2908-2-12-						0-W07199	40810	-0.19	307	23930	52	-62	6.1	77	-1.4	4	1.2	18350	13.6	14570	-26	0.3
56-43.2833-109.3128-2-15-						0-W07200	53420	-0.21	428	31400	56	-81	13.7	118	3.2	4	1.4	30540	10.9	19470	-39	0.3
56-43.2831-109.1833-2-12-						0-W07202	34050	-0.07	416	26770	94	-60	6.2	98	1.9	6	1.6	19770	39.5	14020	46	0.6
56-43.2747-109.2033-2-15-						0-W07203	57350	-0.08	440	30200	82	-96	18.7	239	-1.7	5	1.6	45350	17.6	12930	56	0.5
56-43.2719-109.2078-2-12-						0-W07204	44120	-0.11	409	29590	58	-60	5.7	56	2.7	4	1.3	15300	11.5	15640	24	0.4
56-43.1917-109.3075-2-11-						0-W07205	62750	-0.12	564	76540	61	105	9.6	73	3.1	4	1.3	28050	6.3	25970	43	0.4
56-43.1706-109.3381-2-12-						0-W07206	62760	-0.13	412	17660	109	113	9.6	99	1.7	5	1.6	28710	20.6	16290	55	0.6
56-43.1719-109.3269-2-11-						0-W07207	71620	-0.13	428	51530	69	-65	12.6	91	2.2	4	1.4	32890	6.7	16940	46	0.5
56-43.2217-109.2569-2-15-						0-W07208	31640	-0.09	-200	39350	45	-98	4.7	67	3.1	3	1.0	13660	9.2	16320	-9	0.4
56-43.2206-109.2572-2-12-						0-W07209	46720	-0.10	480	19570	71	125	6.1	60	2.1	5	1.4	20400	18.1	20030	36	0.4
56-43.1953-109.3097-2-12-						0-W07210	63690	-0.13	624	12330	102	143	8.9	83	3.4	6	1.9	26660	20.8	28030	52	0.6
56-43.1958-109.3106-2-12-						0-W07211	59480	-0.11	570	12980	86	152	10.0	80	3.0	6	1.7	28060	20.6	20460	51	0.5
56-43.2386-109.2650-2-12-						0-W07212	40290	-0.09	389	51080	45	-62	3.8	46	3.0	4	1.2	13830	7.9	15910	24	0.4
56-43.2594-109.2322-2-12-						0-W07213	32770	-0.07	323	52980	38	69	3.2	35	1.5	3	1.0	11100	10.5	13140	16	0.2
56-43.2589-109.2311-2-12-						0-W07214	41130	-0.09	385	23720	45	-59	5.4	51	1.8	4	1.0	14640	11.8	18340	27	0.3
56-43.2461-109.3072-2-15-						0-W07215	20070	-0.06	280	5556	19	-31	2.2	29	1.4	2	0.7	7041	13.3	11540	13	0.2
56-43.2281-109.3686-2-11-						0-W07216	52300	-0.13	518	33330	79	75	6.9	66	3.6	5	1.2	21210	9.1	28030	-11	0.3
56-43.2239-109.3547-2-99-						0-W07217	46200	-0.10	378	67200	64	143	6.5	59	2.4	5	1.3	20800	9.7	17580	31	0.3
56-43.2714-109.2811-2-12-						0-W07218	26630	-0.08	325	12170	36	58	2.4	62	1.4	3	1.1	7412	27.4	14290	22	0.4
56-43.2644-109.3117-2-15-						0-W07219	21030	-0.06	291	6710	22	-31	2.4	41	1.3	2	0.7	7538	17.9	10430	19	0.2
56-43.2619-109.3314-2-12-						0-W07220	39010	-0.10	391	45180	30	184	3.7	81	-1.3	3	1.1	11070	9.7	13180	26	0.2
56-43.2517-109.2883-2-12-						0-W07221	65210	-0.14	486	13160	88	158	13.2	156	2.7	6	1.9	30850	15.3	18520	57	0.4
56-43.2681-109.3592-2-12-						0-W07222	60390	-0.13	451	17010	91	-91	10.7	217	1.7	6	1.4	28190	23.8	18370	55	0.5
56-43.2542-109.3453-2-11-						0-W07223	33100	-0.09	289	81470	25	341	3.6	57	-1.3	2	0.8	10800	2.8	8613	-13	-0.1
56-43.2325-108.8458-2-15-						0-W07224	60400	-0.10	524	25640	56	-79	6.1	52	4.1	3	1.1	19970	6.5	19800	33	0.3
56-43.2356-108.8431-2-15-						0-W07225	61760	-0.09	565	24010	58	-70	7.1	59	3.7	3	1.2	21370	7.2	19970	31	0.3
56-43.2331-108.8222-2-15-						0-W07226	50060	-0.10	535	21580	59	-53	5.3	60	4.1	4	1.1	15220	7.9	16930	31	0.3
56-43.2433-108.7831-2-15-						0-W07227	68610	-0.10	627	22820	68	-94	8.1	66	3.2	4	1.4	22960	8.5	19910	52	0.3
56-43.2419-108.7775-2-15-						0-W07228	73890	-0.12	446	23970	66	-68	8.8	75	6.6	3	1.2	30460	6.0	23340	33	0.3
56-43.2428-108.7731-2-15-						0-W07229	59000	-0.10	504	21390	69	-70	9.2	62	4.3	4	1.3	25190	8.5	19830	42	0.4
56-43.2453-108.7622-2-15-						0-W07230	67430	-0.13	582	18750	66	-68	9.5	64	4.3	4	1.3	26770	5.6	20460	30	0.3
56-43.1778-108.6958-2-15-						0-W07235	71240	-0.11	676	23360	55	-90	8.0	54	4.4	3	1.2	22070	3.5	21300	40	0.4
56-43.1389-108.6253-2-15-						0-W07236	58730	-0.10	574	23860	84	-71	5.9	54	4.1	4	1.4	20770	10.8	19110	44	0.4
56-43.0964-108.5956-2-15-						0-W07238	59660	-0.09	624	19060	84	-73	7.7	62	4.9	4	1.4	21760	10.5	23090	50	0.3
56-43.4806-108.9878-2-11-						0-W07242	33000	-0.08	364	64420	36	-59	2.7	29	1.6	4	1.0	13940	8.6	12920	20	0.3
56-43.4819-108.9900-2-12-						0-W07243	38550	-0.08	502	56260	37	-56	5.3	33	2.2	3	1.1	13540	9.0	13570	26	0.3
56-43.4747-108.9333-2-15-						0-W07244	48260	-0.09	619	18140	58	-53	7.8	29	3.3	5	1.2	20840	10.4	12270	37	0.3
56-43.4753-108.9381-2-15-						0-W07245	36980	-0.09	358	91830	41	-55	4.6	37	2.2	3	1.0	15380	6.9	13240	23	0.3
56-43.4758-108.9375-2-15-						0-W07246	30060	-0.06	589	33260	25	-55	1.6	22	-0.8	3	0.8	6674	6.1	12180	-6	0.3
56-43.4828-108.9481-2-11-						0-W07247	29790	-0.08	473	70610	38	-59	2.5	27	1.5	3	1.2	10600	8.2	10330	18	0.2
56-43.3964-108.8969-2-15-						0-W07248	30200	-0.07	335	17820	50	47	4.0	28	3.3	4	1.0	10410	10.1	13280	24	0.3
56-43.3872-108.9364-2-15-						0-W07249	35160	-0.07	590	26450	46	-50	2.7	37	1.6	3	1.0	8532	9.0	15010	32	0.3
56-43.3878-108.9350-2-15-						0-W07250	50580	-0.09	724	32910	59	-53	4.4	46	3.9	4	1.1	16280	6.8	15730	34	0.3
56-43.3889-108.9239-2-15-						0-W07251	28320	-0.07	297	36940	41	-34	2.7	30	2.2	3	1.1	9263	11.2	11560	25	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.4389-108.9214-2-12-			0-	W	07191		15070	289	6876	44	-3	4.4	3.3	312	-1	-1	5.7	2565	34	-2.2	28	0.367
56-43.3211-109.3075-2-12-			0-	W	07193		13510	376	5588	-29	-5	5.3	3.3	277	-1	-1	7.3	2329	40	4.8	32	0.348
56-43.3219-109.3083-2-15-			0-	W	07194		23400	401	3118	-24	-4	6.3	4.6	-197	-1	-1	8.1	3080	48	-2.2	39	0.288
56-43.3372-109.2967-2-12-			0-	W	07195		14980	399	10890	52		8.6	7.1	-237	-1	-1	15.0	4183	60	5.1	108	0.380
56-43.3197-109.2794-2-11-			0-	W	07196		14840	339	4424	-25	-5	6.1	5.1	-227	-1	-1	8.1	2798	49	3.8	63	0.338
56-43.2839-109.2544-2-12-			0-	W	07197		13410	266	6054	-25	-4	3.9	-2.4	-175	-1	-1	7.5	2183	29	-3.1	-28	0.280
56-43.2844-109.2553-2-12-			0-	W	07198		18760	569	7797	-31	-5	7.2	-3.0	-269	-1	-1	11.3	4065	52	4.6	120	0.244
56-43.2822-109.2908-2-12-			0-	W	07199		20740	370	8211	-26	-5	6.4	5.2	-216	-1	-1	10.7	3767	48	4.8	-31	0.243
56-43.2833-109.3128-2-15-			0-	W	07200		30580	847	6653	-32	-5	10.1	7.1	-335	-1	-1	11.4	4364	71	-3.3	93	0.228
56-43.2831-109.1833-2-12-			0-	W	07202		14750	451	6951	45	-2	6.4	6.6	-209	-1	-1	21.6	5154	57	5.6	51	0.230
56-43.2747-109.2033-2-15-			0-	W	07203		24670	784	14370	40	-2	14.4	7.4	-313	-1	-1	26.0	7525	129	5.6	-31	0.114
56-43.2719-109.2078-2-12-			0-	W	07204		18390	372	6364	64	-3	6.2	5.3	-209	-1	-1	10.8	2873	48	3.3	50	0.269
56-43.1917-109.3075-2-11-			0-	W	07205		30670	402	4598	70	-3	9.2	4.4	-255	-1	-1	12.4	3755	60	3.2	-42	0.173
56-43.1706-109.3381-2-12-			0-	W	07206		16050	590	14990	37	-3	10.8	9.2	-279	-1	-1	26.0	4315	62	4.6	94	0.160
56-43.1719-109.3269-2-11-			0-	W	07207		25030	483	4210	45	-3	10.4	5.2	-269	-1	-1	10.6	3537	62	-2.1	75	0.138
56-43.2217-109.2569-2-15-			0-	W	07208		32520	2141	2877	52	-2	5.2	4.3	-445	-1	-1	6.6	2326	42	3.8	80	0.445
56-43.2206-109.2572-2-12-			0-	W	07209		19660	517	8543	53	-2	7.5	4.9	-264	-1	-1	14.6	3320	44	5.1	46	0.265
56-43.1953-109.3097-2-12-			0-	W	07210		13150	611	10030	76	-3	10.2	8.1	-285	-1	-1	21.7	3361	64	4.7	125	0.243
56-43.1958-109.3106-2-12-			0-	W	07211		14080	565	11290	-30	-3	9.6	6.6	-275	-1	-1	15.9	4146	63	6.5	-57	0.280
56-43.2386-109.2650-2-12-			0-	W	07212		31750	351	7867	43	-2	5.5	3.8	-200	-1	-1	8.0	2738	39	3.0	-14	0.268
56-43.2594-109.2322-2-12-			0-	W	07213		22420	364	5714	38	-2	4.3	3.4	-212	-1	-1	5.5	2552	32	2.0	-30	0.378
56-43.2589-109.2311-2-12-			0-	W	07214		14690	337	7351	42	-2	5.3	4.0	-191	-1	-1	9.0	2595	41	3.7	39	0.290
56-43.2461-109.3072-2-15-			0-	W	07215		5802	169	2133	34	-1	2.5	1.3	-122	-1		4.0	1272	20	-1.0	-21	0.475
56-43.2281-109.3686-2-11-			0-	W	07216		16030	501	5405	68	-3	7.1	5.9	-247	-1	-1	11.6	2977	48	4.3	57	0.230
56-43.2239-109.3547-2-99-			0-	W	07217		49670	611	6204	55	-2	6.9	4.7	-293	-1	-1	9.4	2796	48	4.1	34	0.268
56-43.2714-109.2811-2-12-			0-	W	07218		9966	124	4755	-17	-2	3.6	3.5	-130	-1	-1	7.3	1989	25	3.1	-23	0.478
56-43.2644-109.3117-2-15-			0-	W	07219		6252	182	2240	-15	-1	3.0	2.2	-128			5.3	1282	26	2.3	41	0.472
56-43.2619-109.3314-2-12-			0-	W	07220		71320	180	9091	-23	-2	4.9	3.6	-190	-1	-1	7.0	2033	34	-1.8	-29	0.277
56-43.2517-109.3883-2-12-			0-	W	07221		17480	677	12360	97	-4	10.6	8.5	-330	-1	-1	17.9	4697	64	4.5	84	0.344
56-43.2681-109.3592-2-12-			0-	W	07222		15430	433	14900	-30	-3	11.1	6.9	-279	-1	-1	24.1	4748	71	6.3	117	0.210
56-43.2542-109.3453-2-11-			0-	W	07223		114700	275	9213	-23	-2	3.7	1.9	-238	-1	-1	4.5	1325	27	-1.8	-36	0.289
56-43.2325-108.8458-2-15-			0-	W	07224		22100	382	10380	65	-2	6.6	5.0	-248	-1	-1	11.0	2595	47	2.5	76	0.278
56-43.2356-108.8431-2-15-			0-	W	07225		21710	380	10400	62	-2	6.8	5.1	-212	-1	-1	12.6	2852	52	3.1	79	0.240
56-43.2331-108.8222-2-15-			0-	W	07226		20410	289	5797	54	-2	5.9	5.8	-181	-1	-1	11.1	2894	60	4.1	-68	0.303
56-43.2433-108.7831-2-15-			0-	W	07227		18280	472	15390	64	-3	8.2	5.5	-287	-1	-1	14.1	3736	63	3.1	-29	0.235
56-43.2419-108.7775-2-15-			0-	W	07228		29360	491	7462	91	-3	9.2	5.2	-250	-1	-1	13.2	3211	67	3.6	65	0.275
56-43.2428-108.7731-2-15-			0-	W	07229		21580	433	9361	96	-2	7.8	5.2	-239	-1	1	12.9	2822	54	3.8	73	0.265
56-43.2453-108.7622-2-15-			0-	W	07230		28010	452	7771	62	-3	8.9	5.1	-237	-1	-1	12.6	3079	67	3.6	93	0.275
56-43.1778-108.6958-2-15-			0-	W	07235		23310	327	13220	77	-3	7.0	4.7	-277	-1	-1	10.2	3029	53	-1.7	-63	0.321
56-43.1389-108.6253-2-15-			0-	W	07236		17620	425	11210	58	-2	6.5	5.6	-226	-1	-1	12.7	3593	50	3.4	72	0.283
56-43.0964-108.5956-2-15-			0-	W	07238		14520	355	11940	90	-2	7.1	5.9	-218	-1	1	12.9	3184	53	3.8	71	0.284
56-43.4806-108.9878-2-11-			0-	W	07242		14610	220	6050	43	-2	4.2	3.6	-187	-1	1	4.8	2198	45	2.8	-23	0.377
56-43.4819-108.9900-2-12-			0-	W	07243		16770	278	6020	-20	-2	4.8	3.5	-174	-1	-1	6.6	2317	40	2.3	45	0.335
56-43.4747-108.9333-2-15-			0-	W	07244		10900	387	5345	74	-2	6.6	4.4	-199	-1	-1	9.4	2752	55	2.0	80	0.405
56-43.4753-108.9381-2-15-			0-	W	07245		23530	292	5064	38	-2	4.9	4.0	443	-1	-1	6.2	2118	52	2.7	66	0.361
56-43.4758-108.9375-2-15-			0-	W	07246		10500	224	6374	34	-2	3.0	2.3	-178	-1		3.9	2314	27	1.6	29	0.431
56-43.4828-108.9481-2-11-			0-	W	07247		16490	158	8030	34	-2	3.4	3.6	-160	-1	-1	4.7	1597	36	2.5	-21	0.400
56-43.3964-108.8969-2-15-			0-	W	07248		15890	207	994	33	-2	4.1	3.6	-137	-1	-1	7.4	2543	43	3.5	82	0.391
56-43.3872-108.9364-2-15-			0-	W	07249		11510	248	6132	40	-2	3.3	3.8	-158	-1	-1	11.5	1981	30	2.1	-21	0.279
56-43.3878-108.935C-2-15-			0-	W	07250		10960	316	3428	54	-2	6.2	4.3	-209	-1	-1	11.2	2515	97	2.7	-47	0.288
56-43.3889-108.9239-2-15-			0-	W	07251		20400	196	1546	31	-2	3.3	2.8	-139	1	-1	7.2	1617	41	2.9	50	0.371

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples (1)

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	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																									
56-	43.5181-	108.9086-	2-	15-		0-W07252-	10/05/79-	13-	32-	-	-	-	-	-	-	1C-	1-	6-	5-	4-	-1-	-2-	3-	2-	2-	2-	-1-	-	-	-	-	2.94
56-	43.5492-	108.9439-	2-	15-		0-W07253-	10/05/79-	14-	32-	-	-	-	-	-	-	8-	1-	6-	4-	4-	-1-	-2-	3-	1-	3-	2-	-1-	-	-	-	-	2.85
56-	43.5742-	108.9181-	2-	12-		0-W07254-	10/05/79-	14-	33-	15.8-	-	-	7.6-	3500-		12-	1-	6-	5-	4-	2-	2-	1-	2-	3-	1-	3-	2-	-3-	-	-	-	-	1.97
56-	43.5833-	108.9308-	2-	15-		0-W07255-	10/05/79-	14-	33-	-	-	-	-	-	-	14-	1-	6-	4-	4-	-1-	-2-	3-	2-	4-	2-	-1-	-	-	-	-	2.12
56-	43.5900-	108.9506-	2-	15-		0-W07257-	10/05/79-	15-	32-	-	-	-	-	-	-	8-	1-	6-	4-	4-	-1-	-2-	3-	1-	4-	2-	-3-	-	-	-	-	2.30
56-	43.5975-	108.9714-	2-	15-		0-W07258-	10/05/79-	15-	32-	-	-	-	-	-	-	8-	1-	6-	5-	6-	-1-	-2-	3-	2-	4-	2-	-1-	-	-	-	-	2.67
56-	43.5972-	108.9753-	2-	15-		0-W07259-	10/05/79-	15-	30-	-	-	-	-	-	-	8-	1-	4-	4-	4-	-1-	-2-	3-	2-	4-	2-	-1-	-	-	-	-	2.78
56-	43.6061-	109.0164-	2-	15-		0-W07260-	10/05/79-	16-	28-	-	-	-	-	-	-	14-	1-	6-	5-	4-	-1-	-2-	3-	1-	4-	2-	-1-	-	-	-	-	2.08
56-	43.5933-	109.0575-	2-	12-		0-W07261-	10/05/79-	16-	25-	16.5-	-	-	8.1-	600-		4-	1-	6-	6-	7-	2-	2-	4-	2-	3-	1-	4-	3-	-3-	-	-	-	-	2.57
56-	43.5978-	109.0717-	2-	12-		0-W07262-	10/05/79-	17-	25-	14.5-	-	-	8.0-	450-		10-	1-	6-	4-	7-	2-	2-	1-	2-	2-	1-	4-	3-	-3-	-	-	-	-	1.81
56-	43.6181-	109.0092-	2-	15-		0-W07263-	10/05/79-	17-	27-	-	-	-	-	-	-	8-	1-	7-	5-	4-	-1-	-2-	3-	1-	4-	2-	-3-	-	-	-	-	1.89
56-	43.5803-	108.8811-	2-	15-		0-W07264-	10/05/79-	18-	28-	-	-	-	-	-	-	12-	1-	4-	5-	4-	-1-	-1-	3-	1-	4-	2-	-3-	-	-	-	-	2.26
56-	43.5864-	108.9017-	2-	15-		0-W07265-	10/05/79-	18-	26-	-	-	-	-	-	-	12-	1-	6-	5-	6-	-1-	-2-	3-	2-	4-	2-	-1-	-	-	-	-	3.45
56-	43.4842-	109.0075-	2-	15-		0-W07266-	10/06/79-	10-	32-	-	-	-	-	-	-	14-	1-	6-	4-	6-	-1-	-2-	3-	1-	3-	1-	-1-	-	-	-	-	4.59
56-	43.4944-	109.0253-	2-	12-		0-W07267-	10/06/79-	11-	32-	14.0-	C-	-	7.7-	1600-		15-	1-	6-	4-	6-	2-	2-	3-	2-	3-	1-	3-	1-	-4-	-	-	-	-	3.11
56-	43.5064-	109.0447-	2-	12-		0-W07268-	10/06/79-	11-	32-	13.4-	C-	-	7.8-	1600-		4-	1-	6-	4-	6-	2-	2-	3-	2-	3-	2-	3-	1-	-4-	-	-	-	-	2.46
56-	43.5125-	109.0750-	2-	15-		0-W07269-	10/06/79-	11-	32-	-	-	-	-	-	-	16-	1-	6-	4-	6-	-1-	-2-	4-	2-	3-	1-	-3-	-	-	-	-	3.51
56-	43.5356-	109.0131-	2-	15-		0-W07270-	10/06/79-	12-	32-	-	-	-	-	-	-	16-	1-	6-	5-	6-	-1-	-2-	3-	2-	4-	1-	-3-	-	-	-	-	5.09
56-	43.5617-	109.0369-	2-	15-		0-W07272-	10/06/79-	14-	32-	-	-	-	-	-	-	12-	1-	7-	5-	4-	-1-	-2-	2-	1-	4-	1-	-1-	-	-	-	-	2.02
56-	43.5614-	109.0331-	2-	15-		0-W07273-	10/06/79-	14-	32-	-	-	-	-	-	-	14-	1-	6-	5-	6-	-1-	-2-	3-	1-	4-	1-	-1-	-	-	-	-	2.83
56-	43.5536-	109.0119-	2-	15-		0-W07274-	10/06/79-	14-	32-	-	-	-	-	-	-	6-	1-	7-	5-	4-	-1-	-2-	2-	2-	4-	1-	-1-	-	-	-	-	2.15
56-	43.5514-	109.0103-	2-	15-		0-W07275-	10/06/79-	14-	32-	-	-	-	-	-	-	12-	1-	7-	4-	7-	-1-	-2-	3-	1-	3-	1-	-1-	-	-	-	-	3.50
56-	43.5789-	109.1222-	2-	15-		0-W07276-	10/06/79-	16-	32-	-	-	-	-	-	-	12-	1-	7-	4-	7-	-1-	-2-	2-	2-	4-	1-	-1-	-	-	-	-	3.51
56-	43.5647-	109.1083-	2-	12-		0-W07277-	10/06/79-	16-	32-	15.5-	-	-	7.9-	1700-		12-	1-	6-	4-	4-	2-	2-	1-	2-	2-	2-	3-	1-	-3-	-	-	-	-	2.32
56-	43.5369-	109.0853-	2-	15-		0-W07278-	10/06/79-	16-	32-	-	-	-	-	-	-	10-	1-	7-	5-	6-	-1-	-2-	3-	1-	3-	1-	-1-	-	-	-	-	3.43
56-	43.5342-	109.0878-	2-	15-		0-W07279-	10/06/79-	16-	32-	-	-	-	-	-	-	6-	1-	7-	4-	7-	-1-	-2-	3-	1-	3-	1-	-1-	-	-	-	-	3.57
56-	43.5322-	109.0978-	2-	15-		0-W07280-	10/06/79-	16-	32-	-	-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	1-	-1-	-	-	-	-	2.80
56-	43.5403-	109.1075-	2-	15-		0-W07281-	10/06/79-	17-	30-	-	-	-	-	-	-	14-	1-	6-	5-	6-	-1-	-2-	3-	1-	3-	1-	-3-	-	-	-	-	1.82
56-	43.5408-	109.1069-	2-	12-		0-W07282-	10/06/79-	17-	30-	15.5-	-	-	7.6-	300-		10-	1-	6-	4-	6-	2-	2-	2-	2-	2-	2-	3-	1-	-3-	-	-	-	-	2.56
56-	43.5053-	109.1172-	2-	15-		0-W07283-	10/06/79-	18-	28-	-	-	-	-	-	-	5-	1-	6-	4-	6-	-1-	-2-	3-	2-	3-	2-	-1-	-	-	-	-	4.03
56-	43.5072-	109.2192-	2-	15-		0-W07284-	10/06/79-	18-	28-	-	-	-	-	-	-	8-	1-	6-	5-	6-	-1-	-2-	4-	1-	4-	2-	-1-	-	-	-	-	2.34
56-	43.5050-	109.2444-	2-	15-		0-W07285-	10/06/79-	18-	28-	-	-	-	-	-	-	14-	1-	6-	5-	6-	-1-	-2-	2-	1-	4-	2-	-1-	-	-	-	-	5.20
56-	43.5106-	109.2392-	2-	99-		0-W07286-	10/07/79-	10-	23-	-C-	-	-	-	-		12-	1-	6-	5-	1-	-1-	-	-4-	1-	4-	3-	-3-	-	-	-	-	23.72
56-	43.5008-	109.1892-	2-	15-		0-W07287-	10/07/79-	11-	25-	-	-	-	-	-	-	14-	1-	6-	5-	6-	-1-	-2-	4-	1-	4-	3-	-1-	-	-	-	-	2.78
56-	43.5092-	109.1611-	2-	15-		0-W07288-	10/07/79-	11-	26-	-	-	-	-	-	-	6-	1-	6-	5-	4-	-1-	-2-	3-	1-	3-	3-	-1-	-	-	-	-	2.58
56-	43.5103-	109.1600-	2-	12-		0-W07289-	10/07/79-	11-	26-	10.5-	-	-	7.8-	1600-		12-	1-	4-	4-	4-	2-	2-	1-	2-	2-	1-	3-	3-	-3-	-	-	-	-	2.30
56-	43.5594-	109.1281-	2-	12-		0-W07290-	10/07/79-	13-	30-	13.8-	C-	-	8.0-	650-		13-	1-	6-	4-	6-	2-	2-	1-	2-	2-	1-	3-	1-	-3-	-	-	-	-	2.76
56-	43.5603-	109.1275-	2-	12-		C-W07291-	10/07/79-	13-	30-	11.8-	-	-	7.8-	230-		8-	1-	6-	4-	6-	2-	2-	2-	1-	2-	1-	4-	1-	-3-	-	-	-	-	2.78
56-	43.5972-	109.1292-	2-	15-		0-W07292-	10/07/79-	14-	30-	-	-	-	-	-	-	8-	1-	6-	5-	6-	-1-	-2-	2-	1-	4-	1-	-1-	-	-	-	-	3.76
56-	43.5861-	109.1492-	2-	12-		0-W07293-	10/07/79-	14-	30-	14.6-	-	-	7.5-	140-		8-	4-	7-	5-	6-	3-	3-	1-	2-	1-	3-	4-	1-	-1-	-	-	-	-	2.39
56-	43.5850-	109.1500-	2-	12-		0-W07294-	10/07/79-	15-	30-	12.2-	-	-	7.5-	160-		8-	4-	7-	4-	6-	3-	3-	1-	2-	1-	4-	4-	1-	-1-	-	-	-	-	3.21
56-	43.5886-	109.1375-	2-	11-		0-W07295-	10/07/79-	15-	28-	13.8-	-	-	7.6-	250-		6-	1-	7-	4-	7-	2-	2-	2-	1-	-4-	2-	4-	2-	-3-	-	-	-	-	3.04
56-	43.6008-	109.1550-	2-	12-		0-W07296-	10/07/79-	16-	30-	10.0-	-	-	7.5-	150-		10-	4-	7-	4-	6-	3-	3-	1-	2-	1-	3-	4-	1-	-1-	-	-	-	-	2.49
56-	43.6147-	109.1317-	2-	11-		0-W07297-	10/07/79-	16-	28-	15.2-	-	-	7.2-	80-		12-	4-	6-	6-	6-	2-	2-	1-	-4-	1-	4-	1-	-1-	-	-	-	-	5.58
56-	43.5289-	109.1586-	2-	11-		0-W07298-	10/07/79-	17-	28-	10.0-	C-	-	6.7-	2200-		12-	1-	4-	5-	7-	2-	2-	1-	-4-	2-	3-	3-	-3-	-	-	-	-	2.74
56-	43.5297-	109.1603-	2-	12-		0-W07299-	10/07/79-	18-	28-	15.5-	-	-	7.5-	2500-		8-	1-	4-	4-	4-	2-	2-	1-	2-	1-	1-	3-	3-	-3-	-	-	-	-	2.54
56-	43.5289-	109.1550-	2-	12-		0-W07300-	10/07/79-	18-	28-	12.1-	C-	-	8.0-	1500-		12-	1-	4-	4-	4-	2-	2-	1-	2-	1-	1-	3-	3-	-3-	-	-	-	-	2.79
56-	43.5983-	109.3178-	2-	11-		0-W07301-	10/08/79-	9-	21-	4.6-	-	-	7.8-	800-		8-	4-	6-	5-	7-	2-	2-	1-	-4-	1-	4-	1-	-1-	-	-	-	-	3.50
56-	43.6000-	109.3547-	2-	12-		0-W07302-	10/08/79-	9-	26-	6.0-	-	-	8.1-	900-		14-	1-	1-	4-	7-	2-	2-	1-	2-	4-	1-	4-	1-	-1-	-	-	-	-	2.10
56-	43.5692-	109.3539-	2-	15-		0-W07303-	10/08/79-	10-	28-	-	-	-	-	-	-	56-	1-	6-	4-	6-	-1-	-2-	3-	1-	2-	1-	-1-	-	-	-	-	2.55
56-	43.5692-	109.3522-	2-	15-		0-W07304-	10/08/79-	10-	28-	-	-	-	-	-	-	40-	1-	6-	5-	6-	-1-	-2-	3-	1-	2-	1-	-1-	-	-	-	-	3.20

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.5181-108.9086-2-15-						0-W07252	-5	-5	-5	17	-20	15	8	-10	-15	2	37
56-43.5492-108.9439-2-15-						0-W07253	-5	-5	-5	15	-20	-15	6	-10	-15	2	34
56-43.5742-108.9181-2-12-						0-W07254	-5	-5	-5	16	-20	-15	6	-10	-15	2	33
56-43.5833-108.9308-2-15-						0-W07255	-5	5	-5	23	-20	17	10	-10	-15	2	30
56-43.5900-108.9506-2-15-						0-W07257	-5	-5	-5	16	-20	-15	6	-10	-15	2	33
56-43.5975-108.9714-2-15-						0-W07258	-5	-5	-5	18	-20	22	13	10	-15	2	32
56-43.5972-108.9753-2-15-						0-W07259	-5	-5	-5	35	-20	-15	10	-10	-15	3	31
56-43.6061-109.0164-2-15-						0-W07260	-5	-5	-5	28	-20	-15	15	-10	-15	4	27
56-43.5933-109.0275-2-12-						0-W07261	-5	-5	-5	34	-20	15	19	-10	-15	3	25
56-43.5978-109.0717-2-12-						0-W07262	-5	-5	-5	27	-20	-15	13	-10	-15	2	18
56-43.6181-109.0692-2-15-						0-W07263	-5	5	-5	29	-20	-15	17	-10	-15	3	23
56-43.5903-108.9811-2-15-						0-W07264	-5	-5	-5	13	-20	18	7	-10	-15	2	35
56-43.5864-108.9017-2-15-						0-W07265	-5	8	-5	28	-20	15	12	-10	19	2	35
56-43.4842-109.0075-2-15-						0-W07266	-5	6	-5	-10	-20	-15	13	-10	-15	3	29
56-43.4944-109.0253-2-12-						0-W07267	-5	-5	-5	17	-20	16	6	-10	-15	2	35
56-43.5064-109.0447-2-12-						0-W07268	-5	-5	-5	16	-20	-15	8	-10	-15	2	28
56-43.5125-109.0750-2-15-						0-W07269	-5	-5	-5	21	-20	-15	13	-10	-15	2	26
56-43.5356-109.0131-2-15-						0-W07270	-5	-5	-5	11	-20	-15	16	-10	-15	3	35
56-43.5617-109.0369-2-15-						0-W07272	-5	-5	-5	19	-20	-15	8	-10	-15	2	31
56-43.5614-109.0391-2-15-						0-W07273	-5	6	-5	15	-20	16	7	-10	-15	2	34
56-43.5536-109.0119-2-15-						0-W07274	-5	-5	-5	15	-20	17	5	-10	-15	2	37
56-43.5514-109.0103-2-15-						0-W07275	-5	-5	-5	19	-20	-15	12	-10	-15	2	20
56-43.5789-109.1222-2-15-						0-W07276	-5	-5	-5	19	-20	19	14	-10	-15	2	30
56-43.5647-109.1083-2-12-						0-W07277	-5	-5	-5	17	-20	-15	-5	-10	-15	2	25
56-43.5369-109.0853-2-15-						0-W07278	-5	6	-5	14	-20	20	7	-10	-15	2	32
56-43.5242-109.0878-2-15-						0-W07279	-5	5	-5	10	-20	-15	-5	-10	-15	2	23
56-43.5322-109.0978-2-15-						0-W07280	-5	-5	-5	25	-20	-15	-5	-10	-15	2	21
56-43.5403-109.1075-2-15-						0-W07281	-5	-5	-5	11	-20	-15	-5	-10	-15	2	19
56-43.5408-109.1069-2-12-						0-W07282	-5	-5	-5	18	-20	-15	12	-10	-15	2	23
56-43.5053-109.1172-2-15-						0-W07283	-5	5	-5	22	-20	-15	8	-10	-15	2	37
56-43.5072-109.2192-2-15-						0-W07284	-5	6	-5	21	-20	-15	18	-10	-15	2	30
56-43.5050-109.2444-2-15-						0-W07285	-5	7	-5	32	-20	24	12	-10	-15	3	33
56-43.5106-109.2392-2-99-						0-W07286	-5	-5	-5	19	-20	-15	13	-10	-15	2	79
56-43.5009-109.1892-2-15-						0-W07287	-5	-5	-5	24	-20	22	14	-10	-15	3	26
56-43.5092-109.1611-2-15-						0-W07288	-5	6	-5	21	-20	-15	-5	-10	-15	2	32
56-43.5103-109.1600-2-12-						0-W07289	-5	-5	-5	15	-20	-15	6	-10	-15	2	21
56-43.5594-109.1281-2-12-						0-W07290	-5	5	-5	15	-20	-15	5	-10	-15	1	16
56-43.5603-109.1275-2-12-						0-W07291	-5	-5	-5	15	-20	35	9	-10	-15	2	27
56-43.5972-109.1292-2-15-						0-W07292	-5	6	-5	25	-20	-15	20	-10	-15	3	29
56-43.5961-109.1492-2-12-						0-W07293	-5	-5	-5	19	-20	86	16	-10	-15	2	21
56-43.5850-109.1500-2-12-						0-W07294	-5	-5	-5	23	-20	60	14	-10	-15	2	24
56-43.5886-109.1375-2-11-						0-W07295	-5	6	-5	26	-20	43	20	-10	-15	2	31
56-43.6008-109.1550-2-12-						0-W07296	-5	8	-5	30	-20	69	15	-10	-15	2	23
56-43.6147-109.1317-2-11-						0-W07297	-5	6	-5	31	-20	16	18	-10	19	2	27
56-43.5289-109.1586-2-11-						0-W07298	-5	-5	-5	22	-20	-15	-5	-10	-15	-1	20
56-43.5297-109.1603-2-12-						0-W07299	-5	5	-5	14	-20	-15	9	-10	-15	2	42
56-43.5289-109.1550-2-12-						0-W07300	-5	7	-5	23	-20	-15	9	-10	-15	2	44
56-43.5983-109.3178-2-11-						0-W07301	-5	5	-5	18	-20	-15	14	-10	-15	2	19
56-43.6000-109.3547-2-12-						0-W07302	-5	7	-5	30	-20	39	23	-10	-15	2	21
56-43.5692-109.3539-2-15-						0-W07303	-5	-5	-5	37	-20	31	17	-10	-15	2	22
56-43.5692-109.3522-2-15-						0-W07304	-5	5	-5	53	-20	25	29	-10	-15	2	28

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.5181-	108.9086-	2-	15-	0-	W07252	41260	-0.08	542	33210	49	-54	5.7	32	2.6	4	1.0	15820	8.8	17660	23	0.3
56-	43.5492-	108.9439-	2-	15-	0-	W07253	40790	-0.09	473	42550	52	-59	5.0	38	2.6	4	1.1	12980	8.8	16380	28	0.3
56-	43.5742-	108.9181-	2-	12-	0-	W07254	41190	-0.09	304	58920	33	100	3.3	27	2.4	4	0.9	12420	4.7	16710	-10	0.2
56-	43.5833-	108.9308-	2-	15-	0-	W07255	45460	-0.09	732	45600	49	-64	6.8	37	2.9	3	1.1	17310	6.6	16580	25	0.3
56-	43.5900-	108.9506-	2-	15-	0-	W07257	43170	-0.08	791	40420	46	-61	6.2	48	2.6	3	1.3	17460	9.7	17430	32	0.3
56-	43.5975-	108.9714-	2-	15-	0-	W07258	45270	-0.11	762	40330	71	-118	8.5	72	3.0	3	1.3	20460	9.1	17960	32	0.4
56-	43.5972-	108.9753-	2-	15-	0-	W07259	50000	-0.09	2085	36240	56	-65	5.6	57	3.0	4	1.6	19520	12.3	17740	38	0.4
56-	43.6061-	109.0164-	2-	15-	0-	W07260	66960	-0.09	873	21420	86	-47	6.5	55	4.4	4	1.5	22140	5.6	13930	47	0.4
56-	43.5933-	109.0575-	2-	12-	0-	W07261	61130	-0.10	1177	37400	73	-60	8.9	60	3.5	4	1.3	22900	6.0	17450	49	0.3
56-	43.5978-	109.0717-	2-	12-	0-	W07262	80590	-0.13	1441	39120	88	-98	14.6	75	-2.0	2	1.7	32590	5.5	15470	46	0.4
56-	43.6181-	109.0092-	2-	15-	0-	W07263	60900	-0.08	2006	17660	74	-68	5.9	52	2.7	3	1.5	20100	8.5	21690	37	0.3
56-	43.5803-	108.8811-	2-	15-	0-	W07264	40440	-0.08	320	43540	44	-63	4.9	53	2.4	3	1.0	16280	10.1	14890	27	0.3
56-	43.5864-	108.9017-	2-	15-	0-	W07265	39030	-0.09	605	46680	59	-90	7.6	85	3.1	3	1.3	20480	8.9	14780	33	0.3
56-	43.4842-	109.0075-	2-	15-	0-	W07266	51850	-0.08	668	12540	60	-59	3.4	20	2.7	4	1.2	12070	13.7	17260	40	0.4
56-	43.4944-	109.0253-	2-	12-	0-	W07267	44370	-0.08	649	42620	47	150	4.1	31	2.6	4	1.3	14610	9.3	14610	28	0.3
56-	43.5064-	109.0447-	2-	12-	0-	W07268	41090	-0.09	347	56680	41	195	4.8	36	2.6	3	1.0	15070	8.2	15770	26	0.3
56-	43.5125-	109.0750-	2-	15-	0-	W07269	45250	-0.08	664	28860	51	-53	6.0	42	3.0	4	1.1	17650	8.9	14700	29	0.4
56-	43.5356-	109.0131-	2-	15-	0-	W07270	52840	-0.09	818	9538	67	-61	3.7	20	4.3	5	1.2	11510	8.9	20900	33	0.3
56-	43.5617-	109.0369-	2-	15-	0-	W07272	40920	-0.09	311	50800	42	-61	5.5	37	2.3	4	1.0	16330	7.9	19480	21	0.4
56-	43.5614-	109.0331-	2-	15-	0-	W07273	36330	-0.08	264	50020	46	-97	7.3	64	3.3	3	1.1	18830	7.9	15210	29	0.4
56-	43.5536-	109.0119-	2-	15-	0-	W07274	43790	-0.10	312	51090	46	63	4.5	33	2.6	4	1.0	15160	7.1	18040	26	0.3
56-	43.5514-	109.0103-	2-	15-	0-	W07275	47120	-0.08	701	17500	46	-50	4.2	25	2.5	5	1.1	15210	7.4	12840	29	0.3
56-	43.5789-	109.1222-	2-	15-	0-	W07276	74140	-0.10	1116	27800	73	-82	10.3	92	2.5	3	1.4	25960	8.7	21770	47	0.3
56-	43.5647-	109.1083-	2-	12-	0-	W07277	39050	-0.07	1101	44470	41	-56	6.5	39	1.8	4	1.2	14840	11.9	13070	24	0.4
56-	43.5349-	109.0853-	2-	15-	0-	W07278	44670	-0.09	732	31140	50	-58	3.8	35	3.1	4	1.1	14050	10.4	16980	36	0.4
56-	43.5342-	109.0878-	2-	15-	0-	W07279	43420	-0.07	1090	22480	46	-65	2.6	31	2.0	3	1.2	11480	14.8	13790	30	0.3
56-	43.5322-	109.0978-	2-	15-	0-	W07280	37210	-0.08	650	30230	42	-55	4.0	28	2.2	3	1.1	11770	10.6	9731	27	0.3
56-	43.5403-	109.1075-	2-	15-	0-	W07281	36950	-0.07	748	38690	39	-56	3.7	17	1.7	3	1.1	10860	7.6	11310	19	0.3
56-	43.5408-	109.1069-	2-	12-	0-	W07282	40760	-0.09	712	38570	49	-60	5.1	41	1.9	3	1.2	13240	8.4	11880	24	0.3
56-	43.5053-	109.1172-	2-	15-	0-	W07283	40840	-0.09	620	29350	50	-68	5.2	35	3.6	5	1.1	16130	5.8	13920	30	0.3
56-	43.5072-	109.2192-	2-	15-	0-	W07284	44160	-0.09	510	96790	58	99	6.1	61	3.2	3	1.1	19370	8.0	16010	33	0.3
56-	43.5050-	109.2444-	2-	15-	0-	W07285	60040	-0.09	959	60180	77	-66	9.7	67	2.5	4	1.4	26320	8.9	22610	47	0.3
56-	43.5206-	109.2292-	2-	99-	0-	W07286	42450	-0.09	653	86330	65	-69	6.1	52	2.4	3	1.1	15460	8.2	18850	55	0.3
56-	43.5008-	109.1692-	2-	15-	0-	W07287	56720	-0.10	742	18980	67	-81	8.4	74	2.8	4	1.1	22820	9.4	15790	36	0.3
56-	43.5092-	109.1611-	2-	15-	0-	W07288	42750	-0.08	370	58060	46	-56	5.8	40	2.3	3	1.0	16320	10.6	14490	28	0.4
56-	43.5103-	109.1600-	2-	12-	0-	W07289	33710	-0.07	720	44190	35	-60	4.2	36	1.8	3	1.0	11250	14.5	13130	24	0.3
56-	43.5594-	109.1281-	2-	12-	0-	W07290	30180	-0.08	1034	40030	44	-53	2.2	27	1.6	4	1.6	8876	16.3	12770	24	0.3
56-	43.5602-	109.1275-	2-	12-	0-	W07291	56130	-0.09	860	37620	60	-85	8.9	83	-1.4	3	1.3	21540	9.1	15160	36	0.3
56-	43.5972-	109.1292-	2-	15-	0-	W07292	66000	-0.10	764	28610	85	-69	6.9	60	3.0	5	1.4	26830	9.4	31350	40	0.5
56-	43.5861-	109.1492-	2-	12-	0-	W07293	72900	-0.12	1181	38560	77	-104	25.4	274	-1.8	3	2.1	53530	8.2	16540	59	0.2
56-	43.5850-	109.1500-	2-	12-	0-	W07294	77500	-0.15	1434	39370	99	-114	20.1	186	-2.2	3	1.8	38710	6.1	14200	53	-0.2
56-	43.5886-	109.1375-	2-	11-	0-	W07295	82670	-0.11	1494	28500	65	-122	11.7	110	-1.6	2	1.7	25600	3.9	18400	42	0.2
56-	43.6008-	109.1550-	2-	12-	0-	W07296	75890	-0.14	1210	41480	76	-109	23.8	280	-2.0	3	1.8	58940	9.1	12040	51	-0.2
56-	43.6147-	109.1317-	2-	11-	0-	W07297	59480	-0.10	700	11210	102	-63	9.3	58	3.6	6	1.8	25740	20.6	26040	63	0.5
56-	43.5289-	109.1586-	2-	11-	0-	W07298	28110	-0.11	285	101500	24	99	1.7	30	-1.5	3	0.8	6028	6.9	9712	-12	0.2
56-	43.5297-	109.1603-	2-	12-	0-	W07299	40600	-0.09	344	81520	42	-85	4.6	32	2.1	4	1.0	15530	8.0	12710	31	0.3
56-	43.5289-	109.1550-	2-	12-	0-	W07300	50040	-0.10	377	60070	54	-70	6.6	48	3.0	4	1.3	20040	11.2	17160	28	0.5
56-	43.5983-	109.3178-	2-	11-	0-	W07301	70580	-0.09	1106	29770	79	-84	8.4	51	2.3	3	1.4	21540	5.4	11150	49	0.2
56-	43.6000-	109.3547-	2-	12-	0-	W07302	86180	-0.10	2521	38680	86	-112	10.2	104	-1.4	2	1.5	24060	6.1	16880	50	0.2
56-	43.5692-	109.3539-	2-	15-	0-	W07303	77850	-0.10	1616	40380	82	-105	13.5	99	-1.5	3	1.6	34780	5.5	19130	48	0.2
56-	43.5692-	109.3522-	2-	15-	0-	W07304	87480	-0.11	1409	37300	76	-111	13.1	104	2.4	2	1.3	32710	5.5	20830	48	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAB. SAMPLE LOCATION NUMBER	Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.5181-108.9086-2-15-						0-W07252	18680	402	5933	58	-2	5.2	3.9	-200	-1	-1	7.2	2597	49	-1.3	68	0.408
56-43.5492-108.9439-2-15-						0-W07253	28550	514	5791	32	-2	5.2	4.7	-218	-1	-1	8.5	2784	40	3.1	56	0.335
56-43.5742-108.9181-2-12-						0-W07254	25120	334	7494	33	-2	5.1	3.3	-248	-1	-1	5.3	2739	33	2.6	-30	0.372
56-43.5833-108.9308-2-15-						0-W07255	28750	510	6588	39	-2	6.0	4.3	-226	-1	-1	7.3	3023	45	2.2	-32	0.290
56-43.5900-108.9506-2-15-						0-W07257	23220	452	6078	56	-2	5.8	4.2	-221	-1	-1	7.9	3083	40	2.8	51	0.291
56-43.5975-108.9714-2-15-						0-W07258	33890	2384	4917	51	-3	7.0	6.4	-495	-1	-1	9.2	3306	50	4.0	42	0.290
56-43.5972-108.9753-2-15-						0-W07259	21830	555	4608	52	-2	5.9	4.0	-272	-1	-1	8.3	3824	47	3.3	60	0.335
56-43.6061-109.0164-2-15-						0-W07260	16750	162	4671	72	-2	6.1	5.9	351	-1	-1	11.4	2778	44	3.0	60	0.182
56-43.5933-109.0575-2-12-						0-W07261	18310	338	5490	-27	-3	6.7	5.9	444	-1	-1	11.8	3541	45	2.9	-28	0.218
56-43.5978-109.0717-2-12-						0-W07262	32160	575	17270	-35	-3	10.6	5.4	787	-1	-1	7.1	3842	111	-2.3	-28	0.255
56-43.6191-109.0092-2-15-						0-W07263	7033	315	8009	57	-2	5.5	4.9	458	-1	-1	9.5	3115	50	2.8	62	0.199
56-43.5803-108.8811-2-15-						0-W07264	20690	419	8518	50	-2	5.9	3.6	-207	-1	-1	7.2	2903	39	2.8	73	0.314
56-43.5964-108.9017-2-15-						0-W07265	28620	1773	3773	-24	-2	7.2	4.7	-423	-1	-1	8.4	2857	53	2.9	-27	0.411
56-43.4842-109.0075-2-15-						0-W07266	8613	278	9219	68	-2	3.9	7.0	-180	-1	-1	12.5	2081	41	4.0	-26	0.367
56-43.4944-109.0252-2-12-						0-W07267	20040	312	6598	53	-2	5.2	4.2	-219	-1	-1	7.3	2394	52	3.2	-15	0.426
56-43.5064-109.0447-2-12-						0-W07268	21540	330	7628	51	-2	5.5	3.7	246	-1	-1	7.9	2636	47	2.8	64	0.311
56-43.5125-109.0750-2-15-						0-W07269	12440	321	6454	56	-2	5.5	4.1	251	-1	-1	8.9	2608	54	2.7	64	0.394
56-43.5356-109.0131-2-15-						0-W07270	7548	290	9642	72	-2	3.8	6.1	-189	-1	-1	13.6	2092	37	3.1	72	0.374
56-43.5617-109.0369-2-15-						0-W07272	28700	388	6723	59	-2	6.0	4.2	-202	-1	-1	6.6	3240	43	2.9	43	0.306
56-43.5614-109.0331-2-15-						0-W07273	47010	1880	4080	57	-2	6.7	3.8	-414	-1	-1	7.5	2572	43	2.4	111	0.377
56-43.5534-109.0119-2-15-						0-W07274	28560	372	6918	-24	-2	5.9	5.2	-205	-1	-1	6.7	3346	41	-1.6	83	0.321
56-43.5514-109.0103-2-15-						0-W07275	9465	342	3522	-22	-2	5.3	4.4	-207	-1	-1	8.3	2518	46	2.8	-34	0.422
56-43.5789-109.1222-2-15-						0-W07276	18660	406	15430	73	-2	7.6	4.5	502	-1	-1	12.4	2946	60	2.8	53	0.283
56-43.5647-109.1083-2-12-						0-W07277	15870	258	6648	38	-2	5.4	4.0	-193	-1	-1	7.0	2810	38	3.3	46	0.331
56-43.5360-109.0853-2-15-						0-W07278	13700	256	7217	54	-2	4.8	4.3	-197	-1	-1	8.5	2752	44	2.3	42	0.404
56-43.5242-109.0878-2-15-						0-W07279	10660	272	8611	54	-2	3.7	5.0	-201	-1	-1	9.7	2222	36	2.5	-13	0.368
56-43.5322-109.0978-2-15-						0-W07280	12530	293	6174	37	-2	4.2	3.7	-178	-1	-1	6.4	2016	40	2.5	43	0.437
56-43.5403-109.1075-2-15-						0-W07281	8411	322	6956	-14	-2	4.2	3.0	-183	-1	-1	5.7	2079	29	1.8	74	0.319
56-43.5408-109.1169-2-12-						0-W07282	13820	344	7622	-23	-2	5.3	-1.0	-198	-1	-1	6.6	2547	47	2.0	-30	0.388
56-43.5057-109.1172-2-15-						0-W07283	11330	385	6529	-23	-2	5.6	4.1	-243	-1	-1	8.7	2874	54	2.5	-30	0.463
56-43.5072-109.2192-2-15-						0-W07284	47760	350	5364	36	-2	6.2	4.3	-206	-1	-1	10.3	2695	52	3.2	-17	0.227
56-43.5050-109.2444-2-15-						0-W07285	28610	545	6553	76	-2	7.8	6.5	-244	-1	-1	19.3	3075	61	4.0	-96	0.269
56-43.5106-109.2392-2-99-						0-W07286	64050	351	8653	-23	-2	4.8	7.2	1213	-1	-1	15.2	2366	42	3.9	-96	1.561
56-43.5008-109.1892-2-15-						0-W07287	21200	566	8215	60	-3	7.4	5.7	-299	-1	-1	12.9	3583	61	4.0	150	0.216
56-43.5092-109.1611-2-15-						0-W07288	20840	357	6183	72	-2	5.8	4.0	-187	-1	-1	7.3	3000	43	3.0	56	0.353
56-43.5103-109.1500-2-12-						0-W07289	15200	296	8782	29	-2	4.2	4.1	-187	-1	-1	5.9	2847	36	3.2	52	0.390
56-43.5594-109.1281-2-12-						0-W07290	12020	286	6507	-19	-2	3.5	3.5	-169	-1	-1	6.1	2227	31	3.5	52	0.452
56-43.5603-109.1275-2-12-						0-W07291	22220	418	12270	-25	-2	7.4	4.2	543	-1	-1	7.9	3930	69	-1.7	79	0.352
56-43.5972-109.1292-2-15-						0-W07292	19320	431	7896	80	-3	7.4	6.1	384	-1	-1	14.7	3136	52	3.5	34	0.256
56-43.5861-109.1492-2-12-						0-W07293	42220	737	21270	-32	-3	16.0	5.8	900	-1	-1	10.4	6705	165	3.6	102	0.230
56-43.5850-109.1500-2-12-						0-W07294	35460	726	19680	-39	-4	12.3	6.2	976	-1	-1	8.6	5265	137	-2.8	81	0.373
56-43.5886-109.1275-2-11-						0-W07295	15870	489	22160	-30	-3	7.3	3.3	931	-1	-1	7.0	3205	82	-2.0	-13	0.434
56-43.6008-109.1550-2-12-						0-W07296	34660	677	20930	-39	-3	13.8	5.2	770	-1	-1	10.0	8233	209	-2.5	119	0.249
56-43.6147-109.1317-2-11-						0-W07297	11670	450	6111	81	-3	8.6	7.6	-244	-1	-1	21.9	4153	54	4.9	34	0.255
56-43.5289-109.1586-2-11-						0-W07298	17080	202	5245	-30	-3	3.2	3.0	1438	-1	-1	4.5	2291	26	-2.2	-42	0.609
56-43.5297-109.1603-2-12-						0-W07299	26410	497	8267	45	-2	5.8	3.2	591	-1	-1	6.4	3067	38	3.0	-29	0.397
56-43.5289-109.1556-2-12-						0-W07300	24620	374	7908	56	-3	7.3	4.9	-225	-1	-1	9.3	3340	54	4.2	-34	0.300
56-43.5983-109.3178-2-11-						0-W07301	17540	326	13870	-26	-2	5.9	4.0	701	-1	-1	12.2	2898	55	3.4	80	0.287
56-43.6000-109.3547-2-12-						0-W07302	18700	554	29610	-25	-2	5.5	5.4	1166	-1	-1	9.7	3797	70	3.1	36	0.216
56-43.5692-109.3539-2-15-						0-W07303	17270	711	16760	66	-3	9.4	4.4	588	-1	-1	10.7	4461	101	3.7	-33	0.238
56-43.5692-109.3522-2-15-						0-W07304	10490	660	20850	35	-3	9.0	5.0	605	-1	-1	11.1	3277	89	-1.9	112	0.288

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.5619-	109.3481-	2-	12-		0-W07305-	10/08/79-	11-	30-	8.0-	-	-	8.1-	600-	8-1-7-4-7-	2-2-1-2-2-1-3-1-	-3-	-	-	-	-	3.05										
56-	43.5611-	109.3453-	2-	12-		0-W07306-	10/08/79-	11-	30-	13.2-	-	-	8.3-	600-	12-1-7-5-6-	2-2-1-2-2-1-3-1-	-3-	-	-	-	-	4.17										
56-	43.5525-	109.3514-	2-	12-		0-W07307-	10/08/79-	12-	30-	8.5-	-	-	8.0-	450-	35-1-6-4-7-	2-2-1-2-2-1-3-1-	-3-	-	-	-	-	3.42										
56-	43.5528-	109.3531-	2-	15-		0-W07308-	10/08/79-	12-	30-	-	-	-	-	-	81-1-6-4-7-	-1-	-2-3-1-3-1-	-3-	-	-	-	-	3.02										
56-	43.5294-	109.3406-	2-	12-		0-W07309-	10/08/79-	13-	30-	14.0-	-	-	8.5-	400-	20-1-6-4-6-3-	3-1-2-2-1-3-1-	-3-	-	-	-	-	3.47										
56-	43.5296-	109.3386-	2-	15-		0-W07310-	10/08/79-	13-	30-	-	-	-	-	-	40-1-6-5-4-	-1-	-2-2-1-3-1-	-3-	-	-	-	-	3.22										
56-	43.5153-	109.3331-	2-	15-		0-W07311-	10/08/79-	14-	30-	-	-	-	-	-	71-1-6-4-6-	-1-	-2-2-1-3-1-	-3-	-	-	-	-	6.87										
56-	43.5144-	109.3331-	2-	12-		0-W07312-	10/08/79-	14-	30-	16.2-	-	-	8.5-	400-	40-1-6-4-6-	2-2-1-2-2-1-3-2-	-3-	-	-	-	-	3.53										
56-	43.5086-	109.3247-	2-	15-		0-W07313-	10/08/79-	14-	30-	-	-	-	-	-	28-1-6-4-6-	-1-	-2-3-1-3-2-	-3-	-	-	-	-	3.94										
56-	43.5025-	109.3064-	2-	15-		0-W07314-	10/08/79-	14-	30-	-	-	-	-	-	35-1-6-4-6-	-1-	-2-3-1-3-2-	-3-	-	-	-	-	4.41										
56-	43.7478-	109.1553-	2-	15-		0-W07315-	10/10/79-	14-	30-	-	-	-	-	-	8-4-9-4-6-	-1-	-2-1-2-5-3-	-1-	-	-	-	-	1.89										
56-	43.7486-	109.1544-	2-	12-		0-W07316-	10/10/79-	14-	30-	9.2-	-	-	8.1-	70-	10-4-7-2-7-3-	3-1-2-4-2-5-3-	-1-	-	-	-	-	2.15										
56-	43.7383-	109.1461-	2-	12-		0-W07317-	10/10/79-	14-	29-	11.2-	-	-	8.2-	80-	12-4-7-2-7-3-	3-1-2-4-1-5-3-	-1-	-	-	-	-	2.01										
56-	43.7272-	109.1394-	2-	12-		0-W07318-	10/10/79-	15-	28-	12.3-	-	-	7.7-	80-	18-4-7-4-6-	3-3-1-2-1-3-5-3-	-1-	-	-	-	-	2.37										
56-	43.7275-	109.1372-	2-	12-		0-W07319-	10/10/79-	15-	28-	10.0-	-	-	7.6-	100-	12-4-7-4-6-	3-3-1-2-4-1-5-3-	-1-	-	-	-	-	2.32										
56-	43.7186-	109.1283-	2-	12-		0-W07320-	10/10/79-	15-	28-	12.5-	-	-	8.1-	105-	20-4-7-4-6-	2-2-1-2-4-1-5-3-	-1-	-	-	-	-	2.30										
56-	43.7111-	109.1214-	2-	12-		0-W07321-	10/10/79-	16-	28-	11.3-	-	-	7.7-	80-	8-4-7-4-6-	3-3-1-2-1-3-5-3-	-1-	-	-	-	-	2.05										
56-	43.6942-	109.1080-	2-	12-		0-W07322-	10/10/79-	16-	28-	10.5-	-	-	7.9-	90-	12-4-7-4-6-	3-3-1-2-4-2-5-3-	-1-	-	-	-	-	2.35										
56-	43.6939-	109.1069-	2-	12-		0-W07323-	10/10/79-	16-	28-	14.2-	-	-	7.9-	180-	12-4-7-4-6-	2-2-1-2-4-1-4-2-	-1-	-	-	-	-	2.00										
56-	43.7111-	109.0922-	2-	12-		0-W07324-	10/10/79-	16-	28-	12.0-	-	-	7.4-	150-	11-4-7-4-6-	2-2-1-2-4-2-4-2-	-1-	-	-	-	-	2.32										
56-	43.6878-	109.1053-	2-	15-		0-W07325-	10/10/79-	17-	28-	-	-	-	-	-	16-4-7-4-6-	-1-	-2-4-2-4-2-	-3-	-	-	-	-	1.69										
56-	43.6772-	109.1053-	2-	12-		0-W07326-	10/10/79-	17-	28-	12.5-	-	-	7.8-	110-	10-4-6-5-6-	3-3-1-2-2-2-4-1-	-3-	-	-	-	-	2.06										
56-	43.6672-	109.0858-	2-	12-		0-W07327-	10/10/79-	18-	26-	12.6-	-	-	7.8-	260-	12-1-1-6-6-	3-3-1-2-4-1-4-1-	-3-	-	-	-	-	1.96										
56-	43.6664-	109.0878-	2-	12-		0-W07328-	10/10/79-	18-	25-	8.8-	-	-	7.7-	250-	14-1-7-5-6-	2-2-1-2-4-1-4-1-	-1-	-	-	-	-	1.90										
56-	43.6861-	109.0736-	2-	12-		0-W07329-	10/10/79-	19-	24-	10.2-	-	-	8.3-	250-	10-4-6-6-6-	2-2-1-2-4-1-4-1-	-3-	-	-	-	-	2.04										
56-	43.6853-	109.1169-	2-	15-		0-W07330-	10/11/79-	8-	20-	-	-	-	-	-	8-4-7-5-6-	-1-	-2-4-2-5-2-	-1-	-	-	-	-	2.37										
56-	43.6886-	109.1256-	2-	15-		0-W07331-	10/11/79-	8-	20-	-	-	-	-	-	16-4-6-5-6-	-1-	-2-4-1-4-2-	-1-	-	-	-	-	1.90										
56-	43.6872-	109.1342-	2-	15-		0-W07332-	10/11/79-	9-	20-	-	-	-	-	-	16-4-7-5-6-	-1-	-2-4-2-4-2-	-1-	-	-	-	-	2.15										
56-	43.6926-	109.1525-	2-	12-		0-W07333-	10/11/79-	9-	20-	3.5-	-	-	7.5-	130-	12-4-7-5-6-	2-2-1-2-4-2-4-2-	-1-	-	-	-	-	1.85										
56-	43.6900-	109.1514-	2-	12-		0-W07334-	10/11/79-	9-	20-	4.2-	-	-	7.2-	90-	18-4-7-5-6-	2-2-1-2-1-3-4-2-	-1-	-	-	-	-	2.26										
56-	43.7031-	109.1761-	2-	12-		0-W07335-	10/11/79-	9-	24-	6.0-	-	-	7.3-	120-	5-4-6-4-6-	2-2-1-2-4-2-4-2-	-1-	-	-	-	-	1.93										
56-	43.7072-	109.1881-	2-	12-		0-W07336-	10/11/79-	10-	25-	5.0-	-	-	7.3-	70-	12-4-7-5-6-	2-2-1-2-1-3-4-1-	-1-	-	-	-	-	1.96										
56-	43.7361-	109.2106-	2-	15-		0-W07337-	10/11/79-	11-	28-	-	-	-	-	-	15-4-7-4-7-	-1-	-2-1-2-5-1-	-1-	-	-	-	-	2.76										
56-	43.7297-	109.2069-	2-	12-		0-W07338-	10/11/79-	11-	28-	5.5-	-	-	7.4-	80-	18-4-7-4-6-	3-3-1-2-1-2-5-1-	-1-	-	-	-	-	2.72										
56-	43.7236-	109.2042-	2-	15-		0-W07339-	10/11/79-	12-	28-	-	-	-	-	-	16-4-7-4-6-	-1-	-2-1-3-5-1-	-1-	-	-	-	-	2.02										
56-	43.7211-	109.2044-	2-	12-		0-W07340-	10/11/79-	12-	30-	7.2-	-	-	7.4-	110-	14-4-7-4-6-	2-2-1-2-1-3-4-1-	-1-	-	-	-	-	1.97										
56-	43.3117-	108.9131-	2-	15-		0-W07341-	10/04/79-	12-	25-	-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-1-1-	-9-	-	-	-	-	4.68										
56-	43.3383-	108.9617-	2-	15-		0-W07342-	10/04/79-	12-	26-	-0-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-2-1-	-	-	-	-	-	3.21										
56-	43.3289-	108.9389-	2-	15-		0-W07343-	10/04/79-	13-	26-	-	-	-	-	-	8-1-7-4-7-	-1-	-3-4-2-2-1-	-	-	-	-	-	3.51										
56-	43.2978-	108.9314-	2-	15-		0-W07344-	10/04/79-	14-	28-	-	-	-	-	-	6-1-7-4-7-	-1-	-3-4-2-2-1-	-	-	-	-	-	3.40										
56-	43.2842-	108.9678-	2-	15-		0-W07345-	10/04/79-	13-	28-	-	-	-	-	-	6-1-7-4-7-	-1-	-3-4-2-2-1-	-1-	-	-	-	-	3.16										
56-	43.3128-	108.9775-	2-	15-		0-W07346-	10/04/79-	14-	29-	-	-	-	-	-	6-1-7-4-7-	-1-	-3-4-2-2-1-	-1-	-	-	-	-	3.53										
56-	43.2808-	108.9578-	2-	15-		0-W07347-	10/04/79-	14-	29-	-	-	-	-	-	12-1-7-4-7-	-1-	-3-4-2-2-1-	-1-	-	-	-	-	3.42										
56-	43.2506-	108.9331-	2-	15-		0-W07348-	10/04/79-	16-	25-	-0-	-	-	-	-	7-1-7-5-8-	-1-	-3-4-3-2-1-	-1-	-	-	-	-	3.13										
56-	43.2514-	108.9322-	2-	15-		0-W07350-	10/04/79-	16-	25-	-0-	-	-	-	-	8-1-7-4-7-	-2-	-2-4-3-2-1-	-1-	-	-	-	-	3.28										
56-	43.2764-	108.8964-	2-	15-		0-W07351-	10/04/79-	17-	20-	-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-1-1-	-4-	-	-	-	-	3.02										
56-	43.2772-	108.8947-	2-	15-		0-W07352-	10/04/79-	17-	23-	-0-	-	-	-	-	12-1-7-4-7-	-1-	-3-4-2-2-1-	-4-	-	-	-	-	3.28										
56-	43.2347-	108.9167-	2-	15-		0-W07353-	10/04/79-	17-	20-	-	-	-	-	-	2-1-7-4-7-	-1-	-3-4-2-2-1-	-1-	-	-	-	-	3.43										
56-	43.2314-	108.9481-	2-	15-		0-W07355-	10/04/79-	18-	21-	-0-	-	-	-	-	12-1-7-4-7-	-1-	-3-4-2-2-1-	-1-	-	-	-	-	4.15										
56-	43.0661-	109.2889-	2-	12-		0-W07357-	10/05/79-	12-	13-	7.0-	0-	-	8.0-	65-	6-2-7-5-8-	2-2-1-3-3-2-3-1-	-	-	-	-	-	3.15										
56-	43.0667-	109.2858-	2-	11-		0-W07358-	10/05/79-	12-	14-	6.0-	0-	-	9.0-	55-	4-2-7-5-8-	2-2-1-3-3-2-3-1-	-1-	-	-	-	-	3.87										

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.5619-109.3481-2-12-						0-W07305	-5	-5	-5	32	-20	36	17	-10	31	3	24
56-43.5611-109.3453-2-12-						0-W07306	-5	8	-5	26	-20	45	20	-10	-15	3	28
56-43.5525-109.3514-2-12-						0-W07307	-5	6	-5	18	-20	38	18	-10	-15	3	24
56-43.5528-109.3531-2-15-						0-W07308	-5	-5	-5	35	-20	22	15	-10	-15	2	24
56-43.5294-109.3406-2-12-						0-W07309	-5	-5	-5	28	-20	31	20	-10	-15	3	21
56-43.5286-109.3386-2-15-						0-W07310	-5	6	-5	30	-20	46	22	-10	-15	3	37
56-43.5153-109.3331-2-15-						0-W07311	-5	7	-5	27	-20	49	26	-10	-15	3	31
56-43.5164-109.3331-2-12-						0-W07312	-5	-5	-5	27	-20	32	18	-10	-15	3	26
56-43.5086-109.3247-2-15-						0-W07313	-5	9	-5	34	-20	26	19	-10	-15	3	37
56-43.5025-109.3064-2-15-						0-W07314	-5	9	-5	24	-20	35	24	-10	-15	2	30
56-43.7478-109.1553-2-15-						0-W07315	-5	12	-5	21	-20	-15	15	-10	-15	2	23
56-43.7486-109.1544-2-12-						0-W07316	-5	7	-5	31	-20	76	26	-10	-15	3	22
56-43.7383-109.1461-2-12-						0-W07317	-5	-5	-5	29	-20	60	18	-10	-15	2	28
56-43.7272-109.1394-2-12-						0-W07318	-5	-5	-5	29	-20	59	19	-10	-15	2	26
56-43.7275-109.1372-2-12-						0-W07319	-5	6	-5	37	-20	58	25	-10	-15	1	21
56-43.7186-109.1283-2-12-						0-W07320	-5	-5	-5	20	-20	75	16	-10	-15	2	27
56-43.7111-109.1214-2-12-						0-W07321	-5	-5	-5	29	-20	51	14	-10	-15	2	25
56-43.6942-109.1089-2-12-						0-W07322	-5	-5	-5	38	-20	52	21	-10	-15	1	23
56-43.6939-109.1069-2-12-						0-W07323	-5	-5	-5	29	-20	59	17	-10	-15	-1	27
56-43.7111-109.0922-2-12-						0-W07324	-5	5	-5	25	-20	41	8	-10	-15	2	26
56-43.6878-109.1053-2-15-						0-W07325	-5	-5	-5	25	-20	49	19	-10	-15	1	20
56-43.6772-109.1053-2-12-						0-W07326	-5	-5	-5	27	-20	34	11	-10	-15	3	26
56-43.6672-109.0858-2-12-						0-W07327	-5	5	-5	22	-20	52	20	-10	-15	2	28
56-43.6664-109.0878-2-12-						0-W07328	-5	-5	-5	25	-20	55	15	-10	15	2	22
56-43.6861-109.0736-2-12-						0-W07329	-5	6	-5	25	-20	28	13	-10	-15	-1	34
56-43.6853-109.1169-2-15-						0-W07330	-5	-5	-5	40	-20	47	10	-10	-15	2	30
56-43.6886-109.1256-2-15-						0-W07331	-5	7	-5	25	-20	73	16	-10	-15	1	30
56-43.6872-109.1342-2-15-						0-W07332	-5	-5	-5	10	-20	69	18	-10	15	3	27
56-43.6925-109.1525-2-12-						0-W07333	-5	-5	-5	31	-20	45	16	-10	-15	2	25
56-43.6900-109.1514-2-12-						0-W07334	-5	-5	-5	30	-20	66	19	-10	-15	2	28
56-43.7031-109.1761-2-12-						0-W07335	-5	-5	-5	38	-20	66	15	-10	-15	-1	30
56-43.7072-109.1881-2-12-						0-W07336	-5	5	-5	33	-20	48	20	-10	-15	2	41
56-43.7361-109.2106-2-15-						0-W07337	-5	-5	-5	24	-20	32	16	-10	-15	3	33
56-43.7297-109.2069-2-12-						0-W07338	-5	-5	-5	54	-20	63	14	-10	-15	-1	30
56-43.7236-109.2042-2-15-						0-W07339	-5	-5	-5	20	-20	73	16	-10	-15	3	32
56-43.7211-109.2044-2-12-						0-W07340	-5	-5	-5	29	-20	60	17	-10	-15	1	32
56-43.3117-108.9131-2-15-						0-W07341	-5	-5	-5	15	-20	-15	13	-10	-15	2	38
56-43.3383-108.9617-2-15-						0-W07342	-5	-5	-5	25	-20	18	13	-10	-15	2	43
56-43.3289-108.9389-2-15-						0-W07343	-5	-5	-5	21	-20	20	9	-10	-15	3	32
56-43.2978-108.9314-2-15-						0-W07344	-5	-5	-5	24	-20	19	10	-10	-15	3	32
56-43.2842-108.9678-2-15-						0-W07345	-5	5	-5	21	-20	33	12	-10	-15	3	38
56-43.3128-108.9775-2-15-						0-W07346	-5	6	-5	27	-20	22	17	-10	-15	2	41
56-43.2808-108.9578-2-15-						0-W07347	-5	-5	-5	16	-20	15	11	-10	-15	3	39
56-43.2506-108.9331-2-15-						0-W07348	-5	5	-5	24	-20	17	11	-10	-15	3	46
56-43.2514-108.9322-2-15-						0-W07350	-5	6	-5	21	-20	15	10	-10	-15	2	62
56-43.2764-108.8964-2-15-						0-W07351	-5	-5	-5	30	-20	-15	10	-10	-15	2	42
56-43.2772-108.8947-2-15-						0-W07352	-5	6	-5	17	-20	22	21	-10	-15	3	49
56-43.2347-108.9167-2-15-						0-W07353	-5	8	-5	26	-20	22	17	-10	25	-1	37
56-43.2314-108.9481-2-15-						0-W07355	-5	8	-5	33	-20	16	18	-10	-15	3	41
56-43.0661-109.2889-2-12-						0-W07357	-5	6	-5	53	-20	55	9	-10	-15	-1	39
56-43.0667-109.2858-2-11-						0-W07358	-5	-5	-5	47	-20	32	14	-10	-15	-1	21

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.5619-	109.3491-	2-	12-	0-	W07305	82300	-0.10	1621	38440	80	-111	11.6	103	1.9	3	1.7	25390	5.8	19830	55	0.2
56-	43.5611-	109.3453-	2-	12-	0-	W07306	76310	-0.13	592	38890	102	-88	9.1	121	-1.8	4	1.5	22380	8.7	20700	59	0.7
56-	43.5525-	109.3514-	2-	12-	0-	W07307	84120	-0.11	1344	36220	95	-119	11.2	128	-1.6	3	1.6	27370	6.8	18510	52	0.2
56-	43.5528-	109.3531-	2-	15-	0-	W07308	82420	-0.12	1582	39100	81	-105	14.5	106	2.2	3	1.5	33870	6.6	23320	59	0.3
56-	43.5294-	109.3406-	2-	12-	0-	W07309	78820	-0.10	1888	39840	99	-104	14.3	118	-1.5	3	1.8	33270	7.7	16210	57	0.3
56-	43.5286-	109.3386-	2-	15-	0-	W07310	90690	-0.11	550	18090	94	-90	9.5	137	-1.8	3	1.5	23690	9.0	18710	56	0.2
56-	43.5153-	109.3331-	2-	15-	0-	W07311	90240	-0.11	527	15370	199	-98	11.0	157	-1.7	6	1.5	29810	17.1	20590	119	0.4
56-	43.5164-	109.3331-	2-	12-	0-	W07312	84580	-0.10	1357	42900	101	-105	12.0	110	-1.5	3	1.5	30850	9.0	19050	60	0.3
56-	43.5086-	109.3247-	2-	15-	0-	W07313	72840	-0.09	640	40030	102	-75	9.8	105	1.8	5	1.5	23370	13.9	25350	61	0.4
56-	43.5025-	109.3064-	2-	15-	0-	W07314	53630	-0.10	739	39840	108	-68	5.6	58	2.6	6	1.3	15860	15.4	22970	58	0.5
56-	43.7478-	109.1553-	2-	15-	0-	W07315	80560	-0.11	1190	33920	94	-123	17.8	177	-1.8	3	1.6	39660	6.8	12020	53	0.1
56-	43.7486-	109.1544-	2-	12-	0-	W07316	85220	-0.11	1288	34920	92	165	17.6	149	-1.8	2	1.6	33290	5.1	15550	46	-0.1
56-	43.7383-	109.1461-	2-	12-	0-	W07317	78260	-0.11	1270	33120	90	-103	19.5	142	-1.8	3	1.6	38200	5.1	14240	50	0.2
56-	43.7272-	109.1394-	2-	12-	0-	W07318	80550	-0.12	1517	31500	103	-108	16.2	122	2.0	2	1.6	29840	5.0	17340	56	0.4
56-	43.7275-	109.1372-	2-	12-	0-	W07319	79670	-0.12	1259	38750	117	191	20.8	221	-1.8	3	1.9	44880	10.1	14220	62	0.5
56-	43.7186-	109.1283-	2-	12-	0-	W07320	79730	-0.13	1103	37510	104	217	20.3	216	-2.0	2	1.8	44420	7.4	11830	49	0.4
56-	43.7111-	109.1214-	2-	12-	0-	W07321	81760	-0.12	1460	39100	94	-111	17.2	160	-1.9	3	1.6	34290	4.9	16300	48	0.2
56-	43.6942-	109.1089-	2-	12-	0-	W07322	79830	-0.13	1262	32880	96	-131	18.2	160	-2.1	3	1.5	39260	6.3	16790	55	0.4
56-	43.6930-	109.1069-	2-	12-	0-	W07323	86870	-0.13	1423	41820	66	-117	17.1	159	-2.0	2	1.6	39770	5.3	13600	49	0.3
56-	43.7111-	109.0922-	2-	12-	0-	W07324	81530	-0.12	1361	36720	80	-110	21.4	121	-1.9	3	1.8	40390	5.0	14420	55	0.2
56-	43.6878-	109.1053-	2-	15-	0-	W07325	92260	-0.12	1586	48580	91	-104	15.0	99	-1.9	3	1.6	33610	3.3	16160	46	0.1
56-	43.6772-	109.1053-	2-	12-	0-	W07326	87350	-0.11	1616	39920	85	-123	16.3	94	-1.8	3	1.8	31490	4.5	14090	47	0.2
56-	43.6672-	109.0858-	2-	12-	0-	W07327	83670	-0.12	1340	44480	81	-108	17.2	180	-1.9	2	1.6	40060	4.9	14080	52	-0.1
56-	43.6664-	109.0878-	2-	12-	0-	W07328	86300	-0.11	1918	47590	73	-104	19.7	113	-1.7	2	1.7	44850	3.4	11710	59	0.2
56-	43.6861-	109.0736-	2-	12-	0-	W07329	82690	-0.12	1503	41430	82	-107	15.4	166	-2.1	2	1.5	33740	3.7	14500	42	0.5
56-	43.6853-	109.1169-	2-	15-	0-	W07330	80030	-0.11	1397	32570	67	-116	15.3	156	-1.8	2	1.3	33980	4.8	14560	42	0.3
56-	43.6886-	109.1256-	2-	15-	0-	W07331	80920	-0.11	1303	37810	87	-112	19.7	186	-1.8	2	1.6	40720	4.8	15110	46	0.2
56-	43.6872-	109.1342-	2-	15-	0-	W07332	80070	-0.11	1589	39120	72	-103	18.8	196	-1.7	2	1.4	40190	4.5	14530	51	-0.1
56-	43.6925-	109.1525-	2-	12-	0-	W07333	80740	-0.13	1600	39630	107	-111	18.5	164	-2.1	2	1.7	36870	5.9	13650	45	0.2
56-	43.6900-	109.1514-	2-	12-	0-	W07334	82410	-0.12	1338	38300	83	146	18.3	155	-1.9	2	2.0	35910	6.3	12060	56	-0.1
56-	43.7031-	109.1761-	2-	12-	0-	W07335	83110	-0.12	1134	38860	81	-113	21.4	208	-1.9	3	1.9	46510	5.6	16470	53	0.2
56-	43.7072-	109.1881-	2-	12-	0-	W07336	78470	-0.10	1407	25190	68	-103	15.7	109	-1.6	2	1.2	30210	4.0	16450	47	-0.1
56-	43.7361-	109.2106-	2-	15-	0-	W07337	81460	-0.11	1411	31590	112	-112	10.8	114	-1.7	3	1.9	24050	8.0	20810	69	-0.1
56-	43.7297-	109.2069-	2-	12-	0-	W07338	81600	-0.12	1855	30760	116	192	14.5	126	-2.0	4	1.8	29340	5.7	20320	67	0.5
56-	43.7236-	109.2042-	2-	15-	0-	W07339	79260	-0.12	1139	39720	88	-115	21.2	234	-1.9	3	2.0	44550	7.8	13600	53	0.2
56-	43.7211-	109.2044-	2-	12-	0-	W07340	79010	-0.11	1354	37160	85	144	22.9	188	-1.8	3	1.6	40970	5.2	14720	62	0.3
56-	43.3117-	108.9131-	2-	15-	0-	W07341	49800	-0.09	607	30990	85	-57	5.4	58	2.8	5	1.3	16710	13.6	16840	43	0.4
56-	43.3383-	108.9617-	2-	15-	0-	W07342	58450	-0.09	571	32290	55	-91	4.8	43	4.6	4	1.1	18400	4.6	17050	37	0.3
56-	43.3289-	108.9389-	2-	15-	0-	W07343	60670	-0.08	645	20710	76	-77	7.2	77	3.0	4	1.3	20520	9.4	19310	48	0.4
56-	43.2978-	108.9314-	2-	15-	0-	W07344	56660	-0.08	743	26250	70	-71	7.8	48	4.9	4	1.4	20970	7.8	20410	30	0.4
56-	43.2842-	108.9678-	2-	15-	0-	W07345	64640	-0.12	630	22990	80	-78	7.9	54	5.7	4	1.2	22420	6.5	22090	39	0.4
56-	43.3128-	108.9775-	2-	15-	0-	W07346	64830	-0.10	632	12620	74	-84	7.7	64	4.3	5	1.4	23310	7.2	21580	38	0.3
56-	43.2808-	108.9578-	2-	15-	0-	W07347	61660	-0.09	625	12030	68	-75	7.7	64	3.5	4	1.4	22480	9.6	19800	41	0.3
56-	43.2506-	108.9331-	2-	15-	0-	W07348	51090	-0.08	557	29230	55	282	7.6	57	4.4	4	1.3	20170	8.0	17770	39	0.4
56-	43.2514-	108.9322-	2-	15-	0-	W07350	55050	-0.11	497	44790	71	-73	6.8	49	3.3	4	1.3	18450	6.4	16100	32	0.3
56-	43.2764-	108.8964-	2-	15-	0-	W07351	59190	-0.09	527	42300	59	-78	6.5	55	4.9	4	1.1	21160	5.8	21360	30	0.3
56-	43.2772-	108.8947-	2-	15-	0-	W07352	64450	-0.09	532	22490	66	-69	7.3	66	4.0	4	1.2	22940	7.0	20020	31	0.3
56-	43.2347-	108.9167-	2-	15-	0-	W07353	53590	-0.08	585	26660	61	-73	7.8	58	3.4	4	1.2	19490	8.8	17480	42	0.3
56-	43.2314-	108.9481-	2-	15-	0-	W07355	58510	-0.11	659	23140	118	-73	8.5	78	4.2	6	1.5	23220	13.3	19090	66	0.6
56-	43.0661-	109.2889-	2-	12-	0-	W07357	58850	-0.20	-309	14050	65	274	10.1	114	-3.1	6	1.3	32940	7.3	-5781	37	0.4
56-	43.0667-	109.2856-	2-	11-	0-	W07358	50410	-0.19	325	18120	55	532	-1.3	106	-2.8	9	2.8	22650	5.2	11270	58	0.7

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.5619-109.3481-2-12-						0-W07305	18660	535	22720	-28	-3	7.6	4.8	910	-1	-1	10.5	3867	72	2.7	77	0.290
56-43.5611-109.3453-2-12-						0-W07306	24850	397	13910	-34	-3	7.5	7.1	-267	-1	-1	29.1	2633	51	-2.1	69	0.143
56-43.5525-109.3514-2-12-						0-W07307	20330	462	23030	-29	-3	8.3	5.3	745	-1	-1	19.5	3879	86	3.9	-37	0.175
56-43.5528-109.3531-2-15-						0-W07308	23510	646	18840	72	-3	9.2	5.4	603	-1	-1	15.6	3622	98	3.8	123	0.194
56-43.5294-109.3406-2-12-						0-W07309	16220	656	20980	57	-3	8.5	5.9	702	-1	-1	18.0	4105	99	2.7	100	0.193
56-43.5286-109.3386-2-15-						0-W07310	19210	160	20180	60	-3	7.9	5.2	-228	-1	-1	32.1	2691	51	5.9	73	0.100
56-43.5153-109.3331-2-15-						0-W07311	16660	224	17610	49	-3	8.7	16.0	-284	-1	-1	79.8	3138	49	7.8	62	0.086
56-43.5164-109.3331-2-12-						0-W07312	12490	598	21710	45	-2	7.8	5.4	-299	-1	-1	21.7	2981	83	5.5	81	0.163
56-43.5086-109.3247-2-15-						0-W07313	26410	332	10750	75	-2	7.7	7.2	258	-1	-1	34.4	3658	47	6.3	-31	0.115
56-43.5025-109.3064-2-15-						0-W07314	17630	346	9663	56	-2	5.0	8.6	-220	-1	-1	30.0	3292	33	5.1	60	0.147
56-43.7478-109.1553-2-15-						0-W07315	36400	614	24040	-31	-3	12.4	5.0	1053	-1	-1	8.7	5003	116	3.7	85	0.217
56-43.7486-109.1544-2-12-						0-W07316	31900	530	25890	-33	-3	10.4	5.0	1099	-1	-1	10.6	3163	91	-2.0	119	0.203
56-43.7383-109.1461-2-12-						0-W07317	33400	588	20280	-31	-3	12.7	4.5	804	-1	-1	9.6	4280	112	3.4	137	0.209
56-43.7272-109.1394-2-12-						0-W07318	32720	559	22030	-35	-3	9.4	4.5	842	-1	-1	12.2	3654	79	-2.1	-38	0.194
56-43.7275-109.1372-2-12-						0-W07319	39770	654	23890	-33	-3	13.8	6.6	978	-1	-1	9.8	5734	137	-2.0	94	0.237
56-43.7186-109.1283-2-12-						0-W07320	37180	639	23660	-36	-3	12.6	6.1	918	-1	-1	6.9	5095	146	-2.1	55	0.258
56-43.7111-109.1214-2-12-						0-W07321	31950	593	25270	-31	-3	11.0	5.9	1210	-1	-1	9.5	4751	99	-2.2	-44	0.216
56-43.6942-109.1089-2-12-						0-W07322	36480	638	21190	-38	-3	11.2	5.4	823	-1	-1	9.7	5052	116	-2.2	53	0.242
56-43.6939-109.1069-2-12-						0-W07323	31010	543	22780	-35	-3	12.7	4.4	931	-1	-1	7.4	4602	138	-2.2	110	0.270
56-43.7111-109.0922-2-12-						0-W07324	35800	619	20410	-35	-3	13.7	5.6	1004	-1	-1	8.4	5112	120	4.3	-13	0.276
56-43.6878-109.1053-2-15-						0-W07325	26880	580	22690	-31	-3	11.3	6.2	1006	-1	1	8.1	4090	124	3.0	71	0.209
56-43.6772-109.1052-2-12-						0-W07326	30470	544	21500	-34	-3	9.5	5.0	1094	-1	-1	9.0	4270	94	2.8	58	0.229
56-43.6672-109.0858-2-12-						0-W07327	34740	536	21850	-33	-3	13.1	4.8	986	-1	-1	7.7	4233	143	-2.2	78	0.255
56-43.6664-109.0878-2-12-						0-W07328	31310	641	21150	-30	-3	12.7	6.3	1096	-1	-1	6.8	4746	168	3.4	99	0.279
56-43.6861-109.0736-2-12-						0-W07329	31520	583	22790	-33	-3	11.4	7.1	873	-1	-1	8.2	4817	130	-2.4	-37	0.249
56-43.6853-109.1169-2-15-						0-W07330	30940	569	19880	-34	-3	10.6	4.3	1180	-1	-1	7.9	4802	109	-2.2	96	0.300
56-43.6886-109.1256-2-15-						0-W07331	40260	705	22750	-32	-3	12.9	4.2	802	-1	-1	8.8	5090	122	3.1	135	0.216
56-43.6872-109.1342-2-15-						0-W07332	34360	577	22050	-30	-3	12.7	4.0	1198	-1	-1	7.0	4910	125	-2.0	62	0.307
56-43.6925-109.1525-2-12-						0-W07333	36690	668	22650	-36	-3	11.7	5.9	1164	-1	-1	8.1	4429	121	-2.5	-37	0.228
56-43.6900-109.1514-2-12-						0-W07334	38960	604	22450	-35	-3	11.0	5.7	845	-1	-1	9.6	4294	124	-2.2	-20	0.235
56-43.7031-109.1761-2-12-						0-W07335	39190	694	22670	-35	-3	13.1	5.5	959	-1	-1	9.6	5359	150	4.3	-64	0.201
56-43.7072-109.1881-2-12-						0-W07336	42730	404	19230	-30	-3	8.8	3.2	703	-1	-1	8.7	2897	73	-1.8	93	0.225
56-43.7361-109.2106-2-15-						0-W07337	23860	404	27430	-30	-3	7.6	6.4	1214	-1	-1	10.7	3453	76	-2.1	-64	0.258
56-43.7297-109.2069-2-12-						0-W07338	30260	454	20090	-38	-3	8.7	5.1	788	-1	-1	15.6	3742	77	-2.1	71	0.174
56-43.7236-109.2042-2-15-						0-W07339	39040	648	24340	-34	-3	13.2	5.5	704	-1	-1	8.8	6067	141	3.2	132	0.230
56-43.7211-109.2044-2-12-						0-W07340	35600	645	24130	-32	-3	12.4	5.2	907	-1	-1	9.9	5335	120	-2.0	40	0.199
56-43.3117-108.9131-2-15-						0-W07341	18780	371	6931	58	-2	6.1	5.8	-199	-1	-1	20.5	3228	53	5.4	-20	0.228
56-43.3383-108.9617-2-15-						0-W07342	15960	472	10510	83	-2	5.7	4.7	-292	-1	-1	9.2	2585	38	2.2	-22	0.349
56-43.3289-108.9389-2-15-						0-W07343	18570	388	13450	45	-2	6.7	5.2	-227	-1	-1	14.6	2569	44	3.7	76	0.240
56-43.2978-108.9314-2-15-						0-W07344	18730	447	10790	75	-2	6.4	5.7	-238	-1	-1	10.6	3234	46	3.6	97	0.321
56-43.2842-108.9678-2-15-						0-W07345	24050	473	10160	90	-3	7.5	5.5	-264	-1	-1	12.2	3676	56	3.3	-37	0.259
56-43.3128-108.9775-2-15-						0-W07346	19600	490	10340	81	-3	7.4	5.8	-295	-1	-1	12.9	3516	50	3.7	76	0.274
56-43.2808-108.9578-2-15-						0-W07347	20850	456	10740	67	-2	7.2	5.2	-240	-1	-1	13.9	3513	52	3.7	78	0.246
56-43.2506-108.9331-2-15-						0-W07348	19650	380	12620	66	-2	6.5	4.8	-235	-1	-1	10.8	2636	50	3.2	110	0.290
56-43.2514-108.9322-2-15-						0-W07350	25040	449	7993	56	-3	6.5	5.2	-250	-1	-1	10.9	3015	59	2.4	-33	0.301
56-43.2764-108.8964-2-15-						0-W07351	25060	392	8741	64	-2	6.6	3.9	380	-1	-1	10.4	2807	59	-2.1	-72	0.290
56-43.2772-108.8947-2-15-						0-W07352	21310	300	9565	71	-2	7.4	5.4	-215	-1	-1	13.2	2798	61	2.7	78	0.248
56-43.2347-108.9167-2-15-						0-W07353	19470	407	10330	65	-2	6.6	4.4	-237	-1	-1	11.2	3353	55	3.7	74	0.306
56-43.2314-108.9491-2-15-						0-W07355	22540	472	9754	62	-3	7.0	7.8	-248	-1	-1	19.2	4057	62	6.4	49	0.216
56-43.0661-109.2899-2-12-						0-W07357	19070	459	7787	-55	-5	10.4	3.2	-509	-3	-1	7.4	4218	89	-3.8	-60	0.426
56-43.0667-109.2858-2-11-						0-W07358	16210	298	9335	-51	-4	8.3	11.1	-370	-2	2	10.2	2260	61	4.4	-69	0.379

APPENDIX I-B. (continued). Elemental 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	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
							DATE	HOUR																									
56-43.0833-109.2917-2-11-						0-W07359-10/05/79-13-			19-	6.0-	-	-	8.6-	70-		6-2-7-5-8-2-2-1-3-3-2-3-1-											-1-	-	-	-	-	6.75
56-43.0933-109.2994-2-12-						0-W07360-10/05/79-14-			21-	7.3-	-	-	8.6-	55-		7-2-7-5-8-2-2-1-3-4-3-3-2-											-	-	-	-	-	2.74
56-43.0897-109.3294-2-12-						0-W07361-10/05/79-15-			18-	6.0-	-	-	8.8-	35-		10-2-7-5-8-3-3-1-2-3-3-3-2-											-1-	-	-	-	-	5.23
56-43.4717-109.2383-2-15-						0-W07364-10/06/79-10-			18-	-0-	-	-	-	-		18-1-7-4-7-	-1-	-3-4-2-2-1-		-3-	-	-	-	-	-	-						3.33
56-43.4711-109.2406-2-12-						0-W07365-10/06/79-10-			19-	10.0-	0-	-	7.4-	-		10-1-7-5-6-3-3-1-2-2-3-3-2-1-											-	-	-	-	-	3.36
56-43.4844-109.2486-2-15-						0-W07366-10/06/79-11-			20-	-0-	-	-	-	-		16-1-7-4-7-	-1-	-3-4-2-2-1-		-3-	-	-	-	-	-	-						6.74
56-43.4822-109.2497-2-12-						0-W07367-10/06/79-11-			20-	12.0-	-	-	7.4-	380-		14-1-7-5-7-3-3-1-2-2-2-2-1-											-3-	-	-	-	-	3.19
56-43.4633-109.2506-2-15-						0-W07368-10/06/79-11-			22-	-	-	-	-	-		10-1-7-4-7-	-1-	-3-4-2-2-1-		-	-	-	-	-	-	-						4.39
56-43.4439-109.2200-2-15-						0-W07369-10/06/79-12-			23-	-	-	-	-	-		10-1-7-4-7-	-1-	-3-4-2-2-1-		-1-	-	-	-	-	-	-						4.56
56-43.4517-109.2322-2-12-						0-W07370-10/06/79-12-			25-	15.0-	0-	-	7.4-	-		8-1-7-4-6-3-3-1-2-3-2-2-1-											-1-	-	-	-	-	3.37
56-43.4494-109.2333-2-15-						0-W07371-10/06/79-12-			25-	-	-	-	-	-		8-1-7-4-7-	-1-	-3-4-2-2-1-		-	-	-	-	-	-	-						4.79
56-43.4300-109.2111-2-15-						0-W07372-10/06/79-13-			27-	-	-	-	-	-		4-1-7-4-7-	-1-	-3-4-2-2-2-		-1-	-	-	-	-	-	-						3.34
56-43.4308-109.2117-2-15-						0-W07373-10/06/79-13-			26-	-	-	-	-	-		8-1-7-4-7-	-1-	-3-2-2-2-2-		-1-	-	-	-	-	-	-						3.15
56-43.4289-109.2156-2-12-						0-W07374-10/06/79-13-			26-	16.0-	0-	-	8.1-	550-		10-1-7-5-7-3-3-1-2-2-3-2-2-											-3-	-	-	-	-	4.44
56-43.3831-109.1858-2-15-						0-W07375-10/06/79-14-			25-	-	-	-	-	-		14-1-7-4-7-	-1-	-3-4-2-2-2-		-	-	-	-	-	-	-						5.04
56-43.3825-109.1883-2-12-						0-W07376-10/06/79-14-			25-	12.0-	0-	-	8.3-	600-		6-1-7-5-7-2-2-2-2-3-2-2-2-											-1-	-	-	-	-	4.92
56-43.3814-109.1889-2-15-						0-W07377-10/06/79-15-			22-	-	-	-	-	-		10-1-7-4-7-	-1-	-3-3-2-2-2-		-3-	-	-	-	-	-	-						5.02
56-43.5792-109.2347-2-15-						0-W07378-10/07/79-11-			18-	-	-	-	-	-		12-1-7-4-7-	-1-	-3-4-2-2-3-3-		-	-	-	-	-	-	-						2.41
56-43.5958-109.2472-2-12-						0-W07379-10/07/79-12-			17-	7.0-	-	-	7.8-	120-		10-3-1-4-6-3-3-1-2-4-2-3-2-											-1-	-	-	-	-	2.26
56-43.5959-109.2433-2-12-						0-W07380-10/07/79-12-			17-	10.0-	-	-	7.8-	140-		14-3-1-5-8-3-2-1-2-4-2-3-2-											-1-	-	-	-	-	2.97
56-43.5986-109.2461-2-12-						0-W07381-10/07/79-13-			19-	9.5-	0-	-	7.7-	85-		10-3-7-4-6-3-3-1-2-3-2-3-2-											-1-	-	-	-	-	2.17
56-43.6222-109.2431-2-11-						0-W07382-10/07/79-13-			20-	8.0-	-	-	7.8-	100-		4-3-7-5-8-2-3-1-3-1-3-3-2-											-1-	-	-	-	-	2.79
56-43.6214-109.2406-2-12-						0-W07383-10/07/79-14-			22-	12.0-	-	-	7.7-	75-		6-3-7-5-6-3-3-1-2-4-3-3-2-											-1-	-	-	-	-	2.36
56-43.6342-109.2353-2-12-						0-W07384-10/07/79-14-			23-	13.0-	-	-	8.0-	75-		14-3-7-5-7-3-3-1-2-3-3-3-2-											-1-	-	-	-	-	2.35
56-43.6533-109.2344-2-12-						0-W07385-10/07/79-14-			24-	12.0-	-	-	8.4-	70-		12-3-7-5-7-3-3-1-2-3-3-3-2-											-1-	-	-	-	-	2.06
56-43.7147-109.2728-2-12-						0-W07386-10/07/79-17-			15-	8.0-	-	-	8.0-	80-		10-3-1-5-6-3-3-1-2-4-2-4-2-											-1-	-	-	-	-	2.60
56-43.7133-109.2736-2-15-						0-W07387-10/07/79-17-			14-	-0-	-	-	-	-		10-3-1-5-6-	-1-	-3-4-2-4-2-		-1-	-	-	-	-	-	-						2.16
56-43.6961-109.2567-2-12-						0-W07388-10/07/79-16-			14-	9.5-	0-	-	8.6-	-		9-3-7-4-7-3-3-1-2-4-2-4-3-											-1-	-	-	-	-	2.67
56-43.6747-109.2331-2-12-						0-W07389-10/07/79-18-			18-	8.0-	-	-	7.9-	-		10-3-7-5-7-3-3-1-2-1-4-5-3-											-1-	-	-	-	-	2.39
56-43.6622-108.3819-2-15-						0-W07390-10/10/79-11-			19-	-	-	-	-	-		8-1-7-4-7-	-1-	-3-4-2-2-2-		-	-	-	-	-	-	-						3.46
56-43.6764-109.2350-2-12-						0-W07391-10/07/79-18-			18-	8.0-	0-	-	8.2-	-		15-3-7-5-7-3-3-1-2-1-4-5-3-											-	-	-	-	-	2.22
56-43.5828-109.2689-2-15-						0-W07392-10/08/79- 9-			17-	-	-	-	-	-		12-1-6-4-6-	-1-	-2-4-2-2-1-		-	-	-	-	-	-	-						1.77
56-43.5594-109.2725-2-11-						0-W07393-10/08/79-10-			19-	10.0-	0-	-	8.3-	-		16-1-6-5-8-2-2-2-3-4-2-3-1-											-3-	-	-	-	-	4.16
56-43.5272-109.2683-2-12-						0-W07394-10/08/79-11-			19-	14.0-	-	-	8.7-	-		10-3-4-5-6-2-2-2-2-3-2-4-1-											-	-	-	-	-	3.35
56-43.5267-109.2667-2-12-						0-W07395-10/08/79-11-			18-	7.5-	0-	-	8.7-	-		18-3-4-5-7-3-3-1-2-1-3-4-1-											-	-	-	-	-	2.64
56-43.5006-109.2597-2-12-						0-W07396-10/08/79-12-			20-	12.5-	-	-	8.4-	220-		12-1-7-5-8-3-3-1-2-2-3-3-1-											-	-	-	-	-	2.44
56-43.1194-109.0064-2-12-						0-W07397-10/08/79-14-			20-	13.5-	0-	-	8.0-	750-		10-1-7-6-7-3-3-2-2-4-3-1-2-											-3-	-	-	-	-	2.61
56-43.1297-108.8894-2-15-						0-W07398-10/08/79-15-			20-	-0-	-	-	-	-		10-1-7-6-7-	-2-	-3-4-3-3-2-		-9-	-	-	-	-	-	-						5.68
56-43.6506-108.3836-2-15-						0-W07401-10/10/79-12-			19-	-0-	-	-	-	-		10-1-7-5-7-	-1-	-2-4-3-2-2-		-9-	-	-	-	-	-	-						2.11
56-43.6414-108.3906-2-15-						0-W07402-10/10/79-12-			19-	-	-	-	-	-		8-1-7-4-6-	-1-	-3-4-2-2-2-		-	-	-	-	-	-	-						2.16
56-43.6417-108.3925-2-12-						0-W07403-10/10/79-12-			19-	-	-	-	7.6-	2900-		8-1-7-5-6-2-2-2-2-4-2-2-2-											-3-	-	-	-	-	2.36
56-43.6483-108.4178-2-15-						0-W07404-10/10/79-13-			17-	-	-	-	-	-		10-1-7-4-7-	-1-	-3-4-2-2-3-		-	-	-	-	-	-	-						2.32
56-43.6469-108.4314-2-12-						0-W07405-10/10/79-13-			17-	10.5-	-	-	7.3-	2400-		10-1-7-5-7-3-3-2-2-4-3-2-3-											-3-	-	-	-	-	2.39
56-43.6506-108.4319-2-12-						0-W07406-10/10/79-13-			19-	9.5-	-	-	6.9-	1900-		6-1-7-5-6-3-3-1-2-3-3-2-3-											-3-	-	-	-	-	4.34
56-43.6517-108.4314-2-12-						0-W07407-10/10/79-14-			18-	12.0-	-	-	6.5-	1300-		3-1-7-5-7-3-3-3-2-3-2-2-3-											-3-	-	-	-	-	3.22
56-43.6289-108.4650-2-12-						0-W07408-10/10/79-14-			20-	14.0-	-	-	7.3-	1200-		10-1-7-5-7-3-2-2-2-4-2-2-3-											-1-	-	-	-	-	2.59
56-43.6417-108.4661-2-12-						0-W07410-10/10/79-15-			20-	10.0-	-	-	7.8-	1800-		6-1-6-5-7-3-3-2-2-3-2-2-3-											-	-	-	-	-	2.71
56-43.6400-108.4908-2-12-						0-W07411-10/10/79-15-			20-	12.0-	-	-	8.1-	1400-		6-1-6-6-8-2-3-2-2-3-2-2-3-											-3-	-	-	-	-	3.21
56-43.6408-108.5139-2-12-						0-W07412-10/10/79-15-			21-	12.5-	-	-	7.6-	1100-		4-1-7-6-8-2-2-3-2-3-2-2-2-											-3-	-	-	-	-	5.27
56-43.6300-108.5439-2-11-						0-W07413-10/10/79-16-			19-	13.5-	-	-	7.9-	170-		6-1-6-5-7-2-2-2-3-2-2-2-2-											-3-	-	-	-	-	7.46
56-43.6428-108.5714-2-11-						0-W07414-10/10/79-17-			17-	11.0-	-	-	7.7-	1300-		6-1-7-5-8-2-3-1-3-4-2-3-2-											-3-	-	-	-	-	3.81

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.0833-109.2917-2-11-						0-W07359	-5	-5	-5	80	-20	52	22	-10	-15	2	16
56-43.0933-109.2994-2-12-						0-W07360	-5	6	-5	27	-20	48	12	-10	-15	1	30
56-43.0697-109.3294-2-12-						0-W07361	-5	8	-5	32	-20	32	18	-10	21	2	29
56-43.4717-109.2383-2-15-						0-W07364	-5	5	-5	20	-20	26	10	-10	-15	2	21
56-43.4711-109.2406-2-12-						0-W07365	-5	6	-5	23	-20	66	16	-10	-15	2	39
56-43.4844-109.2486-2-15-						0-W07366	-5	-5	-5	25	-20	-15	17	-10	-15	2	47
56-43.4822-109.2497-2-12-						0-W07367	-5	8	-5	23	-20	59	24	-10	-15	-1	43
56-43.4633-109.2506-2-15-						0-W07368	-5	5	-5	16	-20	-15	13	-10	-15	3	36
56-43.4439-109.2200-2-15-						0-W07369	-5	-5	-5	21	-20	15	15	-10	-15	2	42
56-43.4517-109.2322-2-12-						0-W07370	-5	-5	-5	18	-20	46	17	-10	15	-1	37
56-43.4494-109.2333-2-15-						0-W07371	-5	7	-5	19	-20	26	13	-10	-15	2	38
56-43.4300-109.2111-2-15-						0-W07372	-5	-5	-5	32	-20	19	16	-10	-15	-1	32
56-43.4308-109.2117-2-15-						0-W07373	-5	-5	-5	15	-20	18	12	-10	-15	3	45
56-43.4289-109.2156-2-12-						0-W07374	-5	9	-5	20	-20	32	17	-10	-15	1	34
56-43.3831-109.1858-2-15-						0-W07375	-5	6	-5	22	-20	-15	18	-10	-15	3	35
56-43.3825-109.1883-2-12-						0-W07376	-5	8	-5	16	-20	29	14	-10	17	2	42
56-43.3814-109.1889-2-15-						0-W07377	-5	5	-5	20	-20	21	15	-10	15	2	53
56-43.5792-109.2347-2-15-						0-W07378	-5	-5	-5	23	-20	30	20	-10	-15	1	44
56-43.5959-109.2472-2-12-						0-W07379	-5	-5	-5	24	-20	37	19	-10	-15	2	47
56-43.5958-109.2433-2-12-						0-W07380	-5	-5	-5	25	-20	65	17	-10	-15	2	35
56-43.5996-109.2461-2-12-						0-W07381	-5	-5	-5	26	-20	60	15	-10	-15	2	34
56-43.6222-109.2431-2-11-						0-W07382	-5	-5	-5	25	-20	53	12	-10	-15	2	35
56-43.6214-109.2406-2-12-						0-W07383	-5	-5	-5	31	-20	66	20	-10	-15	-1	45
56-43.6342-109.2353-2-12-						0-W07384	-5	-5	-5	28	-20	55	16	-10	-15	-1	47
56-43.6533-109.2344-2-12-						0-W07385	-5	-5	-5	29	-20	74	22	-10	-15	1	44
56-43.7147-109.2728-2-12-						0-W07386	-5	-5	-5	38	-20	49	20	-10	-15	2	48
56-43.7133-109.2736-2-15-						0-W07387	-5	-5	-5	30	-20	61	25	-10	-15	-1	45
56-43.6961-109.2567-2-12-						0-W07388	-5	8	-5	35	-20	62	19	-10	-15	-1	44
56-43.6747-109.2331-2-12-						0-W07389	-5	-5	-5	32	-20	55	23	-10	-15	3	37
56-43.6622-108.3819-2-15-						0-W07390	-5	-5	-5	-10	-20	-15	9	-10	-15	2	40
56-43.6764-109.2350-2-12-						0-W07391	-5	-5	-5	25	-20	62	26	-10	-15	1	44
56-43.5928-109.2689-2-15-						0-W07392	-5	-5	-5	27	-20	33	11	-10	-15	1	36
56-43.5594-109.2725-2-11-						0-W07393	-5	9	-5	10	-20	-15	11	-10	-15	-1	27
56-43.5272-109.2683-2-12-						0-W07394	-5	6	-5	18	-20	-15	14	-10	-15	2	33
56-43.5267-109.2667-2-12-						0-W07395	-5	5	-5	22	-20	79	16	-10	-15	2	16
56-43.5006-109.2597-2-12-						0-W07396	-5	6	-5	27	-20	68	15	-10	-15	1	27
56-43.1194-109.0064-2-12-						0-W07397	-5	-5	-5	19	-20	-15	-5	-10	-15	2	22
56-43.1297-108.8894-2-15-						0-W07398	-5	5	-5	-10	-20	-15	10	-10	-15	2	64
56-43.6506-108.3836-2-15-						0-W07401	-5	7	-5	16	-20	-15	5	-10	-15	2	28
56-43.6414-108.3906-2-15-						0-W07402	-5	6	-5	14	-20	-15	-5	-10	-15	2	21
56-43.6417-108.3925-2-12-						0-W07403	-5	-5	-5	15	-20	-15	5	-10	-15	2	20
56-43.6483-108.4178-2-15-						0-W07404	-5	-5	-5	20	-20	-15	9	-10	-15	1	19
56-43.6469-108.4314-2-12-						0-W07405	-5	-5	-5	12	-20	-15	-5	-10	-15	2	26
56-43.6506-108.4319-2-12-						0-W07406	-5	-5	-5	30	-20	20	9	-10	-15	1	23
56-43.6517-108.4314-2-12-						0-W07407	-5	-5	-5	26	-20	20	-5	-10	-15	2	30
56-43.6289-108.4650-2-12-						0-W07408	-5	-5	-5	19	-20	16	7	-10	-15	2	27
56-43.6417-108.4661-2-12-						0-W07410	-5	5	-5	19	-20	-15	-5	-10	-15	2	23
56-43.6400-108.4908-2-12-						0-W07411	-5	5	-5	19	-20	-15	8	-10	-15	2	42
56-43.6408-108.5139-2-12-						0-W07412	-5	6	-5	30	-20	17	10	-10	-15	2	47
56-43.6300-108.5439-2-11-						0-W07413	-5	-5	-5	20	-20	-15	20	-10	-15	5	33
56-43.6428-108.5714-2-11-						0-W07414	-5	-5	-5	16	-20	23	10	-10	-15	5	22

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.0833-	109.2917-	2-	11-	0-	W07359	49240	-0.16	397	14090	43	321	6.1	141	-2.7	5	1.2	27250	3.1	12000	19	0.5
56-	43.0933-	109.2994-	2-	12-	0-	W07360	66480	-0.15	443	18840	79	-102	11.6	225	-2.3	4	1.5	25220	13.7	11400	24	0.5
56-	43.0697-	109.3294-	2-	12-	0-	W07361	66960	-0.16	-242	31640	140	202	16.1	74	-2.5	7	2.2	55450	38.5	-5865	68	0.7
56-	43.4717-	109.2383-	2-	15-	0-	W07364	55480	-0.07	550	27860	69	-79	7.0	51	1.9	4	1.2	15790	10.1	19620	40	0.3
56-	43.4711-	109.2406-	2-	12-	0-	W07365	74940	-0.12	1125	37770	117	-102	18.1	223	-1.9	3	1.8	41110	11.7	16130	53	0.2
56-	43.4844-	109.2486-	2-	15-	0-	W07366	56010	-0.09	586	38220	64	-79	6.0	63	2.6	3	1.3	18590	7.3	20150	41	0.3
56-	43.4822-	109.2497-	2-	12-	0-	W07367	79240	-0.11	1193	40140	92	-117	14.7	189	-1.8	3	1.8	35060	7.5	15640	43	0.2
56-	43.4633-	109.2506-	2-	15-	0-	W07368	63500	-0.08	601	18910	103	-82	6.9	52	3.8	5	1.5	18440	12.2	23650	56	0.4
56-	43.4439-	109.2200-	2-	15-	0-	W07369	59680	-0.09	642	24170	71	-78	6.7	50	4.1	4	1.3	18110	5.2	20700	31	0.4
56-	43.4517-	109.2322-	2-	12-	0-	W07370	72090	-0.10	903	35410	87	-95	12.3	132	-1.7	4	1.6	28910	8.6	15100	54	0.3
56-	43.4494-	109.2333-	2-	15-	0-	W07371	58850	-0.08	577	22140	94	-79	7.6	57	3.6	5	1.3	22040	12.9	19920	56	0.5
56-	43.4300-	109.2111-	2-	15-	0-	W07372	54370	-0.09	672	24710	70	-66	6.0	60	4.2	5	1.4	18180	8.7	19990	37	0.4
56-	43.4308-	109.2117-	2-	15-	0-	W07373	55640	-0.08	516	22170	63	-70	5.9	48	3.4	4	1.3	18870	6.0	20350	35	0.3
56-	43.4289-	109.2156-	2-	12-	0-	W07374	65420	-0.10	950	33190	105	-106	11.0	134	-1.6	4	1.9	28790	16.0	15370	68	0.4
56-	43.3831-	109.1858-	2-	15-	0-	W07375	56210	-0.08	601	25940	99	-74	6.5	56	4.3	5	1.6	21730	17.4	18140	59	0.5
56-	43.3825-	109.1883-	2-	12-	0-	W07376	58850	-0.11	855	28360	134	-87	11.0	118	3.0	5	2.0	25730	17.7	16470	68	0.6
56-	43.3814-	109.1889-	2-	15-	0-	W07377	63070	-0.09	691	24940	112	-86	7.2	84	2.4	6	1.5	24240	17.0	17220	59	0.5
56-	43.5792-	109.2347-	2-	15-	0-	W07378	81410	-0.11	1223	29400	73	-107	14.2	114	2.5	3	1.4	33760	6.1	15340	44	0.2
56-	43.5958-	109.2472-	2-	12-	0-	W07379	83210	-0.11	1148	28870	80	-113	16.5	134	2.0	2	1.5	32930	5.9	16430	46	0.4
56-	43.5959-	109.2433-	2-	12-	0-	W07380	79510	-0.14	1240	38000	91	-116	18.9	211	-2.3	3	1.8	36540	5.4	14530	38	0.3
56-	43.5986-	109.2461-	2-	12-	0-	W07381	78680	-0.12	1225	37690	97	-111	17.5	192	-1.9	2	1.7	38220	4.8	16740	59	0.2
56-	43.6222-	109.2431-	2-	11-	0-	W07382	83210	-0.11	1245	34550	86	-124	17.2	148	-1.9	3	1.6	33090	5.6	16830	38	0.2
56-	43.6214-	109.2406-	2-	12-	0-	W07383	84300	-0.12	1306	35850	94	-122	20.6	181	-2.0	3	1.9	40700	5.6	19020	62	0.2
56-	43.6342-	109.2353-	2-	12-	0-	W07384	79630	-0.13	1295	32850	105	-115	17.0	165	-2.2	3	1.9	32850	5.6	17770	55	-0.2
56-	43.6533-	109.2344-	2-	12-	0-	W07385	80530	-0.11	1342	36420	106	-110	20.1	193	-1.8	3	1.6	40140	4.9	14580	52	0.4
56-	43.7147-	109.2728-	2-	12-	0-	W07386	87170	-0.11	1551	29920	105	163	16.2	128	-1.8	2	1.6	32260	5.0	19180	61	0.5
56-	43.7133-	109.2736-	2-	15-	0-	W07387	81910	-0.10	1124	32560	110	-111	21.0	172	-1.7	2	1.7	41800	5.8	16870	63	0.4
56-	43.6961-	109.2567-	2-	12-	0-	W07388	80750	-0.12	1436	29170	112	167	14.7	122	-2.0	3	1.7	29320	5.0	14180	55	0.5
56-	43.6747-	109.2331-	2-	12-	0-	W07389	79210	-0.12	1297	37510	98	-113	19.6	201	-1.9	3	1.7	39050	4.6	14790	53	0.5
56-	43.6622-	108.3819-	2-	15-	0-	W07390	52960	-0.07	783	13560	51	-71	2.9	32	2.7	3	1.5	10740	10.4	16950	30	0.3
56-	43.6764-	109.2350-	2-	12-	0-	W07391	83630	-0.11	1149	34260	112	126	21.7	182	-1.8	2	1.9	42140	6.4	15820	65	0.3
56-	43.5828-	109.2689-	2-	15-	0-	W07392	83390	-0.12	1437	36920	90	-99	18.0	133	-1.9	2	1.8	39250	5.0	14510	49	0.2
56-	43.5594-	109.2725-	2-	11-	0-	W07393	61790	-0.10	749	17330	88	150	4.6	68	-1.6	5	1.4	18480	14.7	21860	58	0.3
56-	43.5272-	109.2683-	2-	12-	0-	W07394	51360	-0.10	655	141200	64	-73	4.0	38	4.1	5	1.1	17950	7.7	23120	40	0.4
56-	43.5267-	109.2667-	2-	12-	0-	W07395	80320	-0.11	1046	39950	105	169	23.0	252	-1.9	3	1.8	48140	10.4	14360	60	0.2
56-	43.5006-	109.2597-	2-	12-	0-	W07396	76490	-0.12	1142	38930	98	-108	17.3	208	-2.1	3	1.6	36300	6.7	13590	51	0.3
56-	43.1194-	109.0064-	2-	12-	0-	W07397	40340	-0.08	447	38280	47	-64	3.1	42	1.7	3	1.1	12210	10.6	15600	26	0.4
56-	43.1297-	108.8894-	2-	15-	0-	W07398	45690	-0.11	1189	11960	48	2308	-1.4	20	1.9	4	0.7	8790	9.1	16150	30	0.4
56-	43.6506-	108.3836-	2-	15-	0-	W07401	33160	-0.07	593	29130	38	505	4.1	23	2.0	3	1.0	11350	6.4	11640	24	0.2
56-	43.6414-	108.3906-	2-	15-	0-	W07402	38670	-0.09	511	59690	45	-57	4.9	37	2.0	4	1.1	14710	5.8	15180	23	0.3
56-	43.6417-	108.3925-	2-	12-	0-	W07403	33980	-0.08	511	62530	44	-59	2.9	35	2.6	3	1.1	12890	9.7	14190	23	0.3
56-	43.6483-	108.4178-	2-	15-	0-	W07404	35170	-0.07	837	67960	35	-60	3.6	36	1.9	3	0.8	13430	10.5	13600	23	0.3
56-	43.6469-	108.4314-	2-	12-	0-	W07405	35050	-0.03	565	50220	42	-57	4.9	27	2.1	3	1.2	14990	9.7	13790	22	0.3
56-	43.6506-	108.4319-	2-	12-	0-	W07406	44270	-0.04	408	53630	53	466	6.5	38	3.2	4	1.5	19570	6.0	16010	28	0.4
56-	43.6517-	108.4314-	2-	12-	0-	W07407	41280	-0.03	837	31400	52	-65	7.2	43	3.3	5	1.5	20260	10.4	12620	31	0.4
56-	43.6289-	108.4650-	2-	12-	0-	W07408	33540	-0.03	421	68330	35	-64	3.9	35	1.8	3	1.2	15570	11.2	15760	21	0.4
56-	43.6417-	108.4661-	2-	12-	0-	W07410	33240	-0.03	470	46330	36	-57	4.0	37	2.5	3	1.2	14400	10.0	15150	20	0.3
56-	43.6400-	108.4908-	2-	12-	0-	W07411	43260	-0.05	401	47220	48	-66	6.8	45	3.3	4	1.1	19120	8.4	15360	27	0.3
56-	43.6408-	108.5139-	2-	12-	0-	W07412	52660	-0.04	536	18310	59	-70	7.0	51	3.9	5	1.2	23290	8.3	15860	36	0.5
56-	43.6300-	108.5439-	2-	11-	0-	W07413	57730	-0.04	714	4696	66	-59	5.9	57	5.3	5	1.4	26980	7.4	20360	34	0.5
56-	43.6428-	108.5714-	2-	11-	0-	W07414	40920	-0.03	486	7095	49	-49	3.4	38	4.3	8	1.7	13100	8.0	15750	36	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.0833-109.2917-2-11-			0	W	07359		15380	276	10120	-44	-4	8.6	9.0	-345	-2	-1	8.5	2997	49	5.0	-48	0.794
56-43.0933-109.2994-2-12-			0	W	07360		26370	537	17150	-34	-4	12.6	5.8	-311	-1	-1	10.6	5527	87	2.6	-79	0.258
56-43.0697-109.3294-2-12-			0	W	07361		28090	1260	16320	-42	-4	19.9	11.6	-489	-2	-2	22.7	15580	142	6.1	-22	0.230
56-43.4717-109.2383-2-15-			0	W	07364		13760	280	13090	66	-2	4.9	4.8	-219	-1	-1	21.5	1862	29	4.0	96	0.155
56-43.4711-109.2406-2-12-			0	W	07365		38190	532	22380	-32	-3	12.0	6.3	994	-1	-1	14.3	6085	131	3.7	79	0.235
56-43.4844-109.2486-2-15-			0	W	07366		27600	395	9707	82	-2	5.8	4.4	-257	-1	-1	14.5	2905	41	2.5	-42	0.465
56-43.4822-109.2497-2-12-			0	W	07367		37970	483	23200	-31	-3	11.9	5.4	987	-1	-1	11.0	5171	114	-2.1	99	0.290
56-43.4633-109.2506-2-15-			0	W	07368		13200	334	15900	68	-2	5.3	6.5	-231	-1	-1	22.0	2898	42	3.9	59	0.200
56-43.4439-109.2200-2-15-			0	W	07369		16610	380	12380	67	-2	5.8	4.5	-237	1	-1	15.1	2752	42	3.0	-17	0.302
56-43.4517-109.2322-2-12-			0	W	07370		33620	432	19060	-30	-3	9.4	6.0	597	-1	-1	15.5	4522	91	3.7	36	0.217
56-43.4494-109.2333-2-15-			0	W	07371		11760	414	12190	76	-2	6.3	6.1	-231	-1	-1	18.0	2963	49	4.7	33	0.266
56-43.4300-109.2111-2-15-			0	W	07372		17490	439	8624	82	-2	6.0	5.4	-227	-1	-1	12.7	2854	43	3.2	-12	0.263
56-43.4308-109.2117-2-15-			0	W	07373		13720	431	9063	65	-2	5.8	5.0	-234	-1	-1	9.9	2754	44	3.1	70	0.318
56-43.4289-109.2156-2-12-			0	W	07374		23680	518	16810	62	-3	8.6	6.7	610	-1	-1	25.4	4017	86	2.8	-55	0.175
56-43.3831-109.1859-2-15-			0	W	07375		15380	463	10300	66	-2	6.2	6.9	-238	-1	-1	17.5	2838	44	5.1	103	0.288
56-43.3825-109.1883-2-12-			0	W	07376		25820	477	15420	-30	-3	7.8	9.1	-264	-1	1	30.2	4156	80	5.8	81	0.163
56-43.3814-109.1889-2-15-			0	W	07377		26360	517	15440	59	-2	7.9	7.7	-258	-1	-1	22.4	3855	59	4.9	48	0.224
56-43.5793-109.2347-2-15-			0	W	07378		24460	497	17050	73	-3	11.3	4.9	731	-1	-1	9.4	4246	98	2.7	-65	0.256
56-43.5958-109.2472-2-12-			0	W	07379		27520	509	20940	69	-3	10.8	4.9	923	-1	-1	9.9	4198	93	-1.9	81	0.228
56-43.5958-109.2433-2-12-			0	W	07380		35790	542	22480	-40	-4	13.2	5.5	1082	-1	-1	8.0	6485	138	-2.9	51	0.371
56-43.5986-109.2461-2-12-			0	W	07381		37020	586	24580	36	-3	12.8	5.2	996	-1	-1	9.1	4885	119	2.8	99	0.238
56-43.6222-109.2431-2-11-			0	W	07382		30830	534	22220	65	-3	11.6	5.0	539	-1	-1	8.0	4371	102	-2.5	127	0.349
56-43.6214-109.2406-2-12-			0	W	07383		37430	577	23730	-36	-3	12.8	5.5	948	-1	-1	11.4	5187	117	-2.1	74	0.207
56-43.6342-109.2353-2-12-			0	W	07384		37610	525	23040	-39	-3	11.0	6.4	1027	-1	-1	10.8	4703	113	-2.6	-48	0.218
56-43.6533-109.2344-2-12-			0	W	07385		40900	635	24550	-32	-3	12.9	5.9	974	-1	-1	8.5	5327	127	-1.9		0.242
56-43.7147-109.2728-2-12-			0	W	07386		27220	408	24270	-32	-3	9.6	6.1	1160	-1	-1	12.8	4149	83	-2.1	77	0.203
56-43.7133-109.2736-2-15-			0	W	07387		33180	543	24680	69	-3	12.5	5.4	1226	-1	-1	11.8	4525	109	-1.8	86	0.183
56-43.6961-109.2567-2-12-			0	W	07388		28490	424	22270	51	-3	8.8	5.5	1179	-1	-1	12.2	4027	88	-2.2	-39	0.219
56-43.6747-109.2331-2-12-			0	W	07389		44660	632	24180	-35	-3	12.5	5.6	1085	-1	-1	9.2	4749	118	-2.0	-51	0.260
56-43.6622-108.3819-2-15-			0	W	07390		5018	158	11810	71	-2	3.5	4.0	-197	-1	-1	8.9	2391	38	3.0	-24	0.389
56-43.6764-109.2250-2-12-			0	W	07391		33970	565	24220	-32	-3	12.7	5.2	967	-1	-1	11.6	4500	111	2.4	64	0.191
56-43.5829-109.2689-2-15-			0	W	07392		27960	582	20090	-31	-3	12.6	3.7	1054	-1	-1	7.3	5600	137	-2.5	-39	0.242
56-43.5594-109.2725-2-11-			0	W	07393		15590	193	17380	65	-2	6.3	6.3	-236	-1	-1	33.2	3442	54	6.1	50	0.125
56-43.5272-109.2683-2-12-			0	W	07394		21530	270	2403	67	-3	5.5	6.1	325	-1	-1	18.2	2137	34	3.0	-37	0.184
56-43.5267-109.2667-2-12-			0	W	07395		41800	636	24520	-33	-3	14.9	6.5	939	-1	-1	10.5	6743	146	-2.6	149	0.251
56-43.5006-109.2597-2-12-			0	W	07396		37200	589	22840	-36	-3	11.9	5.9	835	-1	-1	11.5	4759	115	-2.3	68	0.212
56-43.1194-109.0064-2-12-			0	W	07397		16930	285	8053	42	-2	4.7	3.5	-204	-1	-1	6.2	2874	36	2.8	-31	0.318
56-43.1297-108.8894-2-15-			0	W	07398		-11700	260	95990	-32	-3	3.1	3.8	-638	-1	-1	12.8	-1877	22	3.1	-42	0.444
56-43.6506-108.3836-2-15-			0	W	07401		8722	247	20120	-20	-2	4.1	2.8	-237	-1	-1	5.2	1881	33	-1.7	65	0.406
56-43.6414-108.3906-2-15-			0	W	07402		23600	265	5750	39	-2	4.8	4.0	-190	-1	-1	5.3	2155	47	1.9	-22	0.408
56-43.6417-108.3925-2-12-			0	W	07403		22360	277	5421	-23	-2	4.7	3.0	601	-1	-1	5.2	2205	45	3.3	-38	0.454
56-43.6483-108.4178-2-15-			0	W	07404		24190	278	4701	45	-2	4.7	3.4	-212	-1	-1	6.2	2302	37	3.1	34	0.374
56-43.6469-108.4214-2-12-			0	W	07405		18590	249	5422	31	-1	4.8	3.9	325	-1	-1	6.0	2304	43	2.3	-38	0.398
56-43.6506-108.4319-2-12-			0	W	07406		24270	267	7189	-31	-1	6.3	5.4	-222	-2	-1	8.8	3619	61	2.6	-50	0.493
56-43.6517-108.4314-2-12-			0	W	07407		16890	482	4450	-26	-1	6.5	5.3	-280	-1	-1	9.6	2699	53	2.9	-50	0.335
56-43.6289-108.4650-2-12-			0	W	07408		25910	294	4952	42	-1	5.0	3.8	-219	-1	-1	5.7	2296	44	2.8	61	0.454
56-43.6417-108.4661-2-12-			0	W	07410		13350	251	4760	-23	-1	4.8	3.0	231	-1	-1	5.8	2281	51	1.9	-37	0.467
56-43.6400-108.4908-2-12-			0	W	07411		18510	476	4214	-34	-1	6.0	5.3	688	-2	-1	8.3	2700	62	2.4	-47	0.387
56-43.6408-108.5139-2-12-			0	W	07412		13770	338	4232	54	-1	7.9	6.2	-276	-1	-1	11.4	3596	76	3.4	-92	0.462
56-43.6300-108.5439-2-11-			0	W	07413		11590	408	3565	71	-1	7.5	5.1	-255	-1	-1	13.8	3011	75	3.6	-117	0.541
56-43.6428-108.5714-2-11-			0	W	07414		8766	91	2849	51	-1	4.5	6.8	188	-2	1	6.4	2819	43	3.3	163	0.454

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples (1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.6414-	108.5725-	2-	12-		0-W07415-	10/10/79-	17-	16-	14.0-	-	-	8.0-	475-	12-1-7-5-8-3-2-2-2-4-2-3-2-	-3-	-	-	-	3.78
56-	43.6467-	108.5739-	2-	12-		0-W07416-	10/10/79-	18-	17-	12.0-	-	-	8.0-	600-	10-1-7-5-4-3-4-1-	-4-2-2-2-	-3-	-	-	-	3.10
56-	43.6291-	108.6167-	2-	11-		0-W07417-	10/11/79-	9-	13-	13.4-	0-	-	8.5-	1100-	8-1-4-5-4-2-2-1-3-1-2-3-2-	-3-	-	-	-	2.42
56-	43.6275-	108.6075-	2-	12-		0-W07418-	10/11/79-	9-	13-	8.0-	-	-	8.1-	480-	10-1-4-5-4-3-3-1-2-1-2-3-2-	-3-	-	-	-	2.50
56-	43.6309-	108.6089-	2-	15-		0-W07419-	10/11/79-	9-	14-	-	-	-	-	-	10-1-4-4-4-	-1-	-3-3-2-3-2-	-3-	-	-	-	3.03
56-	43.6392-	108.6014-	2-	15-		0-W07420-	10/11/79-	10-	14-	-	-	-	-	-	12-1-4-4-4-	-1-	-3-3-2-3-2-	-	-	-	-	3.09
56-	43.6634-	108.5433-	2-	12-		0-W07421-	10/11/79-	10-	14-	11.2-	-	-	7.4-	800-	8-1-7-5-7-3-3-2-2-3-2-2-2-	-	-	-	-	3.29
56-	43.6711-	108.5017-	2-	12-		0-W07422-	10/11/79-	11-	17-	10.5-	-	-	7.8-	850-	12-1-7-5-7-2-3-2-2-3-2-2-2-	-3-	-	-	-	3.31
56-	43.6978-	108.5139-	2-	15-		0-W07423-	10/11/79-	14-	22-	-	-	-	-	-	8-1-7-4-7-	-1-	-3-4-2-2-2-	-1-	-	-	-	4.99
56-	43.7022-	108.5122-	2-	15-		0-W07424-	10/11/79-	14-	22-	-	-	-	-	-	4-1-7-4-7-	-1-	-3-3-2-2-2-	-3-	-	-	-	4.36
56-	43.7011-	108.5125-	2-	15-		0-W07425-	10/11/79-	14-	22-	-	-	-	-	-	10-1-7-4-7-	-1-	-3-3-2-2-2-	-3-	-	-	-	4.22
56-	43.6764-	108.5819-	2-	11-		0-W07426-	10/11/79-	11-	17-	15.0-	-	-	8.2-	600-	12-1-7-5-7-2-2-2-3-2-3-2-	-3-	-	-	-	3.80
56-	43.6822-	108.5617-	2-	12-		0-W07427-	10/11/79-	12-	19-	12.5-	-	-	7.7-	1650-	11-1-7-5-7-2-3-2-2-3-2-2-2-	-3-	-	-	-	5.37
56-	43.6931-	108.5594-	2-	99-		0-W07428-	10/11/79-	12-	20-	-	-C-	-	-	-	10-1-7-5-7-1-2-5-3-4-2-2-2-	-9-	-	-	-	3.92
56-	43.6964-	108.5600-	2-	12-		0-W07429-	10/11/79-	12-	20-	14.0-	-	-	7.6-	3250-	10-1-7-5-7-2-2-2-2-3-2-2-2-	-3-	-	-	-	5.18
56-	43.6969-	108.5625-	2-	12-		0-W07430-	10/11/79-	13-	20-	16.5-	-	-	7.6-	4350-	6-1-7-4-7-2-2-2-2-3-2-2-2-	-9-	-	-	-	3.86
56-	43.6911-	108.5892-	2-	12-		0-W07431-	10/11/79-	13-	20-	18.0-	-	-	7.8-	2800-	7-1-6-5-7-2-2-2-2-3-2-3-2-	-3-	-	-	-	4.56
56-	43.7200-	108.5706-	2-	15-		0-W07432-	10/11/79-	15-	23-	-	-	-	-	-	14-1-7-4-7-	-1-	-3-3-2-2-2-	-1-	-	-	-	3.91
56-	43.7042-	108.9825-	2-	15-		0-W07433-	10/11/79-	17-	21-	-C-	-	-	-	-	8-1-7-4-6-	-2-	-3-4-2-2-2-	-3-	-	-	-	2.05
56-	43.6794-	108.9783-	2-	15-		0-W07434-	10/11/79-	17-	19-	-	-	-	-	-	4-1-7-4-6-	-1-	-3-1-2-3-2-	-1-	-	-	-	2.16
56-	43.6667-	108.9433-	2-	15-		0-W07435-	10/11/79-	17-	17-	-	-	-	-	-	9-1-7-4-6-	-1-	-3-4-2-3-2-	-3-	-	-	-	2.20
56-	43.6669-	108.9453-	2-	15-		0-W07436-	10/11/79-	17-	17-	-	-	-	-	-	9-1-7-4-6-	-1-	-3-4-2-3-2-	-3-	-	-	-	1.99
56-	43.6594-	108.8433-	2-	15-		0-W07437-	10/11/79-	18-	15-	-C-	-	-	-	-	6-1-7-4-6-	-1-	-3-4-2-2-2-	-	-	-	-	2.74
56-	43.6597-	108.8336-	2-	15-		0-W07438-	10/11/79-	16-	15-	-	-	-	-	-	10-1-7-4-6-	-1-	-3-4-2-2-2-	-1-	-	-	-	2.89
56-	43.6583-	108.8219-	2-	15-		0-W07439-	10/11/79-	18-	13-	-C-	-	-	-	-	14-1-7-4-4-	-1-	-3-4-2-2-2-	-1-	-	-	-	3.25
56-	43.6808-	108.6244-	2-	12-		0-W07440-	10/12/79-	9-	12-	7.5-	-	-	7.7-	3300-	14-1-7-5-7-2-2-2-2-4-2-3-2-	-1-	-	-	-	4.41
56-	43.4192-	109.3139-	2-	15-		0-W07441-	10/04/79-	14-	24-	-	-	-	-	-	17-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	4.99
56-	43.4242-	109.3214-	2-	15-		0-W07442-	10/04/79-	14-	24-	-	-	-	-	-	4-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	4.67
56-	43.4458-	109.3314-	2-	15-		0-W07443-	10/04/79-	15-	25-	-	-	-	-	-	4-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	3.87
56-	43.4458-	109.3294-	2-	15-		0-W07444-	10/04/79-	15-	25-	-	-	-	-	-	6-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	6.31
56-	43.4681-	109.3622-	2-	15-		0-W07445-	10/04/79-	15-	24-	-	-	-	-	-	4-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	5.48
56-	43.4689-	109.3611-	2-	15-		0-W07446-	10/04/79-	15-	24-	-	-	-	-	-	2-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	3.16
56-	43.4392-	109.3675-	2-	15-		0-W07447-	10/04/79-	16-	24-	-	-	-	-	-	2-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	5.22
56-	43.4397-	109.3658-	2-	15-		0-W07448-	10/04/79-	16-	24-	-	-	-	-	-	3-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	3.46
56-	43.4453-	109.3817-	2-	15-		0-W07449-	10/04/79-	17-	24-	-	-	-	-	-	17-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	4.72
56-	43.4464-	109.3803-	2-	15-		0-W07450-	10/04/79-	17-	24-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	5.51
56-	43.4339-	109.3769-	2-	15-		0-W07451-	10/04/79-	17-	24-	-	-	-	-	-	7-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	4.22
56-	43.4231-	109.4083-	2-	15-		0-W07452-	10/04/79-	17-	24-	-	-	-	-	-	5-1-6-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	6.84
56-	43.3953-	109.3861-	2-	15-		0-W07454-	10/04/79-	18-	21-	-	-	-	-	-	3-3-8-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	7.89
56-	43.3956-	109.3875-	2-	15-		0-W07455-	10/04/79-	18-	21-	-	-	-	-	-	3-3-8-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	3.70
56-	43.4156-	109.3972-	2-	15-		0-W07456-	10/04/79-	19-	19-	-	-	-	-	-	6-1-6-4-4-	-1-	-2-3-3-4-1-	-1-	-	-	-	3.29
56-	43.4131-	109.4100-	2-	15-		0-W07457-	10/04/79-	19-	19-	-	-	-	-	-	2-3-7-4-4-	-1-	-2-3-3-4-1-	-1-	-	-	-	2.62
56-	43.6719-	109.3403-	2-	15-		0-W07458-	10/05/79-	9-	9-	-	-	-	-	-	13-3-8-4-6-	-1-	-2-1-3-4-1-	-1-	-	-	-	3.24
56-	43.6714-	109.3392-	2-	12-		0-W07459-	10/05/79-	9-	9-	2.8-	-	-	9.3-	118-	15-3-8-5-8-3-3-1-2-1-3-4-1-	-1-	-	-	-	1.96
56-	43.6461-	109.3547-	2-	12-		0-W07460-	10/05/79-	10-	18-	6.8-	-	-	7.2-	122-	-3-7-4-6-3-3-1-2-2-3-4-1-	-1-	-	-	-	1.73
56-	43.6469-	109.3542-	2-	12-		0-W07461-	10/05/79-	10-	19-	7.2-	-	-	7.7-	200-	-3-7-5-6-3-3-1-2-1-3-4-1-	-1-	-	-	-	1.33
56-	43.6556-	109.3458-	2-	12-		0-W07462-	10/05/79-	11-	21-	6.9-	-	-	7.7-	162-	-3-7-4-6-3-3-1-2-1-3-4-1-	-1-	-	-	-	2.24
56-	43.6558-	109.3442-	2-	12-		0-W07463-	10/05/79-	11-	21-	8.2-	-	-	7.8-	438-	-3-7-5-6-2-2-1-2-1-3-4-1-	-1-	-	-	-	1.21
56-	43.6497-	109.3475-	2-	11-		0-W07464-	10/05/79-	11-	21-	7.6-	-	-	7.8-	420-	-3-7-5-8-2-2-1- -1-3-4-1-	-1-	-	-	-	4.77
56-	43.6572-	109.3067-	2-	12-		0-W07465-	10/05/79-	12-	21-	8.4-	-	-	7.7-	240-	-3-7-5-6-2-2-1-2-1-3-5-1-	-1-	-	-	-	2.40
56-	43.6583-	109.3058-	2-	12-		0-W07466-	10/05/79-	12-	21-	8.1-	-	-	7.7-	125-	-3-7-5-6-3-3-1-2-1-3-5-1-	-1-	-	-	-	1.57

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.6414-108.5725-2-12-						0-W07415	-5	-5	-5	27	-20	-15	9	-10	-15	1	25
56-43.6467-108.5739-2-12-						0-W07416	-5	5	-5	19	-20	-15	6	-10	-15	2	28
56-43.6281-108.6167-2-11-						0-W07417	-5	5	-5	17	-20	16	6	-10	-15	1	21
56-43.6275-108.6075-2-12-						0-W07418	-5	-5	-5	19	-20	-15	-5	-10	-15	1	33
56-43.6308-108.6089-2-15-						0-W07419	-5	7	-5	19	-20	-15	-5	-10	-15	1	23
56-43.6392-108.6014-2-15-						0-W07420	-5	5	-5	27	-20	24	12	-10	-15	2	27
56-43.6636-108.5433-2-12-						0-W07421	-5	-5	-5	20	-20	17	7	-10	-15	3	27
56-43.6711-108.5017-2-12-						0-W07422	-5	-5	-5	21	-20	-15	9	-10	-15	2	26
56-43.6978-108.5139-2-15-						0-W07423	-5	5	-5	22	-20	-15	16	-10	-15	3	30
56-43.7022-108.5122-2-15-						0-W07424	-5	5	-5	15	-20	-15	11	-10	-15	3	30
56-43.7011-108.5125-2-15-						0-W07425	-5	-5	-5	12	-20	-15	8	-10	-15	2	22
56-43.6764-108.5819-2-11-						0-W07426	-5	-5	-5	24	-20	27	10	-10	-15	3	30
56-43.6822-108.5617-2-12-						0-W07427	-5	-5	-5	17	-20	-15	14	-10	-15	3	32
56-43.6931-108.5594-2-99-						0-W07428	-5	-5	-5	18	-20	-15	11	-10	-15	2	27
56-43.6964-108.5600-2-12-						0-W07429	-5	-5	-5	13	-20	-15	12	-10	-15	3	24
56-43.6969-108.5625-2-12-						0-W07430	-5	-5	-5	23	-20	-15	11	-10	-15	2	27
56-43.6911-108.5892-2-12-						0-W07431	-5	6	-5	20	-20	-15	16	-10	-15	3	24
56-43.7200-108.5706-2-15-						0-W07432	-5	-5	-5	19	-20	-15	11	-10	-15	2	27
56-43.7042-108.9825-2-15-						0-W07433	-5	-5	-5	46	-20	25	11	-10	-15	2	40
56-43.6794-108.9783-2-15-						0-W07434	-5	7	-5	38	-20	23	23	-10	-15	2	14
56-43.6667-108.9433-2-15-						0-W07435	-5	-5	-5	26	-20	23	15	-10	-15	2	27
56-43.6669-108.9453-2-15-						0-W07436	-5	-5	-5	36	-20	32	13	-10	-15	2	20
56-43.6594-108.8433-2-15-						0-W07437	-5	6	-5	29	-20	33	19	-10	-15	2	33
56-43.6597-108.8336-2-15-						0-W07438	-5	5	-5	19	-20	22	8	-10	-15	3	35
56-43.6583-108.8219-2-15-						0-W07439	-5	5	-5	25	-20	18	7	-10	-15	2	38
56-43.6808-108.6244-2-12-						0-W07440	-5	5	-5	23	-20	-15	10	-10	-15	2	37
56-43.4192-109.3139-2-15-						0-W07441	-5	10	-5	17	-20	21	26	-10	-15	2	22
56-43.4242-109.3214-2-15-						0-W07442	-5	8	-5	20	-20	-15	11	-10	15	2	16
56-43.4458-109.3314-2-15-						0-W07443	-5	13	-5	17	-20	18	13	-10	-15	2	25
56-43.4458-109.3294-2-15-						0-W07444	-5	10	-5	13	-20	-15	15	-10	-15	2	26
56-43.4681-109.3622-2-15-						0-W07445	-5	8	-5	-10	-20	-15	22	-10	-15	2	17
56-43.4689-109.3611-2-15-						0-W07446	-5	7	-5	19	-20	23	19	-10	-15	2	27
56-43.4392-109.3675-2-15-						0-W07447	-5	16	-5	17	-20	-15	19	-10	-15	2	21
56-43.4397-109.3658-2-15-						0-W07448	-5	8	-5	13	-20	-15	12	-10	-15	2	19
56-43.4453-109.3817-2-15-						0-W07449	-5	8	-5	13	-20	16	11	-10	-15	1	20
56-43.4464-109.3803-2-15-						0-W07450	-5	11	-5	14	-20	16	15	-10	-15	2	23
56-43.4339-109.3769-2-15-						0-W07451	-5	8	-5	25	-20	21	22	-10	21	2	23
56-43.4231-109.4083-2-15-						0-W07452	-5	7	-5	14	-20	-15	10	-10	-15	2	26
56-43.3953-109.3861-2-15-						0-W07454	-5	11	-5	17	-20	17	16	-10	-15	3	30
56-43.3956-109.3875-2-15-						0-W07455	-5	-5	-5	15	-20	19	12	-10	-15	2	33
56-43.4156-109.3972-2-15-						0-W07456	-5	-5	-5	20	-20	28	12	-10	-15	2	30
56-43.4131-109.4100-2-15-						0-W07457	-5	5	-5	25	-20	-15	13	-10	-15	2	39
56-43.6719-109.3403-2-15-						0-W07458	-5	-5	-5	38	-20	38	20	-10	-15	2	18
56-43.6714-109.3392-2-12-						0-W07459	-5	-5	-5	26	-20	67	16	-10	-15	2	28
56-43.6461-109.3547-2-12-						0-W07460	-5	-5	-5	33	-20	51	11	-10	-15	2	21
56-43.6469-109.3542-2-12-						0-W07461	-5	-5	-5	12	-20	15	6	-10	-15	2	13
56-43.6556-109.3458-2-12-						0-W07462	-5	-5	-5	38	-20	56	16	-10	-15	2	27
56-43.6558-109.3442-2-12-						0-W07463	-5	-5	-5	26	-20	25	12	-10	-15	2	12
56-43.6497-109.3475-2-11-						0-W07464	-5	5	-5	41	-20	27	14	-10	-15	2	20
56-43.6572-109.3067-2-12-						0-W07465	-5	7	-5	26	-20	34	17	-10	18	1	21
56-43.6583-109.3058-2-12-						0-W07466	-5	-5	-5	30	-20	40	12	-10	-15	1	-1

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.6467-108.5739-2-12-						0-W07416	36780	-0.07	471	44790	54	80	5.0	44	2.7	4	1.3	17040	12.1	16460	26	0.4
56-43.6281-108.6167-2-11-						0-W07417	37930	-0.07	295	51390	44	-65	5.0	38	2.6	4	1.1	14650	8.9	18280	24	0.3
56-43.6275-108.6075-2-12-						0-W07418	41640	-0.06	329	44220	50	-68	6.2	42	2.7	5	1.2	18590	12.8	19070	29	0.4
56-43.6308-108.6089-2-15-						0-W07419	36120	-0.07	329	51540	65	-49	6.0	51	2.9	5	1.3	16280	17.3	15070	28	0.5
56-43.6292-108.6014-2-15-						0-W07420	48030	-0.07	568	31680	55	70	6.3	64	3.2	4	1.3	20350	8.7	15900	31	0.3
56-43.6636-108.5433-2-12-						0-W07421	38130	-0.07	463	30610	55	-49	7.0	48	2.5	5	1.1	19370	12.3	14470	33	0.4
56-43.6711-108.5017-2-12-						0-W07422	45660	-0.07	535	25620	59	-57	6.8	45	3.6	5	1.3	19650	10.4	15420	34	0.3
56-43.6978-108.5139-2-15-						0-W07423	54760	-0.07	730	8680	62	-61	5.1	34	4.3	4	1.2	13930	7.2	20050	37	0.4
56-43.7022-108.5122-2-15-						0-W07424	47410	-0.05	708	9546	57	-58	1.9	29	3.4	4	1.2	12000	7.5	19730	30	0.4
56-43.7011-108.5125-2-15-						0-W07425	46640	-0.05	800	10210	58	-58	2.9	29	2.9	4	1.2	11380	9.6	18400	29	0.3
56-43.6764-108.5819-2-11-						0-W07426	59220	-0.08	702	14850	63	-75	7.9	51	3.7	5	1.3	21480	8.6	20150	35	0.3
56-43.6822-108.5617-2-12-						0-W07427	57030	-0.08	615	14800	72	-63	7.8	46	4.2	4	1.3	19850	8.3	16260	34	0.4
56-43.6931-108.5594-2-99-						0-W07428	52190	-0.07	688	14710	57	171	3.4	35	3.3	4	1.2	15410	7.4	21410	29	0.3
56-43.6964-108.5600-2-12-						0-W07429	59900	-0.07	661	22440	67	-64	5.0	35	4.7	5	1.3	20570	6.5	16680	36	0.3
56-43.6969-108.5625-2-12-						0-W07430	45180	-0.05	720	15830	53	-62	4.5	24	2.7	3	1.0	13410	6.4	18730	33	0.2
56-43.6911-108.5692-2-12-						0-W07431	55350	-0.08	703	18030	55	104	3.6	32	4.0	4	1.2	14910	7.0	19140	35	0.4
56-43.7200-108.5706-2-15-						0-W07432	52120	-0.05	862	12610	56	-63	1.9	24	2.3	4	1.1	10320	5.8	20720	31	0.3
56-43.7042-108.9825-2-15-						0-W07433	79740	-0.09	1429	34490	56	-90	20.5	101	2.9	2	1.3	45320	4.0	19270	35	0.2
56-43.6794-108.9783-2-15-						0-W07434	57200	-0.08	1534	91880	64	-100	24.2	59	3.6	3	1.5	28420	5.2	13640	42	0.3
56-43.6667-108.9433-2-15-						0-W07435	69800	-0.09	590	29390	66	-80	9.8	85	3.1	2	1.3	24860	6.5	14160	29	0.3
56-43.6669-108.9453-2-15-						0-W07436	62300	-0.08	776	59040	65	-82	9.2	78	2.8	3	1.5	25630	5.8	15000	40	0.2
56-43.6594-108.8433-2-15-						0-W07437	57790	-0.08	576	15870	61	-84	10.4	79	4.5	4	1.3	28470	9.0	19740	35	0.4
56-43.6597-108.8336-2-15-						0-W07438	59580	-0.07	764	31600	67	-82	9.6	76	3.3	4	1.4	27220	9.2	21180	42	0.3
56-43.6593-108.8219-2-15-						0-W07439	49880	-0.08	387	40100	56	-70	7.0	61	3.2	4	1.3	19240	10.0	19030	33	0.4
56-43.6808-108.6244-2-12-						0-W07440	53930	-0.07	477	35210	52	-60	4.9	30	3.7	4	1.2	17430	5.5	18730	29	0.3
56-43.4192-109.3139-2-15-						0-W07441	61400	-0.06	637	20460	148	-79	7.0	93	2.0	5	1.6	19120	17.1	18920	84	0.4
56-43.4242-109.3214-2-15-						0-W07442	37060	-0.05	575	57630	86	-58	4.3	39	1.5	5	1.1	13020	12.7	16640	55	0.4
56-43.4458-109.3314-2-15-						0-W07443	42710	0.14	510	53420	83	82	4.3	42	-1.3	4	1.2	11730	11.3	19430	40	0.3
56-43.4459-109.3294-2-15-						0-W07444	40810	-0.05	568	45710	104	-55	3.1	50	-1.1	5	1.0	12150	17.3	19580	64	0.4
56-43.4681-109.3622-2-15-						0-W07445	34980	-0.05	562	55930	125	-53	2.7	43	-1.0	5	1.1	11800	18.4	21390	68	0.4
56-43.4689-109.3611-2-15-						0-W07446	49620	-0.06	662	39780	72	-70	4.9	52	2.5	4	1.1	15720	7.9	21680	40	0.2
56-43.4392-109.3675-2-15-						0-W07447	42930	-0.05	573	48140	112	-60	3.3	44	-1.1	5	1.1	14950	15.7	19180	68	0.3
56-43.4397-109.3658-2-15-						0-W07448	41530	-0.05	681	48130	94	-59	3.8	42	1.6	4	1.2	15260	9.7	19410	49	0.4
56-43.4453-109.3817-2-15-						0-W07449	39320	-0.05	500	57470	111	-53	4.5	44	1.6	5	1.2	17270	12.9	19970	64	0.3
56-43.4464-109.3803-2-15-						0-W07450	38700	-0.06	442	63690	138	-62	3.7	46	-1.2	6	1.1	14010	16.6	22070	78	0.5
56-43.4339-109.3769-2-15-						0-W07451	55120	-0.05	679	35820	97	-74	5.1	69	-1.1	4	1.1	15390	11.5	22150	56	0.3
56-43.4231-109.4083-2-15-						0-W07452	46450	-0.06	611	35100	94	64	4.4	49	3.5	5	1.3	16390	11.8	18130	52	0.5
56-43.3953-109.3861-2-15-						0-W07454	51260	-0.06	450	22420	154	-69	8.7	85	-1.3	12	1.8	28440	22.1	16980	82	0.9
56-43.3956-109.3875-2-15-						0-W07455	50490	-0.07	537	40610	83	-75	7.9	64	2.4	5	1.3	20690	12.3	17850	38	0.4
56-43.4156-109.3972-2-15-						0-W07456	49180	-0.06	353	44290	75	-62	6.4	58	1.7	5	1.3	21260	11.6	16150	39	0.4
56-43.4131-109.4100-2-15-						0-W07457	40120	-0.06	494	47470	48	-57	5.3	47	1.9	4	1.0	17480	10.8	16020	25	0.3
56-43.6719-109.3403-2-15-						0-W07458	77850	-0.09	1391	31750	91	-117	19.1	153	-1.9	2	1.6	40560	5.5	13580	47	-0.1
56-43.6714-109.3392-2-12-						0-W07459	81460	-0.10	1161	41870	111	-121	21.2	232	-2.1	3	1.9	46970	6.8	12710	56	0.4
56-43.6461-109.3547-2-12-						0-W07460	81180	-0.14	1492	33530	75	-121	16.3	105	-1.7	3	1.4	28990	4.3	16430	35	0.5
56-43.6469-109.3542-2-12-						0-W07461	87190	-0.13	1360	28420	76	-105	16.8	66	-1.6	2	1.6	32690	3.8	18750	42	0.2
56-43.6556-109.3458-2-12-						0-W07462	75910	-0.18	1157	36740	119	188	21.7	233	-2.1	3	1.8	49320	9.9	17730	44	0.3
56-43.6558-109.3442-2-12-						0-W07463	83260	-0.13	1519	40910	79	-105	15.6	61	-1.6	3	1.7	33250	3.2	16250	65	0.4
56-43.6497-109.3475-2-11-						0-W07464	61930	-0.16	995	20440	44	-97	6.2	88	-1.8	5	1.1	16590	4.3	17320	-22	0.4
56-43.6572-109.3067-2-12-						0-W07465	83510	-0.13	1288	33960	74	-102	15.0	105	-1.7	2	1.7	32410	5.1	18860	47	0.2
56-43.6583-109.3058-2-12-						0-W07466	87880	-0.16	1620	46660	100	168	15.4	151	-1.9	2	1.5	34670	3.2	12270	50	-0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.6414-108.5725-2-12-						0-W07415	14520	383	1837	-33	-1	6.9	6.5	-220	-2	-1	10.0	3813	64	3.4	-42	0.378
56-43.6457-108.5739-2-12-						0-W07416	27920	369	4141	48	-2	5.6	4.9	-206	-1	-1	8.0	3445	46	3.4	-72	0.388
56-43.6281-108.6167-2-11-						0-W07417	31530	321	8158	54	-2	5.8	4.0	-205	-1	1	6.5	2971	43	-1.3	-31	0.372
56-43.6275-108.6075-2-12-						0-W07418	36710	415	6398	60	-2	6.8	4.9	-238	-1	-1	8.8	3300	41	3.5	-69	0.284
56-43.6308-108.6089-2-12-						0-W07419	45040	407	3183	-25	-2	6.5	5.6	-200	-1	-1	9.9	3762	51	3.4	-32	0.306
56-43.6392-108.6014-2-15-						0-W07420	24140	443	7130	45	-2	7.0	3.9	-225	-1	-1	7.4	3695	64	2.2	43	0.418
56-43.6636-108.5433-2-12-						0-W07421	14870	446	3216	55	-2	6.2	4.6	-202	-1	-1	8.9	3278	53	3.1	61	0.370
56-43.6711-108.5017-2-12-						0-W07422	14430	319	4272	46	-2	6.7	5.0	-213	-1	-1	8.2	3501	54	3.9	55	0.404
56-43.6978-108.5139-2-15-						0-W07423	6911	288	8315	80	-2	4.4	5.7	-187	-1	-1	12.5	2000	47	2.9	52	0.399
56-43.7022-108.5122-2-15-						0-W07424	6372	258	8452	89	-1	3.7	4.7	-177	-1	-1	10.2	2076	41	2.6	-26	0.427
56-43.7011-108.5125-2-15-						0-W07425	5810	251	9667	63	-1	3.7	4.1	227	-1	-1	11.7	1883	36	3.3	50	0.361
56-43.6744-108.5819-2-11-						0-W07426	13260	436	6520	92	-2	7.1	5.0	-274	-1	-1	12.4	2882	58	3.0	101	0.306
56-43.6822-108.5617-2-12-						0-W07427	7650	497	5820	69	-2	6.2	5.8	-228	-1	-1	12.7	2607	73	3.9	-34	0.423
56-43.6931-108.5594-2-99-						0-W07428	11010	311	9087	59	-2	4.9	3.9	320	-1	-1	9.9	2305	50	2.6	70	0.396
56-43.6964-108.5600-2-12-						0-W07429	14690	350	7743	76	-2	6.3	5.7	418	-1	-1	13.3	3072	53	2.9	64	0.389
56-43.6969-108.5625-2-12-						0-W07430	6357	310	7054	58	-1	3.8	4.5	-208	-1	-1	9.6	1721	44	2.7	71	0.402
56-43.6911-108.5892-2-12-						0-W07431	8478	265	5769	51	-2	4.9	5.0	348	-1	-1	12.0	1864	48	3.6	68	0.380
56-43.7200-108.5706-2-15-						0-W07432	10130	190	11580	53	-1	3.2	4.0	268	-1	-1	9.8	2205	39	2.2	42	0.399
56-43.7042-108.9825-2-15-						0-W07433	29550	693	15590	63	-2	13.7	3.9	700	-1	-1	7.8	4378	140	2.4	142	0.263
56-43.6794-108.9783-2-15-						0-W07434	13880	1413	4823	-29	-2	11.2	4.6	-434	-1	-1	7.3	3246	82	2.4	-40	0.296
56-43.6667-108.9433-2-15-						0-W07435	27380	552	10270	-33	-2	8.1	4.2	-260	-1	-1	8.9	3002	78	-1.8	-60	0.247
56-43.6669-108.9453-2-15-						0-W07436	45890	527	10910	-30	-2	8.7	3.8	439	-1	-1	8.3	2989	79	2.6	-41	0.240
56-43.6594-108.8433-2-15-						0-W07437	23960	937	9479	64	-2	9.4	5.3	-325	-1	-1	9.5	3943	77	4.2	-65	0.288
56-43.6597-108.8336-2-15-						0-W07438	28730	569	8612	76	-2	8.8	4.8	-301	-1	-1	11.0	3659	72	3.5	82	0.263
56-43.6583-108.8219-2-15-						0-W07439	30190	427	9480	-26	-2	7.1	5.0	-221	-1	-1	8.2	3059	53	2.4	-33	0.396
56-43.6808-108.6244-2-12-						0-W07440	17230	361	5938	51	-2	5.8	4.3	362	-1	-1	10.5	2679	53	3.1	-35	0.420
56-43.4192-109.3139-2-15-						0-W07441	13130	308	17800	41	-2	5.4	8.9	368	-1	-1	51.9	2475	41	3.6	58	0.096
56-43.4242-109.3214-2-15-						0-W07442	30810	234	6056	52	-1	4.4	6.2	-187	-1	1	31.1	2267	35	3.6	30	0.150
56-43.4458-109.3314-2-15-						0-W07443	28300	222	7115	36	-1	3.9	6.1	-170	-1	-1	26.2	1712	29	4.6	-30	0.146
56-43.4458-109.3294-2-15-						0-W07444	24300	214	8105	-18	-1	4.0	7.4	-163	-1	-1	37.0	2319	35	5.0	38	0.171
56-43.4681-109.3622-2-15-						0-W07445	28890	259	7115	49	-1	3.9	10.5	-163	-1	1	49.7	1909	21	6.9	-24	0.110
56-43.4689-109.3611-2-15-						0-W07446	20350	280	10200	54	-2	4.4	5.5	-208	-1	-1	23.8	2219	32	3.3	36	0.133
56-43.4392-109.3675-2-15-						0-W07447	27600	254	8881	45	-1	4.0	7.8	-172	-1	-1	48.5	1885	32	5.1	-17	0.108
56-43.4397-109.3658-2-15-						0-W07448	23510	272	8855	66	-1	4.0	7.3	-176	-1	-1	32.2	2101	30	2.7	31	0.107
56-43.4453-109.2817-2-15-						0-W07449	29530	292	6865	49	-1	4.7	7.6	-168	-1	-1	42.4	1950	32	5.8	48	0.111
56-43.4464-109.2803-2-15-						0-W07450	32470	290	7578	-24	-1	3.8	10.6	-205	-1	1	57.0	1851	27	6.5	-28	0.097
56-43.4336-109.3769-2-15-						0-W07451	15650	284	15410	61	-1	4.2	7.3	-192	-1	-1	39.1	1697	26	5.3	52	0.108
56-43.4231-109.4083-2-15-						0-W07452	19920	292	6292	60	-1	5.0	7.9	-184	-1	-1	28.4	2190	44	3.9	73	0.241
56-43.3953-109.3861-2-15-						0-W07454	16370	413	13140	55	-2	7.6	11.7	-208	-1	2	45.8	4559	62	8.7	94	0.172
56-43.3956-109.3875-2-15-						0-W07455	17040	391	9419	-28	-2	6.4	5.9	-243	-1	-1	17.8	2939	51	3.8	-36	0.208
56-43.4156-109.3972-2-15-						0-W07456	24340	385	8361	49	-1	6.6	6.4	-194	-1	-1	20.4	2693	67	5.3	-66	0.161
56-43.4131-109.4100-2-15-						0-W07457	26450	360	7017	40	-1	5.8	4.3	-190	-1	-1	10.2	3153	47	2.9	89	0.257
56-43.6719-109.3403-2-15-						0-W07458	26310	986	21190	-37	-2	12.3	4.9	998	-2	-1	9.2	3967	105	-1.8	188	0.352
56-43.6714-109.3392-2-12-						0-W07459	42130	633	24660	-34	-2	13.0	6.6	1255	-1	-1	8.1	5584	151	-2.0	121	0.242
56-43.6461-109.3547-2-12-						0-W07460	40720	594	20270	-33	-4	8.5	4.5	796	-1	-1	8.3	4095	81	-2.2	82	0.208
56-43.6466-109.3542-2-12-						0-W07461	26410	539	20920	-30	-3	9.6	5.0	732	-1	-1	7.6	3699	100	-2.2	130	0.175
56-43.6556-109.3458-2-12-						0-W07462	35780	637	23070	-40	-5	12.9	6.7	936	-2	-1	11.1	6832	175	4.1	81	0.202
56-43.6558-109.3442-2-12-						0-W07463	26520	526	22520	-32	-3	8.9	5.1	1066	-1	-1	7.0	4225	95	-2.1	78	0.173
56-43.6497-109.3475-2-11-						0-W07464	17970	181	9412	-35	-4	6.2	3.3	649	-2	-1	9.3	2652	55	-2.8	115	0.513
56-43.6572-109.3067-2-12-						0-W07465	27140	440	20830	-31	-3	10.0	4.2	659	-1	-1	10.2	3844	89	-2.1	-38	0.235
56-43.6583-109.3056-2-12-						0-W07466	30340	536	23900	-34	-4	10.7	7.3	1165	-1	-1	7.7	4974	133	-2.7	-28	0.204

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.6511-109.3186-2-12-						0-W07467-10/05/79-13-	22-	9.8-	-	-	7.8-	122-		-3-7-5-6-3-3-1-2-1-3-5-2-		-1-	-	-	-	-	1.54
56-43.6353-109.3417-2-12-						0-W07468-10/05/79-15-	22-	10.2-	-	-	7.9-	140-		22-3-7-5-8-2-2-1-2-2-3-4-2-		-1-	-	-	-	-	2.77
56-43.6408-109.3700-2-12-						0-W07469-10/05/79-15-	22-	11.8-C-	-	-	7.7-	170-		17-3-7-5-8-2-2-1-2-2-3-4-2-		-1-	-	-	-	-	2.51
56-43.6036-109.4050-2-15-						0-W07470-10/05/79-15-	22-	-	-	-	-	-		5-3-7-4-7-	-1-	-2-3-3-4-2-	-1-	-	-	-	2.54
56-43.5978-109.4253-2-15-						0-W07471-10/05/79-16-	20-	-	-	-	-	-		20-3-7-4-7-	-1-	-2-3-3-4-2-	-1-	-	-	-	3.24
56-43.5850-109.4483-2-15-						0-W07472-10/05/79-16-	21-	-	-	-	-	-		6-3-7-4-4-	-1-	-2-3-3-4-2-	-1-	-	-	-	3.90
56-43.4353-109.4486-2-15-						0-W07474-10/05/79-19-	18-	-	-	-	-	-		15-1-6-4-4-	-1-	-2-3-3-5-3-	-1-	-	-	-	2.92
56-43.6242-109.3558-2-15-						0-W07475-10/06/79-11-	21-	-	-	-	-	-		6-3-6-4-7-	-1-	-2-3-3-4-1-	-1-	-	-	-	4.62
56-43.6172-109.3503-2-11-						0-W07476-10/06/79-12-	20-	10.9-	-	-	8.6-	1450-		15-3-6-5-7-2-2-1-	-3-3-4-1-	-1-	-	-	-	-	3.60
56-43.6208-109.3336-2-15-						0-W07477-10/06/79-13-	20-	-C-	-	-	-	-		11-3-7-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	3.17
56-43.6158-109.3308-2-99-						0-W07478-10/06/79-13-	21-	-C-	-	-	-	-		7-3-7-4-7-	-1-	- -3-3-4-2-	-1-	-	-	-	1.77
56-43.6239-109.3333-2-11-						0-W07479-10/06/79-14-	21-	9.7-C-	-	-	8.0-	340-		9-3-7-5-8-2-2-1-	-3-3-4-2-	-3-	-	-	-	-	1.65
56-43.5411-109.4431-2-15-						0-W07480-10/06/79-15-	21-	-	-	-	-	-		2-3-6-4-4-	-1-	-2-3-3-4-2-	-1-	-	-	-	6.22
56-43.5419-109.4444-2-15-						0-W07481-10/06/79-15-	21-	-	-	-	-	-		2-3-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	3.94
56-43.5553-109.4306-2-15-						0-W07482-10/06/79-15-	21-	-	-	-	-	-		4-3-7-4-4-	-1-	-2-3-3-4-2-	-1-	-	-	-	4.71
56-43.5461-109.4167-2-15-						0-W07483-10/06/79-15-	21-	-	-	-	-	-		5-3-7-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	12.37
56-43.5181-109.4644-2-15-						0-W07485-10/06/79-16-	21-	-	-	-	-	-		13-1-6-4-4-	-1-	-2-3-3-4-2-	-1-	-	-	-	2.68
56-43.5014-109.4556-2-15-						0-W07486-10/06/79-18-	20-	-	-	-	-	-		7-3-7-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	4.01
56-43.5031-109.4553-2-15-						0-W07487-10/06/79-18-	20-	-	-	-	-	-		19-3-7-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	3.83
56-43.5139-109.4306-2-15-						0-W07488-10/06/79-17-	21-	-	-	-	-	-		25-1-4-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	3.10
56-43.5244-109.4064-2-15-						0-W07489-10/06/79-18-	20-	-	-	-	-	-		5-3-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	3.66
56-43.5242-109.4019-2-15-						0-W07490-10/06/79-17-	21-	-	-	-	-	-		17-3-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	7.99
56-43.5253-109.4025-2-15-						0-W07491-10/06/79-17-	21-	-	-	-	-	-		25-3-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	1.95
56-43.5383-109.3817-2-15-						0-W07492-10/06/79-17-	20-	-	-	-	-	-		2-3-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	2.55
56-43.5517-109.3831-2-15-						0-W07493-10/06/79-18-	20-	-	-	-	-	-		2-3-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	10.88
56-43.4439-109.4458-2-15-						0-W07494-10/07/79- 9-	13-	-	-	-	-	-		2-3-7-4-6-	-1-	-2-3-3-4-3-	-1-	-	-	-	5.16
56-43.4369-109.4847-2-12-						0-W07496-10/07/79-10-	14-	12.8-	-	-	6.8-	750-		7-1-4-5-7-3-3-1-2-3-3-4-3-		-1-	-	-	-	-	1.56
56-43.4239-109.4436-2-15-						0-W07498-10/07/79-10-	18-	-	-	-	-	-		15-1-4-4-4-	-1-	-2-3-3-4-3-	-1-	-	-	-	2.27
56-43.4094-109.4583-2-15-						0-W07499-10/07/79-12-	21-	-	-	-	-	-		10-1-4-4-4-	-1-	-2-3-3-4-3-	-1-	-	-	-	3.90
56-43.4100-109.4592-2-15-						0-W07500-10/07/79-12-	21-	-	-	-	-	-		15-1-4-4-4-	-1-	-2-3-3-4-3-	-1-	-	-	-	3.63
56-43.4081-109.4556-2-15-						0-W07501-10/07/79-12-	21-	-	-	-	-	-		17-1-4-4-4-	-1-	-2-3-3-4-3-	-1-	-	-	-	3.11
56-43.3956-109.4297-2-15-						0-W07502-10/07/79-12-	22-	-	-	-	-	-		14-1-4-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	2.36
56-43.3953-109.4317-2-12-						0-W07503-10/07/79-12-	22-	14.7-C-	-	-	8.0-	500-		11-1-4-5-8-3-3-1-2-3-3-4-2-		-1-	-	-	-	-	2.63
56-43.4678-109.2975-2-15-						0-W07504-10/07/79-14-	23-	-	-	-	-	-		8-3-7-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	3.69
56-43.4678-109.3003-2-15-						0-W07505-10/07/79-14-	23-	-	-	-	-	-		26-3-7-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	2.89
56-43.4925-109.3169-2-15-						0-W07506-10/07/79-14-	23-	-	-	-	-	-		19-3-7-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	3.01
56-43.4928-109.3708-2-12-						0-W07507-10/07/79-14-	23-	16.8-C-	-	-	8.1-	450-		7-3-6-5-8-2-2-1-2-3-3-4-2-		-3-	-	-	-	-	6.00
56-43.4125-109.2583-2-15-						0-W07508-10/07/79-16-	22-	-	-	-	-	-		9-3-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	4.42
56-43.3694-109.1342-2-15-						0-W07509-10/07/79-16-	22-	-	-	-	-	-		9-4-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	3.61
56-43.3686-109.1356-2-15-						0-W07510-10/07/79-16-	22-	-	-	-	-	-		12-4-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	5.86
56-43.3817-109.1294-2-15-						0-W07511-10/07/79-17-	21-	-	-	-	-	-		14-4-6-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	4.80
56-43.3814-109.1278-2-15-						0-W07512-10/07/79-17-	21-	-	-	-	-	-		9-4-6-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	3.79
56-43.3794-109.1456-2-15-						0-W07513-10/07/79-17-	20-	-	-	-	-	-		14-4-6-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	3.54
56-43.3986-109.1697-2-15-						0-W07514-10/07/79-18-	20-	-	-	-	-	-		13-1-6-4-6-	-1-	-2-3-3-4-3-	-1-	-	-	-	3.50
56-43.4058-109.1867-2-15-						0-W07515-10/07/79-19-	18-	-	-	-	-	-		12-3-6-4-6-	-1-	-2-3-3-4-3-	-1-	-	-	-	4.06
56-43.4964-109.1847-2-15-						0-W07516-10/07/79-19-	18-	-	-	-	-	-		13-3-6-4-6-	-1-	-2-3-3-4-3-	-1-	-	-	-	2.43
56-43.4806-109.2014-2-15-						0-W07517-10/08/79- 7-	14-	-	-	-	-	-		4-3-7-4-4-	-1-	-2-3-3-4-1-	-1-	-	-	-	4.81
56-43.4800-109.2003-2-15-						0-W07518-10/08/79- 7-	14-	-	-	-	-	-		6-3-7-4-4-	-1-	-2-3-3-4-1-	-1-	-	-	-	4.32
56-43.4578-109.1903-2-15-						0-W07519-10/08/79- 8-	15-	-	-	-	-	-		14-3-7-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	4.32
56-43.4472-109.1731-2-15-						0-W07520-10/08/79- 9-	16-	-	-	-	-	-		-3-7-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	3.78
56-43.4589-109.1744-2-15-						0-W07521-10/08/79- 9-	16-	-	-	-	-	-		18-3-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	3.31

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.6511-109.3186-2-12-						0-W07467	-5	-5	-5	22	-20	24	19	-10	-15	2	15
56-43.6353-109.3417-2-12-						0-W07468	-5	8	-5	20	-20	35	19	-10	-15	3	25
56-43.6408-109.3700-2-12-						0-W07469	-5	-5	-5	14	-20	47	19	-10	-15	2	24
56-43.6036-109.4050-2-15-						0-W07470	-5	-5	-5	30	-20	17	27	-10	-15	2	17
56-43.5978-109.4253-2-15-						0-W07471	-5	-5	-5	37	-20	36	15	-10	-15	2	33
56-43.5850-109.4483-2-15-						0-W07472	-5	6	-5	36	-20	96	20	-10	-15	2	33
56-43.4353-109.4486-2-15-						0-W07474	-5	-5	-5	19	-20	-15	11	-10	-15	2	27
56-43.6242-109.3558-2-15-						0-W07475	-5	10	-5	18	-20	-15	26	-10	-15	2	26
56-43.6172-109.3503-2-11-						0-W07476	-5	6	-5	17	-20	-15	14	-10	-15	2	27
56-43.6208-109.3336-2-15-						0-W07477	-5	8	-5	19	-20	15	20	-10	-15	2	24
56-43.6158-109.3308-2-99-						0-W07478	-5	-5	-5	32	-20	66	17	-10	-15	2	28
56-43.6239-109.3333-2-11-						0-W07479	-5	-5	-5	41	-20	57	27	-10	-15	2	22
56-43.5411-109.4431-2-15-						0-W07480	-5	10	-5	18	-20	48	25	-10	26	2	26
56-43.5419-109.4444-2-15-						0-W07481	-5	9	-5	31	-20	55	21	-10	-15	3	36
56-43.5553-109.4306-2-15-						0-W07482	-5	9	-5	29	-20	57	21	-10	-15	2	27
56-43.5661-109.4167-2-15-						0-W07483	-5	25	-5	21	-20	59	28	-10	17	2	26
56-43.5181-109.4644-2-15-						0-W07485	-5	-5	-5	15	-20	-15	-5	-10	-15	2	24
56-43.5014-109.4556-2-15-						0-W07486	-5	11	-5	25	-20	-15	13	-10	-15	2	16
56-43.5031-109.4553-2-15-						0-W07487	-5	6	-5	14	-20	-15	15	-10	-15	2	15
56-43.5139-109.4306-2-15-						0-W07488	-5	-5	-5	16	-20	-15	8	-10	-15	2	13
56-43.5244-109.4064-2-15-						0-W07489	-5	12	-5	24	-20	50	18	-10	-15	2	34
56-43.5242-109.4019-2-15-						0-W07490	-5	13	-5	27	-20	27	22	-10	-15	2	31
56-43.5253-109.4025-2-15-						0-W07491	-5	-5	-5	36	-20	33	12	-10	-15	2	35
56-43.5383-109.3817-2-15-						0-W07492	-5	5	-5	48	-20	26	13	-10	-15	2	29
56-43.5517-109.3831-2-15-						0-W07493	5	24	-5	35	-20	33	21	-10	-15	2	21
56-43.4439-109.4458-2-15-						0-W07494	-5	9	-5	23	-20	20	11	-10	-15	2	37
56-43.4369-109.4847-2-12-						0-W07496	-5	-5	-5	-10	-20	19	-5	-10	-15	1	16
56-43.4239-109.4436-2-15-						0-W07498	-5	5	-5	21	-20	-15	5	-10	-15	2	43
56-43.4094-109.4583-2-15-						0-W07499	-5	7	-5	49	-20	-15	5	-10	15	2	32
56-43.4100-109.4592-2-15-						0-W07500	-5	6	-5	26	-20	-15	10	-10	17	3	51
56-43.4081-109.4556-2-15-						0-W07501	-5	5	-5	17	-20	-15	-5	-10	-15	2	29
56-43.3956-109.4297-2-15-						0-W07502	-5	-5	-5	24	-20	-15	6	-10	-15	2	45
56-43.3953-109.4317-2-12-						0-W07503	-5	6	-5	12	-20	-15	-5	-10	-15	2	48
56-43.4678-109.2975-2-15-						0-W07504	-5	7	-5	29	-20	32	14	-10	18	3	32
56-43.4678-109.3003-2-15-						0-W07505	-5	5	-5	33	-20	20	17	-10	-15	3	32
56-43.4925-109.3169-2-15-						0-W07506	-5	5	-5	25	-20	23	19	-10	-15	3	44
56-43.4928-109.3208-2-12-						0-W07507	-5	13	-5	31	-20	37	22	-10	23	3	28
56-43.4125-109.2583-2-15-						0-W07508	-5	8	-5	16	-20	-15	14	-10	-15	2	29
56-43.3694-109.1342-2-15-						0-W07509	-5	10	-5	20	-20	22	18	-10	20	3	33
56-43.3686-109.1356-2-15-						0-W07510	-5	5	-5	19	-20	-15	12	-10	-15	3	32
56-43.3817-109.1294-2-15-						0-W07511	-5	-5	-5	33	-20	27	12	-10	-15	3	45
56-43.3814-109.1278-2-15-						0-W07512	-5	6	-5	17	-20	39	11	-10	-15	3	42
56-43.3794-109.1456-2-15-						0-W07513	-5	7	-5	24	-20	-15	20	-10	15	3	41
56-43.3986-109.1697-2-15-						0-W07514	-5	5	-5	14	-20	23	14	-10	-15	3	32
56-43.4958-109.1867-2-15-						0-W07515	-5	6	-5	22	-20	23	16	-10	-15	2	34
56-43.4964-109.1847-2-15-						0-W07516	-5	-5	-5	27	-20	19	13	-10	-15	3	27
56-43.4806-109.2014-2-15-						0-W07517	-5	8	-5	21	-20	19	15	-10	-15	2	27
56-43.4800-109.2003-2-15-						0-W07518	-5	11	-5	29	-20	28	21	-10	-15	3	44
56-43.4578-109.1903-2-15-						0-W07519	-5	-5	-5	18	-20	21	14	-10	-15	3	48
56-43.4472-109.1731-2-15-						0-W07520	-5	8	-5	26	-20	28	16	-10	19	2	50
56-43.4589-109.1244-2-15-						0-W07521	-5	-5	-5	21	-20	29	26	-10	-15	3	45

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)																
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.6511-	109.3186-	2-	12-	0-	W07467	84330	-0.13	1605	39060	82	-102	15.9	113	-1.6	2	1.6	31920	3.8	12830	53	0.5
56-	43.6353-	109.3417-	2-	12-	0-	W07468	80910	-0.13	1477	37110	92	-116	12.4	128	-1.6	3	1.5	28520	8.0	13000	61	0.2
56-	43.6408-	109.3700-	2-	12-	0-	W07469	82860	-0.13	1387	34520	118	-109	18.9	194	-1.7	3	2.0	38050	8.4	12130	76	0.2
56-	43.6036-	109.4050-	2-	15-	0-	W07470	75900	-0.14	2146	44200	108	-111	11.9	150	-1.6	3	1.8	32880	6.6	21180	54	0.3
56-	43.5978-	109.4253-	2-	15-	0-	W07471	76660	-0.15	1176	31790	116	-94	15.0	144	-1.8	4	1.9	39330	12.7	18510	73	0.3
56-	43.5850-	109.4483-	2-	15-	0-	W07472	84470	-0.13	638	18970	132	-103	14.8	397	-1.5	4	1.5	31810	13.3	14830	79	0.3
56-	43.4353-	109.4496-	2-	15-	0-	W07474	42540	-0.10	398	42210	65	-69	6.5	44	2.4	4	1.2	18210	14.7	16040	41	0.4
56-	43.6242-	109.3558-	2-	15-	0-	W07475	81970	0.09	1496	21530	174	-96	5.8	160	2.5	5	2.0	21060	21.0	16320	102	0.7
56-	43.6172-	109.3503-	2-	11-	0-	W07476	84100	-0.11	2065	31710	115	-109	4.1	92	-1.3	4	1.8	17770	16.5	17040	81	0.4
56-	43.6208-	109.3336-	2-	15-	0-	W07477	82630	-0.11	1145	23190	95	-105	6.6	60	1.7	3	1.3	18590	10.4	18020	60	0.2
56-	43.6158-	109.3308-	2-	99-	0-	W07478	75740	-0.14	1106	32090	86	-105	22.1	176	-1.7	2	1.3	40260	4.5	17470	50	0.2
56-	43.6239-	109.3333-	2-	11-	0-	W07479	72880	-0.18	1198	31030	93	-106	16.3	155	-2.1	3	1.5	30050	5.1	16150	50	0.6
56-	43.5411-	109.4431-	2-	15-	0-	W07480	74760	-0.13	622	14790	239	-88	10.1	297	1.5	7	1.9	30220	22.9	16890	150	0.5
56-	43.5419-	109.4444-	2-	15-	0-	W07481	83880	-0.13	668	20220	136	-108	13.3	271	1.2	4	1.7	29400	14.0	18000	78	0.2
56-	43.5553-	109.4306-	2-	15-	0-	W07482	82650	-0.12	744	25890	158	-100	14.2	274	-3.5	5	2.0	32200	18.5	15830	91	0.4
56-	43.5661-	109.4167-	2-	15-	0-	W07483	71480	-0.15	845	24010	502	-96	13.4	437	-1.8	10	2.6	41520	51.9	13090	269	1.1
56-	43.5181-	109.4644-	2-	15-	0-	W07485	86630	-0.08	467	62360	49	-51	3.3	37	-1.1	4	1.0	12570	7.9	16140	38	0.3
56-	43.5014-	109.4556-	2-	15-	0-	W07486	88700	-0.08	577	50490	97	-66	3.4	52	-1.0	5	1.2	11690	14.2	17440	60	0.4
56-	43.5031-	109.4553-	2-	15-	0-	W07487	87040	-0.08	538	54600	99	-59	4.7	70	1.2	4	1.3	13720	14.4	17500	51	0.4
56-	43.5139-	109.4306-	2-	15-	0-	W07488	87770	-0.10	432	106400	68	115	3.4	32	-1.2	5	1.2	12020	11.6	19850	28	0.5
56-	43.5244-	109.4064-	2-	15-	0-	W07489	71860	-0.11	616	15340	127	-83	10.9	152	2.5	4	1.4	25830	11.6	18420	71	0.3
56-	43.5242-	109.4019-	2-	15-	0-	W07490	67990	-0.12	855	21830	251	-86	10.5	124	2.7	8	1.6	31400	27.6	19560	151	0.6
56-	43.5253-	109.4025-	2-	15-	0-	W07491	85310	-0.12	865	35760	68	-101	15.7	92	2.2	3	1.6	32090	3.6	19520	46	0.2
56-	43.5383-	109.3817-	2-	15-	0-	W07492	76100	-0.13	1178	42690	106	-102	14.1	112	-1.7	3	1.6	30180	8.4	19660	49	0.2
56-	43.5517-	109.3821-	2-	15-	0-	W07493	68160	-0.14	1913	46230	284	-105	17.4	308	-1.7	9	2.4	58820	48.6	13670	165	1.1
56-	43.4439-	109.4458-	2-	15-	0-	W07494	90460	-0.10	558	28700	78	-68	7.1	62	2.3	6	1.2	18850	10.3	17290	47	0.4
56-	43.4369-	109.4847-	2-	12-	0-	W07496	20970	-0.11	-130	262700	19	145	3.0	18	4.1	-1	0.4	7189	2.0	8684	-21	-0.1
56-	43.4239-	109.4436-	2-	15-	0-	W07498	41500	-0.11	375	38200	45	-64	5.0	39	2.9	4	1.1	14990	9.7	18790	26	0.4
56-	43.4094-	109.4583-	2-	15-	0-	W07499	32880	-0.10	-236	71530	48	-124	6.3	59	3.2	3	1.1	15830	7.8	20200	32	0.4
56-	43.4100-	109.4592-	2-	15-	0-	W07500	50130	-0.10	484	46680	69	78	8.2	45	3.1	5	1.2	20970	9.5	24980	30	0.4
56-	43.4081-	109.4556-	2-	15-	0-	W07501	30990	-0.10	257	42990	42	-50	4.2	49	2.2	3	0.8	10590	7.1	16370	30	0.4
56-	43.3956-	109.4297-	2-	15-	0-	W07502	41910	-0.11	403	49520	52	-64	5.1	46	2.7	5	1.1	17450	10.6	17680	30	0.4
56-	43.3953-	109.4317-	2-	12-	0-	W07503	43380	-0.11	393	42630	52	-71	4.3	42	3.3	5	1.0	15450	10.6	20940	26	0.3
56-	43.4678-	109.2975-	2-	15-	0-	W07504	61880	-0.11	586	20000	107	-80	8.7	80	3.9	5	1.5	26560	13.5	20450	60	0.5
56-	43.4678-	109.3003-	2-	15-	0-	W07505	65640	-0.13	842	33940	88	-88	8.3	73	2.8	4	1.6	20900	9.4	21030	58	0.3
56-	43.4925-	109.3169-	2-	15-	0-	W07506	60110	-0.11	735	38020	78	112	7.4	72	3.5	4	1.4	19350	9.4	22220	50	0.4
56-	43.4928-	109.3208-	2-	12-	0-	W07507	79790	-0.11	1469	34720	233	94	10.0	129	-1.5	6	1.8	28170	15.3	17390	146	0.3
56-	43.4125-	109.2583-	2-	15-	0-	W07508	55400	-0.11	591	28600	116	-80	7.7	66	2.4	6	1.6	23020	16.3	20150	69	0.5
56-	43.3694-	109.1342-	2-	15-	0-	W07509	54430	-0.12	517	21390	94	-72	5.8	58	3.3	5	1.4	18600	12.0	19910	46	0.4
56-	43.3686-	109.1356-	2-	15-	0-	W07510	56020	-0.12	717	20260	156	-75	6.4	80	3.1	8	1.8	29460	30.2	19880	95	0.7
56-	43.3817-	109.1294-	2-	15-	0-	W07511	62120	0.40	578	23150	99	-80	8.0	61	3.5	6	1.4	23170	14.9	19100	61	0.5
56-	43.3814-	109.1278-	2-	15-	0-	W07512	65720	-0.11	552	23620	66	103	9.8	61	5.0	4	1.2	24340	8.6	19370	50	0.3
56-	43.3794-	109.1456-	2-	15-	0-	W07513	59390	-0.12	548	23130	80	-74	6.1	47	4.0	4	1.1	20050	9.7	20180	44	0.4
56-	43.3986-	109.1697-	2-	15-	0-	W07514	60370	-0.10	622	22260	63	-76	5.8	47	5.2	4	1.3	17750	7.0	19190	41	0.3
56-	43.4958-	109.1867-	2-	15-	0-	W07515	54680	-0.11	556	43870	62	-84	6.5	94	3.0	4	1.2	19170	9.3	17820	49	0.3
56-	43.4964-	109.1847-	2-	15-	0-	W07516	55550	-0.10	452	12710	51	-62	7.5	56	2.9	4	1.2	20370	9.1	16530	25	0.3
56-	43.4806-	109.2014-	2-	15-	0-	W07517	60120	-0.12	570	15300	126	-74	6.7	67	-1.4	5	1.4	16540	19.4	19690	71	0.4
56-	43.4800-	109.2003-	2-	15-	0-	W07518	62660	0.54	512	36340	153	172	7.9	84	-1.5	4	1.3	22300	10.2	22060	93	0.2
56-	43.4578-	109.1903-	2-	15-	0-	W07519	64010	-0.11	713	19250	105	-92	11.2	81	2.2	5	1.5	31090	12.0	18140	63	0.4
56-	43.4472-	109.1731-	2-	15-	0-	W07520	65650	-0.12	617	13620	85	-89	12.6	86	2.8	4	1.5	28870	9.7	19360	45	0.4
56-	43.4589-	109.1244-	2-	15-	0-	W07521	66650	-0.13	712	9915	88	-78	9.5	96	3.6	4	1.5	23250	9.2	21570	46	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.6511-109.3186-2-12-						0-W07467	33900	517	22200	-33	-3	9.1	5.8	949	-1	-1	9.4	3726	92	-2.0	54	0.164
56-43.6353-109.3417-2-12-						0-W07468	20700	513	21630	-30	-3	8.5	5.4	722	-1	-1	17.7	5072	81	5.1	57	0.156
56-43.6408-109.3700-2-12-						0-W07469	35100	525	24580	-29	-3	11.9	7.8	976	-1	-1	19.8	4157	113	5.7	106	0.127
56-43.6026-109.4050-2-15-						0-W07470	13920	830	23410	77	-3	6.9	6.7	640	-1	-1	17.3	4780	118	3.7	35	0.147
56-43.5978-109.4253-2-15-						0-W07471	20550	559	16020	60	-4	11.0	6.9	554	-1	-1	27.1	5317	118	6.9	-36	0.120
56-43.5850-109.4483-2-15-						0-W07472	16730	412	19670	54	-3	8.6	5.5	-295	-1	-1	49.0	3137	69	6.9	86	0.080
56-43.4353-109.4486-2-15-						0-W07474	25750	435	10100	37	-3	6.3	5.6	-216	-1	-1	15.3	3210	50	4.7	28	0.191
56-43.6242-109.3558-2-15-						0-W07475	9440	226	25280	48	-3	5.9	10.5	555	-1	-1	43.2	3566	54	7.2	-33	0.107
56-43.6172-109.3503-2-11-						0-W07476	44653	202	31330	-25	-3	4.4	7.0	834	-1	-1	27.8	3638	49	4.8	41	0.129
56-43.6208-109.3336-2-15-						0-W07477	11640	252	21290	42	-3	5.6	6.3	668	-1	-1	22.9	3864	50	5.0	70	0.138
56-43.6158-109.3208-2-90-						0-W07478	41570	579	20540	-33	-4	12.2	6.2	722	-1	-1	9.6	5319	119	-2.4	120	0.184
56-43.6239-109.3333-2-11-						0-W07479	33710	456	19950	-39	-5	10.1	6.9	975	-1	-1	9.4	4461	95	-2.7	-41	0.176
56-43.5411-109.4431-2-15-						0-W07480	16700	332	19730	55	-3	7.5	16.4	-241	-1	-1	97.7	2263	63	10.2	87	0.064
56-43.5419-109.4444-2-15-						0-W07481	17180	365	21660	33	-3	7.7	8.1	-298	-1	-1	44.3	3227	71	5.8	73	0.089
56-43.5553-109.4306-2-15-						0-W07482	16410	386	23660	-28	-3	8.7	9.8	-264	-1	-1	50.7	3897	68	6.1	96	0.093
56-43.5661-109.4167-2-15-						0-W07483	14460	468	22460	-33	-4	8.6	34.9	-268	-1	2	190.0	5312	120	14.8	50	0.065
56-43.5181-109.4644-2-15-						0-W07485	32620	293	4094	47	-2	4.2	4.8	-181	-1	-1	10.1	1843	33	3.2	-11	0.265
56-43.5014-109.4556-2-15-						0-W07486	24770	257	7083	-21	-2	3.7	7.9	-219	-1	-1	39.1	2355	29	6.0	26	0.103
56-43.5031-109.4553-2-15-						0-W07487	24890	273	6882	58	-2	4.2	7.5	-184	-1	-1	38.8	1814	29	5.8	-26	0.099
56-43.5139-109.4306-2-15-						0-W07488	21500	261	2433	43	-2	3.9	6.3	-183	-1	-1	16.8	2010	18	5.5	-21	0.185
56-43.5244-109.4064-2-15-						0-W07489	14810	324	18660	52	-3	7.7	8.5	-226	-1	-1	42.2	3126	52	6.4	71	0.087
56-43.5242-109.4019-2-15-						0-W07490	16590	488	13270	-27	-3	7.9	16.7	-281	-1	1	89.9	4313	73	7.8	55	0.089
56-43.5253-109.4025-2-15-						0-W07491	22720	550	19550	-30	-3	9.2	5.0	-285	-1	-1	11.5	2998	78	3.6	112	0.170
56-43.5393-109.3817-2-15-						0-W07492	19640	668	20060	-33	-3	7.8	8.3	578	-1	-1	17.7	3834	91	5.0	-19	0.144
56-43.5517-109.3831-2-15-						0-W07493	16150	678	19820	-34	-3	11.2	18.2	-322	-1	1	96.6	8984	208	10.4	107	0.113
56-43.4439-109.4458-2-15-						0-W07494	17790	407	6198	-27	-3	5.0	5.4	-256	-1	-1	23.1	3565	52	3.8	51	0.223
56-43.4369-109.4847-2-12-						0-W07496	18320	125	3865	-29	-3	2.6	-1.3	498	-2	-1	3.0	1404	19	-2.0	-37	0.520
56-43.4239-109.4436-2-15-						0-W07498	32080	333	9351	-25	-3	5.5	4.4	-203	-1	-1	8.1	2808	41	3.5	-44	0.280
56-43.4094-109.4583-2-15-						0-W07499	47190	2686	2069	62	-3	6.2	3.8	-530	-1	-1	8.3	2694	37	3.6	-36	0.470
56-43.4100-109.4592-2-15-						0-W07500	32850	555	3201	58	-3	7.0	6.2	-267	-1	-1	17.7	3607	55	3.7	73	0.205
56-43.4081-109.4556-2-15-						0-W07501	22000	691	2056	39	-2	3.8	4.1	-241	-1	-1	10.9	1847	31	1.8	-46	0.285
56-43.3956-109.4297-2-15-						0-W07502	28000	475	7125	58	-3	6.5	4.8	-225	-1	-1	8.7	3378	44	3.2	58	0.271
56-43.3953-109.4317-2-12-						0-W07503	29800	450	4852	77	-3	5.6	4.1	-278	-1	-1	9.1	3231	42	4.7	57	0.289
56-43.4678-109.2975-2-15-						0-W07504	17180	406	13520	69	-3	7.2	8.0	-235	-1	-1	25.4	3348	52	4.9	45	0.145
56-43.4678-109.3003-2-15-						0-W07505	17420	442	15890	56	-3	6.1	6.0	-260	-1	-1	20.7	3208	47	4.9	58	0.140
56-43.4925-109.3169-2-15-						0-W07506	17740	369	12060	106	-3	6.2	6.3	-219	-1	-1	21.7	2765	35	5.5	-30	0.139
56-43.4928-109.3208-2-12-						0-W07507	15480	502	21140	52	-3	6.5	16.6	503	-1	-1	93.5	3603	81	8.9	58	0.064
56-43.4125-109.2583-2-15-						0-W07508	16750	547	11850	58	-3	6.9	7.6	-257	-1	-1	24.9	3535	44	4.8	59	0.178
56-43.3694-109.1342-2-15-						0-W07509	16820	417	10690	-27	-3	6.1	6.1	-228	-1	-1	14.2	3299	41	2.7	37	0.254
56-43.3686-109.1356-2-15-						0-W07510	18880	591	9026	70	-3	8.2	10.3	-259	-1	-1	33.4	5205	64	7.4	60	0.175
56-43.3817-109.1294-2-15-						0-W07511	17210	490	10510	61	-3	6.9	7.3	-271	-1	-1	22.2	3869	56	4.8	69	0.216
56-43.3814-109.1278-2-15-						0-W07512	22360	448	10120	74	-3	7.7	5.8	285	-1	-1	14.8	2629	57	5.8	71	0.256
56-43.3794-109.1456-2-15-						0-W07513	19590	447	10510	73	-3	6.6	4.8	-241	-1	-1	13.6	2694	48	3.5	-34	0.260
56-43.3986-109.1697-2-15-						0-W07514	17970	370	13320	75	-3	5.7	4.8	-225	-1	-1	13.7	2214	43	3.0	-20	0.255
56-43.4058-109.1867-2-15-						0-W07515	22030	647	7176	-26	-3	6.8	5.0	-321	-1	-1	17.6	3391	53	4.4	123	0.231
56-43.4064-109.1847-2-15-						0-W07516	12300	438	6450	53	-3	6.7	3.9	-223	-1	-1	10.8	2892	52	2.3	-71	0.225
56-43.4806-109.2014-2-15-						0-W07517	9085	235	15460	41	-3	5.3	8.2	221	-1	-1	54.4	2281	35	7.8	72	0.088
56-43.4800-109.2003-2-15-						0-W07518	22570	346	14470	73	-3	5.9	9.9	382	-1	-1	67.9	2407	42	6.8	128	0.064
56-43.4578-109.1903-2-15-						0-W07519	10090	558	14630	53	-3	7.3	6.9	-293	-1	-1	20.8	5222	83	5.6	-107	0.208
56-43.4472-109.1731-2-15-						0-W07520	22350	491	15990	-28	-3	8.7	5.5	255	-1	1	13.4	4014	70	3.1	80	0.282
56-43.4580-109.1244-2-15-						0-W07521	19410	547	11910	77	-3	7.0	7.1	-267	-1	-1	21.2	3884	57	5.1	-37	0.156

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																												U CONCENTRATION
							TIME SAMPLED																											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.4594-	109.1239-2-15-				0-W07522-	10/08/79-	9-	16-		-	-	-	-	-	4-3-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-										3.67
56-	43.4214-	109.1417-2-15-				0-W07523-	10/08/79-	10-	16-		-	-	-	-	-	11-4-6-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-										3.88
56-	43.4183-	109.1464-2-15-				0-W07524-	10/08/79-	10-	16-		-	-	-	-	-	11-1-6-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	-										3.53
56-	43.1314-	108.7258-2-15-				0-W07529-	10/08/79-	13-	17-		-	-	-	-	-	9-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	-										2.72
56-	43.1611-	108.7533-2-15-				0-W07530-	10/08/79-	14-	17-		-	-	-	-	-	13-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	-										2.74
56-	43.1700-	108.7644-2-15-				0-W07531-	10/08/79-	14-	17-		-	-	-	-	-	10-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	-										3.09
56-	43.1789-	108.7806-2-15-				0-W07532-	10/08/79-	14-	17-		-	-	-	-	-	16-3-7-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	-										5.82
56-	43.1211-	108.7556-2-15-				0-W07534-	10/08/79-	15-	17-		-	-	-	-	-	9-1-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	-										4.30
56-	43.1317-	108.7786-2-15-				0-W07535-	10/08/79-	15-	18-		-	-	-	-	-	17-1-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	-										3.99
56-	43.1328-	108.7772-2-15-				0-W07536-	10/08/79-	15-	18-		-	-	-	-	-	18-1-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	-										3.94
56-	43.1467-	108.8017-2-15-				0-W07537-	10/08/79-	15-	17-		-	-	-	-	-	20-1-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	-										3.42
56-	43.1200-	108.7469-2-15-				0-W07538-	10/08/79-	16-	16-		-	-	-	-	-	31-1-6-4-6-	-1-	-2-3-3-4-3-	-1-	-	-	-	-										3.92
56-	43.1128-	108.7525-2-15-				0-W07539-	10/08/79-	16-	16-		-	-	-	-	-	4-1-6-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-										4.13
56-	43.7206-	109.2206-2-12-				0-W07541-	10/11/79-	12-	30-	8.6-	-	-	7.5-	90-		14-4-6-4-6-3-3-1-2-1-2-4-1-	-1-	-3-	-	-	-	-	-										1.74
56-	43.6931-	109.1467-2-11-				0-W07542-	10/11/79-	13-	28-	7.8-	-	-	7.5-	100-		10-4-6-5-6-3-3-1-	-4-2-4-2-	-1-	-	-	-	-	-										2.22
56-	43.6678-	109.0611-2-12-				0-W07543-	10/11/79-	14-	28-	16.5-	-	-	7.7-	240-		6-4-6-5-6-2-2-1-2-4-2-4-1-	-3-	-	-	-	-	-	-										1.80
56-	43.6861-	109.0086-2-15-				0-W07545-	10/11/79-	15-	28-		-	-	-	-		12-1-1-5-6-	-1-	-2-3-2-4-1-	-3-	-	-	-	-										1.91
56-	43.6869-	109.0097-2-12-				0-W07546-	10/11/79-	15-	28-	10.5-	-	-	8.3-	330-		5-1-1-5-6-2-2-2-2-3-2-4-1-	-3-	-	-	-	-	-	-										1.80
56-	43.7211-	109.0211-2-12-				0-W07547-	10/11/79-	16-	28-	14.5-	-	-	7.5-	220-		12-4-7-4-6-2-2-1-2-1-2-4-1-	-3-	-	-	-	-	-	-										1.61
56-	43.7219-	109.0211-2-12-				0-W07548-	10/11/79-	16-	30-	12.1-	-	-	7.6-	240-		14-4-7-4-7-3-3-1-2-1-2-4-1-	-3-	-	-	-	-	-	-										1.50
56-	43.7336-	109.0514-2-12-				0-W07549-	10/11/79-	17-	26-	9.0-	-	-	7.6-	330-		10-4-7-5-6-2-2-1-2-1-3-4-1-	-1-	-	-	-	-	-	-										1.11
56-	43.7347-	109.0506-2-12-				0-W07550-	10/11/79-	17-	28-	11.5-	-	-	7.5-	190-		14-4-7-4-6-3-3-1-2-1-2-4-1-	-1-	-	-	-	-	-	-										1.45
56-	43.6186-	108.2231-2-15-				0-W07551-	10/12/79-	8-	20-		-C-	-	-	-		20-1-4-5-4-	-1-	-2-3-2-2-1-	-7-	-	-	-	-										2.99
56-	43.6017-	108.1939-2-15-				0-W07552-	10/12/79-	8-	20-		-C-	-	-	-		8-4-6-5-4-	-1-	-2-2-3-2-1-	-3-	-	-	-	-										2.48
56-	43.5956-	108.1892-2-15-				0-W07553-	10/12/79-	8-	22-		-	-	-	-		21-1-4-5-6-	-1-	-2-4-1-2-1-	-3-	-	-	-	-										2.44
56-	43.5925-	108.1781-2-15-				0-W07554-	10/12/79-	8-	22-		-	-	-	-		8-1-6-5-4-	-1-	-2-4-2-2-1-	-3-	-	-	-	-										2.03
56-	43.5925-	108.1769-2-15-				0-W07555-	10/12/79-	8-	22-		-	-	-	-		8-1-4-4-4-	-1-	-2-2-1-2-1-	-3-	-	-	-	-										2.12
56-	43.5759-	108.1272-2-15-				0-W07556-	10/12/79-	9-	24-		-	-	-	-		18-1-6-5-6-	-1-	-2-4-2-2-1-	-3-	-	-	-	-										3.22
56-	43.5908-	108.1558-2-15-				0-W07557-	10/12/79-	9-	26-		-	-	-	-		12-1-6-5-6-	-1-	-2-2-2-3-2-	-3-	-	-	-	-										3.45
56-	43.5931-	108.1533-2-15-				0-W07558-	10/12/79-	9-	26-		-	-	-	-		8-1-4-5-4-	-1-	-2-3-2-3-2-	-3-	-	-	-	-										2.06
56-	43.6011-	108.1606-2-11-				0-W07559-	10/12/79-	9-	28-	14.5-	-	-	7.1-	2500-		6-1-4-5-4-2-2-1-	-3-2-3-2-	-1-	-	-	-	-	-										4.77
56-	43.5856-	108.2206-2-15-				0-W07560-	10/12/79-	10-	28-		-	-	-	-		6-1-4-5-4-	-1-	-2-4-1-3-2-	-3-	-	-	-	-										2.68
56-	43.5883-	108.2319-2-15-				0-W07561-	10/12/79-	10-	28-		-	-	-	-		10-1-4-5-4-	-1-	-2-4-1-3-2-	-3-	-	-	-	-										2.77
56-	43.5894-	108.2331-2-15-				0-W07562-	10/12/79-	10-	28-		-	-	-	-		13-1-4-4-4-	-1-	-2-4-1-3-2-	-3-	-	-	-	-										1.74
56-	43.5892-	108.2467-2-15-				0-W07563-	10/12/79-	11-	28-		-	-	-	-		12-1-4-5-6-	-1-	-2-4-2-3-2-	-3-	-	-	-	-										2.60
56-	43.5906-	108.2481-2-15-				0-W07564-	10/12/79-	11-	28-		-	-	-	-		4-1-4-4-4-	-1-	-2-4-2-3-2-	-3-	-	-	-	-										1.68
56-	43.5897-	108.2619-2-15-				0-W07565-	10/12/79-	11-	29-		-	-	-	-		10-1-4-4-4-	-1-	-2-4-2-3-2-	-3-	-	-	-	-										1.83
56-	43.5856-	108.2656-2-15-				0-W07566-	10/12/79-	11-	29-		-	-	-	-		2-1-6-4-6-	-1-	-2-4-2-3-2-	-3-	-	-	-	-										2.58
56-	43.5144-	108.2539-2-15-				0-W07567-	10/12/79-	12-	28-		-	-	-	-		8-1-1-5-6-	-1-	-2-3-1-2-2-	-1-	-	-	-	-										3.65
56-	43.5117-	108.2514-2-15-				0-W07568-	10/12/79-	12-	28-		-	-	-	-		4-1-7-5-6-	-1-	-2-3-2-2-2-	-1-	-	-	-	-										3.00
56-	43.5129-	108.2447-2-15-				0-W07569-	10/12/79-	12-	28-		-	-	-	-		12-1-6-5-6-	-1-	-2-3-2-2-2-	-1-	-	-	-	-										3.05
56-	43.5136-	108.2817-2-11-				0-W07570-	10/12/79-	12-	30-	12.3-	-	-	7.0-	1900-		12-1-4-6-4-2-2-1-	-3-2-3-1-	-3-	-	-	-	-	-										1.87
56-	43.5167-	108.3039-2-15-				0-W07571-	10/12/79-	13-	30-		-	-	-	-		8-1-6-5-6-	-1-	-2-3-2-3-2-	-3-	-	-	-	-										3.26
56-	43.5239-	108.3303-2-15-				0-W07572-	10/12/79-	13-	30-		-	-	-	-		4-1-1-5-6-	-1-	-2-3-2-3-1-	-3-	-	-	-	-										2.82
56-	43.5247-	108.3264-2-15-				0-W07573-	10/12/79-	13-	30-		-	-	-	-		10-1-4-5-4-	-1-	-2-3-2-3-1-	-3-	-	-	-	-										2.03
56-	43.5267-	108.3428-2-15-				0-W07574-	10/12/79-	13-	30-		-	-	-	-		8-1-4-5-4-	-1-	-2-3-2-2-1-	-3-	-	-	-	-										2.52
56-	43.5353-	108.3292-2-11-				0-W07575-	10/12/79-	14-	30-	14.3-	-	-	8.0-	750-		18-1-4-5-4-2-2-1-	-3-2-3-1-	-3-	-	-	-	-	-										2.30
56-	43.5483-	108.3567-2-15-				0-W07576-	10/12/79-	14-	30-		-	-	-	-		6-1-4-5-6-	-1-	-2-3-2-2-1-	-3-	-	-	-	-										2.68
56-	43.5508-	108.3531-2-15-				0-W07577-	10/12/79-	14-	30-		-	-	-	-		12-1-4-5-4-	-1-	-2-3-2-3-1-	-3-	-	-	-	-										2.06
56-	43.5558-	108.3497-2-15-				0-W07578-	10/12/79-	14-	30-		-	-	-	-		8-1-4-5-4-	-1-	-2-3-2-3-1-	-3-	-	-	-	-										2.11
56-	43.5831-	108.3497-2-15-				0-W07579-	10/12/79-	15-	30-		-	-	-	-		8-1-4-4-4-	-1-	-2-3-2-3-1-	-3-	-	-	-	-										2.38

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.4594-109.1239-2-15-					0	-W07522	-5	7	-5	27	-20	18	18	-10	-15	3	37
56-43.4214-109.1417-2-15-					0	-W07523	-5	7	-5	36	-20	24	16	-10	-15	4	44
56-43.4183-109.1464-2-15-					0	-W07524	-5	6	-5	14	-20	19	15	-10	-15	3	37
56-43.1314-108.7258-2-15-					0	-W07529	-5	6	-5	24	-20	29	14	-10	-15	3	26
56-43.1611-108.7533-2-15-					0	-W07530	-5	-5	-5	22	-20	34	10	-10	-15	3	27
56-43.1700-108.7644-2-15-					0	-W07531	-5	5	-5	22	-20	36	15	-10	15	2	40
56-43.1789-108.7806-2-15-					0	-W07532	-5	10	-5	13	-20	40	8	-10	16	3	37
56-43.1911-108.7556-2-15-					0	-W07534	-5	7	-5	15	-20	22	8	-10	-15	3	35
56-43.1317-108.7786-2-15-					0	-W07535	-5	-5	-5	19	-20	34	16	-10	-15	3	35
56-43.1329-108.7772-2-15-					0	-W07536	-5	9	-5	30	-20	25	16	-10	-15	3	42
56-43.1447-108.8017-2-15-					0	-W07537	-5	7	-5	25	-20	20	13	-10	-15	3	37
56-43.1206-108.7469-2-15-					0	-W07538	-5	-5	-5	22	-20	26	14	-10	-15	3	35
56-43.1128-108.7525-2-15-					0	-W07539	-5	10	-5	22	-20	19	17	-10	16	3	49
56-43.7206-109.2206-2-12-					0	-W07541	-5	-5	-5	35	-20	64	18	-10	-15	3	20
56-43.6931-109.1467-2-11-					0	-W07542	-5	-5	-5	27	-20	30	16	-10	-15	2	16
56-43.6678-109.0611-2-12-					0	-W07543	-5	6	-5	32	-20	45	17	-10	-15	2	27
56-43.6861-109.0086-2-15-					0	-W07545	-5	5	-5	31	-20	32	21	-10	16	3	18
56-43.6869-109.0097-2-12-					0	-W07546	-5	5	-5	37	-20	30	15	-10	-15	2	25
56-43.7211-109.0211-2-12-					0	-W07547	-5	-5	-5	34	-20	30	21	-10	-15	2	18
56-43.7219-109.0211-2-12-					0	-W07548	-5	-5	-5	25	-20	37	16	-10	-15	2	15
56-43.7336-109.0514-2-12-					0	-W07549	-5	-5	-5	29	-20	53	17	-10	-15	2	19
56-43.7347-109.0506-2-12-					0	-W07550	5	-5	-5	21	-20	55	17	-10	-15	2	16
56-43.6186-108.2231-2-15-					0	-W07551	-5	-5	-5	17	-20	-15	5	-10	15	2	19
56-43.6017-108.1939-2-15-					0	-W07552	-5	-5	-5	19	-20	-15	-5	-10	-15	2	19
56-43.5956-108.1892-2-15-					0	-W07553	-5	-5	-5	18	-20	-15	9	-10	-15	2	21
56-43.5925-108.1781-2-15-					0	-W07554	-5	-5	-5	-10	-20	-15	6	-10	-15	2	15
56-43.5925-108.1765-2-15-					0	-W07555	-5	5	-5	15	-20	-15	5	-10	-15	2	12
56-43.5758-108.1272-2-15-					0	-W07556	-5	-5	-5	25	-20	15	7	-10	-15	2	18
56-43.5908-108.1558-2-15-					0	-W07557	-5	-5	-5	13	-20	-15	-5	-10	-15	2	16
56-43.5931-108.1533-2-15-					0	-W07558	-5	-5	-5	17	-20	-15	10	-10	-15	2	28
56-43.6011-108.1606-2-11-					0	-W07559	-5	-5	-5	40	-20	21	7	-10	-15	3	53
56-43.5856-108.2206-2-15-					0	-W07560	-5	-5	-5	26	-20	25	11	-10	15	3	44
56-43.5883-108.2319-2-15-					0	-W07561	-5	-5	-5	26	-20	-15	-5	-10	-15	2	38
56-43.5894-108.2331-2-15-					0	-W07562	-5	-5	-5	16	-20	-15	5	-10	-15	2	24
56-43.5892-108.2467-2-15-					0	-W07563	-5	9	-5	24	-20	17	18	-10	-15	2	34
56-43.5906-108.2481-2-15-					0	-W07564	-5	-5	-5	17	-20	-15	7	-10	-15	2	27
56-43.5897-108.2619-2-15-					0	-W07565	-5	5	-5	18	-20	-15	6	-10	-15	2	25
56-43.5856-108.2656-2-15-					0	-W07566	-5	-5	-5	21	-20	20	12	-10	-15	3	27
56-43.5144-108.2539-2-15-					0	-W07567	-5	-5	-5	16	-20	24	13	-10	-15	2	27
56-43.5117-108.2514-2-15-					0	-W07568	-5	-5	-5	20	-20	19	18	-10	-15	3	26
56-43.5128-108.2447-2-15-					0	-W07569	-5	-5	-5	27	-20	18	16	-10	-15	2	28
56-43.5136-108.2917-2-11-					0	-W07570	-5	-5	-5	23	-20	-15	7	-10	-15	2	41
56-43.5167-108.3039-2-15-					0	-W07571	-5	-5	-5	15	-20	-15	11	-10	-15	2	36
56-43.5239-108.3203-2-15-					0	-W07572	-5	-5	-5	27	-20	18	9	-10	-15	2	61
56-43.5247-108.3264-2-15-					0	-W07573	-5	-5	-5	21	-20	15	10	-10	-15	2	43
56-43.5267-108.3428-2-15-					0	-W07574	-5	-5	-5	25	-20	29	6	-10	-15	3	44
56-43.5353-108.3292-2-11-					0	-W07575	-5	-5	-5	21	-20	-15	-5	-10	-15	3	34
56-43.5493-108.3567-2-15-					0	-W07576	-5	-5	-5	16	-20	23	-5	-10	-15	2	42
56-43.5508-108.3531-2-15-					0	-W07577	-5	5	-5	25	-20	-15	-5	-10	-15	2	28
56-43.5558-108.3497-2-15-					0	-W07578	-5	-5	-5	24	-20	19	8	-10	-15	2	41
56-43.5831-108.3497-2-15-					0	-W07579	-5	-5	-5	23	-20	-15	8	-10	-15	2	32

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.4594-	109.1239-	2-	15-	0-	W07522	65680	-0.11	575	27690	84	-74	6.9	59	2.2	3	1.4	19960	10.8	20200	53	0.3
56-	43.4214-	109.1417-	2-	15-	0-	W07523	73320	-0.13	537	30380	57	-79	8.9	54	7.9	4	1.1	27800	3.6	19160	35	0.3
56-	43.4183-	109.1464-	2-	15-	0-	W07524	64230	-0.12	457	25730	68	-77	8.4	55	4.5	4	1.3	24090	7.0	21560	57	0.3
56-	43.1314-	108.7258-	2-	15-	0-	W07529	65630	-0.13	724	16500	70	-80	10.1	94	3.8	4	1.3	24330	6.8	19600	31	0.3
56-	43.1611-	108.7533-	2-	15-	0-	W07530	62720	-0.11	494	24390	61	-77	9.9	87	3.1	4	1.3	24520	8.0	17590	37	0.4
56-	43.1700-	108.7644-	2-	15-	0-	W07531	64110	-0.11	545	24910	70	-98	9.2	92	3.3	5	1.2	23110	11.0	19320	43	0.3
56-	43.1789-	108.7806-	2-	15-	0-	W07532	65820	-0.12	560	22720	114	-90	10.8	123	2.1	6	1.7	30140	37.0	17690	69	0.7
56-	43.1211-	108.7556-	2-	15-	0-	W07534	67850	-0.13	689	16120	119	-85	7.2	73	2.3	5	1.7	21240	22.2	20510	64	0.5
56-	43.1317-	108.7786-	2-	15-	0-	W07535	67600	-0.12	722	15660	113	118	7.6	68	2.6	6	1.8	25110	16.6	20260	69	0.4
56-	43.1328-	108.7772-	2-	15-	0-	W07536	73230	-0.12	605	13710	117	-96	8.9	78	-1.5	6	1.7	25090	10.9	21540	65	0.4
56-	43.1467-	108.8017-	2-	15-	0-	W07537	68520	-0.11	610	12100	102	-79	9.6	71	2.9	4	1.6	25100	12.0	21950	56	0.3
56-	43.1200-	108.7469-	2-	15-	0-	W07538	62450	-0.14	767	11970	114	-86	7.0	63	2.9	5	1.7	20450	16.0	23080	53	0.5
56-	43.1128-	108.7525-	2-	15-	0-	W07539	72030	-0.12	695	14290	133	-83	9.9	78	2.0	6	1.9	27980	11.3	21780	92	0.4
56-	43.7206-	109.2206-	2-	12-	0-	W07541	82170	-0.12	1416	37000	80	-125	18.4	174	-1.6	2	1.4	37760	4.2	16120	44	0.2
56-	43.6931-	109.1467-	2-	11-	0-	W07542	74530	-0.15	1094	36480	66	-115	12.0	88	-2.0	3	1.3	28730	3.3	13560	38	-0.2
56-	43.6678-	109.0611-	2-	12-	0-	W07543	81620	-0.15	1490	48320	87	-112	14.5	142	-2.0	2	1.5	31820	3.2	17330	41	0.4
56-	43.6861-	109.0086-	2-	15-	0-	W07545	73160	-0.12	1190	49020	70	-90	13.2	95	2.6	3	1.6	30780	4.5	11690	33	0.2
56-	43.6869-	109.0697-	2-	12-	0-	W07546	84440	-0.13	1301	45900	71	-111	14.4	103	2.5	2	1.3	33330	4.0	12920	42	0.2
56-	43.7211-	109.0211-	2-	12-	0-	W07547	87490	-0.14	1233	44520	66	-117	19.7	143	-1.9	3	1.8	42640	3.9	17180	41	0.2
56-	43.7219-	109.0211-	2-	12-	0-	W07548	81240	-0.15	1660	43230	93	-109	18.6	186	-2.0	2	2.0	42180	4.6	13790	38	0.1
56-	43.7336-	109.0514-	2-	12-	0-	W07549	84970	-0.11	1465	48150	63	-116	12.3	141	-1.5	2	1.3	25430	2.6	13590	39	-0.1
56-	43.7347-	109.0506-	2-	12-	0-	W07550	80380	-0.12	1504	44780	67	-118	18.6	175	-1.7	2	1.5	42590	3.8	13590	42	-0.1
56-	43.6186-	108.2231-	2-	15-	0-	W07551	37280	-0.08	371	38120	50	-65	4.2	45	1.9	4	1.1	13240	19.9	14000	25	0.4
56-	43.6017-	108.1939-	2-	15-	0-	W07552	36740	-0.11	482	46450	45	166	3.4	38	2.2	4	1.2	11770	12.3	17360	-16	0.3
56-	43.5956-	108.1892-	2-	15-	0-	W07553	49670	-0.10	594	31400	53	-71	4.7	58	2.0	5	1.3	18510	10.3	17510	34	0.3
56-	43.5925-	108.1781-	2-	15-	0-	W07554	37150	-0.08	520	40950	39	-73	2.1	33	-1.1	3	1.0	10500	9.4	14220	26	0.2
56-	43.5925-	108.1769-	2-	15-	0-	W07555	39030	-0.08	389	46640	41	-65	4.3	32	1.9	3	0.9	14420	10.0	17140	27	0.3
56-	43.5758-	108.1272-	2-	15-	0-	W07556	41540	-0.12	491	21960	56	-65	4.8	62	2.4	4	1.4	15310	14.6	17120	35	0.3
56-	43.5908-	108.1558-	2-	15-	0-	W07557	36350	-0.09	556	31970	61	-60	4.4	47	1.7	5	1.3	15300	21.8	15920	46	0.5
56-	43.5931-	108.1533-	2-	15-	0-	W07558	43270	-0.08	440	48750	39	-73	5.0	36	2.0	3	1.1	14460	8.4	17510	25	0.2
56-	43.6011-	108.1606-	2-	11-	0-	W07559	50430	-0.12	240	53980	51	95	8.0	43	3.2	3	1.1	22620	7.8	19980	35	0.4
56-	43.5956-	108.2206-	2-	15-	0-	W07560	53030	-0.14	607	37890	55	116	8.0	71	2.3	4	1.3	21280	7.4	24180	37	0.4
56-	43.5883-	108.2319-	2-	15-	0-	W07561	46410	-0.09	421	49850	46	-78	5.5	38	2.4	4	1.2	16300	8.3	20360	24	0.3
56-	43.5894-	108.2331-	2-	15-	0-	W07562	35440	-0.08	322	55780	32	-63	4.2	27	1.8	3	0.9	12960	8.1	17030	18	0.3
56-	43.5892-	108.2467-	2-	15-	0-	W07563	42950	-0.11	475	40590	60	-65	6.2	52	2.4	4	1.0	16800	13.4	17500	20	0.5
56-	43.5906-	108.2481-	2-	15-	0-	W07564	36640	-0.08	386	68320	33	-60	3.6	29	1.7	3	0.9	12820	6.0	15590	24	0.2
56-	43.5897-	108.2619-	2-	15-	0-	W07565	36730	-0.08	413	55960	37	-67	3.8	26	1.3	4	0.9	11170	7.9	14140	-7	0.2
56-	43.5856-	108.2656-	2-	15-	0-	W07566	50630	-0.10	474	38480	57	79	7.1	61	2.7	3	1.3	20450	10.3	17220	38	0.4
56-	43.5144-	108.2539-	2-	15-	0-	W07567	58650	-0.14	567	13270	66	-74	8.9	72	3.8	4	1.3	23000	9.8	23290	41	0.3
56-	43.5117-	108.2514-	2-	15-	0-	W07568	53590	-0.11	709	13640	71	-70	7.0	77	-1.5	5	1.4	20810	10.3	19370	30	0.4
56-	43.5128-	108.2447-	2-	15-	0-	W07569	57140	-0.11	643	22190	55	-82	6.8	54	2.9	4	1.2	20370	9.2	19120	37	0.3
56-	43.5136-	108.2817-	2-	11-	0-	W07570	29130	-0.10	296	85450	45	-75	5.8	38	3.2	3	1.0	17290	8.4	15720	-14	0.2
56-	43.5167-	108.3039-	2-	15-	0-	W07571	53050	-0.14	515	34110	54	-60	7.7	81	4.0	4	1.3	18400	6.7	16360	35	0.4
56-	43.5239-	108.3303-	2-	15-	0-	W07572	44500	-0.10	487	58090	54	97	6.9	54	2.8	4	1.2	20710	8.5	20030	28	0.3
56-	43.5247-	108.3264-	2-	15-	0-	W07573	50420	-0.10	369	48920	42	-85	6.8	30	2.8	4	1.2	19540	6.6	18120	28	0.3
56-	43.5267-	108.3428-	2-	15-	0-	W07574	52550	-0.11	352	44350	57	-70	10.5	61	4.3	4	1.2	24670	8.7	21740	32	0.4
56-	43.5353-	108.3292-	2-	11-	0-	W07575	45200	-0.12	388	38930	54	133	6.5	39	2.2	4	1.2	17650	10.7	18800	-15	0.5
56-	43.5483-	108.3567-	2-	15-	0-	W07576	44570	-0.10	450	57890	48	-63	6.4	55	3.2	4	1.1	19780	8.7	17300	32	0.4
56-	43.5508-	108.3531-	2-	15-	0-	W07577	39360	-0.08	343	55950	43	-76	4.5	37	2.2	4	1.0	14070	9.3	15030	22	0.3
56-	43.5558-	108.3497-	2-	15-	0-	W07578	48630	-0.10	240	38790	49	-74	8.4	50	3.2	3	1.3	20540	9.0	20770	26	0.3
56-	43.5831-	108.3407-	2-	15-	0-	W07579	41680	-0.11	344	45900	50	-68	6.0	36	2.6	4	1.3	15460	9.2	18940	29	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.4594-109.1239-2-15-						0-W07522	16620	322	13050	70	-3	6.2	6.1	-216	-1	-1	23.4	2447	48	4.7	-13	0.157
56-43.4214-109.1417-2-15-						0-W07523	29400	504	7601	109	-3	8.5	4.5	-296	-1	-1	12.7	3670	70	3.2	85	C.306
56-43.4183-109.1464-2-15-						0-W07524	20700	421	10590	91	-3	7.2	4.3	-240	-1	-1	12.5	2601	53	3.5	103	0.282
56-43.1914-108.7258-2-15-						0-W07529	26640	461	13530	78	-3	8.5	6.4	-251	-1	-1	11.6	3154	65	4.4	68	0.234
56-43.1611-108.7533-2-15-						0-W07530	24000	458	14480	66	-3	8.8	5.1	-229	-1	-1	12.4	2846	59	2.2	-44	0.221
56-43.1700-108.7644-2-15-						0-W07531	22030	529	16140	44	-3	7.8	5.2	-304	-1	-1	13.4	3558	64	3.1	-60	0.231
56-43.1789-108.7806-2-15-						0-W07532	19760	559	17650	-28	-3	11.6	9.1	-263	-1	-1	26.3	4739	69	6.7	76	0.221
56-43.1211-108.7556-2-15-						0-W07534	11650	326	18070	68	-3	7.6	8.8	-232	-1	-1	29.8	4248	61	5.3	-22	0.144
56-43.1317-108.7786-2-15-						0-W07535	14320	341	17020	55	-3	8.6	8.8	-233	-1	-1	30.0	4329	62	5.9	86	0.133
56-43.1328-108.7772-2-15-						0-W07536	13690	356	15310	65	-3	8.1	7.6	-290	-1	-1	25.7	4560	73	4.4	49	0.153
56-43.1467-108.8017-2-15-						0-W07537	17060	320	15170	67	-3	8.5	6.9	-219	-1	-1	20.3	3922	64	4.0	110	0.168
56-43.1200-108.7469-2-15-						0-W07538	11150	336	16780	-30	-3	7.3	6.3	-240	-1	-1	21.5	4065	60	4.0	45	0.182
56-43.1128-108.7525-2-15-						0-W07539	12670	336	17410	66	-3	9.5	8.6	-231	-1	-1	29.9	4245	71	7.2	85	C.138
56-43.7206-109.2206-2-12-						0-W07541	30710	666	25380	-30	-3	10.8	5.2	816	-1	-1	8.3	5107	119	2.7	106	0.210
56-43.6931-109.1467-2-11-						0-W07542	23090	337	21070	-40	-4	9.7	-1.5	948	-1	-1	5.8	3602	85	-2.7	-102	0.383
56-43.6678-109.0611-2-12-						0-W07543	22880	744	21700	-36	-4	10.8	4.1	1215	-1	-1	6.2	4446	115	-2.4	-45	0.290
56-43.6861-109.0086-2-15-						0-W07545	44610	468	16960	-30	-3	9.5	4.0	581	-1	-1	7.6	3567	87	3.1	-11	0.251
56-43.6869-109.0097-2-12-						0-W07546	25820	518	17970	-33	-3	10.4	4.3	757	-1	-1	8.4	4126	106	-2.8	85	C.214
56-43.7211-109.0211-2-12-						0-W07547	26370	629	24100	-35	-3	14.1	5.5	920	-1	1	7.6	4232	131	3.3	154	0.212
56-43.7219-109.0211-2-12-						0-W07548	30260	611	24210	-37	-4	12.8	6.6	1144	-1	-1	6.1	5228	149	3.6	84	C.246
56-43.7336-109.0514-2-12-						0-W07549	29630	541	29510	-28	-3	8.2	4.1	1277	-1	-1	5.9	2747	70	-2.0	-33	0.188
56-43.7347-109.0506-2-12-						0-W07550	30670	622	23610	32	-3	12.7	4.3	1076	-1	-1	6.2	5338	154	-2.2	124	0.234
56-43.6186-108.2231-2-15-						0-W07551	19860	325	16510	-20	-2	4.6	4.1	-191	-1	-1	7.6	3139	38	3.0	-32	0.393
56-43.6017-108.1939-2-15-						0-W07552	23340	296	10160	-28	-3	4.1	3.4	444	-1	-1	6.2	2844	34	1.8	29	C.400
56-43.5956-108.1892-2-15-						0-W07553	18360	338	10890	61	-3	6.0	4.5	442	-1	-1	8.1	2986	55	-2.1	-43	0.301
56-43.5925-108.1781-2-15-						0-W07554	21090	283	9793	32	-2	3.9	3.4	-228	-1	-1	5.2	2359	34	-1.4	-27	0.390
56-43.5925-108.1769-2-15-						0-W07555	22570	329	9078	48	-2	5.0	3.3	-199	-1	-1	6.5	2500	37	2.9	-48	0.326
56-43.5753-108.1272-2-15-						0-W07556	17320	250	8032	84	-3	5.2	5.5	-198	-1	-1	9.1	3197	52	4.5	32	0.354
56-43.5908-108.1558-2-15-						0-W07557	20580	308	7982	53	-2	5.3	4.3	-196	-1	-1	12.0	3616	45	3.2	32	C.288
56-43.5931-108.1533-2-15-						0-W07558	24190	345	10040	-22	-2	5.0	4.2	-236	-1	-1	5.9	3025	47	2.4	48	0.349
56-43.6011-108.1606-2-11-						0-W07559	31060	405	13020	-30	-3	8.1	3.9	-259	-1	-1	7.4	3549	85	-1.9	121	0.645
56-43.5856-108.2206-2-15-						0-W07560	24490	440	8470	-32	-3	7.7	5.4	-252	-2	-1	9.6	3232	77	3.4	-24	C.279
56-43.5883-108.2319-2-15-						0-W07561	28360	365	10160	53	-2	5.8	3.9	-247	-1	1	6.5	3177	48	4.3	-31	0.349
56-43.5894-108.2331-2-15-						0-W07562	24380	295	8009	-22	-2	4.6	3.2	-194	-1	-1	5.4	2717	32	2.7	-27	C.322
56-43.5892-108.2467-2-15-						0-W07563	24690	377	8606	42	-3	6.0	5.0	341	-1	-1	7.9	3031	49	3.5	-33	0.329
56-43.5906-108.2481-2-15-						0-W07564	28760	307	8225	45	-2	4.7	2.9	339	-1	-1	5.2	2492	32	2.2	44	0.323
56-43.5897-108.2619-2-15-						0-W07565	25310	303	8281	39	-2	4.2	2.9	191	-1	-1	5.4	2168	37	2.2	41	0.339
56-43.5856-108.2656-2-15-						0-W07566	29870	362	8843	45	-2	6.9	3.8	-213	-1	-1	8.3	3326	63	3.7	129	0.311
56-43.5144-108.2536-2-15-						0-W07567	16510	430	8726	-35	-3	7.7	5.9	-252	-1	-1	9.9	4052	75	-3.1	-67	0.308
56-43.5117-108.2514-2-15-						0-W07568	15850	392	9552	68	-3	7.0	4.0	-229	-1	-1	9.9	4117	66	3.3	70	0.303
56-43.5128-108.2447-2-15-						0-W07569	15650	429	9052	62	-3	6.3	4.9	-276	-1	-1	10.0	3849	69	3.0	49	C.305
56-43.5136-108.2817-2-11-						0-W07570	30700	368	8554	54	-3	6.1	3.6	449	-1	-1	6.7	2422	40	4.8	-61	0.279
56-43.5167-108.2639-2-15-						0-W07571	29420	410	5362	55	-3	7.1	5.3	-238	-1	-1	9.0	3748	60	3.3	136	0.362
56-43.5229-108.3303-2-15-						0-W07572	54980	426	6119	47	-3	6.9	4.2	551	-1	-1	7.4	3131	61	2.4	-72	C.381
56-43.5247-108.3264-2-15-						0-W07573	30270	413	12420	41	-2	6.9	4.6	-263	-1	-1	7.1	3890	52	2.7	71	0.286
56-43.5267-108.3428-2-15-						0-W07574	42550	476	8087	76	-3	8.6	4.5	-236	-1	-1	8.8	3804	67	3.3	95	0.284
56-43.5252-108.3292-2-11-						0-W07575	31030	390	11440	59	-3	6.8	4.6	-236	-1	-1	7.0	3356	50	3.2	69	0.329
56-43.5483-108.3567-2-15-						0-W07576	46130	457	7266	43	-2	6.9	4.6	-222	-1	-1	8.1	3050	54	3.2	56	0.331
56-43.5508-108.3531-2-15-						0-W07577	30730	387	10150	30	-2	5.3	4.7	-239	-1	-1	6.3	2638	37	3.6	25	0.327
56-43.5558-108.3497-2-15-						0-W07578	32320	421	11630	45	-2	7.7	4.9	-222	-1	-1	7.6	3610	45	2.9	-31	0.278
56-43.5831-108.3497-2-15-						0-W07579	30220	358	10670	46	-3	5.6	4.2	-213	-1	-1	6.9	3667	42	3.0	38	C.345

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.5856-	108.3525-	2-	15-		0-W07580-	10/12/79-	15-	30-		-	-	-	-	-	12-1-4-5-6-	-1-	-2-	3-	2-	3-	1-	-3-	-	-	-	-	-	-	-	-	1.88
56-	43.5689-	108.3642-	2-	15-		0-W07582-	10/12/79-	16-	30-		-	-	-	-	-	6-1-4-5-4-	-1-	-2-	3-	2-	3-	1-	-3-	-	-	-	-	-	-	-	-	1.90
56-	43.5681-	108.3633-	2-	12-		0-W07583-	10/12/79-	16-	30-	18.2-	-	-	8.0-	2300-		4-1-4-5-4-	2-	2-	1-	2-	3-	2-	3-	1-	-3-	-	-	-	-	-	-	-	2.19
56-	43.5253-	108.3197-	2-	15-		0-W07584-	10/12/79-	16-	30-		-	-	-	-	-	14-1-4-5-4-	-1-	-2-	3-	2-	3-	1-	-3-	-	-	-	-	-	-	-	-	2.21
56-	43.5822-	108.2125-	2-	11-		0-W07586-	10/12/79-	17-	30-	21.0-	-	-	6.5-	1000-		18-1-1-6-8-	3-	3-	1-	-3-	-2-	-3-	-1-	-1-	-	-	-	-	-	-	-	-	3.99
56-	43.5410-	108.1797-	2-	12-		0-W07587-	10/12/79-	18-	28-	13.5-	-	-	8.3-	300-		8-1-7-5-6-	2-	2-	1-	2-	3-	1-	5-	1-	-1-	-	-	-	-	-	-	-	3.33
56-	43.5079-	108.1683-	2-	12-		0-W07589-	10/12/79-	18-	26-	13.2-	-	-	7.9-	350-		5-1-7-5-6-	3-	3-	1-	2-	1-	2-	5-	1-	-1-	-	-	-	-	-	-	-	2.33
56-	43.2317-	108.1311-	2-	12-		0-W07590-	09/14/79-	10-	23-	9.2-	-	-	8.0-	21000-		14-1-1-6-8-	3-	3-	1-	2-	3-	1-	2-	3-	-3-	-	-	-	-	-	-	-	3.97
56-	43.4486-	108.6747-	2-	15-		0-W07591-	10/10/79-	11-	19-		-	-	-	-	-	11-1-6-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.21
56-	43.4725-	108.6289-	2-	15-		0-W07593-	10/10/79-	11-	19-		-	-	-	-	-	11-1-6-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.93
56-	43.4753-	108.6283-	2-	15-		0-W07594-	10/10/79-	11-	19-		-	-	-	-	-	19-1-6-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.20
56-	43.4678-	108.6653-	2-	12-		0-W07595-	10/10/79-	12-	20-	16.9-	-	-	7.8-	1450-		11-1-6-5-6-	3-	3-	1-	2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	1.78
56-	43.4736-	108.6767-	2-	15-		0-W07596-	10/10/79-	12-	20-		-	-	-	-	-	11-1-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	2.57
56-	43.4914-	108.7089-	2-	15-		0-W07597-	10/10/79-	13-	21-		-	-	-	-	-	11-1-6-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.72
56-	43.4919-	108.7078-	2-	15-		0-W07598-	10/10/79-	13-	21-		-	-	-	-	-	7-1-6-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.79
56-	43.5011-	108.6911-	2-	12-		0-W07599-	10/10/79-	13-	21-	17.9-	-	-	7.8-	1150-		14-1-6-5-6-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	3.21
56-	43.5094-	108.7039-	2-	15-		0-W07600-	10/10/79-	13-	21-		-	-	-	-	-	14-1-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	2.33
56-	43.5256-	108.6864-	2-	11-		0-W07602-	10/10/79-	13-	19-	16.8-	0-	-	7.8-	420-		9-1-6-5-6-	3-	3-	1-	-3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	2.98
56-	43.6117-	108.7386-	2-	12-		0-W07603-	10/10/79-	15-	17-	9.8-	-	-	8.4-	114-		11-3-6-5-8-	3-	3-	1-	2-	1-	3-	4-	3-	-1-	-	-	-	-	-	-	-	7.35
56-	43.5736-	108.7269-	2-	11-		0-W07604-	10/10/79-	16-	19-	14.2-	-	-	7.6-	325-		13-3-7-5-8-	3-	3-	1-	-3-	3-	4-	3-	-1-	-	-	-	-	-	-	-	-	2.58
56-	43.5636-	108.7364-	2-	15-		0-W07605-	10/10/79-	16-	19-		-	-	-	-	-	11-3-7-4-6-	-1-	-2-	3-	3-	4-	3-	-1-	-	-	-	-	-	-	-	-	3.10
56-	43.5736-	108.7558-	2-	11-		0-W07606-	10/10/79-	17-	19-	11.6-	-	-	7.5-	375-		11-3-7-5-6-	3-	3-	1-	-3-	3-	4-	3-	-1-	-	-	-	-	-	-	-	-	3.23
56-	43.5825-	108.7786-	2-	11-		0-W07607-	10/10/79-	18-	17-	11.6-	0-	-	7.7-	420-		12-3-7-5-8-	2-	2-	1-	-3-	3-	5-	3-	-3-	-	-	-	-	-	-	-	-	4.02
56-	43.5558-	108.7067-	2-	12-		0-W07608-	10/10/79-	19-	16-	12.3-	0-	-	7.7-	450-		9-3-7-5-6-	2-	2-	1-	2-	3-	4-	2-	-3-	-	-	-	-	-	-	-	-	2.75
56-	43.5436-	108.6925-	2-	12-		0-W07609-	10/10/79-	19-	16-	8.2-	-	-	7.8-	430-		9-3-7-5-8-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	3.19
56-	43.5079-	108.6731-	2-	15-		0-W07610-	10/10/79-	20-	16-		-	-	-	-	-	11-1-4-4-4-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	1.60
56-	43.5309-	108.6847-	2-	12-		0-W07611-	10/10/79-	20-	16-	11.3-	0-	-	8.1-	460-		12-3-7-5-6-	3-	3-	1-	2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	2.65
56-	43.4131-	108.7217-	2-	15-		0-W07612-	10/11/79-	8-	15-		-	-	-	-	-	11-3-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	3.01
56-	43.3931-	108.7239-	2-	15-		0-W07613-	10/11/79-	8-	16-		-	-	-	-	-	11-3-6-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	3.74
56-	43.3817-	108.7347-	2-	15-		0-W07614-	10/11/79-	8-	16-		-	-	-	-	-	12-3-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	1.53
56-	43.4258-	108.6661-	2-	15-		0-W07615-	10/11/79-	9-	17-		-	-	-	-	-	12-3-7-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.67
56-	43.4333-	108.6469-	2-	15-		0-W07616-	10/11/79-	9-	17-		-	-	-	-	-	12-3-6-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.55
56-	43.4347-	108.6456-	2-	15-		0-W07617-	10/11/79-	9-	19-		-	-	-	-	-	11-3-7-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.89
56-	43.4347-	108.6444-	2-	15-		0-W07618-	10/11/79-	9-	19-		-	-	-	-	-	13-3-6-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.13
56-	43.4231-	108.6411-	2-	12-		0-W07619-	10/11/79-	9-	19-	11.7-	-	-	7.8-	1250-		11-3-7-5-7-	2-	2-	2-	2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	2.63
56-	43.4494-	108.7444-	2-	15-		0-W07620-	10/11/79-	10-	20-		-	-	-	-	-	8-1-6-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.74
56-	43.4553-	108.7414-	2-	15-		0-W07621-	10/11/79-	10-	20-		-	-	-	-	-	11-1-6-7-4-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	3.43
56-	43.4606-	108.7444-	2-	15-		0-W07622-	10/11/79-	11-	20-		-	-	-	-	-	13-1-6-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.80
56-	43.5178-	108.7650-	2-	15-		0-W07623-	10/11/79-	11-	20-		-	-	-	-	-	9-3-7-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	3.20
56-	43.5183-	108.7706-	2-	15-		0-W07624-	10/11/79-	11-	21-		-	-	-	-	-	12-3-7-4-6-	-1-	-2-	3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	2.59
56-	43.5058-	108.7925-	2-	15-		0-W07625-	10/11/79-	12-	21-		-	-	-	-	-	13-1-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	2.76
56-	43.4792-	108.7853-	2-	15-		0-W07626-	10/11/79-	12-	21-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	2.76
56-	43.4680-	108.8044-	2-	15-		0-W07627-	10/11/79-	13-	21-		-	-	-	-	-	11-1-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	3.27
56-	43.4697-	108.8053-	2-	15-		0-W07628-	10/11/79-	13-	21-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	3.18
56-	43.4725-	108.8000-	2-	15-		0-W07629-	10/11/79-	13-	21-		-	-	-	-	-	11-1-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	2.73
56-	43.4844-	108.7967-	2-	15-		0-W07630-	10/11/79-	13-	21-		-	-	-	-	-	9-1-6-4-7-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	3.40
56-	43.5222-	108.7878-	2-	15-		0-W07631-	10/11/79-	14-	21-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	2.65
56-	43.5428-	108.8300-	2-	12-		0-W07632-	10/11/79-	14-	21-	11.2-	-	-	7.8-	1000-		10-3-7-5-6-	3-	3-	2-	2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	2.79
56-	43.5611-	108.8342-	2-	15-		0-W07633-	10/11/79-	14-	21-		-	-	-	-	-	2-3-6-4-6-	-1-	-2-	3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	2.15
56-	43.5608-	108.8206-	2-	11-		0-W07634-	10/11/79-	14-	21-	11.8-	-	-	7.2-	2600-		6-1-4-5-7-	2-	2-	1-	-3-	3-	4-	2-	-1-	-	-	-	-	-	-	-	-	2.29
56-	43.5722-	108.8406-	2-	11-		0-W07635-	10/11/79-	15-	21-	10.6-	-	-	7.9-	455-		12-1-4-5-7-	2-	2-	1-	-3-	3-	3-	2-	-1-	-	-	-	-	-	-	-	-	1.89

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.5856-108.3525-2-15-						0-W07580	-5	-5	-5	12	-20	-15	-5	-10	-15	2	22
56-43.5689-108.3642-2-15-						0-W07582	-5	-5	-5	26	-20	21	6	-10	-15	2	28
56-43.5681-108.3633-2-12-						0-W07583	-5	7	-5	17	-20	-15	8	-10	-15	2	43
56-43.5253-108.3197-2-15-						0-W07584	-5	-5	-5	20	-20	16	-5	-10	-15	2	31
56-43.5822-108.2175-2-11-						0-W07586	-5	6	-5	21	-20	15	26	-10	-15	2	26
56-43.5419-108.1797-2-12-						0-W07587	-5	-5	-5	20	-20	15	8	-10	-15	2	21
56-43.5078-108.1683-2-12-						0-W07589	-5	5	-5	-10	-20	-15	12	-10	-15	1	13
56-43.2317-108.1311-2-12-						0-W07590	-5	6	-5	38	-20	24	18	-10	-15	3	53
56-43.4486-108.6747-2-15-						0-W07591	-5	5	-5	10	-20	-15	9	-10	-15	2	14
56-43.4725-108.6289-2-15-						0-W07592	-5	-5	-5	25	-20	15	7	-10	-15	3	36
56-43.4753-108.6283-2-15-						0-W07594	-5	-5	-5	19	-20	-15	10	-10	-15	2	28
56-43.4678-108.6653-2-12-						0-W07595	-5	-5	-5	22	-20	-15	10	-10	-15	2	19
56-43.4736-108.6767-2-15-						0-W07596	-5	-5	-5	11	-20	-15	7	-10	-15	1	17
56-43.4914-108.7089-2-15-						0-W07597	-5	5	-5	15	-20	15	12	-10	-15	3	44
56-43.4919-108.7078-2-15-						0-W07598	-5	-5	-5	15	-20	-15	6	-10	-15	3	37
56-43.5011-108.6911-2-12-						0-W07599	-5	-5	-5	20	-20	-15	6	-10	18	2	30
56-43.5094-108.7039-2-15-						0-W07600	-5	6	-5	21	-20	-15	9	-10	-15	3	42
56-43.5256-108.6864-2-11-						0-W07602	-5	-5	-5	15	-20	19	-5	-10	-15	2	50
56-43.6117-108.7386-2-12-						0-W07603	-5	-5	-5	27	-20	28	7	-10	-15	2	39
56-43.5736-108.7269-2-11-						0-W07604	-5	-5	-5	16	-20	-15	11	-10	-15	1	12
56-43.5636-108.7264-2-15-						0-W07605	-5	6	-5	26	-20	27	14	-10	-15	2	20
56-43.5736-108.7558-2-11-						0-W07606	-5	-5	-5	11	-20	-15	9	-10	-15	2	26
56-43.5825-108.7786-2-11-						0-W07607	-5	-5	-5	18	-20	20	16	-10	18	3	40
56-43.5558-108.7067-2-12-						0-W07608	-5	-5	-5	24	-20	18	12	-10	-15	2	34
56-43.5436-108.6925-2-12-						0-W07609	-5	-5	-5	37	-20	17	9	-10	-15	2	35
56-43.5078-108.6721-2-15-						0-W07610	-5	-5	-5	11	-20	-15	5	-10	-15	2	34
56-43.5308-108.6847-2-12-						0-W07611	-5	-5	-5	27	-20	17	10	-10	-15	3	50
56-43.4131-108.7217-2-15-						0-W07612	-5	-5	-5	14	-20	16	8	-10	-15	2	14
56-43.3931-108.7239-2-15-						0-W07613	-5	-5	-5	28	-20	19	21	-10	-15	3	42
56-43.3817-108.7347-2-15-						0-W07614	-5	-5	-5	11	-20	-15	-5	-10	-15	1	15
56-43.4258-108.6661-2-15-						0-W07615	-5	-5	-5	20	-20	-15	10	-10	16	-1	22
56-43.4333-108.6469-2-15-						0-W07616	-5	-5	-5	23	-20	-15	11	-10	-15	-1	30
56-43.4347-108.6456-2-15-						0-W07617	-5	5	-5	12	-20	15	6	-10	-15	1	10
56-43.4347-108.6444-2-15-						0-W07618	-5	-5	-5	11	-20	-15	11	-10	-15	2	29
56-43.4331-108.6411-2-12-						0-W07619	-5	7	-5	17	-20	-15	18	-10	-15	2	40
56-43.4494-108.7444-2-15-						0-W07620	-5	-5	-5	21	-20	-15	10	-10	-15	2	18
56-43.4553-108.7414-2-15-						0-W07621	-5	-5	-5	24	-20	20	14	-10	-15	3	41
56-43.4606-108.7444-2-15-						0-W07622	-5	-5	-5	25	-20	-15	13	-10	-15	2	23
56-43.5178-108.7650-2-15-						0-W07623	-5	-5	-5	20	-20	-15	-5	-10	-15	-1	25
56-43.5183-108.7706-2-15-						0-W07624	-5	-5	-5	13	-20	-15	5	-10	-15	-1	43
56-43.5058-108.7925-2-15-						0-W07625	-5	-5	-5	18	-20	-15	17	-10	-15	3	29
56-43.4792-108.7853-2-15-						0-W07626	-5	-5	-5	12	-20	18	9	-10	-15	2	15
56-43.4689-108.8044-2-15-						0-W07627	-5	5	-5	20	-20	-15	14	-10	-15	3	22
56-43.4697-108.8053-2-15-						0-W07628	-5	-5	-5	26	-20	-15	14	-10	-15	2	10
56-43.4725-108.8000-2-15-						0-W07629	-5	-5	-5	13	-20	18	8	-10	-15	2	15
56-43.4844-108.7967-2-15-						0-W07630	-5	-5	-5	10	-20	17	-5	-10	-15	1	13
56-43.5222-108.7878-2-15-						0-W07631	-5	-5	-5	17	-20	-15	9	-10	-15	2	32
56-43.5428-108.8300-2-12-						0-W07632	-5	-5	-5	26	-20	21	17	-10	-15	2	39
56-43.5611-108.8342-2-15-						0-W07633	-5	-5	-5	30	-20	-15	14	-10	-15	2	31
56-43.5608-108.8206-2-11-						0-W07634	-5	-5	-5	25	-20	-15	-5	-10	-15	2	30
56-43.5722-108.8408-2-11-						0-W07635	-5	-5	-5	-10	-20	-15	-5	-10	-15	2	16

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)														
							Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.5856-108.3526-2-15-						0-W07589	37050	-0.08	323	56690	32	-59	3.9	30	2.2	3	1.0	12680	8.1	18540	20	0.2
56-43.5899-108.3642-2-15-						0-W07592	41170	-0.09	341	39690	36	78	4.3	29	2.1	3	1.0	12810	9.0	15530	-9	0.3
56-43.5681-108.3633-2-12-						0-W07593	44650	-0.10	319	52620	47	111	6.8	49	3.0	3	1.1	19240	9.0	17220	27	0.3
56-43.5253-108.3197-2-15-						0-W07594	43980	-0.11	354	38770	50	-60	6.4	45	2.4	4	1.1	17190	11.3	17620	22	0.4
56-43.5822-108.2125-2-11-						0-W07596	44040	-0.04	674	53220	62	-74	6.4	72	6.4	4	1.6	20070	10.5	15160	35	0.3
56-43.5419-108.1797-2-12-						0-W07597	48610	-0.12	419	83170	45	-77	3.9	55	4.9	4	1.0	15520	6.1	14180	-14	0.2
56-43.5078-108.1693-2-12-						0-W07599	32680	-0.08	241	42390	34	81	5.3	38	2.5	2	0.8	13300	11.8	14720	23	0.2
56-43.2317-108.1311-2-12-						0-W07600	58720	-0.14	586	29330	58	586	9.0	76	4.6	4	1.5	22520	7.6	17740	-18	0.3
56-43.4486-108.6747-2-15-						0-W07601	32010	-0.08	521	34480	39	-47	1.8	31	2.1	3	1.1	10470	7.4	13590	24	0.2
56-43.4725-108.6289-2-15-						0-W07603	51120	-0.11	546	35790	45	-72	5.8	39	3.5	4	0.9	18430	8.3	20060	25	0.3
56-43.4753-108.6283-2-15-						0-W07604	45160	-0.09	374	32320	48	70	5.8	42	2.4	3	1.1	16820	9.1	17330	27	0.3
56-43.4678-108.6653-2-12-						0-W07605	34560	-0.11	417	45030	38	-65	4.6	28	1.9	3	1.2	12080	4.7	14450	-15	0.2
56-43.4736-108.6767-2-15-						0-W07606	26120	-0.06	377	33610	42	61	1.9	29	2.4	3	0.9	8465	13.3	11010	26	0.3
56-43.4914-108.7089-2-15-						0-W07607	50470	-0.06	620	21730	49	-53	4.2	42	4.3	4	1.0	16910	5.8	17690	32	0.3
56-43.4919-108.7078-2-15-						0-W07608	40190	-0.06	577	32260	44	-51	5.1	38	3.4	3	0.9	15330	5.5	16410	28	0.2
56-43.5011-108.6911-2-12-						0-W07609	36900	-0.07	486	54270	54	-63	5.3	44	2.2	5	1.3	15370	21.3	15120	30	0.4
56-43.5094-108.7039-2-15-						0-W07600	46110	0.16	301	63810	56	-79	8.5	48	2.6	3	1.1	22650	5.3	16790	27	0.2
56-43.5254-108.6864-2-11-						0-W07602	51180	-0.08	458	51890	60	-83	7.1	52	3.5	5	1.3	20810	11.0	20760	32	0.4
56-43.6117-108.7396-2-12-						0-W07603	61770	-0.09	532	16730	48	-87	10.2	73	2.2	3	1.2	29360	9.6	21940	26	0.3
56-43.5736-108.7269-2-11-						0-W07604	31850	-0.06	346	11720	34	87	4.7	45	-1.2	3	0.8	12570	13.2	14030	20	0.2
56-43.5636-108.7364-2-15-						0-W07605	41720	-0.08	414	13940	54	-55	6.5	77	-1.5	4	1.0	17450	13.5	13080	28	0.3
56-43.5736-108.7558-2-11-						0-W07606	41760	-0.07	588	35740	97	104	5.1	41	2.5	6	1.6	23460	13.7	29000	38	0.5
56-43.5825-108.7784-2-11-						0-W07607	62440	-0.09	755	14580	111	98	8.3	57	3.4	7	1.8	25240	13.0	40770	52	0.6
56-43.5558-108.7067-2-12-						0-W07608	49370	-0.08	375	27910	47	168	13.6	75	1.9	4	1.4	31100	13.0	13780	28	0.3
56-43.5436-108.6825-2-12-						0-W07609	51810	-0.10	455	27550	62	-74	9.4	72	2.6	5	1.4	22210	11.0	17290	27	0.3
56-43.5078-108.6731-2-15-						0-W07610	37820	-0.06	454	44650	35	-65	3.5	30	1.6	3	0.9	12390	6.8	18940	18	0.2
56-43.5308-108.6847-2-12-						0-W07611	57390	-0.09	477	43070	52	-79	10.6	60	5.0	4	1.3	26700	6.2	24770	34	0.3
56-43.4131-108.7217-2-15-						0-W07612	41810	-0.07	448	7003	55	-30	4.7	38	3.4	4	1.4	10920	14.1	13160	27	0.4
56-43.3931-108.7239-2-15-						0-W07613	32010	-0.11	591	8434	70	-66	5.8	54	6.9	5	1.3	25770	4.1	21080	40	0.4
56-43.3817-108.7347-2-15-						0-W07614	26460	-0.05	382	23990	24	62	2.4	20	1.6	2	0.8	6279	3.1	14740	16	0.2
56-43.4258-108.6661-2-15-						0-W07615	38590	-0.06	558	10980	50	-37	4.3	36	3.0	3	1.0	13740	9.7	13480	30	0.3
56-43.4333-108.6469-2-15-						0-W07616	43700	-0.07	540	14470	49	-40	3.8	43	3.5	4	1.0	13860	8.2	17140	28	0.3
56-43.4347-108.6456-2-15-						0-W07617	21430	-0.05	728	14940	50	66	1.6	27	1.6	3	1.3	10210	22.8	8456	27	0.4
56-43.4347-108.6444-2-15-						0-W07618	40400	-0.06	477	33060	35	-51	4.1	33	2.1	3	0.8	12370	5.7	16040	19	0.2
56-43.4331-108.6411-2-12-						0-W07619	48240	-0.08	443	41550	50	-57	6.8	42	3.4	3	1.1	19500	6.3	16700	28	0.2
56-43.4494-108.7444-2-15-						0-W07620	43950	-0.07	454	4683	55	-28	3.5	37	3.1	4	1.0	12030	12.5	11940	30	0.3
56-43.4553-108.7414-2-15-						0-W07621	65630	-0.09	630	23560	57	-55	5.9	50	5.3	4	1.2	20880	5.1	17360	27	0.3
56-43.4606-108.7444-2-15-						0-W07622	53500	-0.07	490	5484	47	-32	3.9	41	4.2	4	0.9	11670	5.8	16800	25	0.2
56-43.5178-108.7650-2-15-						0-W07623	45870	-0.06	461	24830	49	-47	6.0	41	3.8	4	1.0	17520	10.0	14130	31	0.3
56-43.5183-108.7706-2-15-						0-W07624	44870	-0.08	662	41690	45	-61	4.9	32	3.1	3	1.1	12720	6.5	17850	25	0.3
56-43.5058-108.7925-2-15-						0-W07625	60750	-0.08	451	11380	57	-50	4.7	40	4.2	5	1.1	16340	6.4	16960	32	0.3
56-43.4792-108.7853-2-15-						0-W07626	38900	-0.05	361	6016	40	-28	3.6	34	3.0	3	0.8	10300	11.2	13470	32	0.3
56-43.4689-108.8044-2-15-						0-W07627	43110	-0.06	573	14960	62	-45	5.8	45	4.0	4	1.2	17570	15.9	16430	40	0.4
56-43.4697-108.8053-2-15-						0-W07628	46500	-0.08	512	16090	58	-49	4.8	37	3.1	4	1.0	14350	12.3	16680	29	0.4
56-43.4725-108.8000-2-15-						0-W07629	34240	-0.05	507	18650	48	-43	3.1	31	2.7	4	1.1	10030	10.4	14070	25	0.3
56-43.4844-108.7967-2-15-						0-W07630	27240	-0.05	450	23650	49	55	3.0	31	2.3	4	1.1	8433	20.9	10530	26	0.4
56-43.5222-108.7878-2-15-						0-W07631	41380	-0.06	444	32510	47	-52	5.4	38	2.8	4	1.0	15670	9.6	16180	24	0.3
56-43.5428-108.8300-2-12-						0-W07632	46360	-0.09	471	47830	56	-50	4.9	42	3.3	4	1.1	13020	6.6	16880	32	0.2
56-43.5611-108.8342-2-15-						0-W07633	47650	-0.07	599	32560	54	-73	5.5	48	2.4	4	1.2	18810	8.9	18040	31	0.3
56-43.5608-108.8206-2-11-						0-W07634	38230	-0.08	294	78800	31	-74	3.5	32	2.9	3	1.0	12050	6.6	14350	17	0.2
56-43.5722-108.8408-2-11-						0-W07635	29560	-0.06	347	28210	34	-54	2.9	32	1.6	3	0.8	9051	11.6	13640	19	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.5856-108.3525-2-15-						0-W07590	26580	293	7593	30	-2	4.8	3.2	-192	-1	-1	5.7	2780	33	2.0	46	0.330
56-43.5689-108.3642-2-15-						0-W07592	22040	333	11610	50	-2	4.9	3.2	-241	-1	1	5.0	2671	35	2.7	-16	0.380
56-43.5681-108.3633-2-12-						0-W07593	31880	426	11230	55	-2	7.0	4.4	-232	-1	-1	6.7	2937	49	4.1	-30	0.327
56-43.5953-108.3197-2-15-						0-W07594	27480	380	10640	-25	-3	6.2	5.5	-213	-1	-1	6.9	3247	45	3.3	28	0.320
56-43.5822-108.2125-2-11-						0-W07596	24460	245	10430	28	-1	6.1	5.0	-219	-1	-1	9.7	3088	49	3.6	69	0.411
56-43.5419-108.1797-2-12-						0-W07597	33530	170	5070	-28	-3	5.5	3.4	-255	-1	-1	6.8	3023	53	-2.1	-38	0.490
56-43.5078-108.1683-2-12-						0-W07599	41070	196	3761	47	-2	4.4	2.2	-162	-1	-1	5.9	1661	40	2.2	34	0.305
56-43.2317-108.1311-2-12-						0-W07600	30180	461	27650	-35	-4	7.3	6.2	-321	-1	-1	10.7	2852	61	3.9	-46	0.271
56-43.4486-108.6747-2-15-						0-W07601	23570	196	5191	45	-2	3.3	3.3	-157	-1	-1	5.2	1782	51	-1.3	-21	0.425
56-43.4725-108.6289-2-15-						0-W07602	21620	257	6531	-26	-3	6.0	3.8	-261	-1	-1	8.7	2751	75	3.3	54	0.337
56-43.4753-108.6283-2-15-						0-W07604	19460	354	7801	49	-2	5.8	3.8	-205	-1	-1	7.5	2269	54	-2.0	91	0.293
56-43.4679-108.6653-2-12-						0-W07605	18630	409	6240	-27	-3	4.2	-1.3	-233	-1	-1	5.8	2041	43	-2.0	112	0.307
56-43.4736-108.6767-2-15-						0-W07606	21670	200	2024	40	-1	3.3	3.1	-129	-1	-1	5.8	2483	46	2.2	28	0.443
56-43.4914-108.7089-2-15-						0-W07607	17070	244	5479	69	2	6.4	4.0	-179	-1	-1	8.8	2671	90	2.0	79	0.309
56-43.4916-108.7078-2-15-						0-W07608	21670	231	5501	47	-2	5.4	3.6	-163	-1	-1	7.5	2406	89	2.0	100	0.372
56-43.5011-108.6911-2-12-						0-W07609	23690	304	6970	-22	-2	5.7	5.2	-212	-1	-1	10.3	3431	43	4.4	47	0.312
56-43.5094-108.7039-2-15-						0-W07610	33700	745	6974	53	-2	7.1	5.2	-294	-1	-1	7.9	3542	52	3.7	63	0.295
56-43.5256-108.6864-2-11-						0-W07612	30730	658	7556	64	-2	8.0	6.1	-326	-1	-1	9.0	3862	65	2.4	-37	0.331
56-43.6117-108.7396-2-12-						0-W07613	15250	600	12120	54	-2	9.5	4.7	-282	-1	-1	8.0	4589	79	3.2	-50	0.919
56-43.5736-108.7269-2-11-						0-W07614	9645	143	5582	-21	-2	4.8	2.7	-152	-1	-1	7.7	2445	39	-1.4	79	0.335
56-43.5636-108.7364-2-15-						0-W07615	13910	427	5703	-27	-2	6.3	2.1	-208	-1	-1	7.9	3257	59	2.8	100	0.392
56-43.5736-108.7558-2-11-						0-W07616	28620	575	2430	66	-2	5.7	7.7	-257	-1	1	14.8	2904	33	4.9	27	0.218
56-43.5825-108.7786-2-11-						0-W07617	11760	388	3730	85	-2	7.9	7.7	-220	-1	-1	17.4	3811	43	5.2	96	0.231
56-43.5558-108.7067-2-12-						0-W07618	27810	440	6783	-29	-2	10.0	4.7	-280	-1	-1	9.9	5087	84	3.1	-112	0.278
56-43.5436-108.6925-2-12-						0-W07619	21650	421	9679	-32	-2	8.0	5.4	-241	-1	-1	8.2	4416	66	3.3	-47	0.389
56-43.5078-108.6731-2-15-						0-W07620	23570	298	8442	50	-1	4.8	3.1	-203	-1	-1	5.2	2386	32	2.0	-21	0.308
56-43.5309-108.6847-2-12-						0-W07621	39450	575	8161	68	-2	10.0	4.9	-298	-1	-1	9.2	4326	79	2.5	59	0.288
56-43.4131-108.7217-2-15-						0-W07622	9287	155	1533	38	-2	4.9	4.5	-128	-1	-1	9.8	3280	52	3.7	47	0.307
56-43.3931-108.7239-2-15-						0-W07623	18260	225	4862	75	-3	10.4	6.7	-248	-1	-1	13.3	3901	88	3.0	-114	0.281
56-43.3817-108.7347-2-15-						0-W07624	12300	257	2110	37	-1	2.7	2.3	-151	-1		4.1	1790	32	1.7	-24	0.373
56-43.4258-108.6661-2-15-						0-W07625	9518	190	2581	51	-2	5.0	3.7	-148	-1	-1	8.3	2977	62	2.2	-27	0.322
56-43.4333-108.6469-2-15-						0-W07626	15600	231	3166	46	-2	5.2	4.1	-156	-1	-1	8.3	2644	76	-1.8	49	0.307
56-43.4347-108.6456-2-15-						0-W07627	9206	222	1991	26	-1	3.0	3.3	-156	-1	-1	6.8	3417	40	2.7		0.425
56-43.4347-108.6444-2-15-						0-W07628	17060	310	4901	37	-1	4.5	3.2	-180	-1	-1	6.1	1953	55	2.4	48	0.340
56-43.4331-108.6411-2-12-						0-W07629	23380	384	4102	52	-2	6.5	3.8	-229	-1	-1	8.5	2955	69	-1.5	113	0.309
56-43.4494-108.7444-2-15-						0-W07630	8748	134	1482	60	-2	5.0	3.9	-118	-1	-1	9.1	3236	68	2.4	30	0.301
56-43.4553-108.7414-2-15-						0-W07631	18920	213	2337	83	-2	7.4	4.6	-228	-1	-1	11.8	3619	94	2.8	-87	0.291
56-43.4606-108.7444-2-15-						0-W07632	9290	137	1542	55	-2	5.4	3.9	-141	-1	-1	7.9	2815	68	2.1	61	0.354
56-43.5178-108.7650-2-15-						0-W07633	15530	207	4075	50	-2	6.0	3.8	-177	-1	-1	10.1	2169	45	2.3	85	0.317
56-43.5183-108.7706-2-15-						0-W07634	17420	306	6511	57	-2	4.5	4.9	368	-1	-1	9.2	2320	42	3.6	-31	0.282
56-43.5058-108.7925-2-15-						0-W07635	14070	256	2550	61	-2	6.8	4.2	-214	-1	-1	9.1	2807	67	2.8	74	0.303
56-43.4792-108.7853-2-15-						0-W07636	8045	142	1371	38	-1	4.0	3.3	-121	-1	-1	7.6	2763	58	2.4	-48	0.363
56-43.4689-108.8044-2-15-						0-W07637	15360	287	3994	54	-2	5.8	4.4	-171	-1	-1	9.8	3488	50	3.1	95	0.334
56-43.4697-108.8053-2-15-						0-W07638	16580	295	4554	56	-2	5.3	5.0	-178	-1	-1	9.6	3168	52	3.3	74	0.331
56-43.4725-108.8000-2-15-						0-W07639	15310	232	3014	42	-1	3.9	3.5	-171	-1	-1	7.4	2399	37	3.3	70	0.369
56-43.4844-108.7967-2-15-						0-W07640	19250	215	800	42	-1	3.4	3.7	-131	1	-1	7.3	2599	41	3.1	-28	0.466
56-43.5222-108.7878-2-15-						0-W07641	21240	280	5663	46	-1	5.4	3.5	-174	-1	-1	8.0	3100	52	2.6	51	0.331
56-43.5428-108.8300-2-12-						0-W07642	24000	310	2910	-28	-2	5.6	4.4	333	-1	-1	8.6	3417	62	2.4	75	0.324
56-43.5611-108.8342-2-15-						0-W07643	18210	423	8042	64	-2	6.1	4.3	-252	-1	-1	9.3	2914	46	4.2	66	0.231
56-43.5608-108.8206-2-11-						0-W07644	29060	296	7634	-25	-2	4.4	2.8	496	-1	-1	4.9	2631	45	1.9	-39	0.467
56-43.5722-108.8408-2-11-						0-W07645	13540	171	7532	58	-1	3.3	3.1	-159	-1	-1	6.0	1751	24	2.0	-24	0.274

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.5736-108.8386-2-15-						0-W07636-10/11/79-15-			21-		-	-	-	-	-	11-1-4-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.89
56-43.6106-108.8247-2-11-						0-W07637-10/11/79-16-			20-	9.8	-0-	-	7.6-	170-		10-3-6-5-6-3-3-1-	-3-3-5-2-	-3-	-	-	-	1.77
56-43.5722-108.8525-2-11-						0-W07638-10/11/79-16-			19-	9.1	-	-	7.2-	800-		9-3-6-5-6-3-3-1-	-3-3-3-2-	-1-	-	-	-	3.90
56-43.5675-108.8631-2-12-						0-W07639-10/11/79-17-			19-	11.5	-	-	7.8-	600-		1-2-7-5-6-3-2-1-2-2-3-4-2-	-1-	-	-	-	2.41
56-43.5678-108.8644-2-12-						0-W07640-10/11/79-17-			19-	11.3	-0-	-	7.9-	550-		11-3-6-5-6-3-3-1-2-3-3-3-2-	-3-	-	-	-	1.85
56-43.5744-108.8667-2-11-						0-W07641-10/11/79-18-			18-	8.6	-	-	7.4-	620-		11-3-7-5-6-3-3-1-2-3-3-3-2-	-1-	-	-	-	2.27
56-43.5572-108.8586-2-12-						0-W07642-10/11/79-17-			18-	11.8	-0-	-	8.1-	600-		11-3-7-5-6-3-3-1-2-3-3-4-2-	-1-	-	-	-	2.11
56-43.5506-108.8469-2-12-						0-W07643-10/11/79-18-			17-	11.4	-0-	-	8.0-	610-		12-3-7-5-6-3-3-1-2-3-3-3-2-	-1-	-	-	-	2.07
56-43.5203-108.8361-2-12-						0-W07644-10/11/79-18-			17-	12.8	-0-	-	7.9-	1050-		15-3-7-5-6-3-3-1-2-3-3-3-2-	-3-	-	-	-	2.36
56-43.5200-108.8331-2-12-						0-W07645-10/11/79-18-			17-	11.3	-	-	7.9-	850-		10-3-6-5-7-3-3-1-2-3-3-3-2-	-1-	-	-	-	2.66
56-43.5181-108.8375-2-12-						0-W07646-10/11/79-18-			17-	14.9	-0-	-	7.5-	800-		14-3-6-5-6-2-2-1-2-3-3-3-2-	-3-	-	-	-	2.68
56-43.5050-108.8464-2-15-						0-W07647-10/11/79-19-			17-		-	-	-	-	-	13-3-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.86
56-43.5036-108.7381-2-12-						0-W07648-10/11/79-19-			15-	10.7	-	-	7.9-	1100-		14-3-6-5-6-3-3-1-2-3-3-3-2-	-1-	-	-	-	2.57
56-43.3850-108.6697-2-15-						0-W07649-10/12/79- 8-			14-		-	-	-	-	-	14-3-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	3.17
56-43.3847-108.6464-2-15-						0-W07650-10/12/79- 9-			15-		-	-	-	-	-	10-3-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.54
56-43.3786-108.6303-2-15-						0-W07651-10/12/79- 9-			15-		-	-	-	-	-	12-3-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.62
56-43.3908-108.7906-2-15-						0-W07652-10/12/79-11-			21-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.07
56-43.3928-108.7928-2-15-						0-W07653-10/12/79-11-			21-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.21
56-43.3917-108.7964-2-15-						0-W07654-10/12/79-11-			21-		-	-	-	-	-	14-1-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.82
56-43.4161-108.8281-2-15-						0-W07655-10/12/79-13-			21-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.35
56-43.4161-108.8294-2-15-						0-W07656-10/12/79-13-			21-		-	-	-	-	-	11-1-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.62
56-43.4208-108.8419-2-15-						0-W07657-10/12/79-13-			21-		-	-	-	-	-	15-1-6-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	4.38
56-43.4264-108.8381-2-15-						0-W07658-10/12/79-14-			22-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	3.20
56-43.4261-108.8394-2-15-						0-W07659-10/12/79-14-			22-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.00
56-43.4469-108.8725-2-15-						0-W07660-10/12/79-14-			22-		-	-	-	-	-	11-3-6-4-6-	-1-	-2-3-3-3-4-	-1-	-	-	-	3.18
56-43.0425-108.7558-2-15-						0-W07661-10/14/79-10-			19-		-	-	-	-	-	13-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.75
56-43.0503-108.7836-2-15-						0-W07662-10/14/79-10-			19-		-	-	-	-	-	11-3-7-4-6-	-1-	-2-3-3-3-1-	-1-	-	-	-	3.28
56-43.0500-108.7819-2-15-						0-W07663-10/14/79-10-			19-		-	-	-	-	-	11-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.97
56-43.0642-108.7911-2-15-						0-W07664-10/14/79-10-			20-		-	-	-	-	-	13-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	3.07
56-43.0819-108.8111-2-15-						0-W07665-10/14/79-11-			20-		-	-	-	-	-	12-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.77
56-43.0928-108.8228-2-15-						0-W07666-10/14/79-11-			21-		-	-	-	-	-	11-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.83
56-43.1091-108.8350-2-15-						0-W07667-10/14/79-11-			20-		-0-	-	-	-	-	13-3-7-4-6-	-1-	-2-3-3-3-2-	-3-	-	-	-	3.07
56-43.1561-108.8597-2-15-						0-W07668-10/14/79-11-			20-		-	-	-	-	-	12-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.62
56-43.1461-108.8664-2-15-						0-W07669-10/14/79-12-			20-		-	-	-	-	-	12-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	3.22
56-43.1458-108.8681-2-15-						0-W07670-10/14/79-12-			20-		-	-	-	-	-	9-3-7-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.99
56-43.1294-108.8497-2-15-						0-W07671-10/14/79-13-			20-		-0-	-	-	-	-	3-3-6-5-7-	-1-	-2-3-3-3-2-	-1-	-	-	-	3.19
56-43.1297-108.8508-2-15-						0-W07672-10/14/79-13-			20-		-	-	-	-	-	14-3-6-4-6-	-1-	-2-3-3-3-2-	-1-	-	-	-	2.90
56-43.1078-108.8392-2-15-						0-W07673-10/14/79-13-			20-		-	-	-	-	-	12-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	3.22
56-43.1047-108.8406-2-15-						0-W07674-10/14/79-13-			20-		-	-	-	-	-	13-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	3.53
56-43.0864-108.8222-2-15-						0-W07675-10/14/79-13-			20-		-	-	-	-	-	14-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	3.57
56-43.0644-108.8006-2-15-						0-W07676-10/14/79-13-			19-		-	-	-	-	-	11-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	3.63
56-43.0136-108.7917-2-15-						0-W07678-10/14/79-14-			18-		-0-	-	-	-	-	13-3-7-4-6-	-1-	-2-3-3-4-3-	-0-	-	-	-	3.68
56-43.0392-108.8481-2-15-						0-W07679-10/14/79-15-			19-		-	-	-	-	-	11-3-7-4-4-	-1-	-2-3-3-3-3-	-1-	-	-	-	2.56
56-43.0047-108.8658-2-15-						0-W07685-10/14/79-18-			16-		-0-	-	-	-	-	9-3-7-4-8-	-1-	-2-4-3-3-3-	-3-	-	-	-	3.13
56-43.1044-108.8386-2-15-						0-W07687-10/15/79-10-			14-		-	-	-	-	-	12-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	4.07
56-43.0747-108.8647-2-15-						0-W07690-10/15/79-12-			14-		-	-	-	-	-	13-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	2.82
56-43.3281-108.4478-2-12-						0-W07691-10/15/79-18-			15-	12.6	-	-	7.6-	3850-		10-1-7-4-7-3-3-1-3-3-2-2-2-	-3-	-	-	-	5.70
56-43.2839-108.4294-2-15-						0-W07692-10/15/79-18-			13-		-	-	-	-	-	12-1-6-4-6-	-1-	-3-4-2-2-2-	-3-	-	-	-	2.32
56-43.2839-108.4189-2-15-						0-W07693-10/15/79-19-			13-		-	-	-	-	-	12-1-7-4-7-	-1-	-3-4-2-1-2-	-3-	-	-	-	2.60
56-43.2900-108.5619-2-15-						0-W07695-10/17/79-10-			10-		-	-	-	-	-	10-1-6-4-6-	-1-	-3-4-2-2-3-	-3-	-	-	-	2.67
56-43.2594-108.6022-2-12-						0-W07696-10/17/79-10-			10-	9.5	-	-	7.2-	2350-		14-1-6-5-7-3-4-3-3-4-3-2-3-	-5-	-	-	-	2.94

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-	43.5736-	108.8386-	2-	15-		0-W07636	-5	-5	-5	22	-20	-15	10	-10	-15	2	30
56-	43.6106-	108.8247-	2-	11-		0-W07637	-5	-5	-5	27	-20	23	14	-10	-15	2	20
56-	43.5722-	108.8525-	2-	11-		0-W07638	-5	5	-5	21	-20	-15	25	-10	-15	2	38
56-	43.5675-	108.8631-	2-	12-		0-W07639	-5	-5	-5	14	-20	-15	9	-10	16	2	26
56-	43.5678-	108.8644-	2-	12-		0-W07640	-5	-5	-5	10	-20	-15	5	-10	-15	2	14
56-	43.5744-	108.8667-	2-	11-		0-W07641	-5	-5	-5	16	-20	16	12	-10	-15	2	23
56-	43.5572-	108.8586-	2-	12-		0-W07642	-5	5	-5	17	-20	-15	6	-10	17	2	24
56-	43.5506-	108.8469-	2-	12-		0-W07643	-5	-5	-5	16	-20	16	6	-10	-15	2	28
56-	43.5203-	108.8361-	2-	12-		0-W07644	-5	5	-5	17	-20	-15	17	-10	-15	2	45
56-	43.5200-	108.8321-	2-	12-		0-W07645	-5	-5	-5	12	-20	-15	5	-10	-15	2	33
56-	43.5181-	108.8375-	2-	12-		0-W07646	-5	-5	-5	18	-20	-15	7	-10	-15	3	45
56-	43.5050-	108.8464-	2-	15-		0-W07647	-5	-5	-5	27	-20	26	12	-10	-15	2	66
56-	43.5036-	108.7381-	2-	12-		0-W07648	-5	-5	-5	15	-20	-15	13	-10	-15	2	22
56-	43.3850-	108.6697-	2-	15-		0-W07649	-5	8	-5	30	-20	19	22	-10	-15	2	33
56-	43.3847-	108.6464-	2-	15-		0-W07650	-5	-5	-5	15	-20	-15	10	-10	-15	3	21
56-	43.3786-	108.6303-	2-	15-		0-W07651	-5	5	-5	28	-20	18	16	-10	-15	3	30
56-	43.3908-	108.7906-	2-	15-		0-W07652	-5	6	-5	10	-20	-15	15	-10	-15	1	13
56-	43.3928-	108.7928-	2-	15-		0-W07653	-5	-5	-5	18	-20	-15	10	-10	-15	2	17
56-	43.3917-	108.7964-	2-	15-		0-W07654	-5	-5	-5	16	-20	17	10	-10	-15	3	53
56-	43.4161-	108.8281-	2-	15-		0-W07655	-5	-5	-5	16	-20	-15	11	-10	-15	1	11
56-	43.4161-	108.8294-	2-	15-		0-W07656	-5	-5	-5	15	-20	-15	12	-10	-15	2	25
56-	43.4208-	108.8419-	2-	15-		0-W07657	-5	-5	-5	12	-20	-15	7	-10	18	3	40
56-	43.4264-	108.8381-	2-	15-		0-W07658	-5	-5	-5	38	-20	-15	20	-10	-15	2	28
56-	43.4261-	108.8394-	2-	15-		0-W07659	-5	-5	-5	16	-20	-15	-5	-10	-15	2	17
56-	43.4469-	108.8725-	2-	15-		0-W07660	-5	6	-5	21	-20	-15	17	-10	-15	3	46
56-	43.0425-	108.7558-	2-	15-		0-W07661	-5	-5	-5	12	-20	-15	7	-10	16	2	18
56-	43.0503-	108.7836-	2-	15-		0-W07662	-5	-5	-5	22	-20	22	15	-10	-15	3	58
56-	43.0500-	108.7619-	2-	15-		0-W07663	-5	5	-5	18	-20	-15	9	-10	-15	2	45
56-	43.0642-	108.7911-	2-	15-		0-W07664	-5	5	-5	22	-20	18	16	-10	15	2	50
56-	43.0819-	108.8111-	2-	15-		0-W07665	-5	7	-5	17	-20	19	14	-10	-15	2	37
56-	43.0928-	108.8228-	2-	15-		0-W07666	-5	6	-5	24	-20	20	19	-10	-15	2	65
56-	43.1081-	108.8350-	2-	15-		0-W07667	-5	-5	-5	23	-20	20	15	-10	-15	3	52
56-	43.1561-	108.8597-	2-	15-		0-W07668	-5	6	-5	15	-20	15	14	-10	-15	-1	47
56-	43.1461-	108.8664-	2-	15-		0-W07669	-5	-5	-5	13	-20	26	8	-10	-15	2	30
56-	43.1458-	108.8681-	2-	15-		0-W07670	-5	-5	-5	24	-20	22	14	-10	-15	3	54
56-	43.1294-	108.8497-	2-	15-		0-W07671	-5	-5	-5	32	-20	16	13	-10	15	3	63
56-	43.1297-	108.8508-	2-	15-		0-W07672	-5	-5	-5	18	-20	-15	9	-10	-15	3	72
56-	43.1078-	108.8392-	2-	15-		0-W07673	-5	-5	-5	15	-20	-15	9	-10	-15	2	32
56-	43.1047-	108.8406-	2-	15-		0-W07674	-5	6	-5	19	-20	-15	17	-10	-15	2	27
56-	43.0864-	108.8222-	2-	15-		0-W07675	-5	5	-5	22	-20	-15	14	-10	-15	3	58
56-	43.0644-	108.8006-	2-	15-		0-W07676	-5	-5	-5	19	-20	26	8	-10	-15	3	45
56-	43.0136-	108.7917-	2-	15-		0-W07678	-5	-5	-5	22	-20	17	17	-10	-15	3	36
56-	43.0392-	108.8481-	2-	15-		0-W07679	-5	5	-5	24	-20	-15	12	-10	-15	2	34
56-	43.0047-	108.6658-	2-	15-		0-W07685	-5	8	-5	17	-20	-15	10	-10	-15	2	23
56-	43.1044-	108.6386-	2-	15-		0-W07687	-5	5	-5	14	-20	16	15	-10	-15	2	25
56-	43.0747-	108.6947-	2-	15-		0-W07690	-5	-5	-5	18	-20	24	-5	-10	-15	3	38
56-	43.3281-	108.4478-	2-	12-		0-W07691	-5	7	-5	-10	-20	-15	-5	-10	-15	2	20
56-	43.2836-	108.4294-	2-	15-		0-W07692	-5	-5	-5	25	-20	-15	7	-10	-15	3	37
56-	43.2839-	108.4189-	2-	15-		0-W07693	-5	-5	-5	19	-20	16	11	-10	-15	2	40
56-	43.2900-	108.5619-	2-	15-		0-W07695	-5	-5	-5	24	-20	-15	10	-10	-15	3	32
56-	43.2594-	108.6022-	2-	12-		0-W07696	-5	-5	-5	21	-20	-15	9	-10	-15	2	29

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.5736-	108.8386-	2-	15-	0-	W07636	47200	-0.09	533	23640	77	-62	7.0	52	2.2	5	1.2	20150	11.1	25410	33	0.5
56-	43.6106-	108.8247-	2-	11-	0-	W07637	65450	-0.08	1106	18300	57	-107	7.0	58	-1.4	3	1.5	25390	13.2	11090	41	0.3
56-	43.5722-	108.8525-	2-	11-	0-	W07638	46710	-0.09	327	35160	41	-79	4.7	40	2.5	4	1.0	14910	7.5	17470	22	0.3
56-	43.5675-	108.8631-	2-	12-	0-	W07639	33210	-0.06	374	42700	40	-61	5.4	44	2.2	3	0.9	14190	12.5	13670	27	0.2
56-	43.5678-	108.8644-	2-	12-	0-	W07640	25920	-0.06	308	31630	33	91	1.9	28	1.4	2	0.7	5927	11.9	11160	14	0.3
56-	43.5744-	108.8667-	2-	11-	0-	W07641	39820	-0.06	409	32590	43	-74	3.8	45	-1.1	4	1.2	12360	9.9	15660	23	0.3
56-	43.5572-	108.8586-	2-	12-	0-	W07642	35470	-0.06	352	40950	30	-59	2.5	30	1.9	3	0.9	10510	8.6	14950	20	0.2
56-	43.5506-	108.8469-	2-	12-	0-	W07643	31640	-0.06	419	43320	40	-62	4.6	32	2.0	3	1.0	12070	11.0	13730	23	0.2
56-	43.5203-	108.8361-	2-	12-	0-	W07644	42100	-0.07	510	46560	48	-64	4.3	37	2.4	4	1.3	13050	7.4	15200	21	0.2
56-	43.5200-	108.8331-	2-	12-	0-	W07645	42010	-0.07	412	50210	39	97	2.0	32	2.8	3	1.1	12350	7.9	13660	25	0.2
56-	43.5181-	108.8375-	2-	12-	0-	W07646	46280	-0.06	1378	26830	45	-65	4.0	29	2.3	3	0.9	14150	8.2	17640	26	0.2
56-	43.5050-	108.8464-	2-	15-	0-	W07647	49610	-0.07	821	20500	43	-51	9.6	58	3.8	4	1.3	23080	5.3	15980	29	0.3
56-	43.5036-	108.7381-	2-	12-	0-	W07648	38300	-0.07	689	31940	44	-55	3.9	35	-1.4	4	1.4	13200	11.7	14150	27	0.3
56-	43.3950-	108.6697-	2-	15-	0-	W07649	72130	-0.09	598	12670	66	-63	6.4	47	5.4	4	1.3	21220	4.8	20390	36	0.3
56-	43.3947-	108.6464-	2-	15-	0-	W07650	41070	-0.06	479	7110	49	-49	4.3	34	2.8	3	0.9	13520	11.0	14520	29	0.3
56-	43.3786-	108.6303-	2-	15-	0-	W07651	46630	-0.06	545	12920	48	-45	5.7	35	4.1	4	1.0	15830	7.1	17430	31	0.2
56-	43.3008-	108.7906-	2-	15-	0-	W07652	27310	-0.06	409	23280	38	-33	2.8	26	2.3	3	0.7	6829	5.3	12680	21	0.2
56-	43.3028-	108.7928-	2-	15-	0-	W07653	30230	-0.05	383	24020	38	56	2.5	26	2.1	3	0.8	8321	6.7	13260	25	0.2
56-	43.3917-	108.7964-	2-	15-	0-	W07654	48910	-0.06	540	27660	45	-52	4.9	36	3.2	3	0.9	15550	6.4	17530	29	0.3
56-	43.4161-	108.8281-	2-	15-	0-	W07655	23740	-0.05	358	20830	35	43	3.0	25	2.0	3	0.8	8520	11.8	10580	25	0.3
56-	43.4161-	108.8294-	2-	15-	0-	W07656	36410	-0.06	612	18890	51	-39	3.6	31	3.0	3	0.8	10000	8.1	12050	23	0.3
56-	43.4208-	108.8419-	2-	15-	0-	W07657	51410	-0.06	672	9456	65	-73	2.9	29	4.0	5	1.2	12400	10.8	17590	36	0.4
56-	43.4264-	108.8381-	2-	15-	0-	W07658	48560	-0.06	519	22260	47	-58	3.4	31	3.3	3	1.1	12810	7.9	17480	29	0.3
56-	43.4261-	108.8394-	2-	15-	0-	W07659	20530	-0.05	1201	15880	36	-44	4.5	22	2.0	3	0.4	13670	11.0	9425	20	0.3
56-	43.4469-	108.8725-	2-	15-	0-	W07660	53300	-0.07	550	10210	58	-55	3.1	37	3.9	4	1.0	13280	6.0	18760	27	0.3
56-	43.0435-	108.7558-	2-	15-	0-	W07661	32410	-0.05	347	25030	46	-37	2.0	25	1.7	3	0.9	9232	12.1	11380	27	0.3
56-	43.0503-	108.7836-	2-	15-	0-	W07662	56340	-0.07	658	22300	53	391	7.6	50	4.3	4	1.3	20040	5.5	19040	32	0.3
56-	43.0530-	108.7819-	2-	15-	0-	W07663	52700	-0.08	646	21710	57	-55	5.9	56	3.7	4	1.2	17440	6.9	19650	33	0.3
56-	43.0442-	108.7911-	2-	15-	0-	W07664	60770	-0.07	605	17560	69	-69	5.9	62	4.0	4	1.2	20660	6.0	19210	45	0.3
56-	43.0819-	108.8111-	2-	15-	0-	W07665	53980	-0.06	460	29920	48	-57	4.5	51	3.5	3	1.0	16040	6.5	20540	28	0.3
56-	43.0928-	108.8228-	2-	15-	0-	W07666	58110	-0.08	678	19980	67	-62	8.1	64	4.8	3	1.4	23550	5.1	22190	34	0.3
56-	43.1081-	108.8350-	2-	15-	0-	W07667	58120	-0.08	641	30290	62	-55	4.9	48	4.0	4	1.2	18030	5.0	19190	31	0.3
56-	43.1561-	108.8597-	2-	15-	0-	W07668	56210	-0.07	506	26300	60	-50	5.3	54	4.5	4	1.4	18980	5.8	17050	32	0.3
56-	43.1461-	108.8664-	2-	15-	0-	W07669	46070	-0.07	524	19020	47	3904	5.9	50	2.6	3	1.0	16600	6.9	15400	32	0.2
56-	43.1458-	108.8681-	2-	15-	0-	W07670	59000	-0.07	692	11810	64	-61	10.0	63	5.1	4	1.2	25170	6.7	21250	40	0.3
56-	43.1294-	108.8497-	2-	15-	0-	W07671	56500	-0.09	679	20750	68	766	8.0	77	4.3	4	1.2	20240	6.3	20000	33	0.3
56-	43.1297-	108.8508-	2-	15-	0-	W07672	57190	-0.07	725	22230	53	1127	6.5	62	4.9	4	1.2	22410	5.8	18980	31	0.3
56-	43.1078-	108.8392-	2-	15-	0-	W07673	52540	-0.06	624	12270	51	-65	2.5	41	2.7	4	1.2	13040	8.0	19410	34	0.3
56-	43.1047-	108.8406-	2-	15-	0-	W07674	54660	-0.06	777	10150	58	-65	5.2	48	3.9	4	1.3	16400	9.2	19290	42	0.3
56-	43.0854-	108.8222-	2-	15-	0-	W07675	60540	-0.09	570	14380	72	-59	4.3	49	5.1	5	1.4	18290	6.0	18370	32	0.4
56-	43.0644-	108.8006-	2-	15-	0-	W07676	57050	-0.08	972	18600	63	-67	8.3	71	3.9	4	1.3	23260	7.5	19430	39	0.3
56-	43.0136-	108.7917-	2-	15-	0-	W07677	58140	-0.07	348	14570	57	-62	6.5	34	3.9	5	1.1	17730	6.3	21500	28	0.3
56-	43.0302-	108.8481-	2-	15-	0-	W07678	49740	-0.07	481	28470	57	-59	7.4	48	3.0	4	1.2	20750	8.8	16940	31	0.3
56-	43.0047-	108.8658-	2-	15-	0-	W07685	46680	-0.08	581	20460	52	-60	4.2	56	3.1	4	1.2	13860	8.0	16180	22	0.3
56-	43.1044-	108.8386-	2-	15-	0-	W07687	54560	-0.07	713	18880	120	-87	4.7	79	3.0	6	1.5	19830	20.1	17600	66	0.5
56-	43.0747-	108.8947-	2-	15-	0-	W07690	66980	-0.07	513	22820	72	-86	7.2	64	-1.3	4	1.2	19930	10.3	17560	35	0.4
56-	43.3281-	108.4478-	2-	12-	0-	W07691	47170	-0.06	729	28420	178	-74	5.1	59	1.6	7	1.6	19750	33.4	15410	106	0.7
56-	43.2939-	108.4284-	2-	15-	0-	W07692	51130	-0.07	674	24180	48	84	5.1	36	3.8	3	1.4	13110	5.0	18370	26	0.2
56-	43.2839-	108.4196-	2-	15-	0-	W07693	58550	-0.07	608	23840	60	-70	6.7	54	4.5	4	1.3	20650	6.7	19630	32	0.3
56-	43.2900-	108.5619-	2-	15-	0-	W07695	53020	-0.06	615	28600	53	131	6.6	47	3.7	4	1.1	15650	4.7	21330	25	0.2
56-	43.2594-	108.4022-	2-	12-	0-	W07696	44660	-0.06	553	32640	50	245	4.8	39	3.5	3	1.1	14970	8.6	14120	26	0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)												U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.5736-108.8386-2-15-						0-W07636	24230	444	6131	65	-2	6.6	6.2	-226	-1	-1	11.9	2930	49	4.9	-37	0.243
56-43.6106-108.8247-2-11-						0-W07637	13410	360	22740	-25	-2	7.3	3.8	498	-1	-1	14.8	3451	70	3.0	-25	0.120
56-43.5722-108.8525-2-11-						0-W07638	20230	373	8791	39	-2	5.3	3.6	-258	-1	-1	5.8	3106	43	1.9	71	0.672
56-43.5675-108.8631-2-12-						0-W07639	20720	420	6982	33	-2	4.8	3.7	-219	-1	-1	6.4	2780	38	1.9	-29	0.377
56-43.5678-108.8644-2-12-						0-W07640	15740	235	5596	-18	-1	2.9	2.0	-150	-1	-1	4.5	1591	19	1.8	-23	0.411
56-43.5744-108.8667-2-11-						0-W07641	22580	573	8022	42	-2	4.8	3.8	-269	-1	-1	6.3	2914	32	2.9	-26	0.360
56-43.5572-108.8696-2-12-						0-W07642	19300	297	7749	31	-1	3.8	3.0	-181	-1	-1	5.7	1992	32	1.6	45	0.370
56-43.5506-108.8469-2-12-						0-W07643	14100	343	7001	-21	-1	4.0	3.1	-207	-1	-1	7.1	2404	34	2.6	43	0.292
56-43.5203-108.8361-2-12-						0-W07644	24680	522	6668	41	-2	5.0	4.1	-229	-1	-1	7.4	2431	49	2.5	-30	0.319
56-43.5200-108.8331-2-12-						0-W07645	22270	189	5440	53	-2	4.8	3.4	-211	-1	-1	7.1	2545	64	2.4	-36	0.375
56-43.5181-108.8375-2-12-						0-W07646	12810	371	8060	-20	-1	4.1	3.3	-208	-1	-1	7.1	2351	55	2.4	52	0.277
56-43.5050-108.8464-2-15-						0-W07647	10590	324	5140	65	-2	7.5	3.9	-192	-1	-1	9.0	2938	131	2.6	92	0.318
56-43.5036-108.7381-2-12-						0-W07648	18960	302	5891	34	-2	4.0	3.9	-194	-1	-1	6.8	2639	59	1.8	-10	0.378
56-43.3950-108.6697-2-15-						0-W07649	17530	309	3880	100	-2	8.7	4.5	-267	-1	-1	9.8	3654	82	4.1	-48	0.323
56-43.3947-108.6464-2-15-						0-W07650	10750	341	4788	41	-1	4.6	4.0	-187	-1	-1	8.6	2513	51	2.6	-43	0.295
56-43.3786-108.6303-2-15-						0-W07651	11060	247	4412	69	-1	5.9	3.8	-165	-1	-1	8.6	2908	55	-1.2	77	0.305
56-43.3908-108.7906-2-15-						0-W07652	16140	195	2144	35	-1	3.0	2.8	-134	-1	-1	5.4	1766	36	-1.2	27	0.383
56-43.3928-108.7528-2-15-						0-W07653	16840	200	2210	57	-1	3.3	2.7	-160	-1		5.5	1945	38	2.0	-27	0.402
56-43.3917-108.7664-2-15-						0-W07654	19930	238	5289	48	-2	5.3	3.7	-167	-1	1	7.2	2349	82	2.1	79	0.352
56-43.4161-108.8281-2-15-						0-W07655	16380	202	777	35	-1	3.1	3.0	-130	-1		6.5	1972	38	2.1	70	0.362
56-43.4161-108.8294-2-15-						0-W07656	12740	219	3181	32	-1	4.0	3.9	-146	-1	-1	7.8	2317	48	2.4	-26	0.336
56-43.4208-108.8419-2-15-						0-W07657	6034	225	12580	67	-1	4.2	4.3	-209	1	-1	10.9	2471	41	3.1	39	0.402
56-43.4264-108.8381-2-15-						0-W07658	14810	264	6954	59	-1	4.2	3.9	-178	-1	-1	8.6	2049	52	3.6	49	0.372
56-43.4261-108.8394-2-15-						0-W07659	5979	334	4536	34	-1	3.6	2.9	-167	-1	-1	6.4	1978	36	1.3	18	0.313
56-43.4449-108.8725-2-15-						0-W07660	10680	216	7205	58	-2	4.8	4.1	-168	-1	-1	12.1	2194	55	2.6	-29	0.263
56-43.0425-108.7558-2-15-						0-W07661	17540	150	3163	33	-1	3.3	4.0	-126	-1	-1	7.8	2627	52	2.3	32	0.353
56-43.0503-108.7836-2-15-						0-W07662	20910	245	8372	71	-2	7.1	4.4	-203	-1	-1	10.1	2923	90	2.3	101	0.325
56-43.0500-108.7819-2-15-						0-W07663	18860	302	6570	65	-2	6.0	4.6	316	-1	-1	11.4	2657	86	3.0	-38	0.261
56-43.0642-108.7911-2-15-						0-W07664	22650	356	7760	81	-2	7.2	5.9	-236	-1	-1	13.2	2692	73	3.6	104	0.233
56-43.0819-108.8111-2-15-						0-W07665	25310	335	6800	64	-2	5.6	3.8	-192	-1	-1	8.4	2485	79	-1.3	83	0.330
56-43.0928-108.8228-2-15-						0-W07666	26160	393	6450	64	-2	8.5	5.0	-227	-1	-1	11.8	3205	116	3.9	94	0.240
56-43.1081-108.8350-2-15-						0-W07667	26870	310	5735	63	-2	6.7	4.4	-191	-1	-1	10.8	2953	96	2.9	72	0.284
56-43.1561-108.8597-2-15-						0-W07668	24370	290	5668	55	-2	6.8	4.4	-210	-1	-1	9.6	2491	77	2.5	-86	0.273
56-43.1441-108.8664-2-15-						0-W07669	25580	296	40140	52	-2	5.6	4.7	-318	-1	-1	7.9	2413	88	2.4	-50	0.408
56-43.1458-108.8681-2-15-						0-W07670	17920	463	7112	91	-2	8.4	5.0	-228	-1	-1	11.3	3414	111	3.5	137	0.265
56-43.1294-108.8497-2-15-						0-W07671	23650	324	8077	78	-2	7.7	5.1	276	-1	-1	10.3	3767	120	-2.1	40	0.310
56-43.1297-108.8508-2-15-						0-W07672	24940	269	7707	63	-2	8.0	4.7	-223	-1	-1	8.5	3390	119	2.5	-56	0.341
56-43.1078-108.8302-2-15-						0-W07673	12050	255	6489	45	-1	4.4	4.0	221	-1	-1	11.3	2595	50	2.1	54	0.285
56-43.1047-108.8406-2-15-						0-W07674	9133	267	8989	76	-2	5.5	4.9	-200	-1	-1	13.6	2525	58	3.0	77	0.260
56-43.0864-108.8222-2-15-						0-W07675	19540	311	6905	-28	-2	6.5	5.2	305	-1	-1	13.0	2828	75	3.0	-54	0.275
56-43.0644-108.8006-2-15-						0-W07676	14760	366	6130	64	-2	7.9	4.0	-249	-1	-1	10.1	3269	132	2.3	95	0.300
56-43.0136-108.7917-2-15-						0-W07678	12260	439	5540	77	-2	6.1	4.5	-228	-1	-1	10.3	2438	55	3.4	76	0.357
56-43.0302-108.8481-2-15-						0-W07679	19430	348	7457	56	-2	6.7	4.4	-202	-1	-1	9.7	3067	57	2.1	-57	0.264
56-43.0047-108.8659-2-15-						0-W07685	17150	245	7254	-27	-2	4.7	4.6	-189	-1	-1	9.2	2352	53	2.4	-34	0.340
56-43.1044-108.8386-2-15-						0-W07687	12600	460	12900	46	-2	6.7	7.3	378	-1	1	21.4	3499	53	5.8	41	0.190
56-43.0747-108.8947-2-15-						0-W07690	17910	394	17570	39	-2	7.4	4.8	485	-1	-1	12.2	3052	56	2.9	29	0.231
56-43.3281-108.4478-2-12-						0-W07691	8450	470	13190	53	-2	5.7	11.2	-232	-1	-1	28.2	3484	41	5.9	36	0.202
56-43.2839-108.4294-2-15-						0-W07692	12760	317	10270	-23	-2	4.6	4.2	-195	-1	-1	7.9	2169	43	3.3	-38	0.294
56-43.2839-108.4189-2-15-						0-W07693	19920	395	6960	79	-2	6.3	4.4	-267	-1	-1	9.2	2868	52	2.5	-38	0.283
56-43.2900-108.5615-2-15-						0-W07695	15930	347	9986	54	-2	5.3	3.7	-214	-1	-1	8.7	2521	49	2.6	54	0.307
56-43.2594-108.6022-2-12-						0-W07696	17830	311	6964	45	-2	5.4	4.2	-203	-1	-1	8.0	2374	52	2.1	69	0.368

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																										U CONCENTRATION
							TIME SAMPLED																										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (μmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-	43.2547-	108.7200-	2-	15-	0-	W07702	10/17/79	11-	15-		-	-	-	-	-	15-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-1-	-	-	-	-	3.59
56-	43.2950-	108.7467-	2-	15-	0-	W07704	10/17/79	12-	15-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	3.19
56-	43.2942-	108.7461-	2-	15-	0-	W07705	10/17/79	12-	15-		-	-	-	-	-	16-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	3.97
56-	43.3139-	108.7403-	2-	15-	0-	W07706	10/17/79	13-	16-		-C-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	2.74
56-	43.3131-	108.7403-	2-	15-	0-	W07707	10/17/79	13-	16-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	2.76
56-	43.3219-	108.7292-	2-	15-	0-	W07708	10/17/79	13-	17-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	2-	-1-	-	-	-	-	2.62
56-	43.3244-	108.7725-	2-	15-	0-	W07709	10/17/79	13-	16-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	2.85
56-	43.3231-	108.7708-	2-	15-	0-	W07710	10/17/79	13-	16-		-	-	-	-	-	6-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	2.91
56-	43.3214-	108.7694-	2-	15-	0-	W07711	10/17/79	13-	16-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	2.85
56-	43.3128-	108.7783-	2-	15-	0-	W07712	10/17/79	14-	18-		-	-	-	-	-	9-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	3.31
56-	43.3592-	108.7806-	2-	15-	0-	W07713	10/17/79	14-	16-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-3-	3-	2-	2-	3-	-3-	-	-	-	-	1.93
56-	43.3600-	108.8044-	2-	15-	0-	W07714	10/17/79	14-	16-		-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-1-	-	-	-	-	2.67
56-	43.3747-	108.8444-	2-	15-	0-	W07715	10/17/79	14-	16-		-C-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-3-	3-	2-	2-	3-	-3-	-	-	-	-	2.72
56-	43.3306-	108.8414-	2-	15-	0-	W07716	10/17/79	15-	16-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	2.79
56-	43.3189-	108.8050-	2-	15-	0-	W07717	10/17/79	16-	15-		-C-	-	-	-	-	8-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	2.76
56-	43.3517-	108.7639-	2-	15-	0-	W07718	10/17/79	17-	15-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-3-	3-	2-	2-	3-	-3-	-	-	-	-	2.67
56-	43.3511-	108.7653-	2-	12-	0-	W07719	10/17/79	17-	15-		-	-	7.5-	4150-		10-	1-	6-	5-	8-	3-	3-	1-	2-	3-	2-	2-	3-	-2-	-	-	-	-	2.76
56-	43.3508-	108.7431-	2-	15-	0-	W07720	10/17/79	17-	15-		-C-	-	-	-	-	7-	1-	6-	4-	6-	-1-	-3-	3-	2-	2-	3-	-1-	-	-	-	-	2.68
56-	43.3506-	108.7375-	2-	15-	0-	W07721	10/17/79	17-	14-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-1-	-	-	-	-	2.68
56-	43.3442-	108.7217-	2-	15-	0-	W07722	10/17/79	17-	14-		-	-	-	-	-	8-	1-	6-	4-	7-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	1.85
56-	43.3433-	108.7217-	2-	15-	0-	W07723	10/17/79	17-	14-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	3-	-3-	-	-	-	-	2.59
56-	43.3067-	108.6489-	2-	15-	0-	W07724	10/17/79	18-	13-		-C-	-	-	-	-	8-	1-	7-	4-	7-	-1-	-3-	4-	3-	2-	3-	-3-	-	-	-	-	2.54
56-	43.3053-	108.6417-	2-	15-	0-	W07725	10/17/79	18-	13-		-	-	-	-	-	15-	1-	7-	4-	7-	-1-	-3-	3-	2-	2-	3-	-3-	-	-	-	-	2.59
56-	43.2879-	108.3886-	2-	15-	0-	W07726	10/18/79	9-	18-		-	-	-	-	-	14-	1-	7-	4-	7-	-1-	-3-	4-	2-	1-	2-	-3-	-	-	-	-	2.45
56-	43.2875-	108.3528-	2-	15-	0-	W07727	10/18/79	9-	18-		-	-	-	-	-	7-	1-	7-	4-	7-	-1-	-3-	4-	2-	1-	2-	-3-	-	-	-	-	3.28
56-	43.2794-	108.3164-	2-	15-	0-	W07728	10/18/79	10-	16-		-	-	-	-	-	10-	1-	7-	4-	7-	-1-	-3-	4-	2-	1-	3-	-3-	-	-	-	-	3.24
56-	43.2689-	108.2906-	2-	15-	0-	W07729	10/18/79	10-	15-		-	-	-	-	-	6-	1-	7-	4-	7-	-1-	-3-	4-	2-	1-	3-	-3-	-	-	-	-	2.69
56-	43.3575-	108.2710-	2-	15-	0-	W07733	10/18/79	12-	10-		-	-	-	-	-	11-	1-	6-	4-	6-	-1-	-3-	3-	2-	2-	3-	-1-	-	-	-	-	2.29
56-	43.3567-	108.2736-	2-	12-	0-	W07734	10/18/79	12-	12-	14.5-	-	-	7.3-	3100-		8-	1-	6-	4-	6-	3-	3-	2-	2-	4-	2-	2-	3-	-	-	-	-	-	2.95
56-	43.3594-	108.2922-	2-	15-	0-	W07735	10/18/79	13-	14-		-C-	-	-	-	-	10-	1-	7-	4-	7-	-1-	-3-	4-	2-	2-	2-	-3-	-	-	-	-	3.31
56-	43.3586-	108.2931-	2-	15-	0-	W07736	10/18/79	13-	15-		-C-	-	-	-	-	10-	1-	7-	4-	7-	-1-	-3-	4-	2-	2-	2-	-3-	-	-	-	-	2.73
56-	43.3508-	108.3489-	2-	15-	0-	W07737	10/18/79	13-	15-		-	-	-	-	-	14-	1-	7-	4-	6-	-1-	-2-	4-	2-	2-	2-	-1-	-	-	-	-	4.32
56-	43.3547-	108.3211-	2-	15-	0-	W07738	10/18/79	14-	15-		-C-	-	-	-	-	11-	1-	6-	4-	6-	-1-	-2-	4-	2-	2-	2-	-3-	-	-	-	-	2.50
56-	43.3556-	108.3317-	2-	15-	0-	W07739	10/18/79	14-	16-		-	-	-	-	-	8-	1-	7-	4-	7-	-1-	-2-	4-	2-	2-	2-	-3-	-	-	-	-	2.31
56-	43.3428-	108.3950-	2-	12-	0-	W07740	10/18/79	16-	14-	15.0-	-	-	7.1-	2350-		8-	1-	7-	5-	7-	3-	3-	1-	3-	4-	2-	2-	2-	-3-	-	-	-	-	7.82
56-	43.6983-	108.6100-	2-	15-	0-	W07741	10/12/79	9-	13-		-	-	-	-	-	10-	1-	7-	4-	7-	-1-	-3-	4-	2-	2-	2-	-3-	-	-	-	-	4.01
56-	43.7019-	108.6269-	2-	15-	0-	W07742	10/12/79	10-	15-		-	-	-	-	-	8-	1-	7-	4-	7-	-1-	-3-	4-	2-	2-	2-	-	-	-	-	-	3.06
56-	43.6953-	108.6497-	2-	15-	0-	W07743	10/12/79	10-	14-		-	-	-	-	-	8-	1-	7-	4-	7-	-1-	-3-	4-	2-	2-	2-	-3-	-	-	-	-	2.81
56-	43.6850-	108.6606-	2-	15-	0-	W07744	10/12/79	10-	15-		-	-	-	-	-	15-	1-	4-	4-	6-	-1-	-3-	3-	2-	2-	2-	-3-	-	-	-	-	2.54
56-	43.6431-	108.6783-	2-	15-	0-	W07746	10/12/79	11-	17-		-	-	-	-	-	10-	1-	7-	4-	6-	-1-	-3-	1-	2-	3-	2-	-3-	-	-	-	-	7.10
56-	43.6408-	108.6444-	2-	15-	0-	W07747	10/12/79	11-	18-		-	-	-	-	-	7-	1-	7-	4-	6-	-1-	-3-	4-	2-	2-	2-	-3-	-	-	-	-	2.26
56-	43.6606-	108.6622-	2-	15-	0-	W07748	10/12/79	11-	18-		-C-	-	-	-	-	10-	1-	7-	4-	6-	-1-	-3-	4-	2-	2-	2-	-3-	-	-	-	-	2.86
56-	43.6264-	108.6986-	2-	12-	0-	W07749	10/12/79	12-	20-	7.0-	-	-	7.8-	60-		20-	2-	7-	4-	6-	3-	3-	1-	2-	1-	2-	3-	2-	-	-	-	-	-	25.74
56-	43.6500-	108.6922-	2-	15-	0-	W07750	10/12/79	14-	21-		-	-	-	-	-	6-	1-	4-	4-	7-	-1-	-3-	3-	2-	3-	2-	-3-	-	-	-	-	6.17
56-	43.6650-	108.7075-	2-	15-	0-	W07751	10/12/79	15-	20-		-	-	-	-	-	9-	1-	4-	4-	4-	-1-	-3-	4-	2-	2-	2-	-1-	-	-	-	-	2.16
56-	43.6944-	108.6889-	2-	15-	0-	W07752	10/12/79	16-	20-		-	-	-	-	-	15-	1-	4-	4-	4-	-1-	-3-	4-	2-	2-	2-	-1-	-	-	-	-	2.05
56-	43.6764-	108.7078-	2-	15-	0-	W07753	10/12/79	16-	21-		-C-	-	-	-	-	15-	1-	4-	4-	4-	-1-	-3-	4-	2-	2-	2-	-1-	-	-	-	-	1.98
56-	43.6759-	108.7042-	2-	15-	0-	W07754	10/12/79	16-	20-		-	-	-	-	-	9-	1-	7-	4-	4-	-1-	-3-	3-	2-	2-	2-	-1-	-	-	-	-	2.25
56-	43.6733-	108.7242-	2-	12-	0-	W07755	10/12/79	16-	20-	12.0-	-C-	-	7.6-	320-		16-	1-	4-	5-	4-	4-	3-	2-	2-	3-	3-	2-	2-	-3-	-	-	-	-	2.31
56-	43.7283-	108.7150-	2-	15-	0-	W07757	10/12/79	18-	16-		-	-	-	-	-	10-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	2-	-3-	-	-	-	-	2.68
56-	43.7319-	108.6875-	2-	15-	0-	W07758	10/12/79	18-	17-		-	-	-	-	-	12-	1-	6-	4-	6-	-1-	-3-	4-	2-	2-	2-	-3-	-	-	-	-	2.31

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.2547-108.7200-2-15-						0-W07702	-5	-5	-5	21	-20	30	-5	-10	16	2	24
56-43.2950-108.7467-2-15-						0-W07704	-5	-5	-5	15	-20	15	15	-10	-15	3	50
56-43.2942-108.7461-2-15-						0-W07705	-5	-5	-5	22	-20	15	8	-10	-15	3	40
56-43.3139-108.7403-2-15-						0-W07706	-5	-5	-5	18	-20	-15	12	-10	-15	3	49
56-43.3131-108.7403-2-15-						0-W07707	-5	-5	-5	20	-20	-15	14	-10	-15	3	35
56-43.3219-108.7292-2-15-						0-W07708	-5	-5	-5	25	-20	30	14	-10	-15	2	38
56-43.3244-108.7725-2-15-						0-W07709	-5	-5	-5	31	-20	27	14	-10	15	3	43
56-43.3231-108.7708-2-15-						0-W07710	-5	-5	-5	29	-20	36	17	-10	-15	2	43
56-43.3214-108.7694-2-15-						0-W07711	-5	-5	-5	27	-20	35	16	-10	-15	3	51
56-43.3192-108.7703-2-15-						0-W07712	-5	-5	-5	23	-20	24	13	-10	-15	3	45
56-43.3592-108.7806-2-15-						0-W07713	-5	-5	-5	13	-20	-15	8	-10	-15	2	9
56-43.3600-108.8044-2-15-						0-W07714	-5	-5	-5	20	-20	23	10	-10	-15	3	37
56-43.3747-108.8444-2-15-						0-W07715	-5	-5	-5	24	-20	16	11	-10	-15	2	22
56-43.3706-108.8414-2-15-						0-W07716	-5	-5	-5	34	-20	28	20	-10	-15	3	51
56-43.3189-108.8050-2-15-						0-W07717	-5	-5	-5	22	-20	27	24	-10	-15	3	45
56-43.3517-108.7636-2-15-						0-W07718	-5	-5	-5	20	-20	-15	11	-10	-15	2	21
56-43.3511-108.7653-2-12-						0-W07719	-5	-5	-5	23	-20	15	10	-10	-15	2	26
56-43.3508-108.7431-2-15-						0-W07720	-5	5	-5	17	-20	-15	18	-10	-15	2	40
56-43.3506-108.7375-2-15-						0-W07721	-5	-5	-5	22	-20	-15	12	-10	-15	2	34
56-43.3442-108.7217-2-15-						0-W07722	-5	-5	-5	20	-20	-15	10	-10	-15	2	25
56-43.3433-108.7217-2-15-						0-W07723	-5	-5	-5	21	-20	-15	12	-10	-15	2	31
56-43.3067-108.6489-2-15-						0-W07724	-5	-5	-5	36	-20	27	26	-10	-15	3	43
56-43.3053-108.6417-2-15-						0-W07725	-5	-5	-5	23	-20	19	17	-10	-15	3	35
56-43.2878-108.3886-2-15-						0-W07726	-5	-5	-5	24	-20	18	14	-10	-15	3	39
56-43.2875-108.3528-2-15-						0-W07727	-5	-5	-5	25	-20	-15	8	-10	-15	3	31
56-43.2794-108.3164-2-15-						0-W07728	-5	-5	-5	20	-20	-15	14	-10	-15	3	47
56-43.2689-108.2906-2-15-						0-W07729	-5	-5	-5	24	-20	26	11	-10	-15	3	29
56-43.3575-108.2719-2-15-						0-W07733	-5	-5	-5	20	-20	19	8	-10	-15	2	29
56-43.3567-108.2736-2-12-						0-W07734	-5	-5	-5	11	-20	-15	8	-10	-15	3	20
56-43.3594-108.2922-2-15-						0-W07735	-5	-5	-5	36	-20	26	15	-10	-15	3	46
56-43.3586-108.2931-2-15-						0-W07736	-5	-5	-5	25	-20	16	12	-10	-15	3	43
56-43.3509-108.3489-2-15-						0-W07737	-5	-5	-5	15	-20	18	-5	-10	-15	2	23
56-43.3547-108.3211-2-15-						0-W07738	-5	-5	-5	21	-20	-15	13	-10	-15	3	36
56-43.3556-108.3317-2-15-						0-W07739	-5	-5	-5	18	-20	-15	15	-10	-15	3	27
56-43.3428-108.3950-2-12-						0-W07740	-5	-5	-5	-10	-20	22	9	-10	-15	2	26
56-43.6983-108.6100-2-15-						0-W07741	-5	-5	-5	23	-20	-15	9	-10	16	3	25
56-43.7019-108.6269-2-15-						0-W07742	-5	-5	-5	32	-20	22	11	-10	-15	2	50
56-43.6953-108.6497-2-15-						0-W07743	-5	-5	-5	18	-20	-15	14	-10	-15	2	32
56-43.6950-108.6606-2-15-						0-W07744	-5	-5	-5	24	-20	23	15	-10	-15	2	34
56-43.6431-108.6783-2-15-						0-W07746	-5	-5	-5	36	-20	20	12	-10	-15	2	34
56-43.6408-108.6444-2-15-						0-W07747	-5	-5	-5	27	-20	23	10	-10	-15	2	29
56-43.6604-108.6622-2-15-						0-W07748	-5	-5	-5	36	-20	24	11	-10	-15	3	46
56-43.6264-108.6986-2-12-						0-W07749	-5	-5	-5	23	-20	31	13	-10	17	2	37
56-43.6500-108.6822-2-15-						0-W07750	-5	-5	-5	40	-20	-15	8	-10	-15	2	31
56-43.6650-108.7075-2-15-						0-W07751	-5	-5	-5	28	30	-15	13	-10	-15	2	44
56-43.6944-108.6889-2-15-						0-W07752	-5	-5	-5	18	-20	17	9	-10	-15	2	35
56-43.6764-108.7078-2-15-						0-W07753	-5	-5	-5	17	-20	16	11	-10	-15	2	31
56-43.6758-108.7042-2-15-						0-W07754	5	-5	-5	18	-20	16	15	-10	-15	2	46
56-43.6733-108.7242-2-12-						0-W07755	-5	-5	-5	22	-20	15	6	-10	-15	2	58
56-43.7283-108.7150-2-15-						0-W07757	-5	-5	-5	16	-20	-15	10	-10	-15	2	18
56-43.7319-108.6875-2-15-						0-W07758	-5	-5	-5	32	-20	20	19	-10	-15	2	17

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.2547-	108.7200-	2-	15-	0-	W07702	52500	-0.08	610	18610	99	66	6.6	54	3.7	6	1.5	18990	15.4	19940	46	0.5
56-	43.2950-	108.7467-	2-	15-	0-	W07704	59150	-0.07	667	22050	72	-77	7.6	64	4.6	5	1.4	22280	9.2	18200	38	0.3
56-	43.2942-	108.7461-	2-	15-	0-	W07705	59760	-0.07	684	21000	75	-78	5.7	46	3.5	5	1.3	18740	9.9	19480	41	0.4
56-	43.3139-	108.7403-	2-	15-	0-	W07706	60700	-0.07	560	23210	68	-72	8.8	62	3.9	3	1.2	22230	6.9	19390	29	0.3
56-	43.3131-	108.7403-	2-	15-	0-	W07707	62750	-0.07	674	26040	69	-77	7.4	56	2.7	3	1.2	17650	7.1	16330	40	0.3
56-	43.3219-	108.7292-	2-	15-	0-	W07708	57510	-0.08	704	31860	66	-75	6.6	54	5.5	4	1.2	22080	6.8	18210	40	0.3
56-	43.3244-	108.7725-	2-	15-	0-	W07709	69840	-0.08	622	28710	50	-78	10.4	82	4.6	3	1.0	25150	4.1	22480	33	0.2
56-	43.3231-	108.7708-	2-	15-	0-	W07710	68370	-0.08	712	28010	54	-77	10.9	81	4.5	3	1.1	26430	4.9	15670	38	0.3
56-	43.3214-	108.7694-	2-	15-	0-	W07711	68850	-0.09	598	28260	56	-73	8.9	80	4.7	3	1.3	25660	4.3	15500	24	0.2
56-	43.3128-	108.7753-	2-	15-	0-	W07712	63990	-0.07	582	22040	67	-82	6.5	61	5.6	4	1.3	24120	7.3	20510	36	0.3
56-	43.3592-	108.7806-	2-	15-	0-	W07713	24900	-0.04	274	16740	31	53	2.8	22	1.8	2	0.8	8008	5.1	9737	17	0.2
56-	43.3600-	108.8044-	2-	15-	0-	W07714	57470	-0.06	585	24150	56	-74	9.6	56	2.7	4	1.2	20460	8.7	17820	37	0.3
56-	43.3747-	108.8444-	2-	15-	0-	W07715	40150	-0.07	540	30120	46	-47	3.8	37	3.2	4	1.2	11910	7.2	16620	19	0.3
56-	43.3906-	108.8414-	2-	15-	0-	W07716	71210	-0.08	677	20670	60	-91	10.3	82	4.7	4	1.3	27900	4.3	24770	31	0.3
56-	43.3189-	108.8050-	2-	15-	0-	W07717	68450	-0.07	687	13280	54	-81	8.3	59	4.1	3	1.2	21650	5.9	21960	33	0.3
56-	43.3517-	108.7639-	2-	15-	0-	W07718	41720	-0.06	425	17090	42	-45	4.5	35	2.7	4	1.1	14170	7.6	13120	26	0.3
56-	43.3511-	108.7653-	2-	12-	0-	W07719	42660	-0.07	628	40110	54	-61	4.3	35	2.9	3	1.3	12970	10.0	13110	26	0.3
56-	43.3508-	108.7431-	2-	15-	0-	W07720	59060	-0.06	635	25580	45	-81	5.7	50	1.9	3	1.3	17470	7.9	15650	28	0.2
56-	43.3504-	108.7375-	2-	15-	0-	W07721	52080	-0.06	680	20160	59	-66	7.8	62	2.3	4	1.3	20520	9.6	14070	31	0.3
56-	43.3442-	108.7217-	2-	15-	0-	W07722	47630	-0.06	598	22550	50	-68	2.9	26	1.7	3	1.1	11130	7.1	17680	26	0.3
56-	43.3433-	108.7217-	2-	15-	0-	W07723	53880	-0.06	617	25390	52	-74	5.6	49	3.2	3	1.2	17730	7.9	16190	30	0.3
56-	43.3067-	108.6489-	2-	15-	0-	W07724	66800	-0.08	398	30030	49	-65	8.7	63	6.2	3	1.2	25030	4.8	27380	28	0.3
56-	43.3053-	108.6417-	2-	15-	0-	W07725	58630	-0.08	602	30200	57	-66	10.4	66	5.4	4	1.2	24450	6.7	22260	29	0.2
56-	43.2878-	108.3886-	2-	15-	0-	W07726	52060	-0.07	617	27720	60	-68	6.1	48	3.1	4	1.3	17840	7.5	18440	31	0.4
56-	43.2875-	108.3528-	2-	15-	0-	W07727	61680	-0.07	680	24990	85	-77	4.7	55	3.2	5	1.5	19090	13.0	15970	50	0.4
56-	43.2794-	108.3164-	2-	15-	0-	W07728	53670	-0.06	535	28210	62	3092	4.5	46	3.2	3	1.4	16990	8.6	18710	37	0.3
56-	43.2689-	108.2906-	2-	15-	0-	W07729	55160	-0.06	583	20890	84	-75	6.7	47	2.9	4	1.3	19770	10.3	16810	47	0.3
56-	43.3575-	108.2719-	2-	15-	0-	W07733	50230	-0.06	816	30020	63	-69	4.2	38	2.4	3	1.6	12550	5.3	18280	33	0.3
56-	43.3567-	108.2736-	2-	12-	0-	W07734	52910	-0.05	811	47300	51	-87	4.4	33	2.1	3	1.3	15360	5.6	18020	26	0.2
56-	43.3594-	108.2922-	2-	15-	0-	W07735	71310	-0.08	544	34550	54	-75	8.6	63	5.2	3	1.2	24930	4.6	20320	31	0.2
56-	43.3586-	108.2931-	2-	15-	0-	W07736	61430	-0.07	675	32710	60	-63	8.8	51	4.5	3	1.2	21290	5.4	19310	35	0.3
56-	43.3508-	108.3489-	2-	15-	0-	W07737	43980	-0.06	910	18690	100	-63	4.4	51	2.3	5	1.3	15820	10.0	16650	50	0.6
56-	43.3547-	108.3211-	2-	15-	0-	W07738	60660	-0.06	591	26540	56	-83	4.3	40	3.3	4	1.2	16190	5.4	17510	25	0.2
56-	43.3556-	108.3317-	2-	15-	0-	W07739	53690	-0.06	624	28990	52	-76	4.0	30	2.6	3	0.9	13760	6.0	19000	24	0.2
56-	43.3428-	108.3550-	2-	12-	0-	W07740	45140	-0.08	1691	33370	232	-80	7.9	89	2.9	10	2.2	32420	43.5	15490	139	1.1
56-	43.6983-	108.6100-	2-	15-	0-	W07741	54100	-0.07	731	13820	73	-56	3.0	26	3.4	5	1.1	14080	8.1	18460	37	0.4
56-	43.7019-	108.6269-	2-	15-	0-	W07742	54020	-0.08	718	17380	62	-62	8.7	71	4.9	4	1.3	22940	7.8	16940	30	0.3
56-	43.6953-	108.6497-	2-	15-	0-	W07743	52700	-0.07	520	25950	50	-67	6.7	50	2.6	4	1.2	18620	8.0	17680	25	0.3
56-	43.6850-	108.6606-	2-	15-	0-	W07744	48360	-0.07	499	40850	58	-70	8.5	64	3.9	3	1.4	21730	8.6	17490	28	0.4
56-	43.6431-	108.6783-	2-	15-	0-	W07746	54270	-0.10	682	24130	95	170	10.7	70	2.5	6	1.5	26850	18.3	18500	44	0.5
56-	43.6408-	108.6444-	2-	15-	0-	W07747	52400	-0.07	498	34570	58	-75	6.1	61	3.2	4	1.1	21600	8.7	20900	28	0.3
56-	43.6606-	108.6622-	2-	15-	0-	W07748	57020	-0.08	511	32290	63	-77	8.0	84	3.3	4	1.3	22790	8.4	22050	31	0.3
56-	43.6264-	108.6986-	2-	12-	0-	W07749	63060	-0.09	649	10250	112	155	15.0	80	3.1	6	1.5	32820	14.9	18280	68	0.7
56-	43.6590-	108.6622-	2-	15-	0-	W07750	55480	-0.11	483	29510	67	113	12.5	79	2.7	4	1.2	28700	8.4	15220	35	0.3
56-	43.6650-	108.7075-	2-	15-	0-	W07751	46030	-0.07	397	33500	54	-79	6.2	53	3.5	5	1.0	19030	10.4	18280	26	0.4
56-	43.6944-	108.6889-	2-	15-	0-	W07752	41440	-0.06	255	40240	42	-69	4.6	37	2.3	4	1.0	15250	10.8	16630	26	0.3
56-	43.6764-	108.7078-	2-	15-	0-	W07753	39880	-0.06	351	33300	39	-64	6.5	46	2.8	4	0.9	15770	10.3	15690	21	0.4
56-	43.6758-	108.7042-	2-	15-	0-	W07754	46290	-0.08	461	50920	57	-68	7.2	55	3.2	4	1.5	17720	9.3	17410	23	0.4
56-	43.6733-	108.7242-	2-	12-	0-	W07755	51660	-0.08	372	40720	44	-90	5.1	54	3.7	4	1.7	19050	9.5	21280	27	0.4
56-	43.7283-	108.7150-	2-	15-	0-	W07757	35100	-0.05	644	44310	40	65	2.2	25	2.4	3	0.9	11670	9.3	14480	23	0.2
56-	43.7319-	108.6875-	2-	15-	0-	W07758	32170	-0.05	437	47720	35	74	3.4	34	2.7	3	0.9	13040	5.8	14170	23	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.2547-108.7206-2-15-						0-W07702	15360	378	8265	65	-2	6.0	7.4	-218	-1	-1	14.2	3430	46	4.8	-14	0.253
56-43.2650-108.7447-2-15-						0-W07704	18700	423	9570	82	-2	7.3	5.9	-261	-1	-1	13.4	3022	45	2.4	84	0.238
56-43.2942-108.7461-2-15-						0-W07705	14580	427	11960	80	-2	6.9	5.2	-240	-1	-1	13.7	3129	48	3.6	80	0.290
56-43.3130-108.7403-2-15-						0-W07706	22830	427	11370	83	-2	7.3	4.6	273	-1	-1	11.4	2655	49	2.4	88	0.240
56-43.3131-108.7403-2-15-						0-W07707	18220	425	14850	50	-2	6.2	5.6	-227	-1	-1	12.0	2282	49	2.8	-33	0.230
56-43.3219-108.7292-2-15-						0-W07708	19550	474	7005	92	-2	7.0	5.6	-286	-1	-1	10.3	2732	52	3.3	73	0.254
56-43.3244-108.7725-2-15-						0-W07709	32350	494	9117	70	-2	8.3	3.4	-266	-1	-1	11.6	2608	61	2.7	66	0.246
56-43.3221-108.7708-2-15-						0-W07710	20230	464	10210	69	-2	9.2	4.2	-259	-1	-1	10.9	2978	57	2.2	-76	0.267
56-43.3214-108.7694-2-15-						0-W07711	22310	465	9806	-32	-2	8.7	4.5	-252	-1	-1	11.8	3086	63	3.6	85	0.242
56-43.3129-108.7783-2-15-						0-W07712	18650	433	10550	64	-2	7.4	4.6	-277	-1	-1	11.5	3205	57	3.4	73	0.288
56-43.3502-108.7906-2-15-						0-W07713	11610	101	954	25	-1	2.6	2.2	-138	-1		4.5	1338	37	1.8	53	0.429
56-43.3600-108.8044-2-15-						0-W07714	19980	394	11740	63	-2	6.7	4.5	-236	-1	-1	11.0	2822	51	2.6	-76	0.243
56-43.3747-108.8444-2-15-						0-W07715	10590	276	3306	-26	-2	4.6	2.9	-188	-1	-1	8.6	1975	59	2.2	72	0.316
56-43.3306-108.8414-2-15-						0-W07716	21370	538	9935	64	-2	9.2	4.7	-226	-1	-1	11.2	3758	63	-2.1	92	0.249
56-43.3189-108.8050-2-15-						0-W07717	22300	502	12850	85	-2	6.9	4.9	-260	-1	-1	11.1	3086	58	2.0	-62	0.249
56-43.3517-108.7639-2-15-						0-W07718	13760	245	3829	58	-1	5.1	4.4	-169	-1	-1	6.9	2366	47	2.2	85	0.387
56-43.3511-108.7653-2-12-						0-W07719	14440	476	5935	-25	-2	4.4	5.1	-230	-1	-1	8.1	2278	45	2.3	85	0.341
56-43.3508-108.7431-2-15-						0-W07720	22360	269	11800	57	-1	5.6	4.1	-252	-1	-1	8.1	2304	40	2.2	63	0.331
56-43.3506-108.7375-2-15-						0-W07721	21090	352	10200	41	-2	6.6	4.2	-212	-1	-1	9.0	2738	51	2.7	-77	0.298
56-43.3442-108.7217-2-15-						0-W07722	12100	250	11950	-23	-1	3.6	3.6	-192	-1	-1	6.3	1967	28	2.2	-29	0.294
56-43.3433-108.7217-2-15-						0-W07723	16090	374	8376	59	-2	5.7	4.0	-248	-1	-1	8.8	2467	48	2.1	59	0.294
56-43.3067-108.6489-2-15-						0-W07724	27330	464	5506	63	-2	7.7	3.8	-249	-1	-1	10.8	2956	65	-1.6	-95	0.235
56-43.3053-108.6417-2-15-						0-W07725	23570	452	6630	79	-2	7.7	4.6	-247	-1	-1	10.2	3044	62	2.7	87	0.254
56-43.2978-108.3686-2-15-						0-W07726	16790	385	9680	55	-2	5.7	5.6	-222	-1	-1	9.6	2991	47	2.9	-36	0.255
56-43.2875-108.2628-2-15-						0-W07727	11820	413	9010	63	-2	6.1	5.5	-253	-1	-1	12.7	3039	45	3.9	32	0.258
56-43.2794-108.3164-2-15-						0-W07728	17250	382	13740	53	-2	5.4	4.1	-241	-1	-1	9.5	2742	81	2.7	-19	0.341
56-43.2689-108.2906-2-15-						0-W07729	15000	388	12520	72	-2	6.3	5.2	-226	-1	-1	11.8	2798	45	3.5	68	0.228
56-43.3575-108.2719-2-15-						0-W07733	11930	316	11680	43	-2	4.4	4.2	275	-1	-1	8.3	1988	35	2.8	30	0.276
56-43.3547-108.2736-2-12-						0-W07734	17450	451	13970	54	-1	4.7	4.8	320	-1	-1	6.7	1765	33	2.1	42	0.440
56-43.3594-108.2922-2-15-						0-W07735	27940	461	8256	97	-2	7.5	4.9	-267	-1	-1	10.7	2920	62	2.8	60	0.309
56-43.3586-108.2931-2-15-						0-W07736	19150	410	12140	56	-2	6.2	4.7	-255	-1	-1	9.3	2925	48	-1.6	-91	0.294
56-43.3598-108.3489-2-15-						0-W07737	11900	354	9759	-22	-2	4.7	7.0	-190	-1	-1	17.4	3071	37	4.7	-17	0.248
56-43.3547-108.3211-2-15-						0-W07738	16620	334	11510	62	-2	5.2	3.5	-256	-1	-1	8.6	1992	38	2.3	26	0.291
56-43.3556-108.3317-2-15-						0-W07739	14590	346	11620	47	-1	4.3	3.2	-216	-1	-1	7.6	2182	35	2.7	-52	0.304
56-43.3428-108.3650-2-12-						0-W07740	14330	799	8770	64	-2	9.4	14.1	-311	-2	1	46.1	4637	59	9.0	86	0.170
56-43.6983-108.6100-2-15-						0-W07741	10070	256	7354	65	-2	4.5	5.6	-184	-1	-1	12.8	2647	43	2.9	79	0.313
56-43.7019-108.6269-2-15-						0-W07742	15900	326	5029	58	-2	8.6	4.1	-237	-1	-1	8.6	3793	139	2.9	60	0.356
56-43.6953-108.6497-2-15-						0-W07743	23390	360	7001	61	-2	6.5	3.5	-220	-1	-1	6.8	3150	78	3.3	87	0.413
56-43.6850-108.6606-2-15-						0-W07744	38720	530	8600	45	-2	7.5	4.6	-263	-1	-1	7.1	3465	57	2.7	99	0.358
56-43.6431-108.6783-2-15-						0-W07746	25660	623	9241	-36	-2	9.6	7.3	-280	-2	-1	19.8	4575	71	7.1	-48	0.359
56-43.6408-108.6444-2-15-						0-W07747	21030	501	6903	56	-2	7.4	5.0	-281	-1	-1	9.7	3264	59	2.6	57	0.233
56-43.6606-108.6622-2-15-						0-W07748	23810	644	8250	44	-2	7.8	4.8	-281	-1	-1	9.4	3522	73	2.9	132	0.304
56-43.6244-108.6986-2-12-						0-W07749	10730	848	15120	62	-2	13.5	12.9	-343	-2	-1	35.4	4785	92	5.3	-46	0.727
56-43.6500-108.6922-2-15-						0-W07750	27090	941	10530	-37	-3	10.3	4.5	-361	-1	-1	13.0	3962	80	-2.6	-53	0.475
56-43.6550-108.7075-2-15-						0-W07751	29460	302	10540	59	-2	7.1	4.9	-260	-1	-1	8.7	3579	53	3.6	50	0.248
56-43.6944-108.6889-2-15-						0-W07752	26820	369	9914	47	-1	5.4	4.4	-209	-1	-1	6.8	3031	44	3.0	23	0.301
56-43.6764-108.7078-2-15-						0-W07753	28050	351	10110	54	-1	5.7	4.4	-205	-1	-1	6.5	2877	40	2.5	49	0.305
56-43.6758-108.7042-2-15-						0-W07754	35710	461	7831	59	-2	6.9	5.1	-232	-1	-1	7.6	3379	53	3.0	57	0.296
56-43.6733-108.7242-2-12-						0-W07755	33600	357	10950	55	-2	7.0	5.0	-283	-1	-1	9.1	4101	47	2.9	-19	0.254
56-43.7283-108.7150-2-15-						0-W07757	33270	184	2484	-19	-1	3.7	2.8	200	-1	-1	6.1	1711	56	2.1	-36	0.439
56-43.7319-108.6875-2-15-						0-W07758	52850	196	1096	32	-1	4.5	3.2	-156	-1	-1	5.8	2072	61	2.2	80	0.398

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.6697-108.7642-2-15-						0-W07759-10/12/79-18-			13-		-	-	-	-	-	10-1-4-4-4-	-1-	-3-1-2-3-2-	-3-	-	-	-	-										2.46
56-43.6703-108.7800-2-15-						0-W07760-10/12/79-19-			13-		-	-	-	-	-	10-1-4-4-4-	-1-	-3-4-2-3-2-	-3-	-	-	-	-										2.26
56-43.6683-108.7775-2-15-						0-W07761-10/12/79-19-			13-		-	-	-	-	-	8-1-4-4-4-	-1-	-3-4-2-3-2-	-3-	-	-	-	-										2.45
56-43.6514-108.7928-2-15-						0-W07762-10/13/79- 9-			14-		-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-3-2-	-3-	-	-	-	-										3.71
56-43.7006-108.7786-2-15-						0-W07763-10/13/79-10-			17-		-	-	-	-	-	12-1-7-4-4-	-1-	-3-4-2-2-2-	-	-	-	-	-										1.67
56-43.7042-108.7961-2-15-						0-W07764-10/13/79-10-			17-		-	-	-	-	-	8-1-7-5-7-	-1-	-2-4-3-2-1-	-3-	-	-	-	-										2.40
56-43.6878-108.4625-2-15-						0-W07769-10/13/79-12-			21-		-	-	-	-	-	16-1-7-4-7-	-1-	-3-3-2-2-1-	-3-	-	-	-	-										4.29
56-43.6767-108.4219-2-15-						0-W07770-10/13/79-13-			22-		-	-	-	-	-	10-1-7-4-7-	-1-	-3-4-2-2-1-	-3-	-	-	-	-										2.68
56-43.7264-108.4475-2-15-						0-W07772-10/13/79-14-			23-		-	-	-	-	-	12-1-6-4-6-	-1-	-3-4-2-2-1-	-1-	-	-	-	-										2.53
56-43.7414-108.4291-2-15-						0-W07773-10/13/79-14-			25-		-C-	-	-	-	-	9-1-6-4-6-	-1-	-3-3-2-2-1-	-3-	-	-	-	-										2.50
56-43.2767-108.4661-2-15-						0-W07774-10/15/79-12-			18-		-C-	-	-	-	-	8-1-6-4-6-	-	- -3-4-3-2-3-	-3-	-	-	-	-										3.15
56-43.2844-108.5008-2-15-						0-W07777-10/15/79-14-			18-		-	-	-	-	-	10-1-6-4-7-	-1-	-3-4-2-2-3-	-3-	-	-	-	-										4.44
56-43.2833-108.4994-2-15-						0-W07778-10/15/79-14-			18-		-C-	-	-	-	-	8-1-6-4-6-	-1-	-3-4-2-2-3-	-3-	-	-	-	-										3.06
56-43.3453-108.4983-2-15-						0-W07782-10/15/79-14-			18-		-	-	-	-	-	14-1-7-4-7-	-1-	-3-4-2-2-3-	-1-	-	-	-	-										2.90
56-43.3442-108.4975-2-12-						0-W07783-10/15/79-15-			18-	13.5	-C-	-	7.4	30000	-	10-1-6-4-6-3-4-1-3-4-2-2-3-			-9-	-	-	-	-										3.58
56-43.3464-108.5128-2-15-						0-W07784-10/15/79-15-			18-		-	-	-	-	-	8-1-7-4-7-	-1-	-3-4-2-2-3-	-1-	-	-	-	-										2.67
56-43.3450-108.5164-2-12-						0-W07785-10/15/79-15-			18-		-	-	-	28500	-	4-1-6-4-6-3-3-1-2-4-2-2-3-			-9-	-	-	-	-										3.03
56-43.3692-108.4400-2-15-						0-W07787-10/15/79-17-			17-		-	-	-	-	-	8-1-6-4-6-	-1-	-3-4-2-2-2-	-1-	-	-	-	-										2.91
56-43.3692-108.4319-2-15-						0-W07788-10/15/79-17-			16-		-	-	-	-	-	9-1-7-4-6-	-1-	-3-4-2-2-2-	-3-	-	-	-	-										2.92
56-43.3294-108.4364-2-12-						0-W07789-10/15/79-17-			15-	12.5	-	-	7.7	1550	-	10-1-7-4-6-3-3-1-3-4-2-2-2-			-9-	-	-	-	-										2.77
56-43.3269-108.4475-2-15-						0-W07790-10/15/79-18-			15-		-C-	-	-	-	-	8-1-7-4-7-	-1-	-3-3-2-1-2-	-9-	-	-	-	-										8.15
56-43.2078-108.1517-2-15-						0-W07791-10/14/79-10-			24-		-	-	-	-	-	31-1-6-4-6-	-1-	-2-3-1-2-2-	-3-	-	-	-	-										4.71
56-43.2050-108.1542-2-15-						0-W07792-10/14/79-10-			24-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-1-2-2-	-3-	-	-	-	-										2.81
56-43.1909-108.1633-2-15-						0-W07793-10/14/79-11-			26-		-	-	-	-	-	14-1-6-4-6-	-1-	-2-3-2-2-2-	-3-	-	-	-	-										2.77
56-43.1814-108.1664-2-15-						0-W07794-10/14/79-11-			26-		-	-	-	-	-	12-1-1-4-1-	-1-	-2-3-1-2-2-	-3-	-	-	-	-										2.73
56-43.1419-108.1817-2-15-						0-W07795-10/14/79-11-			26-		-	-	-	-	-	41-1-6-5-6-	-1-	-2-4-2-2-3-	-3-	-	-	-	-										3.21
56-43.1478-108.1497-2-15-						0-W07796-10/14/79-12-			26-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-4-2-2-3-	-3-	-	-	-	-										4.15
56-43.1442-108.1281-2-15-						0-W07797-10/14/79-12-			26-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-2-3-	-3-	-	-	-	-										3.91
56-43.1436-108.1600-2-15-						0-W07798-10/14/79-13-			26-		-	-	-	-	-	12-1-6-5-1-	-1-	-2-3-2-2-3-	-3-	-	-	-	-										3.39
56-43.1131-108.2344-2-15-						0-W07800-10/14/79-13-			28-		-	-	-	-	-	16-1-6-4-6-	-1-	-2-3-1-2-3-	-3-	-	-	-	-										4.24
56-43.1142-108.2078-2-15-						0-W07802-10/14/79-14-			28-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-1-2-3-	-3-	-	-	-	-										4.44
56-43.0992-108.1923-2-99-						0-W07803-10/14/79-14-			28-		-C-	-	-	-	-	12-1-6-5-6-	-1-	- -3-2-2-2-	-3-	-	-	-	-										5.31
56-43.1214-108.1889-2-15-						0-W07804-10/14/79-14-			28-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-2-2-3-	-3-	-	-	-	-										3.98
56-43.0703-108.1747-2-99-						0-W07807-10/14/79-16-			26-		-C-	-	-	-	-	12-1-6-5-6-	-1-	- -3-2-2-2-	-3-	-	-	-	-										3.89
56-43.0250-108.1961-2-15-						0-W07808-10/14/79-16-			28-		-	-	-	-	-	14-1-6-5-1-	-1-	-2-3-2-2-2-	-1-	-	-	-	-										4.18
56-43.0719-108.1933-2-15-						0-W07809-10/14/79-17-			28-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-3-2-3-2-	-3-	-	-	-	-										3.98
56-43.0709-108.1942-2-15-						0-W07810-10/14/79-17-			28-		-	-	-	-	-	8-1-6-4-6-	-1-	-2-3-2-3-2-	-3-	-	-	-	-										4.01
56-43.0758-108.2094-2-15-						0-W07811-10/14/79-18-			26-		-	-	-	-	-	22-1-6-4-6-	-1-	-2-3-2-2-3-	-3-	-	-	-	-										4.49
56-43.1322-108.2242-2-15-						0-W07812-10/15/79-11-			24-		-	-	-	-	-	12-1-6-4-6-	-1-	-2-2-2-2-3-	-3-	-	-	-	-										3.39
56-43.1494-108.2161-2-15-						0-W07813-10/15/79-12-			24-		-	-	-	-	-	10-1-6-4-6-	-1-	-2-3-2-2-3-	-3-	-	-	-	-										3.25
56-43.1639-108.2169-2-15-						0-W07814-10/15/79-12-			24-		-	-	-	-	-	8-1-6-4-7-	-1-	-2-2-1-2-3-	-3-	-	-	-	-										2.88
56-43.1792-108.2086-2-15-						0-W07815-10/15/79-12-			24-		-	-	-	-	-	8-1-6-5-7-	-1-	-2-3-2-2-3-	-3-	-	-	-	-										2.97
56-43.2281-108.2178-2-15-						0-W07818-10/15/79-13-			24-		-	-	-	-	-	14-1-6-5-6-	-1-	-2-3-2-2-3-	-3-	-	-	-	-										2.65
56-43.2344-108.2156-2-15-						0-W07819-10/15/79-13-			25-		-	-	-	-	-	10-1-6-5-6-	-1-	-2-3-2-2-3-	-3-	-	-	-	-										2.69
56-43.2364-108.2489-2-15-						0-W07820-10/15/79-13-			25-		-	-	-	-	-	8-1-6-4-6-	-1-	-2-3-2-2-3-	-3-	-	-	-	-										3.06
56-43.2503-108.1925-2-15-						0-W07821-10/15/79-14-			25-		-	-	-	-	-	12-1-6-4-7-	-1-	-2-3-2-2-3-	-1-	-	-	-	-										2.66
56-43.2656-108.1967-2-15-						0-W07822-10/15/79-14-			25-		-	-	-	-	-	8-1-6-4-7-	-1-	-2-3-2-2-3-	-1-	-	-	-	-										2.81
56-43.2817-108.2256-2-15-						0-W07823-10/15/79-14-			25-		-	-	-	-	-	16-1-6-5-1-	-1-	-1-3-2-2-3-	-1-	-	-	-	-										3.12
56-43.2836-108.1275-2-15-						0-W07824-10/15/79-15-			25-		-	-	-	-	-	8-1-6-4-6-	-1-	-2-3-2-2-3-	-1-	-	-	-	-										3.81
56-43.3500-108.1292-2-15-						0-W07825-10/15/79-15-			25-		-	-	-	-	-	14-1-6-5-6-	-1-	-2-3-2-2-3-	-1-	-	-	-	-										3.58
56-43.3439-108.1353-2-15-						0-W07826-10/15/79-15-			25-		-	-	-	-	-	14-4-6-5-6-	-1-	-2-3-1-2-3-	-1-	-	-	-	-										2.97

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.6697-108.7642-2-15-						0-W07759	-5	-5	-5	15	-20	27	-5	10	-15	2	41
56-43.6702-108.7800-2-15-						0-W07760	-5	-5	-5	30	-20	17	5	-10	26	2	34
56-43.6683-108.7775-2-15-						0-W07761	-5	-5	-5	27	-20	26	11	-10	-15	2	42
56-43.6514-108.7928-2-15-						0-W07762	-5	-5	-5	37	-20	34	24	-10	-15	2	41
56-43.7006-108.7786-2-15-						0-W07763	-5	-5	-5	26	-20	29	21	-10	-15	2	25
56-43.7042-108.7961-2-15-						0-W07764	-5	-5	-5	51	-20	32	18	-10	-15	2	35
56-43.6878-108.4625-2-15-						0-W07769	-5	6	-5	-10	-20	-15	15	-10	-15	3	33
56-43.6767-108.4319-2-15-						0-W07770	5	7	-5	30	-20	32	17	-10	-15	2	27
56-43.7264-108.4475-2-15-						0-W07772	-5	-5	-5	20	-20	-15	19	-10	-15	2	27
56-43.7414-108.4231-2-15-						0-W07773	-5	-5	-5	13	-20	-15	7	-10	-15	2	8
56-43.2757-108.4661-2-15-						0-W07774	-5	-5	-5	21	-20	-15	13	-10	-15	2	25
56-43.2844-108.5008-2-15-						0-W07777	-5	-5	-5	23	-20	22	18	-10	-15	2	30
56-43.2833-108.4994-2-15-						0-W07779	-5	-5	-5	21	-20	-15	8	-10	-15	2	24
56-43.3453-108.4983-2-15-						0-W07782	-5	-5	-5	30	-20	16	6	-10	-15	3	29
56-43.3442-108.4975-2-12-						0-W07783	-5	7	-5	21	-20	19	10	-10	-15	3	41
56-43.3464-108.5128-2-15-						0-W07784	-5	-5	-5	13	-20	-15	-5	-10	-15	2	22
56-43.3450-108.5164-2-12-						0-W07785	-5	-5	-5	14	-20	-15	8	-10	-15	2	18
56-43.3692-108.4400-2-15-						0-W07787	-5	-5	-5	20	-20	-15	10	-10	-15	2	31
56-43.3692-108.4319-2-15-						0-W07788	-5	5	-5	21	-20	19	10	-10	-15	3	40
56-43.3294-108.4364-2-12-						0-W07789	-5	-5	-5	15	-20	-15	8	-10	-15	3	27
56-43.3269-108.4475-2-15-						0-W07790	-5	-5	-5	20	-20	-15	7	-10	-15	2	53
56-43.2078-108.1517-2-15-						0-W07791	-5	5	-5	17	-20	24	13	-10	-15	3	42
56-43.2050-108.1542-2-15-						0-W07792	-5	-5	-5	10	-20	-15	11	-10	-15	3	40
56-43.1908-108.1633-2-15-						0-W07793	-5	-5	-5	23	-20	28	9	-10	-15	3	41
56-43.1914-108.1664-2-15-						0-W07794	-5	-5	-5	25	-20	35	9	-10	-15	2	48
56-43.1419-108.1817-2-15-						0-W07795	-5	5	-5	27	-20	21	9	-10	-15	2	45
56-43.1478-108.1497-2-15-						0-W07796	-5	-5	-5	25	-20	-15	9	-10	-15	2	33
56-43.1442-108.1281-2-15-						0-W07797	-5	-5	-5	19	-20	-15	7	-10	-15	2	26
56-43.1436-108.1600-2-15-						0-W07798	-5	-5	-5	23	-20	27	10	-10	-15	3	39
56-43.1131-108.2344-2-15-						0-W07800	-5	-5	-5	22	-20	15	11	-10	-15	2	33
56-43.1142-108.2078-2-15-						0-W07802	-5	6	-5	23	-20	16	8	-10	-15	2	40
56-43.0992-108.1933-2-99-						0-W07803	-5	-5	-5	21	-20	-15	8	-10	-15	2	37
56-43.1214-108.1889-2-15-						0-W07804	-5	-5	-5	-10	-20	21	9	-10	-15	3	25
56-43.0703-108.1747-2-99-						0-W07807	-5	5	-5	12	-20	-15	10	-10	-15	2	26
56-43.0250-108.1961-2-15-						0-W07808	-5	-5	-5	23	-20	16	9	-10	-15	2	29
56-43.0719-108.1933-2-15-						0-W07809	-5	-5	-5	16	-20	15	5	-10	-15	3	22
56-43.0708-108.1942-2-15-						0-W07810	-5	-5	-5	13	-20	-15	6	-10	-15	2	22
56-43.0758-108.2094-2-15-						0-W07811	-5	-5	-5	14	-20	15	9	-10	-15	2	22
56-43.1322-108.2242-2-15-						0-W07812	-5	-5	-5	-10	-20	-15	8	-10	-15	2	27
56-43.1494-108.2161-2-15-						0-W07813	-5	6	-5	20	-20	17	11	-10	-15	2	44
56-43.1639-108.2169-2-15-						0-W07814	-5	-5	-5	18	-20	24	13	-10	-15	2	38
56-43.1792-108.2086-2-15-						0-W07815	-5	-5	-5	16	-20	19	9	-10	-15	3	39
56-43.2281-108.2178-2-15-						0-W07818	-5	-5	-5	10	-20	17	12	-10	-15	3	39
56-43.2344-108.2156-2-15-						0-W07819	-5	-5	-5	15	-20	16	9	-10	-15	2	45
56-43.2364-108.2489-2-15-						0-W07820	-5	-5	-5	18	-20	16	9	-10	-15	3	35
56-43.2503-108.1925-2-15-						0-W07821	-5	-5	-5	18	-20	-15	12	-10	-15	3	37
56-43.2656-108.1967-2-15-						0-W07822	-5	-5	-5	20	-20	15	9	-10	-15	3	50
56-43.2817-108.2256-2-15-						0-W07823	-5	-5	-5	16	-20	-15	11	-10	-15	3	45
56-43.2836-108.1275-2-15-						0-W07824	-5	-5	-5	10	-20	-15	10	-10	-15	2	44
56-43.3500-108.1292-2-15-						0-W07825	-5	-5	-5	13	-20	-15	12	-10	-15	2	34
56-43.3439-108.1353-2-15-						0-W07826	-5	-5	-5	14	-20	-15	11	-10	-15	2	29

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.6697-	108.7642-	2-	15-	0-	W07758	43400	-0.07	333	32870	61	-66	6.1	52	2.6	4	1.2	17000	16.1	19320	26	0.4
56-	43.6703-	108.7800-	2-	15-	0-	W07760	44070	-0.06	356	46550	46	-77	6.5	53	2.5	4	1.2	18410	10.2	16090	25	0.4
56-	43.6683-	108.7775-	2-	15-	0-	W07761	56520	-0.07	550	30030	60	-81	7.5	68	3.1	4	1.2	20890	8.8	21740	29	0.3
56-	43.6514-	108.7928-	2-	15-	0-	W07762	50940	-0.08	674	26050	81	-65	10.3	60	3.5	5	1.5	29200	9.4	31540	35	0.4
56-	43.7006-	108.7786-	2-	15-	0-	W07763	41240	-0.07	340	63600	39	-60	4.8	33	1.7	3	1.1	13590	7.0	18430	20	0.2
56-	43.7042-	108.7661-	2-	15-	0-	W07764	77600	-0.10	1100	24850	65	-98	15.0	72	-2.1	4	1.3	36810	5.0	18530	39	-0.1
56-	43.6878-	108.4625-	2-	15-	0-	W07768	63860	-0.08	599	13100	68	-73	7.5	37	5.1	4	1.3	20470	6.0	19860	34	0.3
56-	43.6767-	108.4319-	2-	15-	0-	W07770	67620	-0.09	1126	34260	81	130	11.7	114	-2.0	4	1.6	31100	10.5	21160	41	0.3
56-	43.7264-	108.4475-	2-	15-	0-	W07772	44390	-0.06	506	37250	59	90	4.1	38	3.4	4	1.4	20190	6.6	16620	33	0.3
56-	43.7614-	108.4231-	2-	15-	0-	W07773	25660	-0.05	526	22420	35	51	2.8	27	1.6	3	1.1	9696	12.6	10980	22	0.2
56-	43.2767-	108.4661-	2-	15-	0-	W07774	51530	-0.06	604	28270	63	-80	5.5	43	3.0	4	1.3	17240	7.6	20390	36	0.3
56-	43.2844-	108.5008-	2-	15-	0-	W07777	51250	-0.08	671	39130	64	118	4.8	55	3.3	4	1.3	19850	9.0	17800	30	0.4
56-	43.2833-	108.4954-	2-	15-	0-	W07779	50150	-0.06	705	22840	63	-69	4.1	40	2.8	4	1.4	17580	9.1	19220	38	0.4
56-	43.3453-	108.4983-	2-	15-	0-	W07782	60170	-0.06	567	27410	64	-78	6.9	47	2.5	3	1.3	18780	8.8	16070	35	0.3
56-	43.3442-	108.4975-	2-	12-	0-	W07783	61070	-0.09	610	32010	124	-93	6.4	58	3.8	4	1.5	21450	12.0	19100	58	0.3
56-	43.3464-	108.5128-	2-	15-	0-	W07784	50800	-0.06	647	29590	61	-67	4.2	38	2.7	4	1.1	16630	10.2	17400	33	0.5
56-	43.3450-	108.5164-	2-	12-	0-	W07785	48840	-0.07	821	35080	70	-78	3.4	32	3.8	4	1.5	14440	14.1	19000	39	0.4
56-	43.3692-	108.4400-	2-	15-	0-	W07787	54050	-0.07	510	33360	53	116	6.4	41	4.1	3	1.2	20610	4.7	16470	32	0.3
56-	43.3692-	108.4319-	2-	15-	0-	W07788	56230	-0.08	593	30240	64	108	7.4	53	5.4	3	1.6	21560	5.6	19690	28	0.2
56-	43.3294-	108.4364-	2-	12-	0-	W07789	52920	-0.07	648	32020	61	-77	4.9	44	3.5	4	1.3	18530	8.3	16540	38	0.3
56-	43.3269-	108.4475-	2-	15-	0-	W07790	40970	-0.07	454	38490	37	14380	3.5	30	2.7	-2	0.8	12840	4.8	12440	19	-0.1
56-	43.2078-	108.1517-	2-	15-	0-	W07791	59410	-0.07	493	23790	88	-85	9.0	91	3.0	5	1.5	27690	26.7	16000	45	0.5
56-	43.2050-	108.1542-	2-	15-	0-	W07792	58530	-0.07	539	24830	62	-79	8.0	73	2.4	3	1.3	20460	8.8	17060	33	0.3
56-	43.1908-	108.1633-	2-	15-	0-	W07793	64350	-0.07	559	24270	54	-85	9.2	85	3.3	3	1.2	22860	6.0	15070	25	0.3
56-	43.1814-	108.1664-	2-	15-	0-	W07794	63380	-0.07	635	30370	60	-95	9.6	79	4.3	4	1.2	22340	5.1	17650	27	0.3
56-	43.1419-	108.1817-	2-	15-	0-	W07795	69450	-0.08	728	35820	89	590	12.2	97	3.0	3	1.6	30710	8.1	17620	55	0.3
56-	43.1478-	108.1497-	2-	15-	0-	W07796	58830	-0.07	654	9189	75	-69	7.6	53	2.1	5	1.5	20970	14.5	16800	35	0.4
56-	43.1442-	108.1281-	2-	15-	0-	W07797	56510	-0.07	546	9628	67	-66	7.5	50	2.3	4	1.3	23530	11.7	15310	35	0.3
56-	43.1436-	108.1600-	2-	15-	0-	W07798	62690	-0.07	578	16500	61	-84	7.8	59	2.7	5	1.2	21340	7.8	17080	35	0.3
56-	43.1131-	108.2344-	2-	15-	0-	W07800	62530	-0.07	525	11710	89	-47	9.8	64	2.5	5	1.5	28360	14.0	18680	43	0.4
56-	43.1142-	108.2078-	2-	15-	0-	W07802	60700	-0.08	506	9745	98	-70	10.1	56	3.6	5	1.6	23620	12.6	20000	41	0.4
56-	43.0992-	108.1933-	2-	99-	0-	W07803	64450	-0.08	582	9564	87	-73	11.6	65	2.8	5	1.6	30280	12.9	18810	45	0.4
56-	43.1214-	108.1889-	2-	15-	0-	W07804	56350	-0.06	629	11730	63	-80	6.5	50	2.0	4	1.3	18110	11.6	18080	33	0.4
56-	43.0703-	108.1747-	2-	99-	0-	W07807	56370	-0.07	468	17160	68	-75	9.0	73	2.8	4	1.2	21840	15.7	15910	37	0.4
56-	43.0250-	108.1961-	2-	15-	0-	W07808	58370	-0.08	613	18080	75	-75	8.9	54	2.8	4	1.5	23450	17.1	18050	34	0.5
56-	43.0719-	108.1933-	2-	15-	0-	W07809	49030	-0.06	490	12340	61	-65	5.2	44	1.6	4	1.5	18150	15.4	16230	35	0.4
56-	43.0708-	108.1942-	2-	15-	0-	W07810	50720	-0.06	512	13650	57	-74	5.8	50	1.7	5	1.3	17450	16.8	14810	33	0.4
56-	43.0758-	108.2094-	2-	15-	0-	W07811	47970	-0.06	464	13140	62	-66	6.3	48	2.2	5	1.4	17940	22.1	14800	34	0.5
56-	43.1322-	108.2242-	2-	15-	0-	W07812	56510	-0.07	612	18360	85	-81	5.8	59	-1.6	4	1.6	19040	14.1	16180	42	0.4
56-	43.1494-	108.2161-	2-	15-	0-	W07813	59280	-0.07	650	22840	73	-93	7.4	71	3.1	4	1.5	23900	10.5	16820	33	0.4
56-	43.1639-	108.2169-	2-	15-	0-	W07814	61240	-0.07	590	25560	53	-100	9.4	66	2.6	4	1.3	20110	8.2	19480	31	0.3
56-	43.1792-	108.2086-	2-	15-	0-	W07815	62260	-0.06	517	29050	70	-85	8.0	68	3.2	4	1.3	23220	10.8	20930	38	0.4
56-	43.2281-	108.2178-	2-	15-	0-	W07818	57410	-0.08	666	26490	71	-77	6.8	60	3.1	3	1.2	20180	8.4	20290	34	0.3
56-	43.2344-	108.2156-	2-	15-	0-	W07819	60280	-0.06	675	25000	48	-90	6.5	44	3.4	3	1.5	18140	6.2	18080	31	0.4
56-	43.2364-	108.2489-	2-	15-	0-	W07820	59580	-0.06	735	23400	71	-84	5.2	44	2.2	4	1.2	17130	11.4	18580	39	0.3
56-	43.2503-	108.1625-	2-	15-	0-	W07821	63470	-0.05	582	28660	63	-88	5.8	44	2.4	3	1.4	17080	7.0	18550	33	0.2
56-	43.2656-	108.1967-	2-	15-	0-	W07822	63000	-0.08	691	31360	56	-85	7.8	50	4.6	3	1.1	19650	3.6	18340	22	0.2
56-	43.2917-	108.2256-	2-	15-	0-	W07823	66200	-0.08	695	30140	65	-84	7.2	66	5.9	4	1.3	24680	6.2	21790	39	0.3
56-	43.2836-	108.1275-	2-	15-	0-	W07824	57910	-0.06	630	24050	97	-94	7.6	73	2.8	5	1.3	25130	16.4	18450	56	0.4
56-	43.3500-	108.1292-	2-	15-	0-	W07825	54550	-0.06	680	28600	75	-70	8.1	60	2.9	4	1.4	21550	13.6	19180	44	0.4
56-	43.3439-	108.1353-	2-	15-	0-	W07826	50200	-0.07	687	28510	66	-68	5.9	50	2.4	4	1.4	17950	12.0	19040	33	0.4

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.6697-108.7642-2-15-						0-W07759	22800	383	10160	-23	-2	6.2	5.8	-210	-1	-1	8.2	3514	44	3.1	-31	0.300
56-43.6703-108.7800-2-15-						0-W07760	26740	423	9485	47	-2	6.8	4.5	-262	-1	-1	7.8	3445	56	3.0	-30	0.290
56-43.6693-108.7775-2-15-						0-W07761	28330	497	10710	55	-2	7.4	4.2	-262	-1	-1	8.9	3479	65	2.8	63	0.275
56-43.6514-108.7928-2-15-						0-W07762	17730	642	4707	84	-2	9.0	5.7	-288	-1	-1	15.4	3873	52	4.4	-146	0.241
56-43.7006-108.7786-2-15-						0-W07763	23640	288	6319	-22	-2	5.8	3.7	-204	-1	-1	6.0	3133	40	1.8	-33	0.278
56-43.7042-108.7961-2-15-						0-W07764	24310	532	11710	67	-2	12.0	4.5	-346	-2	-1	9.1	4050	89	-1.9	-65	0.264
56-43.6878-108.4625-2-15-						0-W07769	13170	279	8258	69	-2	6.3	4.9	-238	-1	-1	13.0	2502	61	3.2	48	0.330
56-43.6767-108.4319-2-15-						0-W07770	28120	433	16640	54	-2	8.7	5.6	570	-1	-1	9.2	4226	95	3.0	118	0.291
56-43.7264-108.4475-2-15-						0-W07772	20330	233	2891	60	-2	6.1	4.5	-173	-1	-1	8.6	2891	91	2.3	-38	0.294
56-43.7414-108.4231-2-15-						0-W07773	16670	249	921	29	-1	2.9	2.7	-182	-1	-1	5.5	1725	32	2.4	-24	0.455
56-43.2767-108.4661-2-15-						0-W07774	11820	354	13220	60	-1	5.0	4.8	-228	-1	-1	10.9	2142	34	2.5	-19	0.289
56-43.2944-108.5008-2-15-						0-W07777	19000	717	12100	-32	-2	5.4	5.8	-312	-1	-1	10.1	2468	46	-1.8	-45	0.440
56-43.2833-108.4994-2-15-						0-W07779	14490	348	10860	57	-1	5.3	6.0	-208	-1	-1	10.9	2698	43	3.3	-30	0.281
56-43.3453-108.4983-2-15-						0-W07782	16130	385	13670	51	-1	5.9	4.4	-228	-1	-1	9.9	2695	43	2.5	-37	0.293
56-43.3442-108.4975-2-12-						0-W07783	22970	562	13580	-39	-2	6.4	6.8	-303	-1	-1	16.7	2772	47	4.5	-48	0.214
56-43.3464-108.5128-2-15-						0-W07784	16270	364	6833	43	-1	5.1	4.3	-212	-1	-1	9.2	2410	36	2.4	-35	0.290
56-43.3450-108.5164-2-12-						0-W07785	13110	396	7225	77	-2	4.6	4.0	-276	-1	-1	11.2	2865	42	3.6	-35	0.271
56-43.3692-108.4400-2-15-						0-W07787	19320	330	7641	-29	-2	6.3	3.7	291	-2	-1	9.5	2477	68	-1.4	79	0.306
56-43.3692-108.4319-2-15-						0-W07788	22110	331	6254	68	-2	6.4	4.1	-219	-1	-1	11.1	2910	62	2.6	-55	0.263
56-43.3294-108.4364-2-12-						0-W07790	15630	390	10580	53	-2	5.4	5.1	-241	-1	-1	11.3	2373	36	3.0	-45	0.245
56-43.3269-108.4475-2-15-						0-W07790	17710	266	57420	50	-2	3.6	4.1	-492	-1	-1	7.2	2232	33	-1.5	51	1.132
56-43.2078-108.1517-2-15-						0-W07791	22400	405	14780	55	-2	9.0	6.4	-252	-1	-1	15.5	3744	72	4.3	-33	0.304
56-43.2058-108.1542-2-15-						0-W07792	19690	409	14510	73	-2	6.7	4.8	-237	-1	-1	11.3	2539	49	2.6	-40	0.249
56-43.1908-108.1633-2-15-						0-W07793	20880	384	16540	76	-2	7.5	3.9	-247	-1	-1	8.7	3023	49	2.7	94	0.318
56-43.1814-108.1664-2-15-						0-W07794	26300	405	12420	59	-2	7.2	3.9	-315	-1	-1	9.1	3350	57	-1.9	53	0.300
56-43.1419-108.1817-2-15-						0-W07795	27450	446	17850	-32	-2	9.4	6.0	-288	-1	-1	19.6	3054	74	3.0	-42	0.164
56-43.1478-108.1497-2-15-						0-W07796	9222	250	12330	-29	-2	7.0	5.7	277	-1	-1	15.6	3911	57	3.8	-36	0.266
56-43.1442-108.1281-2-15-						0-W07797	9896	247	12130	61	-2	7.9	5.8	-194	-1	-1	14.5	3904	59	3.2	60	0.270
56-43.1436-108.1600-2-15-						0-W07798	16600	349	11910	57	-2	7.0	4.4	-262	-1	-1	11.0	3548	60	3.2	-24	0.308
56-43.1131-108.2344-2-15-						0-W07800	14050	290	9574	55	-2	8.7	6.2	-200	-1	1	19.6	4287	60	4.3	-42	0.216
56-43.1142-108.2078-2-15-						0-W07802	11590	290	10900	53	-2	8.0	7.0	-208	-1	-1	19.5	3964	65	3.6	-42	0.228
56-43.0992-108.1933-2-99-						0-W07803	14140	332	11080	71	-2	9.4	6.3	-221	-1	-1	17.0	4634	73	3.5	79	0.312
56-43.1214-108.1889-2-15-						0-W07804	11530	270	12180	48	-1	6.4	4.8	-235	-1	-1	14.6	3446	46	3.6	-25	0.273
56-43.0703-108.1747-2-99-						0-W07807	12780	344	11540	56	-2	7.6	4.8	-220	-1	1	13.4	3499	49	5.5	129	0.290
56-43.0250-108.1961-2-15-						0-W07808	18790	396	11880	46	-2	7.7	6.0	-237	-1	-1	14.2	4009	55	5.1	-41	0.294
56-43.0719-108.1933-2-15-						0-W07809	6103	266	11770	-23	-1	6.7	5.0	-188	-1	-1	12.5	3377	46	2.9	26	0.318
56-43.0708-108.1942-2-15-						0-W07810	10220	315	11090	42	-1	6.5	5.3	-233	-1	-1	13.4	3561	48	3.1	39	0.299
56-43.0758-108.2094-2-15-						0-W07811	8856	290	10930	39	-1	7.2	4.9	-192	-1	-1	16.2	3200	52	4.0	50	0.277
56-43.1322-108.2242-2-15-						0-W07812	12870	321	15220	-27	-2	6.2	5.7	-229	-1	-1	15.1	3406	50	4.1	-14	0.225
56-43.1494-108.2161-2-15-						0-W07813	20790	468	13990	70	-2	8.0	4.6	-254	-1	-1	11.8	3139	60	3.6	109	0.275
56-43.1639-108.2169-2-15-						0-W07814	19780	438	15440	-28	-2	7.1	4.3	288	-1	-1	9.5	3031	61	2.1	-79	0.303
56-43.1792-108.2086-2-15-						0-W07815	20830	467	14880	76	-2	7.5	4.7	-255	-1	-1	11.7	2779	53	3.2	80	0.254
56-43.2281-108.2178-2-15-						0-W07818	20990	411	12050	-28	-2	6.6	4.3	-243	-1	-1	10.4	3103	55	3.1	96	0.255
56-43.2344-108.2156-2-15-						0-W07819	16610	392	15070	42	-2	5.8	3.9	521	-1	-1	9.3	2518	46	2.2	48	0.289
56-43.2364-108.2489-2-15-						0-W07820	14890	381	13670	-22	-1	5.2	4.8	476	-1	-1	12.0	3464	51	3.4	65	0.255
56-43.2503-108.1925-2-15-						0-W07821	12840	393	17150	56	-1	5.1	4.5	-237	-1	1	9.5	2030	42	2.7	39	0.280
56-43.2656-108.1967-2-15-						0-W07822	20800	469	13990	-34	-2	5.7	3.8	-281	-1	-1	9.3	3185	50	-2.0	49	0.302
56-43.2817-108.2256-2-15-						0-W07823	24630	432	11170	79	-2	7.2	4.5	-274	-1	-1	12.1	3386	56	2.5	83	0.256
56-43.2836-108.1275-2-15-						0-W07824	12650	640	14240	-25	-2	7.3	5.8	-309	?	-1	17.5	5465	55	3.9	83	0.218
56-43.3500-108.1292-2-15-						0-W07825	20160	407	9813	50	-2	6.9	5.0	-216	-1	-1	13.1	2753	55	3.2	38	0.273
56-43.3439-108.1353-2-15-						0-W07826	16630	382	9976	58	-2	5.6	5.4	-216	-1	-1	12.5	2874	43	3.7	-36	0.238

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER AND FIELD DATA																									U CONCENTRATION
							TIME SAMPLED																								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.3881-108.5989-2-15-						0-W07828-10/17/79-10-			20-		-	-	-	-	-	9-4-6-5-6-	-1-	-2-4-1-2-4-	-1-	-	-	-	-	-							2.40
56-43.3914-108.5922-2-15-						0-W07829-10/17/79-10-			20-		-	-	-	-	-	9-4-6-5-6-	-1-	-2-3-1-2-4-	-1-	-	-	-	-	-							2.34
56-43.3958-108.5800-2-15-						0-W07830-10/17/79-11-			20-		-	-	-	-	-	8-1-6-5-6-	-1-	-2-3-1-2-4-	-1-	-	-	-	-	-							2.81
56-43.3961-108.5749-2-15-						0-W07831-10/17/79-11-			20-		-	-	-	-	-	8-4-8-4-6-	-1-	-2-3-1-2-4-	-1-	-	-	-	-	-							2.72
56-43.4828-108.5581-2-11-						0-W07832-10/17/79-12-			22-	10.5-	-	-	6.6-	400-		12-1-6-5-6-2-2-1-		-3-2-3-3-	-3-	-	-	-	-	-							2.81
56-43.4864-108.5558-2-15-						0-W07833-10/17/79-12-			22-		-	-	-	-	-	11-1-7-4-6-	-1-	-2-3-3-3-3-	-3-	-	-	-	-	-							3.33
56-43.4892-108.5572-2-11-						0-W07834-10/17/79-12-			22-	9.5-	-	-	6.6-	320-		14-1-1-6-8-2-2-1-		-3-2-3-3-	-3-	-	-	-	-	-							2.23
56-43.5008-108.5525-2-12-						0-W07835-10/17/79-12-			23-	10.5-	-	-	7.1-	240-		6-1-6-4-6-2-2-1-2-2-2-3-3-			-3-	-	-	-	-	-							3.19
56-43.5194-108.5336-2-12-						0-W07836-10/17/79-13-			22-	11.0-	-	-	7.2-	160-		6-3-6-6-6-2-2-1-2-4-1-4-3-			-3-	-	-	-	-	-							2.37
56-43.5278-108.5581-2-11-						0-W07837-10/17/79-13-			22-	11.5-	-	-	7.0-	120-		14-3-6-5-6-2-2-1-		-3-1-4-3-	-3-	-	-	-	-	-							2.38
56-43.5308-108.5658-2-11-						0-W07838-10/17/79-14-			22-	8.8-	-	-	6.6-	120-		10-3-7-5-6-2-2-1-		-4-1-4-3-	-3-	-	-	-	-	-							4.38
56-43.5975-108.6778-2-12-						0-W07839-10/17/79-14-			18-	7.5-	-	-	7.3-	140-		11-3-7-5-6-2-2-1-2-4-2-4-3-			-3-	-	-	-	-	-							3.59
56-43.5822-108.6261-2-15-						0-W07840-10/17/79-15-			18-		-	-	-	-		13-3-6-5-6-	-1-	-2-4-1-4-3-	-3-	-	-	-	-	-							3.65
56-43.0714-108.6610-2-15-						0-W07842-10/15/79-12-			15-		-	-	-	-		11-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-							4.94
56-43.0653-108.6694-2-15-						0-W07843-10/15/79-12-			15-		-	-	-	-		10-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-							3.22
56-43.0639-108.6308-2-15-						0-W07845-10/15/79-13-			15-		-	-	-	-		11-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-							6.44
56-43.0525-108.6600-2-15-						0-W07846-10/15/79-13-			15-		-	-	-	-		14-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-							3.14
56-43.0317-108.7267-2-15-						0-W07847-10/15/79-13-			15-		-	-	-	-		11-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-							4.20
56-43.0197-108.6864-2-15-						0-W07848-10/15/79-13-			15-		-	-	-	-		13-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-							6.97
56-43.0117-108.6400-2-15-						0-W07849-10/15/79-14-			15-		-	-	-	-		12-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-							6.68
56-43.0011-108.6092-2-15-						0-W07850-10/15/79-14-			14-		-	-	-	-		11-3-7-4-6-	-1-	-2-3-3-3-4-	-1-	-	-	-	-	-							5.53
56-43.0006-108.5758-2-15-						0-W07851-10/15/79-14-			14-		-	-	-	-		12-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-							3.76
56-43.0317-108.5853-2-15-						0-W07852-10/15/79-14-			14-		-	-	-	-		11-3-7-4-6-	-1-	-2-3-3-3-4-	-1-	-	-	-	-	-							5.50
56-43.0767-108.6078-2-15-						0-W07853-10/15/79-15-			15-		-	-	-	-		10-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-							5.57
56-43.0479-108.5519-2-15-						0-W07854-10/15/79-16-			15-		-	-	-	-		10-3-7-4-7-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							4.02
56-43.0008-108.5536-2-15-						0-W07855-10/15/79-16-			15-		-	-	-	-		12-3-7-4-6-	-1-	-2-3-3-3-3-	-1-	-	-	-	-	-							6.76
56-43.5539-108.3792-2-12-						0-W07856-10/17/79-14-			13-	14.6-	-	-	8.3-	2500-		10-1-4-4-4-2-2-1-2-3-3-4-3-			-1-	-	-	-	-	-							2.46
56-43.5489-108.3933-2-15-						0-W07857-10/17/79-14-			15-		-	-	-	-		10-1-4-4-6-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							2.65
56-43.5503-108.4083-2-11-						0-W07858-10/17/79-14-			15-	14.3-	0-	-	8.1-	4850-		10-3-7-5-4-2-2-1-		-3-3-4-3-	-3-	-	-	-	-	-							2.30
56-43.5592-108.4206-2-15-						0-W07859-10/17/79-15-			15-		-	-	-	-		10-3-7-4-4-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							2.50
56-43.5603-108.4292-2-15-						0-W07860-10/17/79-15-			15-		-	-	-	-		12-1-4-4-4-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							2.27
56-43.5619-108.4300-2-11-						0-W07861-10/17/79-15-			14-	14.6-	0-	-	8.2-	2600-		10-1-4-5-4-2-2-1-		-3-3-4-3-	-3-	-	-	-	-	-							2.72
56-43.5711-108.4608-2-15-						0-W07862-10/17/79-16-			14-		-	-	-	-		12-3-7-4-4-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							2.25
56-43.5728-108.4608-2-15-						0-W07863-10/17/79-16-			15-		-	-	-	-		12-3-7-4-4-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							1.72
56-43.5978-108.4928-2-11-						0-W07864-10/17/79-17-			14-	13.3-	0-	-	8.6-	1020-		9-1-4-5-6-3-3-1-2-3-3-4-3-			-1-	-	-	-	-	-							2.64
56-43.6061-108.4778-2-12-						0-W07865-10/17/79-17-			14-	13.8-	0-	-	8.7-	1850-		11-1-6-5-4-2-2-1-2-3-3-4-3-			-3-	-	-	-	-	-							2.17
56-43.5883-108.4919-2-11-						0-W07866-10/17/79-17-			13-	9.6-	-	-	8.4-	1800-		10-1-6-5-6-2-2-1-		-3-3-4-3-	-1-	-	-	-	-	-							2.48
56-43.5478-108.4083-2-15-						0-W07867-10/17/79-18-			13-		-	-	-	-		12-1-4-4-4-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							2.08
56-43.5383-108.4736-2-12-						0-W07868-10/17/79-18-			13-	11.6-	0-	-	8.1-	1050-		12-1-4-5-4-2-2-1-2-3-3-4-3-			-1-	-	-	-	-	-							2.78
56-43.5326-108.4750-2-99-						0-W07869-10/17/79-18-			13-		0-	-	-	-		11-3-7-4-6-	-1-	- -3-3-4-3-	-1-	-	-	-	-	-							2.47
56-43.5269-108.4478-2-15-						0-W07870-10/17/79-18-			13-		-	-	-	-		10-3-7-4-4-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							2.55
56-43.5281-108.4467-2-11-						0-W07871-10/17/79-19-			13-	10.6-	-	-	7.9-	2400-		10-3-7-5-4-2-2-1-		-3-3-4-3-	-1-	-	-	-	-	-							2.43
56-43.5133-108.4156-2-15-						0-W07872-10/17/79-19-			12-		-	-	-	-		13-3-6-4-6-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							2.99
56-43.5333-108.3794-2-15-						0-W07873-10/17/79-19-			11-		-	-	-	-		10-3-7-4-6-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							2.69
56-43.4531-108.4172-2-15-						0-W07875-10/18/79- 8-			8-		-	-	-	-		15-3-7-4-6-	-1-	-2-3-3-4-1-	-1-	-	-	-	-	-							2.19
56-43.4492-108.4069-2-15-						0-W07876-10/18/79- 8-			8-		-	-	-	-		11-3-7-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	-	-							2.22
56-43.4497-108.4322-2-15-						0-W07879-10/18/79- 9-			5-		-0-	-	-	-		15-3-7-5-6-	-1-	-2-3-3-4-2-	-3-	-	-	-	-	-							2.41
56-43.4222-108.3844-2-15-						0-W07878-10/18/79- 9-			9-		-	-	-	-		10-3-7-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	-	-							2.74
56-43.4306-108.3914-2-15-						0-W07880-10/18/79-10-			11-		-	-	-	-		16-3-7-4-6-	-1-	-2-3-3-4-2-	-1-	-	-	-	-	-							2.91
56-43.4336-108.3933-2-15-						0-W07881-10/18/79-10-			11-		-	-	-	-		13-3-7-4-6-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							2.68
56-43.4330-108.3958-2-15-						0-W07882-10/18/79-10-			11-		-	-	-	-		9-3-7-4-6-	-1-	-2-3-3-4-3-	-1-	-	-	-	-	-							3.47

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.3881-108.5889-2-15-						0-W07828	-5	5	-5	27	-20	-15	9	-10	-15	1	26
56-43.3914-108.5822-2-15-						0-W07829	-5	-5	-5	19	-20	-15	7	-10	-15	2	24
56-43.3958-108.5800-2-15-						0-W07830	-5	-5	-5	14	-20	-15	7	-10	-15	1	17
56-43.3961-108.5769-2-15-						0-W07831	-5	-5	-5	12	-20	-15	-5	-10	-15	2	14
56-43.4829-108.5581-2-11-						0-W07832	-5	-5	-5	11	-20	-15	7	-10	-15	1	21
56-43.4864-108.5558-2-15-						0-W07833	-5	7	-5	24	-20	23	7	-10	-15	-1	25
56-43.4892-108.5572-2-11-						0-W07834	-5	-5	-5	13	-20	-15	-5	-10	-15	2	15
56-43.5008-108.5525-2-12-						0-W07835	-5	-5	-5	31	-20	22	9	-10	-15	2	27
56-43.5194-108.5336-2-12-						0-W07836	-5	-5	-5	20	-20	17	5	-10	-15	1	26
56-43.5278-108.5581-2-11-						0-W07837	-5	-5	-5	22	-20	26	-5	-10	-15	1	19
56-43.5308-108.5658-2-11-						0-W07838	-5	6	-5	23	-20	-15	7	-10	-15	2	22
56-43.5975-108.6779-2-12-						0-W07839	-5	-5	-5	17	-20	16	11	-10	-15	2	45
56-43.5822-108.6261-2-15-						0-W07840	-5	5	-5	12	-20	16	13	-10	-15	2	42
56-43.0714-108.6519-2-15-						0-W07842	-5	6	-5	17	-20	23	9	-10	-15	2	44
56-43.0652-108.6694-2-15-						0-W07843	-5	-5	-5	26	-20	30	14	-10	-15	3	37
56-43.0639-108.6308-2-15-						0-W07845	-5	7	-5	-10	-20	18	7	-10	-15	1	27
56-43.0525-108.6600-2-15-						0-W07846	-5	6	-5	26	-20	24	16	-10	-15	2	40
56-43.0317-108.7267-2-15-						0-W07847	-5	-5	-5	10	-20	-15	-5	-10	-15	-1	6
56-43.0197-108.6864-2-15-						0-W07848	-5	-5	-5	13	-20	-15	11	-10	-15	3	31
56-43.0117-108.6400-2-15-						0-W07849	-5	7	-5	17	-20	25	10	-10	-15	2	26
56-43.0011-108.6092-2-15-						0-W07850	-5	7	-5	-10	-20	-15	13	-10	-15	2	34
56-43.0006-108.5758-2-15-						0-W07851	-5	5	-5	19	-20	20	7	-10	15	2	32
56-43.0317-108.5853-2-15-						0-W07852	-5	7	-5	21	-20	-15	14	-10	-15	-1	22
56-43.0767-108.6078-2-15-						0-W07853	-5	14	-5	11	-20	20	8	-10	-15	1	29
56-43.0478-108.5519-2-15-						0-W07854	-5	-5	-5	18	-20	20	14	-10	-15	2	50
56-43.0008-108.5536-2-15-						0-W07855	-5	7	-5	11	-20	-15	9	-10	-15	2	26
56-43.5539-108.3792-2-12-						0-W07856	-5	-5	-5	20	-20	25	-5	-10	-15	2	72
56-43.5489-108.3933-2-15-						0-W07857	-5	-5	-5	16	-20	20	-5	-10	-15	2	61
56-43.5503-108.4083-2-11-						0-W07858	-5	5	-5	15	-20	-15	-5	-10	-15	2	46
56-43.5592-108.4206-2-15-						0-W07859	-5	-5	-5	14	-20	18	-5	-10	-15	2	53
56-43.5603-108.4292-2-15-						0-W07860	-5	-5	-5	24	-20	16	-5	-10	-15	2	69
56-43.5619-108.4300-2-11-						0-W07861	-5	-5	-5	18	-20	18	-5	-10	-15	2	35
56-43.5711-108.4608-2-15-						0-W07862	-5	6	-5	16	-20	17	8	-10	-15	2	32
56-43.5728-108.4608-2-15-						0-W07863	-5	-5	-5	15	-20	-15	-5	-10	-15	2	30
56-43.5978-108.4928-2-11-						0-W07864	-5	-5	-5	20	-20	-15	6	-10	-15	2	24
56-43.6061-108.4772-2-12-						0-W07865	-5	-5	-5	26	-20	17	6	-10	-15	2	85
56-43.5883-108.4919-2-11-						0-W07866	-5	-5	-5	30	-20	-15	5	-10	-15	2	26
56-43.5479-108.4583-2-15-						0-W07867	-5	7	-5	19	-20	27	7	-10	-15	2	34
56-43.5383-108.4739-2-12-						0-W07868	-5	-5	-5	26	-20	20	15	-10	16	2	59
56-43.5328-108.4750-2-99-						0-W07869	-5	-5	-5	21	-20	15	11	-10	17	2	57
56-43.5269-108.4478-2-15-						0-W07870	-5	6	-5	16	-20	22	13	-10	15	2	45
56-43.5281-108.4467-2-11-						0-W07871	-5	-5	-5	14	-20	-15	-5	-10	-15	-1	26
56-43.5133-108.4156-2-15-						0-W07872	-5	6	-5	19	-20	19	21	-10	-15	2	29
56-43.5333-108.3794-2-15-						0-W07873	-5	5	-5	25	-20	23	-5	-10	-15	2	48
56-43.4531-108.4172-2-15-						0-W07875	-5	-5	-5	16	-20	18	10	-10	-15	1	24
56-43.4492-108.4069-2-15-						0-W07876	-5	-5	-5	16	-20	-15	9	-10	-15	2	11
56-43.4497-108.4322-2-15-						0-W07878	-5	5	-5	24	-20	15	6	-10	-15	1	41
56-43.4222-108.3844-2-15-						0-W07879	-5	5	-5	13	-20	-15	9	-10	-15	2	19
56-43.4306-108.3914-2-15-						0-W07880	-5	-5	-5	11	-20	-15	10	-10	-15	3	21
56-43.4336-108.3933-2-15-						0-W07881	-5	-5	-5	15	-20	-15	9	-10	-15	2	24
56-43.4339-108.3958-2-15-						0-W07882	-5	-5	-5	19	-20	-15	12	-10	-15	3	26

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Co	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-43.3881-108.5086-2-15-						0-W07828	39410	-0.06	498	42560	47	66	4.8	40	2.4	4	1.2	16130	10.0	14930	24	0.3
56-43.3914-108.5022-2-15-						0-W07829	46030	-0.05	484	24880	44	-54	5.1	41	2.4	3	1.1	14830	7.9	15260	21	0.2
56-43.3958-108.5806-2-15-						0-W07830	33290	-0.05	535	55400	63	94	5.6	36	1.8	4	1.3	13720	15.4	15740	30	0.4
56-43.3961-108.5769-2-15-						0-W07831	35210	-0.06	581	34750	68	-53	4.3	29	1.2	4	1.3	12810	14.6	12630	41	0.3
56-43.4828-108.5581-2-11-						0-W07832	43630	-0.10	488	16550	53	111	6.7	50	-1.4	4	1.1	20980	21.1	11620	26	0.3
56-43.4864-108.5558-2-15-						0-W07833	51160	-0.10	460	19040	81	119	13.6	81	-1.6	5	1.4	42130	27.8	14280	45	0.4
56-43.4892-108.5572-2-11-						0-W07834	29690	-0.07	464	6722	36	-46	-1.0	28	1.7	3	1.0	7488	10.2	12340	29	0.3
56-43.5038-108.5525-2-12-						0-W07835	50610	-0.11	502	19170	59	107	12.5	80	2.3	5	1.4	32020	22.7	15050	40	0.4
56-43.5194-108.5336-2-12-						0-W07836	55080	-0.12	563	19520	50	133	9.8	54	-1.9	4	1.4	23820	13.6	13530	28	0.3
56-43.5278-108.5581-2-11-						0-W07837	55190	-0.12	524	20960	66	-106	13.1	64	-1.8	3	1.1	33300	17.5	10890	35	0.3
56-43.5308-108.5658-2-11-						0-W07838	56730	-0.10	491	15570	73	105	8.0	64	-1.6	4	1.2	25510	14.8	14370	37	0.3
56-43.5975-108.6778-2-12-						0-W07839	51790	-0.13	475	11460	74	-71	11.1	64	2.7	5	1.5	29130	11.2	18840	48	0.3
56-43.5822-108.6261-2-15-						0-W07840	51020	-0.11	605	48630	95	-81	11.7	60	3.2	5	1.7	25230	11.0	32890	48	0.4
56-43.0714-108.6519-2-15-						0-W07842	59300	-0.10	569	13230	71	-72	8.0	78	3.5	5	1.4	21740	19.9	22700	50	0.6
56-43.0653-108.6694-2-15-						0-W07843	67320	-0.11	689	13790	77	-75	11.6	94	4.8	5	1.5	29740	5.9	19470	41	0.3
56-43.0639-108.6308-2-15-						0-W07845	64980	-0.12	564	22140	237	-106	9.4	115	2.9	8	2.2	43360	38.9	11650	122	0.8
56-43.0525-108.6606-2-15-						0-W07846	66540	-0.11	585	14200	77	-77	9.4	86	4.5	4	1.6	26560	7.4	21870	44	0.3
56-43.0317-108.7267-2-15-						0-W07847	18680	-0.07	468	-255	41	-21	2.3	29	1.4	3	1.1	10340	33.3	7021	22	0.4
56-43.0197-108.6864-2-15-						0-W07848	58020	-0.09	630	13150	107	-71	6.3	37	-1.3	6	1.8	18260	28.5	26040	67	0.6
56-43.0117-108.6400-2-15-						0-W07849	55960	-0.12	637	20760	136	-86	7.8	82	-1.7	8	1.9	27580	34.9	17340	73	0.8
56-43.0011-108.6092-2-15-						0-W07850	66750	-0.10	683	18700	130	-85	6.4	60	2.9	5	1.7	26190	28.2	17080	72	0.5
56-43.0006-108.5758-2-15-						0-W07851	63270	-0.09	690	18500	92	-81	5.7	61	2.2	4	1.4	21960	16.8	16620	61	0.3
56-43.0317-108.5853-2-15-						0-W07852	67970	-0.09	718	21920	125	-80	5.6	35	2.1	6	1.9	19740	26.0	18400	68	0.5
56-43.0767-108.6078-2-15-						0-W07853	58230	-0.11	565	24440	238	-97	9.1	117	-1.6	7	1.9	37210	34.5	11920	121	0.6
56-43.0478-108.5519-2-15-						0-W07854	72830	-0.10	682	23660	103	-90	8.6	62	3.2	4	1.6	23940	8.1	21620	48	0.3
56-43.0008-108.5536-2-15-						0-W07855	61880	-0.10	664	20310	151	-81	6.9	80	-1.4	7	2.7	29960	39.5	13970	84	0.7
56-43.5539-108.3792-2-12-						0-W07856	44670	-0.10	396	53640	55	-73	8.9	58	3.7	5	1.1	20870	9.3	18300	25	0.3
56-43.5489-108.3933-2-15-						0-W07857	57660	-0.12	432	43710	66	-76	8.0	60	4.0	4	1.3	20390	7.4	23580	21	0.4
56-43.5503-108.4083-2-11-						0-W07858	45380	-0.09	299	76800	45	-71	6.5	54	2.4	4	1.1	18100	7.6	16570	28	0.3
56-43.5592-108.4206-2-15-						0-W07859	48300	-0.11	419	33930	51	-80	5.7	54	2.6	5	1.2	19490	9.6	20030	21	0.4
56-43.5603-108.4292-2-15-						0-W07860	47140	-0.09	320	35960	46	-71	7.4	40	3.2	5	1.1	20010	9.9	19750	-12	0.4
56-43.5619-108.4300-2-11-						0-W07861	42170	-0.10	328	45900	38	-74	4.8	35	-1.4	4	1.2	12450	9.8	16440	-11	0.4
56-43.5711-108.4608-2-15-						0-W07862	38260	-0.08	338	34190	38	-62	2.9	28	1.5	3	0.9	11580	12.8	16830	20	0.3
56-43.5728-108.4608-2-15-						0-W07863	40060	-0.08	347	52200	37	-64	3.5	26	2.3	3	1.0	11900	7.2	18490	22	0.2
56-43.5978-108.4928-2-11-						0-W07864	37610	-0.09	461	43230	42	-57	4.9	34	1.4	4	1.1	12960	11.6	15970	-12	0.3
56-43.6061-108.4772-2-12-						0-W07865	43010	-0.10	384	68900	38	-71	5.0	31	2.3	4	1.0	13680	9.6	15670	20	0.3
56-43.5883-108.4919-2-11-						0-W07866	39160	-0.08	407	64110	36	-64	3.0	32	-1.2	3	1.0	11460	9.1	17550	22	0.2
56-43.5478-108.4683-2-15-						0-W07867	41530	-0.08	370	44280	40	-66	4.8	41	2.5	4	1.0	15690	8.6	19340	-7	0.3
56-43.5383-108.4739-2-12-						0-W07868	46020	-0.11	337	43660	45	-81	6.8	40	2.8	5	1.2	18450	9.8	18420	-15	0.4
56-43.5328-108.4750-2-99-						0-W07869	53350	-0.12	464	36190	50	-83	8.1	59	2.9	5	1.5	19830	8.4	18980	-14	0.3
56-43.5286-108.4478-2-15-						0-W07870	49960	-0.10	346	47730	52	-74	6.2	44	3.1	5	1.2	19830	10.2	17190	27	0.4
56-43.5281-108.4467-2-11-						0-W07871	32700	-0.09	296	93480	44	-59	4.8	48	-1.3	4	0.9	14090	10.3	13750	20	0.3
56-43.5133-108.4156-2-15-						0-W07872	51130	-0.10	528	30780	64	84	8.2	65	3.4	4	1.3	21110	7.6	16920	43	0.3
56-43.5333-108.3794-2-15-						0-W07873	48510	-0.11	440	32680	55	-67	5.9	60	2.3	4	1.5	18100	9.3	17860	34	0.4
56-43.4531-108.4172-2-15-						0-W07875	39360	-0.10	260	45270	40	162	4.5	44	2.7	3	0.9	13910	6.9	14050	22	0.2
56-43.4492-108.4069-2-15-						0-W07876	21840	-0.09	335	17920	38	-35	2.4	35	2.6	3	1.0	11230	10.1	13980	-8	0.3
56-43.4497-108.4222-2-15-						0-W07878	42470	-0.14	344	71810	40	-90	11.1	41	4.0	3	0.9	48780	5.1	15050	-18	0.3
56-43.4222-108.3844-2-15-						0-W07879	50120	-0.09	625	11250	60	-65	4.6	36	2.5	3	1.1	11040	10.1	17820	26	0.4
56-43.4306-108.3914-2-15-						0-W07880	48160	-0.08	592	16460	51	-69	2.8	27	2.7	3	1.1	9763	7.3	20050	33	0.3
56-43.4336-108.3933-2-15-						0-W07881	41780	-0.09	472	22400	46	72	3.9	40	2.5	3	1.0	12420	8.3	17310	26	0.3
56-43.4339-108.3958-2-15-						0-W07882	46230	0.17	450	12170	54	-55	5.5	35	3.5	5	1.1	16910	9.2	19220	36	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER							ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE LOCATION NUMBER	Concentrations reported in weight parts per million (ppm)														
							Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.3881-108.5989-2-15-						0-W07828	28250	277	3408	42	-1	5.3	3.4	-178	-1	-1	8.1	2781	53	2.5	35	0.296
56-43.3914-108.5922-2-15-						0-W07829	24030	227	4038	38	-1	4.9	3.3	-198	-1	-1	7.5	2431	45	2.9	98	0.312
56-43.3959-108.5800-2-15-						0-W07830	25510	267	3597	52	-1	4.6	4.4	-171	-1	-1	12.0	2911	35	3.6	46	0.234
56-43.3961-108.5769-2-15-						0-W07831	22280	272	7590	44	-2	4.0	5.0	-165	-1	-1	12.0	2104	29	3.4	95	0.227
56-43.4828-108.5581-2-11-						0-W07832	14260	301	12890	-25	-2	7.2	4.2	-216	-1	-1	10.8	3930	70	4.6	-10	0.260
56-43.4864-108.5558-2-15-						0-W07833	18610	418	13250	71	-3	11.1	7.3	-256	-1	-1	18.4	4891	127	4.4	95	0.181
56-43.4803-108.5572-2-11-						0-W07834	7405	90	5782	27	-2	3.2	3.2	120	-1	-1	6.0	2035	41	2.0	-23	0.372
56-43.5008-108.5525-2-12-						0-W07835	20840	461	13890	-29	-3	10.1	4.8	-256	-1	-1	12.6	4875	88	-1.8	121	0.253
56-43.5194-108.5336-2-12-						0-W07836	18640	463	14840	-33	-3	9.2	3.9	-305	-2	-1	10.5	4201	71	3.0	-19	0.226
56-43.5278-108.5391-2-11-						0-W07837	19140	918	16030	-33	-3	10.3	4.5	-343	-1	-1	15.4	3882	68	3.8	55	0.155
56-43.5308-108.5658-2-11-						0-W07838	15480	331	14640	64	-3	8.8	5.0	284	-1	-1	17.0	3978	97	3.5	54	0.258
56-43.5975-108.6778-2-12-						0-W07839	14620	472	6283	90	-3	6.0	5.8	-280	-1	-1	13.3	3537	60	3.8	115	0.270
56-43.5822-108.6261-2-15-						0-W07840	15080	1137	4115	80	-3	7.3	7.0	-389	-1	-1	14.2	2674	45	4.6	-14	0.215
56-43.0714-108.6919-2-15-						0-W07842	19460	390	11300	80	-2	7.5	5.2	-229	-1	-1	18.2	3451	58	4.5	66	0.271
56-43.0653-108.6694-2-15-						0-W07843	23490	398	10570	73	-3	9.9	5.1	-241	-1	-1	14.9	4004	72	3.9	-89	0.216
56-43.0639-108.6306-2-15-						0-W07845	18280	856	16540	40	-3	10.4	14.7	487	-1	-1	38.0	7350	96	8.4	-36	0.169
56-43.0525-108.6600-2-15-						0-W07846	24770	455	11290	70	-3	8.6	7.1	-241	-1	-1	14.0	3241	65	3.3	92	0.224
56-43.0317-108.7267-2-15-						0-W07847	2437	98	1092	24	-2	3.7	3.0	-93	-1	1	9.0	4735	55	3.7	57	0.467
56-43.0197-108.6864-2-15-						0-W07848	8628	241	14420	45	-2	6.8	7.8	-192	-1	-1	41.1	3872	43	6.5	95	0.170
56-43.0117-108.6400-2-15-						0-W07849	15290	530	12670	-29	-3	9.7	9.2	348	1	-1	36.6	5413	68	5.8	95	0.183
56-43.0011-108.6092-2-15-						0-W07850	10880	430	17030	63	-3	8.6	9.2	356	-1	-1	32.8	4703	56	6.8	44	0.169
56-43.0006-108.5758-2-15-						0-W07851	19150	396	17190	-24	-2	6.4	6.3	399	-1	-1	16.1	3809	53	3.6	-31	0.234
56-43.0317-108.5853-2-15-						0-W07852	9681	262	20180	50	-3	7.3	8.1	389	-1	-1	29.4	3897	44	4.8	61	0.187
56-43.0767-108.6078-2-15-						0-W07853	15380	659	17350	-28	-3	9.3	15.2	483	-1	-1	47.2	6221	93	9.7	-36	0.118
56-43.0478-108.5519-2-15-						0-W07854	16100	380	16590	70	-3	7.3	6.8	476	-1	-1	17.8	3351	55	3.4	109	0.226
56-43.0008-108.5536-2-15-						0-W07855	15620	471	16910	-25	-2	8.9	10.3	401	-1	1	38.4	5794	74	5.6	84	0.176
56-43.5539-108.3792-2-12-						0-W07856	40270	468	9173	68	-2	7.8	4.7	-245	-1	-1	7.9	3337	53	-1.8	-67	0.311
56-43.5498-108.3933-2-15-						0-W07857	34300	423	6910	44	-3	7.7	4.5	-272	-1	-1	8.2	3641	62	-2.6	-61	0.323
56-43.5503-108.4083-2-11-						0-W07858	28390	423	8696	-26	-2	6.9	4.0	339	-1	-1	7.4	3247	52	3.3	-30	0.311
56-43.5592-108.4206-2-15-						0-W07859	32730	436	11100	-29	-3	7.2	4.7	-262	-1	-1	9.7	3579	54	3.3	94	0.258
56-43.5603-108.4292-2-15-						0-W07860	33550	302	10780	64	-2	7.3	3.9	-224	-1	-1	7.2	3228	50	2.2	77	0.315
56-43.5619-108.4300-2-11-						0-W07861	24080	272	8964	-26	-2	4.8	4.0	-228	-1	-1	6.1	3031	40	2.7	-41	0.446
56-43.5711-108.4608-2-15-						0-W07862	21000	303	8579	48	-2	4.6	4.3	-193	-1	-1	6.6	2837	32	3.5	37	0.341
56-43.5729-108.4608-2-15-						0-W07863	22960	299	7704	50	-2	4.8	3.3	-207	-1	-1	4.8	3207	34	2.8	-30	0.358
56-43.5978-108.4928-2-11-						0-W07864	15770	290	5095	-25	-2	4.8	3.8	-198	-1	-1	6.2	2790	36	-1.5	96	0.426
56-43.6061-108.4772-2-12-						0-W07865	32720	380	5758	39	-3	5.9	3.4	-252	-1	-1	6.7	3192	37	2.9	-38	0.324
56-43.5883-108.4919-2-11-						0-W07866	21740	315	6797	47	-2	4.8	3.1	-201	-1	-1	5.4	2494	44	2.0	-28	0.459
56-43.5478-108.4983-2-15-						0-W07867	22910	341	10230	46	-2	5.8	3.9	-204	-1	-1	7.2	3008	44	3.2	-29	0.269
56-43.5383-108.4739-2-12-						0-W07868	28140	324	9664	68	-3	7.3	3.8	-255	-1	-1	7.3	3238	57	-1.9	81	0.381
56-43.5328-108.4750-2-99-						0-W07869	27520	442	9177	-32	-3	7.4	5.6	-287	-1	-1	9.5	3690	54	3.1	81	0.260
56-43.5269-108.4478-2-15-						0-W07870	32870	414	9609	57	-3	7.5	5.8	-246	-1	-1	7.5	3862	52	3.5	29	0.340
56-43.5281-108.4467-2-11-						0-W07871	30520	293	4692	-23	-2	5.3	3.4	417	-1	-1	7.5	3304	34	2.5	77	0.324
56-43.5133-108.4156-2-15-						0-W07872	31400	461	6801	70	-3	7.4	4.2	-241	-1	-1	9.4	3233	59	-2.1	78	0.318
56-43.5333-108.3794-2-15-						0-W07873	30900	413	6097	-29	-3	6.7	4.0	-255	-1	-1	8.4	3610	61	2.7	97	0.320
56-43.4531-108.4172-2-15-						0-W07875	12400	257	2108	71	-2	4.8	3.1	-192	-1	-1	6.0	2437	40	-1.7	-59	0.365
56-43.4492-108.4066-2-15-						0-W07876	9344	178	1691	55	-2	4.5	3.1	-154	-1	-1	5.9	2978	42	2.5	-27	0.376
56-43.4497-108.4322-2-15-						0-W07878	27960	1174	4253	-43	-3	6.6	2.7	-431	-2	-1	6.2	3163	72	-2.6	-87	0.389
56-43.4222-108.3844-2-15-						0-W07879	13370	175	9082	53	-2	4.1	4.5	-195	-1	-1	10.9	2077	33	3.3	-87	0.251
56-43.4306-108.3914-2-15-						0-W07880	7370	267	10570	62	-2	3.7	3.8	-195	-1	-1	10.0	2091	27	3.4	42	0.291
56-43.4336-108.3933-2-15-						0-W07881	15100	316	5478	60	-2	4.7	3.3	-203	-1	-1	7.3	2391	38	-1.6	59	0.367
56-43.4339-108.3958-2-15-						0-W07882	13550	231	5647	50	-2	5.4	3.7	-183	-1	-1	10.5	2539	40	-1.5	-33	0.330

APPENDIX I-B. (continued). Elemental 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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56	43.4336	108.4325	2	15	0	W07883	10/18/79	10	6	-	-	-	-	-	-	14	3	7	4	4	-1	-2	3	3	3	3	-1	-	-	-	-	-	2.46
56	43.4342	108.4311	2	15	0	W07884	10/18/79	10	9	-	-	-	-	-	-	10	3	7	4	4	-1	-2	3	3	3	3	-1	-	-	-	-	-	2.63
56	43.4000	108.4453	2	15	0	W07885	10/18/79	11	12	-	-	-	-	-	-	11	3	7	4	6	-1	-2	3	3	4	3	-1	-	-	-	-	-	2.62
56	43.3967	108.4472	2	15	0	W07886	10/18/79	11	12	-	-	-	-	-	-	12	3	7	4	6	-1	-2	3	3	4	3	-1	-	-	-	-	-	4.04
56	43.1789	109.1672	2	15	0	W07887	10/18/79	11	9	-	-	-	-	-	-		3	7	4	7	-1	-2	3	3	5	4	-1	-	-	-	-	-	2.04
56	43.1739	109.1778	2	15	0	W07888	10/18/79	11	10	-	-	-	-	-	-		3	7	4	6	-1	-2	3	3	5	4	-1	-	-	-	-	-	2.26
56	43.1708	109.2178	2	12	0	W07889	10/18/79	12	10	9.2	-	-	8.1	50	-		3	6	5	6	3	3	1	2	3	5	4	-1	-	-	-	-	-	2.95
56	43.5847	108.5947	2	12	0	W07901	10/17/79	16	18	7.2	-	-	7.2	330	-	12	1	6	5	6	3	3	1	2	4	1	4	3	-3	-	-	-	-	1.77
56	43.4539	108.5708	2	12	0	W07902	10/17/79	17	18	9.8	-	-	7.4	390	-	14	1	6	4	6	2	2	1	2	2	2	3	-3	-	-	-	-	-	2.98
56	43.4542	108.5719	2	12	0	W07903	10/17/79	17	18	11.0	-	-	7.3	550	-	12	1	6	4	6	2	2	1	2	2	2	3	-3	-	-	-	-	-	2.54
56	43.4336	108.5800	2	15	0	W07904	10/17/79	18	17	-	-	-	-	-	-	22	1	6	5	7	-1	-1	3	1	2	3	-3	-	-	-	-	-	3.91
56	43.4344	108.5792	2	15	0	W07905	10/17/79	19	18	-	-	-	-	-	-	18	1	6	5	6	-1	-1	3	1	2	3	-3	-	-	-	-	-	4.03
56	43.3417	108.3639	2	12	0	W07906	10/18/79	16	15	-	-	-	7.5	1150	-	8	1	7	4	7	2	3	2	2	4	2	2	2	-3	-	-	-	-	3.71
56	43.3633	108.3785	2	15	0	W07907	10/18/79	16	14	-	-	-	-	-	-	11	1	7	4	7	-1	-3	4	2	2	2	-3	-	-	-	-	-	2.65
56	43.3611	108.3800	2	15	0	W07908	10/18/79	16	14	-	-	-	-	-	-	11	1	7	4	6	-1	-3	2	3	3	2	2	-3	-	-	-	-	-	3.51
56	43.3472	108.5722	2	12	0	W07909	10/18/79	17	13	-	-	-	7.5	850	-	8	1	7	4	8	2	3	2	3	2	2	2	2	-3	-	-	-	-	3.45
56	43.3622	108.6075	2	15	0	W07900	10/18/79	18	12	-	-	-	-	-	-	12	1	6	4	6	-1	-3	3	2	2	2	-3	-	-	-	-	-	3.52
56	43.3222	108.6019	2	15	0	W07901	10/18/79	18	13	-	-	-	-	-	-	18	1	7	4	7	-1	-3	4	2	2	2	-	-	-	-	-	-	3.79
56	43.4175	108.2706	2	11	0	W07902	10/19/79	10	7	9.5	-	-	7.6	750	-	10	1	7	5	8	2	3	2	3	4	2	4	3	-1	-	-	-	-	1.84
56	43.4247	108.2639	2	12	0	W07903	10/19/79	10	10	11.0	-	-	7.4	750	-	13	1	7	5	7	2	2	2	3	4	2	4	3	-1	-	-	-	-	1.69
56	43.4242	108.2628	2	11	0	W07904	10/19/79	11	10	12.5	0	-	7.3	550	-	8	1	7	4	7	3	3	1	3	4	2	4	3	-1	-	-	-	-	1.74
56	43.4153	108.2556	2	15	0	W07905	10/19/79	11	12	-	-	-	-	-	-	5	1	7	4	7	-1	-3	4	2	4	3	-1	-	-	-	-	-	1.71
56	43.4153	108.2331	2	15	0	W07906	10/19/79	11	12	-	-	-	-	-	-	2	1	7	4	6	-1	-2	4	2	3	3	-3	-	-	-	-	-	2.32
56	43.4244	108.2258	2	15	0	W07907	10/19/79	11	12	-	-	-	-	-	-	4	1	7	4	6	-1	-2	4	2	4	3	-1	-	-	-	-	-	2.62
56	43.3967	108.2083	2	15	0	W07908	10/19/79	12	12	-	-	-	-	-	-	6	1	7	4	7	-1	-2	4	2	3	3	-1	-	-	-	-	-	2.36
56	43.3736	108.2233	2	15	0	W07909	10/19/79	12	12	-	-	-	-	-	-	8	1	6	4	6	-1	-2	4	2	2	3	-1	-	-	-	-	-	2.90
56	43.3731	108.2342	2	15	0	W07910	10/19/79	12	10	-	-	-	-	-	-	13	1	6	4	6	-1	-2	4	2	2	3	-1	-	-	-	-	-	2.92
56	43.4628	108.6192	2	12	0	W07911	10/18/79	10	18	7.5	0	-	7.6	700	-	14	1	6	5	7	2	2	1	2	2	2	3	3	-3	-	-	-	-	3.14
56	43.4903	108.5908	2	15	0	W07912	10/18/79	10	18	-	-	-	-	-	-	4	3	6	4	6	-1	-2	3	1	3	3	-1	-	-	-	-	-	2.99
56	43.5044	108.5892	2	15	0	W07913	10/18/79	10	19	-	-	-	-	-	-	8	4	6	5	6	-1	-2	3	2	4	3	-3	-	-	-	-	-	2.51
56	43.4825	108.5794	2	15	0	W07914	10/18/79	11	20	-	-	-	-	-	-	12	1	1	4	6	-1	-2	3	1	3	3	-3	-	-	-	-	-	2.80
56	43.4817	108.5831	2	12	0	W07915	10/18/79	11	20	9.8	-	-	7.5	800	-	6	1	6	5	6	2	2	1	2	2	1	3	3	-3	-	-	-	-	2.69
56	43.4633	108.6206	2	15	0	W07916	10/18/79	12	23	-	-	-	-	-	-	10	1	6	5	6	-1	-2	4	3	2	3	-3	-	-	-	-	-	2.46
56	43.4333	108.5492	2	15	0	W07917	10/18/79	13	22	-	-	-	-	-	-	6	1	6	4	7	-1	-2	3	2	3	2	-3	-	-	-	-	-	2.44
56	43.4350	108.5525	2	15	0	W07918	10/18/79	13	22	-	-	-	-	-	-	4	1	6	4	6	-1	-2	2	1	3	2	-3	-	-	-	-	-	2.67
56	43.4342	108.5531	2	12	0	W07919	10/18/79	13	22	11.5	-	-	7.5	650	-	10	1	6	5	6	2	2	1	2	3	2	3	2	-3	-	-	-	-	2.27
56	43.3989	108.5486	2	15	0	W07920	10/18/79	14	20	-	-	-	-	-	-	20	1	6	5	6	-1	-2	3	1	2	3	-1	-	-	-	-	-	2.75
56	43.3975	108.5472	2	15	0	W07921	10/18/79	14	20	-	-	-	-	-	-	6	1	6	5	6	-1	-2	3	1	2	3	-1	-	-	-	-	-	2.78
56	43.3986	108.5081	2	15	0	W07922	10/18/79	15	23	-	-	-	-	-	-	12	1	1	5	1	-1	-1	3	1	3	3	-3	-	-	-	-	-	2.72
56	43.3981	108.5097	2	15	0	W07923	10/18/79	15	23	-	-	-	-	-	-	8	1	1	5	1	-1	-2	2	1	3	3	-3	-	-	-	-	-	2.48
56	43.4196	108.5044	2	15	0	W07924	10/18/79	15	23	-	-	-	-	-	-	4	1	6	4	6	-1	-2	3	1	3	2	-1	-	-	-	-	-	2.67
56	43.4183	108.5022	2	15	0	W07925	10/18/79	15	23	-	-	-	-	-	-	12	1	6	5	6	-1	-2	3	1	3	2	-1	-	-	-	-	-	3.24
56	43.3414	108.5167	2	15	0	W07926	10/18/79	14	23	-	-	-	-	-	-	10	1	6	5	6	-1	-2	3	2	3	2	-3	-	-	-	-	-	2.60
56	43.3739	108.5733	2	15	0	W07927	10/18/79	16	23	-	-	-	-	-	-	10	1	6	5	6	-1	-2	3	1	2	2	-3	-	-	-	-	-	2.69
56	43.3747	108.5719	2	15	0	W07928	10/18/79	16	23	-	-	-	-	-	-	6	1	6	4	6	-1	-2	3	1	2	2	-3	-	-	-	-	-	2.21
56	43.5936	108.5119	2	15	0	W07929	10/18/79	11	18	-	-	-	-	-	-	10	1	6	5	6	-1	-2	3	2	4	4	-3	-	-	-	-	-	1.79
56	43.5922	108.5161	2	12	0	W07930	10/19/79	11	15	7.5	0	-	7.9	950	-	4	1	6	4	6	2	2	1	2	2	1	4	4	-3	-	-	-	-	2.52
56	43.6197	108.5350	2	12	0	W07931	10/19/79	11	18	9.1	0	-	7.5	600	-	14	1	6	5	6	2	2	1	2	2	2	4	4	-3	-	-	-	-	3.70
56	43.5767	108.5158	2	11	0	W07932	10/19/79	12	15	8.5	-	-	7.6	380	-	14	4	6	4	6	2	2	1	-	4	1	4	4	-1	-	-	-	-	1.29
56	43.4861	108.2417	2	15	0	W07934	10/19/79	13	17	-	-	-	-	-	-	8	4	6	5	6	-1	-2	3	2	4	4	-1	-	-	-	-	-	4.55
56	43.4650	108.2606	2	11	0	W07935	10/19/79	14	16	9.1	0	-	7.4	210	-	8	4	6	5	6	2	2	1	-	3	2	4	4	-3	-	-	-	-	2.42

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(2)

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE Concentrations reported in weight parts per million (ppm)									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY Concentrations in weight ppm	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.4336-108.4325-2-15-						0-W07883	-5	-5	-5	21	-20	-15	8	-10	-15	3	40
56-43.4342-108.4311-2-15-						0-W07884	-5	-5	-5	15	-20	-15	10	-10	-15	2	33
56-43.4000-108.4453-2-15-						0-W07885	-5	-5	-5	12	-20	-15	10	-10	-15	2	22
56-43.3967-108.4472-2-15-						0-W07886	-5	-5	-5	13	-20	-15	16	-10	-15	2	27
56-43.1789-109.1672-2-15-						0-W07887	-5	6	-5	18	-20	20	11	-10	-15	2	20
56-43.1739-109.1778-2-15-						0-W07888	-5	-5	-5	10	-20	-15	11	-10	-15	1	28
56-43.1708-109.2178-2-12-						0-W07889	-5	-5	-5	26	-20	25	9	-10	-15	2	60
56-43.5847-108.5947-2-12-						0-W07901	-5	6	-5	15	-20	-15	10	-10	-15	2	12
56-43.4539-108.5708-2-12-						0-W07902	-5	-5	-5	25	-20	-15	12	-10	-15	2	29
56-43.4542-108.5719-2-12-						0-W07903	-5	-5	-5	17	-20	-15	10	-10	-15	2	19
56-43.4336-108.5800-2-15-						0-W07904	-5	-5	-5	19	-20	21	13	-10	-15	2	71
56-43.4344-108.5792-2-15-						0-W07905	-5	-5	-5	15	-20	19	15	-10	-15	2	51
56-43.3417-108.3539-2-12-						0-W07906	-5	-5	-5	11	-20	-15	6	-10	-15	2	17
56-43.3633-109.3789-2-15-						0-W07907	-5	-5	-5	17	-20	-15	7	-10	-15	2	23
56-43.3611-108.3800-2-15-						0-W07908	-5	-5	-5	22	-20	-15	9	-10	-15	2	23
56-43.3472-108.5722-2-12-						0-W07909	-5	-5	-5	10	-20	-15	7	-10	-15	2	25
56-43.3622-108.6075-2-15-						0-W07910	-5	-5	-5	12	-20	-15	8	-10	-15	2	18
56-43.3222-108.6019-2-15-						0-W07911	-5	-5	-5	-10	-20	28	8	-10	-15	2	40
56-43.4175-108.2706-2-11-						0-W07902	-5	-5	-5	18	-20	-15	5	-10	-15	2	14
56-43.4247-108.2639-2-12-						0-W07903	-5	-5	-5	13	-20	-15	-5	-10	-15	1	9
56-43.4242-108.2628-2-11-						0-W07904	-5	-5	-5	21	-20	-15	-5	-10	-15	-1	10
56-43.4153-108.2558-2-15-						0-W07905	-5	-5	-5	33	-20	-15	10	-10	-15	3	14
56-43.4153-108.2331-2-15-						0-W07906	-5	-5	-5	19	-20	-15	-5	-10	-15	2	17
56-43.4244-108.2258-2-15-						0-W07907	-5	-5	-5	18	-20	-15	11	-10	-15	2	17
56-43.3967-108.2083-2-15-						0-W07908	-5	-5	-5	24	-20	-15	6	-10	-15	2	18
56-43.3736-108.2233-2-15-						0-W07909	-5	-5	-5	18	-20	-15	14	-10	-15	2	24
56-43.3731-108.2342-2-15-						0-W07910	-5	-5	-5	17	-20	-15	11	-10	-15	2	26
56-43.4628-108.6192-2-12-						0-W07911	-5	-5	-5	29	-20	20	18	-10	-15	2	50
56-43.4803-108.5908-2-15-						0-W07912	-5	-5	-5	13	-20	-15	6	-10	-15	2	31
56-43.5044-108.5892-2-15-						0-W07913	-5	5	-5	20	-20	17	9	-10	-15	1	26
56-43.4825-108.5794-2-15-						0-W07914	-5	-5	-5	12	-20	-15	6	-10	-15	1	19
56-43.4817-108.5831-2-12-						0-W07915	-5	-5	-5	17	-20	17	8	-10	-15	2	29
56-43.4633-108.6206-2-15-						0-W07916	-5	-5	-5	26	-20	-15	8	-10	-15	2	37
56-43.4333-108.5462-2-15-						0-W07917	-5	-5	-5	17	-20	-15	17	-10	-15	1	15
56-43.4350-108.5525-2-15-						0-W07918	-5	6	-5	13	-20	-15	8	-10	-15	1	12
56-43.4342-108.5531-2-12-						0-W07919	-5	-5	-5	17	-20	-15	10	-10	-15	2	19
56-43.3969-108.5486-2-15-						0-W07920	-5	-5	-5	14	-20	15	15	-10	-15	2	19
56-43.3975-108.5472-2-15-						0-W07921	-5	-5	-5	14	-20	-15	12	-10	-15	2	20
56-43.3986-108.5081-2-15-						0-W07922	-5	-5	-5	19	-20	-15	12	-10	-15	2	27
56-43.3981-108.5097-2-15-						0-W07923	-5	5	-5	20	-20	-15	10	-10	-15	2	14
56-43.4186-108.5044-2-15-						0-W07924	-5	-5	-5	17	-20	-15	9	-10	-15	1	19
56-43.4183-108.5022-2-15-						0-W07925	-5	-5	-5	18	-20	-15	-5	-10	-15	2	20
56-43.3614-108.5167-2-15-						0-W07926	-5	-5	-5	25	-20	-15	11	-10	-15	2	37
56-43.3739-108.5733-2-15-						0-W07927	-5	-5	-5	10	-20	20	8	-10	-15	2	31
56-43.3747-108.5719-2-15-						0-W07928	-5	5	-5	11	-20	-15	11	-10	-15	2	17
56-43.5936-108.5119-2-15-						0-W07929	-5	5	-5	12	-20	-15	11	-10	-15	1	26
56-43.5922-108.5161-2-12-						0-W07930	-5	-5	-5	13	-20	-15	8	-10	-15	1	14
56-43.6197-108.5350-2-12-						0-W07931	-5	-5	-5	24	-20	-15	9	-10	-15	3	29
56-43.5767-108.5158-2-11-						0-W07932	-5	-5	-5	-10	-20	-15	-5	-10	-15	1	9
56-43.4961-108.2417-2-15-						0-W07934	-5	6	-5	26	-20	25	17	-10	-15	3	31
56-43.4650-108.2606-2-11-						0-W07935	-5	-5	-5	13	-20	-15	-5	-10	-15	1	10

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.4336-	108.4325-	2-	15-	0-	W07883	50980	-0.11	436	35830	51	-69	5.7	47	3.0	4	1.3	16020	6.2	17380	32	0.3
56-	43.4342-	108.4311-	2-	15-	0-	W07884	40620	-0.09	377	31120	38	439	2.1	30	2.9	3	1.0	12080	6.7	15590	19	0.3
56-	43.4000-	108.4453-	2-	15-	0-	W07885	39180	-0.07	903	33760	63	-61	3.8	34	2.6	4	1.0	13390	10.9	13780	35	0.3
56-	43.3967-	108.4472-	2-	15-	0-	W07886	43230	-0.08	1182	28240	107	-61	5.3	44	2.8	6	1.6	15540	20.2	14730	69	0.4
56-	43.1789-	109.1672-	2-	15-	0-	W07887	40310	-0.09	391	57400	42	-61	5.2	51	2.3	3	1.0	14980	8.7	16560	22	0.3
56-	43.1739-	109.1778-	2-	15-	0-	W07888	33690	-0.07	397	51270	36	-55	3.4	39	2.0	3	1.0	13340	11.6	16990	19	0.3
56-	43.1708-	109.2178-	2-	12-	0-	W07889	49490	-0.11	407	31180	63	129	8.7	82	2.8	5	1.2	21830	9.8	17590	-11	0.5
56-	43.5847-	108.5947-	2-	12-	0-	W07891	38400	-0.10	403	82610	40	181	3.5	44	2.4	3	1.1	12710	6.9	16530	21	0.4
56-	43.4539-	108.5708-	2-	12-	0-	W07892	49620	-0.09	480	25870	52	-50	4.4	38	4.6	4	1.3	15270	9.3	16900	33	0.4
56-	43.4542-	108.5710-	2-	12-	0-	W07893	37190	-0.08	689	30200	49	-46	4.5	34	3.1	4	1.0	13940	6.9	13710	31	0.2
56-	43.4336-	108.5806-	2-	15-	0-	W07894	64370	-0.12	655	28460	66	225	7.8	61	6.2	5	1.2	25700	4.3	20370	44	0.3
56-	43.4344-	108.5792-	2-	15-	0-	W07895	60520	-0.13	622	28080	66	-68	6.0	62	5.1	4	1.3	21390	5.4	18430	32	0.4
56-	43.3417-	108.3939-	2-	12-	0-	W07896	41410	-0.08	857	25220	85	-66	3.5	52	2.7	6	1.5	16950	16.1	17330	56	0.6
56-	43.3633-	108.3789-	2-	15-	0-	W07897	45200	-0.08	651	28930	56	-67	4.6	41	2.7	3	1.1	13250	8.5	18460	27	0.3
56-	43.3611-	108.3800-	2-	15-	0-	W07898	47900	-0.08	1283	25320	84	-65	6.3	44	3.8	5	1.6	18530	13.0	15710	50	0.4
56-	43.3472-	108.5722-	2-	12-	0-	W07899	44500	-0.09	582	22310	55	-82	4.8	43	2.8	3	1.3	14500	14.2	15510	31	0.3
56-	43.3622-	108.6075-	2-	15-	0-	W07900	40380	-0.07	534	22390	73	-54	3.9	41	2.7	4	1.2	15460	21.8	15130	41	0.4
56-	43.3222-	108.6019-	2-	15-	0-	W07901	58170	-0.10	580	24860	81	85	8.3	69	4.3	5	1.5	23740	12.6	18600	46	0.4
56-	43.4175-	108.2706-	2-	11-	0-	W07902	56500	-0.08	1081	65880	42	-82	5.5	49	-1.2	2	1.3	11320	7.0	12990	29	0.2
56-	43.4247-	108.2636-	2-	12-	0-	W07903	21860	-0.08	558	49780	26	109	2.1	32	-1.1	2	0.8	5664	7.8	12110	-11	0.2
56-	43.4242-	108.2628-	2-	11-	0-	W07904	30160	-0.09	338	112100	32	150	0.0	32	-1.3	2	0.7	9316	7.2	11510	24	0.2
56-	43.4153-	108.2558-	2-	15-	0-	W07905	58850	-0.08	1025	22570	65	-59	7.4	51	2.2	3	1.3	21230	4.0	14570	37	0.2
56-	43.4153-	108.2331-	2-	15-	0-	W07906	33810	-0.08	322	45640	38	-50	4.6	42	2.6	3	0.9	13180	12.1	10580	18	0.3
56-	43.4244-	108.2258-	2-	15-	0-	W07907	40470	-0.09	474	33240	52	-62	5.6	46	2.4	3	1.2	13730	12.4	16210	25	0.3
56-	43.3967-	108.2683-	2-	15-	0-	W07908	29260	-0.08	420	31980	46	67	4.9	39	2.3	3	1.0	16800	8.4	15500	33	0.3
56-	43.3736-	108.2733-	2-	15-	0-	W07909	50230	-0.09	599	25940	57	-73	3.8	41	2.9	4	1.3	15060	11.0	17340	38	0.3
56-	43.3731-	108.2342-	2-	15-	0-	W07910	49240	-0.07	595	26320	58	-65	6.6	47	2.7	4	1.2	17190	10.8	14910	35	0.3
56-	43.4628-	108.6192-	2-	12-	0-	W07911	63110	-0.13	518	43440	62	-71	6.6	53	5.5	5	1.5	19560	5.7	16230	37	0.3
56-	43.4803-	108.5508-	2-	15-	0-	W07912	46140	-0.07	664	33380	45	58	4.7	35	3.4	3	1.1	16960	5.6	16220	32	0.2
56-	43.5044-	108.5892-	2-	15-	0-	W07913	37030	-0.11	486	126900	48	69	4.2	40	2.8	2	1.0	16830	4.0	16780	-11	0.3
56-	43.4825-	108.5794-	2-	15-	0-	W07914	33080	-0.07	511	49740	43	168	3.7	25	2.4	3	1.1	10960	9.2	16130	25	0.3
56-	43.4817-	108.5831-	2-	12-	0-	W07915	44620	-0.09	549	51630	43	110	2.8	37	3.3	3	1.1	13040	6.1	15180	28	0.3
56-	43.4633-	108.6206-	2-	15-	0-	W07916	48230	-0.08	349	30040	45	-55	3.6	42	3.2	3	1.3	17180	5.7	17630	27	0.3
56-	43.4333-	108.5492-	2-	15-	0-	W07917	29760	-0.07	560	20320	45	55	4.3	28	2.2	3	1.0	10670	7.7	12670	30	0.3
56-	43.4350-	108.5525-	2-	15-	0-	W07918	28400	-0.07	488	9039	46	-36	4.7	29	2.1	4	1.2	12470	12.9	12440	28	0.3
56-	43.4342-	108.5531-	2-	12-	0-	W07919	40040	-0.08	654	25490	48	-55	4.8	28	1.9	3	1.2	12610	6.5	16680	23	0.3
56-	43.3969-	108.5486-	2-	15-	0-	W07920	42650	-0.08	441	17860	55	-51	3.8	43	2.7	3	1.1	16060	11.0	15000	31	0.5
56-	43.3975-	108.5472-	2-	15-	0-	W07921	39130	-0.07	537	26540	49	-46	3.5	33	2.7	3	1.0	13260	10.5	15320	30	0.3
56-	43.3986-	108.5081-	2-	15-	0-	W07922	45130	-0.08	647	35020	53	-53	5.7	41	3.0	3	1.1	15010	7.1	15060	32	0.3
56-	43.3981-	108.5097-	2-	15-	0-	W07923	34100	-0.08	489	21350	43	-47	2.6	25	2.0	3	1.1	9645	7.7	12400	22	0.2
56-	43.4186-	108.5044-	2-	12-	0-	W07924	37420	-0.07	832	39470	53	-50	3.1	31	2.1	3	1.0	12980	9.8	14870	28	0.3
56-	43.4183-	108.5022-	2-	15-	0-	W07925	45420	-0.07	906	29080	74	117	4.6	38	2.8	4	1.3	14720	12.5	19520	41	0.3
56-	43.3614-	108.5167-	2-	15-	0-	W07926	51240	-0.08	500	36570	57	-55	5.7	43	4.8	4	1.1	20660	7.2	19860	34	0.3
56-	43.3739-	108.5733-	2-	15-	0-	W07927	50040	-0.08	537	21570	47	-61	5.9	38	2.8	4	1.3	14390	7.1	17670	23	0.2
56-	43.3747-	108.5719-	2-	15-	0-	W07928	41290	-0.07	480	36900	49	71	2.0	30	-1.1	3	1.0	11870	7.9	16940	24	0.3
56-	43.5936-	108.5119-	2-	15-	0-	W07929	30280	-0.07	411	64600	32	-50	3.4	29	2.2	3	0.9	11720	8.4	14390	15	0.2
56-	43.5922-	108.5161-	2-	12-	0-	W07930	29500	-0.07	658	35930	37	-49	3.9	36	1.7	3	1.0	10910	13.9	11700	28	0.3
56-	43.6197-	108.5350-	2-	12-	0-	W07931	51480	-0.12	545	26130	61	-58	8.6	61	3.4	5	1.5	20490	8.5	13630	32	0.4
56-	43.5767-	108.5158-	2-	11-	0-	W07933	18310	-0.05	248	11780	22	-33	1.1	21	-0.8	2	0.7	4938	8.6	8299	14	0.2
56-	43.4861-	108.2417-	2-	15-	0-	W07934	53860	-0.10	585	13720	68	-63	8.1	87	4.1	5	1.1	21730	10.8	17070	40	0.5
56-	43.4650-	108.2606-	2-	11-	0-	W07935	17620	-0.07	183	3875	22	-28	2.0	27	1.7	2	0.4	7305	13.6	5912	-10	0.2

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LAB. SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)														U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-43.4336-108.4325-2-15-						0-W07883	26080	341	5673	42	-3	6.2	4.7	-249	-1	-1	7.3	3152	50	3.2	-14	0.337
56-43.4342-108.4311-2-15-						0-W07884	32850	220	7747	-28	-2	4.4	4.3	-220	-1	-1	5.8	2101	30	2.7	58	0.453
56-43.4000-108.4453-2-15-						0-W07885	14690	362	7271	43	-2	4.4	4.3	471	-1	-1	9.2	2286	32	3.6	54	0.285
56-43.3967-108.4472-2-15-						0-W07886	15650	368	7950	43	-2	5.4	6.9	-205	-1	-1	18.6	2948	45	5.0	90	0.217
56-43.1789-109.1672-2-15-						0-W07887	17800	305	5398	-26	-2	5.3	4.0	242	-1	-1	6.6	2751	49	2.2	-32	0.309
56-43.1739-109.1778-2-15-						0-W07888	20440	299	5061	49	-2	4.7	4.5	-183	-1	1	6.4	2103	40	2.5	-28	0.353
56-43.1708-109.2178-2-12-						0-W07889	32740	603	10070	47	-3	7.9	5.3	-297	-1	-1	10.2	4390	54	3.5	-40	0.269
56-43.5847-108.5947-2-12-						0-W07901	40450	236	6055	-31	-2	4.3	3.4	-247	-2	-1	6.4	2542	41	-1.8	-39	0.277
56-43.4539-108.5708-2-12-						0-W07902	18710	245	3307	60	-2	5.9	5.1	-188	-1	-1	9.5	2661	65	3.7	-66	0.314
56-43.4542-108.5719-2-12-						0-W07903	20190	307	2871	44	-2	4.3	4.0	-190	-1	-1	7.3	2543	57	3.0	71	0.348
56-43.4336-108.5800-2-15-						0-W07904	23350	288	4361	91	-3	9.1	4.9	-232	-1	-1	10.9	3890	135	-2.4	86	0.359
56-43.4344-108.5792-2-15-						0-W07905	23290	278	4724	80	-3	7.8	5.2	-258	-2	-1	10.6	3699	120	-2.9	46	0.380
56-43.3417-108.3939-2-12-						0-W07906	10870	405	8502	53	-2	5.5	6.5	-214	-1	-1	15.1	3185	38	4.1	33	0.246
56-43.3633-108.3789-2-15-						0-W07907	12220	351	9490	47	-2	4.4	4.2	-213	-1	-1	8.7	2180	35	3.3	55	0.305
56-43.3611-108.3800-2-15-						0-W07908	13730	406	7824	-26	-2	6.5	5.4	-218	-1	-1	13.5	2827	43	2.4	70	0.260
56-43.3472-108.5722-2-12-						0-W07909	16020	534	8943	-28	-2	4.6	4.6	-291	-1	-1	10.5	2499	50	2.3	91	0.329
56-43.3622-108.6075-2-15-						0-W07910	12010	238	5794	-21	-2	5.0	5.5	-187	-1	-1	11.4	2887	45	3.6	-27	0.309
56-43.3222-108.6010-2-15-						0-W07911	22060	455	9426	81	-2	7.4	6.3	354	-1	-1	14.9	4004	53	-2.0	52	0.254
56-43.4175-108.2706-2-11-						0-W07902	10880	172	16430	36	-2	3.7	2.8	728	-1	-1	5.4	2439	33	-1.7	-32	0.341
56-43.4247-108.2639-2-12-						0-W07903	41640	108	6391	29	-2	2.3	1.8	-182	-1	-1	4.5	1690	21	2.5	48	0.376
56-43.4242-108.2628-2-11-						0-W07904	41530	190	4496	-26	-2	3.3	2.3	-200	-1	-1	5.6	1557	29	-1.7	-36	0.311
56-43.4153-108.2558-2-15-						0-W07905	19100	247	7783	-25	-2	5.8	4.1	418	-1	-1	8.6	3188	51	2.4	58	0.199
56-43.4153-108.2331-2-15-						0-W07906	30010	223	3815	44	-2	4.5	3.0	-173	-1	-1	6.8	2501	33	-1.4	-32	0.341
56-43.4244-108.2258-2-15-						0-W07907	33770	315	5590	-25	-2	4.6	4.9	-220	-1	-1	7.2	2330	44	2.5	68	0.364
56-43.3967-108.2083-2-15-						0-W07908	21510	268	2172	58	-2	5.4	3.3	-169	-1	-1	6.9	2416	42	2.1	73	0.342
56-43.3736-108.2233-2-15-						0-W07909	19370	373	6617	65	-2	5.1	3.6	-242	-1	-1	8.8	2618	48	-1.6	-26	0.336
56-43.3721-108.2342-2-15-						0-W07910	18310	372	9804	47	-2	5.4	3.9	-199	-1	-1	9.6	2482	39	-1.4	-25	0.304
56-43.4628-108.6192-2-12-						0-W07911	28850	433	9710	60	-3	7.9	4.8	-298	-2	-1	10.3	3715	95	4.3	54	0.305
56-43.4803-108.5908-2-15-						0-W07912	22320	284	6637	46	-2	5.0	4.4	-180	-1	-1	7.9	2020	71	1.9	75	0.378
56-43.5044-108.5892-2-15-						0-W07913	23300	274	3526	-32	-3	5.4	3.4	-235	-1	-1	7.0	2349	59	-1.9	84	0.359
56-43.4825-108.5794-2-15-						0-W07914	32890	178	5558	54	-2	3.6	3.4	-157	-1	-1	6.4	1977	50	1.9	84	0.437
56-43.4817-108.5831-2-12-						0-W07915	35060	230	4398	-27	-2	4.5	3.5	-214	-1	-1	7.5	2740	70	1.9	78	0.359
56-43.4623-108.6206-2-15-						0-W07916	23370	240	5440	54	-2	6.2	3.6	-182	-1	-1	8.0	2158	64	2.6	-28	0.368
56-43.4333-108.5492-2-15-						0-W07917	16080	204	2501	-21	-2	3.6	3.2	-150	-1	-1	6.4	2207	44	2.3	-21	0.381
56-43.4350-108.5525-2-15-						0-W07918	6445	222	2901	46	-2	4.0	3.7	-148	-1	-1	7.9	2712	45	3.5	-26	0.338
56-43.4342-108.5531-2-12-						0-W07919	18290	251	5097	38	-2	4.1	4.4	-194	-1	-1	7.0	2431	44	2.1	33	0.324
56-43.3969-108.5486-2-15-						0-W07920	16540	304	4710	60	-2	5.4	4.5	-183	1	-1	9.4	2594	54	3.3	-17	0.293
56-43.3975-108.5472-2-15-						0-W07921	14880	262	4831	49	-2	4.5	4.4	-171	-1	-1	9.0	2456	48	3.0	29	0.309
56-43.3986-108.5081-2-15-						0-W07922	22450	282	5988	53	-2	5.2	3.7	-187	-1	-1	8.6	2501	43	1.8	142	0.316
56-43.3981-108.5097-2-15-						0-W07923	13890	203	3453	-23	-2	3.4	3.6	-180	-1	-1	7.9	1973	46	2.0	73	0.314
56-43.4186-108.5044-2-15-						0-W07924	22710	293	4619	45	-2	4.2	3.8	-178	-1	-1	8.5	2178	43	2.0	-20	0.314
56-43.4183-108.5022-2-15-						0-W07925	16160	324	8261	61	-2	4.9	4.8	-193	-1	-1	13.8	2638	39	4.2	49	0.235
56-43.3614-108.5167-2-15-						0-W07926	15380	377	5127	67	-2	6.5	4.0	-198	-1	-1	9.2	2687	53	2.6	103	0.283
56-43.3739-108.5733-2-15-						0-W07927	16450	272	6903	-23	-2	5.2	4.3	-205	-1	-1	7.6	3020	47	2.7	-27	0.354
56-43.3747-108.5719-2-15-						0-W07928	22770	259	6975	36	-2	4.0	3.6	262	-1	-1	7.4	1853	31	-1.3	44	0.299
56-43.5936-108.5119-2-15-						0-W07929	26060	242	4676	-20	-2	3.8	2.7	285	-1	-1	4.7	2115	34	2.4	-28	0.381
56-43.5922-108.5161-2-12-						0-W07930	13100	256	4332	-22	-2	4.1	3.2	-177	-1	-1	6.1	2527	31	2.8	-31	0.413
56-43.6197-108.5350-2-12-						0-W07931	16060	473	3076	-32	-3	6.8	5.5	-279	-1	-1	8.7	3130	69	3.8	-73	0.425
56-43.5747-108.5158-2-11-						0-W07932	7335	86	2968	-14	-1	2.0	1.6	-107	-1		3.6	1356	19	-1.5	-18	0.356
56-43.4861-108.2417-2-15-						0-W07934	14260	424	6594	61	-3	7.9	4.8	-236	-1	-1	12.2	3881	76	3.5	125	0.373
56-43.4650-108.2606-2-11-						0-W07935	4137	51	1538	-24	-2	2.2	1.8	-104	-1	-1	3.8	1207	23	2.0	-33	0.637

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

(1)

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: DATE	TIME SAMPLED: HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	CONDUCTIVITY (µmho/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)	SEDIMENT SAMPLES ANALYZED BY DELAYED NEUTRON COUNTING (DNC) UNITS IN ppm
56-43.4819-108.3119-2-15-						0-W07937-10/19/79-15-			15-		-	-	-	-	-	12-4-6-5-6-	-1-	-2-4-1-4-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.86
56-43.4119-108.4844-2-15-						0-W07938-10/19/79-17-			15-		-	-	-	-	-	12-1-6-5-6-	-1-	-2-3-1-2-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.82
56-43.4125-108.4808-2-15-						0-W07939-10/19/79-17-			15-		-	-	-	-	-	16-1-6-5-6-	-1-	-2-3-1-2-4-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.06
56-43.3925-108.2361-2-15-						0-W07941-10/19/79-13-			10-		-	-	-	-	-	10-1-7-4-6-	-1-	-2-4-2-2-3-	-9-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.53
56-43.3944-108.2650-2-15-						0-W07942-10/19/79-13-			10-		-	-	-	-	-	11-1-6-4-6-	-1-	-3-4-2-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.28
56-43.3975-108.2711-2-15-						0-W07943-10/19/79-13-			10-		-	-	-	-	-	8-1-7-4-7-	-1-	-3-4-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.07
56-43.4172-108.2831-2-15-						0-W07944-10/19/79-13-			10-		-	-	-	-	-	13-1-7-4-7-	-1-	-3-4-2-3-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70
56-43.4206-108.2922-2-11-						0-W07945-10/19/79-13-			10-	11.5	-	-	7.8	-	550	7-1-7-4-6-3-3-1-3-4-2-3-3-			-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.15
56-43.4125-108.2622-2-15-						0-W07946-10/19/79-14-			10-		-	-	-	-	-	12-1-7-4-6-	-1-	-2-2-2-2-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.22
56-43.4239-108.3203-2-15-						0-W07947-10/19/79-14-			10-		-	-	-	-	-	12-1-7-4-7-	-1-	-3-4-2-3-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.47
56-43.4258-108.3294-2-15-						0-W07948-10/19/79-14-			10-		-	-	-	-	-	10-1-7-4-6-	-1-	-2-3-2-3-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.18
56-43.4292-108.3367-2-15-						0-W07949-10/19/79-14-			10-		-	-	-	-	-	10-1-7-4-6-	-1-	-2-4-2-3-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.49
56-43.4428-108.3544-2-11-						0-W07950-10/19/79-14-			10-	10.5	-	-	7.8	-	465	8-1-7-4-6-3-2-1-3-1-2-3-3-			-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.39
56-43.4447-108.3544-2-12-						0-W07951-10/19/79-14-			10-	10.0	-	-	7.6	-	390	8-1-7-4-6-3-3-1-2-3-2-3-3-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.32
56-43.4433-108.3636-2-11-						0-W07952-10/19/79-15-			10-	11.5	-	-	7.9	-	-	6-1-7-5-8-2-2-1-3-4-2-3-3-			-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.52
56-43.4258-108.3383-2-11-						0-W07953-10/19/79-16-			10-	9.5	-	-	7.7	-	1500	9-1-7-5-7-3-2-1-3-3-3-3-3-3-			-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.08
56-43.3844-108.3450-2-15-						0-W07954-10/19/79-18-			10-		-	-	-	-	-	8-1-7-4-7-	-1-	-2-4-2-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.13
56-43.3831-108.3369-2-15-						0-W07955-10/19/79-18-			10-		-	-	-	-	-	12-1-7-4-7-	-1-	-2-4-2-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.54
56-43.3911-108.3133-2-15-						0-W07956-10/19/79-18-			10-		-	-	-	-	-	15-1-7-4-7-	-1-	-2-4-1-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.13
56-43.3906-108.3061-2-15-						0-W07957-10/19/79-18-			10-		-	-	-	-	-	12-1-7-4-7-	-1-	-3-4-1-2-3-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.51
56-43.3956-108.6814-2-15-						0-W07958-10/20/79-11-			7-		-	-	-	-	-	8-1-6-4-6-	-1-	-3-3-2-2-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.12
56-43.3772-108.6606-2-15-						0-W07959-10/20/79-11-			7-		-	-	-	-	-	8-1-6-4-6-	-1-	-2-4-2-2-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.94
56-43.2528-108.7994-2-15-						0-W07963-10/20/79-14-			12-		-	-	-	-	-	16-1-6-4-6-	-1-	-2-4-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.07
56-43.2525-108.8017-2-15-						0-W07964-10/20/79-14-			12-		-	-	-	-	-	11-1-6-4-6-	-1-	-2-4-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.33
56-43.2800-108.8131-2-15-						0-W07965-10/20/79-15-			10-		-	-	-	-	-	10-1-7-4-7-	-1-	-2-4-2-2-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.24
56-43.2808-108.8106-2-15-						0-W07966-10/20/79-15-			10-		-	-	-	-	-	11-1-7-4-7-	-1-	-2-4-2-2-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.29
56-43.2525-108.8331-2-15-						0-W07967-10/20/79-15-			10-		-	-	-	-	-	13-1-6-4-6-	-1-	-2-4-2-2-3-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.16
56-43.2528-108.8747-2-15-						0-W07968-10/20/79-15-			10-		-	-	-	-	-	8-1-6-4-6-	-1-	-2-4-2-1-2-	-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.31
56-43.2803-106.1292-2-15-						0-W07969-10/20/79-10-			10-		-C-	-	-	-	-	22-1-6-5-1-	-1-	-2-3-2-3-4-	-4-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.54
56-43.3897-108.1514-2-15-						0-W07970-10/20/79-11-			10-		-	-	-	-	-	16-1-6-5-6-	-1-	-2-3-1-3-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.84
56-43.4081-108.1639-2-15-						0-W07971-10/20/79-11-			10-		-	-	-	-	-	12-4-7-5-6-	-1-	-2-3-1-4-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.11
56-43.4264-108.1806-2-15-						0-W07972-10/20/79-11-			10-		-	-	-	-	-	14-4-6-4-6-	-1-	-2-3-2-5-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.30
56-43.4305-108.1758-2-15-						0-W07973-10/20/79-11-			14-		-	-	-	-	-	16-4-6-5-6-	-1-	-2-3-2-5-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.16
56-43.4406-108.1694-2-15-						0-W07974-10/20/79-12-			15-		-	-	-	-	-	26-4-6-5-6-	-1-	-2-4-2-5-4-	-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.06
56-43.4447-108.1672-2-12-						0-W07975-10/20/79-12-			16-	8.2	-	-	7.6	-	500	7-4-7-5-6-3-3-1-2-2-2-5-4-			-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.52
56-43.4022-108.1556-2-12-						0-W07977-10/20/79-12-			14-	10.0	-	-	7.6	-	400	5-4-7-4-6-2-2-1-2-2-1-5-4-			-7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.52

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY X-RAY FLUORESCENCE (Concentrations reported in weight parts per million (ppm))									ELEMENTAL CONCENTRATIONS DETERMINED BY ARC-SOURCE EMISSION SPECTROGRAPHY (Concentrations in weight ppm)	
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Ag	Bi	Cd	Cu	Nb	Ni	Pb	Sn	W	Be	Li
56-43.4610-108.3116-2-15-						0-W07037	-5	-5	-5	22	-20	-15	11	-10	-15	2	24
56-43.4119-108.4944-2-15-						0-W07038	-5	6	-5	13	-20	-15	8	-10	-15	2	27
56-43.4125-108.4805-2-15-						0-W07039	-5	-5	-5	15	-20	17	15	-10	-15	3	25
56-43.3925-108.2361-2-15-						0-W07041	-5	-5	-5	16	-20	-15	-5	-10	-15	2	20
56-43.3944-108.2650-2-15-						0-W07042	-5	-5	-5	21	-20	18	9	-10	-15	2	26
56-43.3975-108.2711-2-15-						0-W07043	-5	-5	-5	22	-20	-15	9	-10	-15	2	21
56-43.4172-108.2831-2-15-						0-W07044	-5	-5	-5	25	-20	17	11	-10	-15	3	16
56-43.4206-108.2922-2-11-						0-W07045	-5	-5	-5	15	-20	-15	9	-10	-15		
56-43.4125-108.2922-2-15-						0-W07046	-5	-5	-5	23	-20	-15	11	-10	-15	2	28
56-43.4239-108.3203-2-15-						0-W07047	-5	-5	-5	19	-20	-15	6	-10	16	3	36
56-43.4258-108.3284-2-15-						0-W07048	-5	5	-5	19	-20	-15	12	-10	-15	3	31
56-43.4292-108.3367-2-15-						0-W07049	-5	6	-5	20	-20	17	11	-10	-15	2	25
56-43.4428-108.3544-2-11-						0-W07050	-5	-5	-5	-10	-20	-15	-5	-10	-15	-1	6
56-43.4447-108.3544-2-12-						0-W07051	-5	-5	-5	11	-20	-15	-5	-10	-15		
56-43.4433-108.3636-2-11-						0-W07052	-5	-5	-5	13	-20	-15	-5	-10	-15	1	12
56-43.4258-108.3383-2-11-						0-W07053	-5	-5	-5	19	-20	-15	-5	-10	-15	2	17
56-43.3944-108.3450-2-15-						0-W07054	-5	5	-5	25	-20	23	9	-10	-15	3	43
56-43.3831-108.3369-2-15-						0-W07055	-5	-5	-5	17	-20	-15	12	-10	-15	2	19
56-43.3911-108.3133-2-15-						0-W07056	-5	6	-5	15	-20	-15	7	-10	-15	2	27
56-43.3906-108.2061-2-15-						0-W07057	-5	5	-5	15	-20	18	5	-10	-15	3	45
56-43.3356-108.6814-2-15-						0-W07058	-5	6	-5	16	-20	-15	9	-10	-15	3	31
56-43.3272-108.6606-2-15-						0-W07059	-5	6	-5	38	-20	32	13	-10	21	3	34
56-43.2528-108.7994-2-15-						0-W07063	-5	-5	-5	17	-20	22	15	-10	-15	2	49
56-43.2525-108.8017-2-15-						0-W07064	-5	-5	-5	21	-20	22	18	-10	-15	2	32
56-43.2800-108.8131-2-15-						0-W07065	-5	5	-5	30	-20	27	21	-10	-15	3	40
56-43.2808-108.8106-2-15-						0-W07066	-5	6	-5	35	-20	31	22	-10	15	3	40
56-43.2525-108.8331-2-15-						0-W07067	-5	-5	-5	31	-20	22	17	-10	-15	2	37
56-43.2528-108.8747-2-15-						0-W07068	-5	-5	-5	24	-20	21	16	-10	-15	3	40
56-43.3803-108.1202-2-15-						0-W07069	-5	-5	-5	20	-20	15	15	-10	-15	2	46
56-43.3807-108.1514-2-15-						0-W07070	-5	-5	-5	10	-20	-15	14	-10	-15	2	32
56-43.4081-108.1639-2-15-						0-W07071	-5	-5	-5	18	-20	-15	7	-10	-15	2	25
56-43.4264-108.1606-2-15-						0-W07072	-5	6	-5	10	-20	-15	6	-10	-15	2	20
56-43.4308-108.1758-2-15-						0-W07073	-5	-5	-5	14	-20	15	26	-10	-15	3	51
56-43.4406-108.1694-2-15-						0-W07074	-5	7	-5	16	-20	15	12	-10	-15	3	35
56-43.4447-108.1672-2-12-						0-W07075	-5	-5	-5	21	-20	-15	9	-10	-15	2	19
56-43.4922-108.1556-2-12-						0-W07077	-5	-5	-5	15	-20	-15	43	-10	20	2	14

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS Concentrations reported in weight parts per million (ppm)															
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Al	Au	Ba	Ca	Ce	Cl	Co	Cr	Cs	Dy	Eu	Fe	Hf	K	La	Lu
56-	43.4919-	108.3119-	2-	15-	0-	W07937	55600	-0.10	685	7711	63	-66	7.0	59	3.3	5	1.6	22180	10.0	15680	30	0.3
56-	43.4119-	108.4844-	2-	15-	0-	W07938	47250	-0.08	464	27130	50	-54	3.9	36	3.4	3	1.0	17610	7.9	19620	33	0.2
56-	43.4125-	108.4608-	2-	15-	0-	W07939	47230	-0.07	556	20240	67	98	4.2	47	2.3	4	1.4	15870	11.0	18370	39	0.4
56-	43.3925-	108.2361-	2-	15-	0-	W07941	51380	-0.07	1000	41420	56	-82	5.8	49	2.5	3	1.5	15930	6.5	19490	36	0.3
56-	43.3944-	108.2650-	2-	15-	0-	W07942	49000	-0.10	666	49300	54	86	6.6	54	2.0	4	1.2	17690	8.7	15900	28	0.2
56-	43.3975-	108.2711-	2-	15-	0-	W07943	70340	-0.08	1102	41000	59	-89	6.6	46	1.8	3	1.4	19280	5.0	16230	33	0.2
56-	43.4172-	108.2831-	2-	15-	0-	W07944	76390	-0.10	1231	41720	62	-98	10.1	67	3.9	2	1.5	27020	4.3	15760	38	0.2
56-	43.4206-	108.2922-	2-	11-	0-	W07945	40030	-0.09	977	55060	92	142	5.6	48	2.7	6	1.6	21670	20.5	16910	55	0.4
56-	43.4125-	108.2922-	2-	15-	0-	W07946	65130	-0.12	833	43500	82	-85	9.6	57	4.0	4	1.3	28850	6.1	19240	41	0.3
56-	43.4239-	108.3203-	2-	15-	0-	W07947	51670	-0.09	499	47210	92	108	8.1	53	3.2	6	1.5	32800	14.2	29220	46	0.5
56-	43.4258-	108.3294-	2-	15-	0-	W07948	52580	-0.11	552	47530	70	-66	6.2	45	3.1	5	1.6	25160	10.1	25450	25	0.5
56-	43.4292-	108.3367-	2-	15-	0-	W07949	43900	-0.09	468	37130	52	-63	6.4	45	3.4	3	1.2	19740	11.1	15110	29	0.4
56-	43.4428-	108.3544-	2-	11-	0-	W07950	15100	-0.06	202	29706	19	-36	-0.5	18	1.1	2	0.4	2558	11.5	5962	-10	0.1
56-	43.4447-	108.3544-	2-	12-	0-	W07951	18570	-0.07	182	82960	21	95	0.0	17	3.1	1	-0.5	5640	5.4	6691	-9	0.1
56-	43.4433-	108.3636-	2-	11-	0-	W07952	26440	-0.08	325	11510	28	-45	-1.2	30	4.2	3	1.0	6518	12.7	11960	18	0.3
56-	43.4258-	108.3383-	2-	11-	0-	W07953	31460	-0.07	495	71670	36	84	3.4	30	1.8	3	1.1	11810	9.5	16220	19	0.3
56-	43.3944-	108.3450-	2-	15-	0-	W07954	58810	-0.10	603	26100	62	-74	5.5	52	4.1	4	1.2	20100	8.7	18050	41	0.2
56-	43.3931-	108.3369-	2-	15-	0-	W07955	51100	-0.08	651	26650	83	-76	2.7	39	2.4	5	1.5	13920	16.5	17180	48	0.4
56-	43.3911-	108.3133-	2-	15-	0-	W07956	45810	-0.08	1140	23540	111	88	4.8	55	2.8	6	1.6	18250	19.4	18620	66	0.6
56-	43.3906-	108.3061-	2-	15-	0-	W07957	55330	-0.08	655	31080	71	-80	6.5	42	3.2	4	1.3	18410	10.0	16740	41	0.4
56-	43.3956-	108.6814-	2-	15-	0-	W07958	56900	-0.10	759	19780	134	-76	5.6	58	3.1	5	1.4	18470	16.9	16200	70	0.5
56-	43.3772-	108.6606-	2-	15-	0-	W07959	61240	-0.09	481	33390	68	-68	6.5	61	3.6	4	1.3	23150	8.4	19780	45	0.3
56-	43.2528-	108.7994-	2-	15-	0-	W07963	65070	-0.09	715	15980	58	-79	8.4	63	3.2	4	1.3	23730	6.3	21580	32	0.3
56-	43.2525-	108.8017-	2-	15-	0-	W07964	62410	-0.09	653	12430	62	-75	9.4	75	3.7	4	1.3	25680	7.9	21570	36	0.3
56-	43.2800-	108.8131-	2-	15-	0-	W07965	70690	-0.12	688	11270	75	-89	9.1	73	5.2	4	1.3	27410	5.5	20290	34	0.3
56-	43.2808-	108.8106-	2-	15-	0-	W07966	70250	-0.10	507	16280	69	-81	10.5	75	5.3	4	1.5	29140	6.2	19580	40	0.3
56-	43.2525-	108.8331-	2-	15-	0-	W07967	59700	-0.09	519	16130	69	-64	8.7	70	3.4	4	1.3	23060	8.2	22180	41	0.4
56-	43.2528-	108.8747-	2-	15-	0-	W07968	61760	-0.09	578	27160	67	-72	8.3	65	4.5	4	1.3	24670	7.3	19580	36	0.3
56-	43.3803-	108.1292-	2-	15-	0-	W07969	63750	-0.10	824	28870	73	-75	8.3	63	3.7	5	1.2	21770	6.2	24480	26	0.3
56-	43.3807-	108.1514-	2-	15-	0-	W07970	42490	-0.08	364	57580	60	-48	5.0	37	3.9	4	1.2	20510	11.6	22360	26	0.4
56-	43.4081-	108.1639-	2-	15-	0-	W07971	39840	-0.09	436	62500	63	74	5.6	34	-1.3	5	1.2	21770	10.8	27480	33	0.4
56-	43.4264-	108.1806-	2-	15-	0-	W07972	37690	-0.08	395	55690	81	90	7.6	56	3.1	6	1.3	25000	22.3	22230	39	0.6
56-	43.4308-	108.1758-	2-	15-	0-	W07973	58440	-0.12	704	41410	118	-63	8.9	53	4.3	6	1.6	29050	12.7	37560	42	0.5
56-	43.4406-	108.1694-	2-	15-	0-	W07974	56800	-0.10	512	69480	93	78	8.4	51	3.8	6	1.7	32490	13.7	40350	43	0.7
56-	43.4447-	108.1672-	2-	12-	0-	W07975	29130	-0.11	566	91980	52	-75	6.6	45	3.3	4	1.1	17690	7.5	22140	33	0.4
56-	43.4922-	108.1556-	2-	12-	0-	W07977	32580	-0.05	294	48260	48	-62	4.6	40	-1.7	3	1.3	17930	11.8	15880	21	0.3

APPENDIX I-B. (continued). Elemental Concentrations for Sediment Samples

DOE SAMPLE NUMBER						LASL SAMPLE LOCATION NUMBER	ELEMENTAL CONCENTRATIONS DETERMINED BY NEUTRON ACTIVATION ANALYSIS (continued) Concentrations reported in weight parts per million (ppm)													U/Th RATIO
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE		Mg	Mn	Na	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	V	Yb	Zn	
56-	43.4819-	108.2119-	2-	15-	0-	W07837	6837	368	6913	-35	-3	6.7	4.0	-252	-2	-1	9.5	3147	66	4.1	113	0.301
56-	43.4119-	108.4644-	2-	15-	0-	W07838	20300	271	5066	71	-2	5.4	3.7	-186	-1	-1	10.1	2259	59	2.4	-51	0.279
56-	43.4125-	108.4608-	2-	15-	0-	W07839	18780	287	7612	48	-2	4.9	4.9	-188	-1	-1	13.4	2672	49	3.3	53	0.228
56-	43.3925-	108.2361-	2-	15-	0-	W07841	16270	456	15280	-25	-2	4.2	3.9	540	-1	-1	7.8	2262	41	3.5	-32	0.324
56-	43.3944-	108.2650-	2-	15-	0-	W07842	43550	343	8745	58	-2	4.6	4.3	-258	-1	-1	7.7	2630	45	2.8	-30	0.296
56-	43.3975-	108.2711-	2-	15-	0-	W07843	22560	371	16600	59	-2	4.7	4.0	758	-1	-1	7.1	2277	48	2.3		0.292
56-	43.4172-	108.2831-	2-	15-	0-	W07844	21440	463	17580	-31	-2	7.1	3.3	793	-1	-1	7.4	3020	78	1.4	94	0.230
56-	43.4206-	108.2922-	2-	11-	0-	W07845	69000	147	6018	-30	-2	5.8	5.9	-181	-1	-1	12.6	3173	50	5.1	-35	0.250
56-	43.4125-	108.2922-	2-	15-	0-	W07846	26080	434	9464	-36	-3	7.5	4.7	529	-1	-1	9.8	2935	57	3.2	86	0.227
56-	43.4239-	108.3203-	2-	15-	0-	W07847	29740	557	4214	89	-2	8.2	7.3	-244	-1	-1	15.3	2876	51	7.0	-38	0.227
56-	43.4258-	108.3294-	2-	15-	0-	W07848	27940	521	4890	70	-3	7.2	5.1	-276	-1	-1	12.0	3307	49	3.9	111	0.265
56-	43.4292-	108.3367-	2-	15-	0-	W07849	30390	492	5084	-30	-2	5.9	3.9	-242	-1	-1	7.8	2929	44	3.1	-21	0.319
56-	43.4428-	108.3544-	2-	11-	0-	W07850	13770	36	2132	-22	-2	1.2	1.1	-115	-1	-1	2.7	657	10	-1.5	-27	0.515
56-	43.4447-	108.3544-	2-	12-	0-	W07851	62080	58	2587	-22	-2	2.0	1.3	-139	-1	-1	2.5	1030	17	-1.5	41	0.528
56-	43.4433-	108.3636-	2-	11-	0-	W07852	16100	66	4424	-23	-2	2.8	2.3	-137	-1	-1	5.2	1942	28	-1.4	62	0.485
56-	43.4258-	108.3383-	2-	11-	0-	W07853	33460	272	4746	-25	-2	3.8	3.3	-190	-1	-1	6.5	2062	28	-1.3	-32	0.320
56-	43.3944-	108.3450-	2-	15-	0-	W07854	27900	375	8957	49	-2	6.0	5.2	-256	-1	-1	9.9	2800	44	-2.3	32	0.316
56-	43.3931-	108.3369-	2-	15-	0-	W07855	13960	326	11600	47	-2	4.5	5.6	-221	-1	-1	13.8	1984	30	4.5	-31	0.257
56-	43.3911-	108.3133-	2-	15-	0-	W07856	12580	427	8640	58	-2	6.0	7.6	-218	-1	-1	19.9	2998	39	4.0	-31	0.208
56-	43.3906-	108.3061-	2-	15-	0-	W07857	18640	357	13520	41	-2	4.9	4.8	-237	-1	-1	12.9	2198	34	-1.5	-34	0.272
56-	43.3356-	108.6814-	2-	15-	0-	W07858	16840	390	9132	-32	-2	5.9	8.2	-262	-2	-1	26.0	3682	44	4.5	-39	0.158
56-	43.3272-	108.6606-	2-	15-	0-	W07859	25070	503	7375	65	-2	7.0	5.5	-243	-1	-1	12.3	3033	51	2.5	44	0.239
56-	43.2528-	108.7994-	2-	15-	0-	W07863	24730	430	13260	67	-2	7.7	4.7	370	-1	-1	11.0	3076	58	2.6	44	0.279
56-	43.2525-	108.8017-	2-	15-	0-	W07864	26120	466	10060	84	-2	8.5	5.7	-285	-1	-1	13.6	3062	62	-1.7	79	0.245
56-	43.2900-	108.8131-	2-	15-	0-	W07865	23490	564	9313	54	-3	8.5	5.3	-324	-1	-1	12.5	3717	67	3.3	73	0.259
56-	43.2808-	108.8106-	2-	15-	0-	W07866	27830	556	9329	84	-3	9.0	4.7	-278	-1	-1	12.5	3115	68	5.1	154	0.263
56-	43.2525-	108.8331-	2-	15-	0-	W07867	21560	417	8632	64	-2	7.1	4.9	-229	-1	-1	14.5	3136	56	3.1	46	0.218
56-	43.2528-	108.8747-	2-	15-	0-	W07868	22640	433	9026	95	-2	7.4	4.7	-239	-1	-1	11.4	3455	57	2.5	65	0.290
56-	43.3803-	108.1292-	2-	15-	0-	W07869	18060	328	7675	66	-3	6.1	5.9	419	-1	-1	9.7	2627	52	3.0	-42	0.262
56-	43.3897-	108.1514-	2-	15-	0-	W07870	22410	376	7737	57	-2	6.0	4.4	-194	-1	-1	11.6	2059	38	3.8	-24	0.245
56-	43.4081-	108.1639-	2-	15-	0-	W07871	21270	476	2854	68	-2	5.9	5.0	-215	-1	-1	10.7	2226	33	2.7	-30	0.291
56-	43.4264-	108.1806-	2-	15-	0-	W07872	41600	382	3750	50	-2	6.8	5.8	-201	-1	-1	14.1	2835	36	4.4	-38	0.305
56-	43.4308-	108.1758-	2-	15-	0-	W07873	24440	570	2694	101	-3	8.6	7.9	-303	-2	-1	17.6	4263	52	4.1	-35	0.236
56-	43.4406-	108.1694-	2-	15-	0-	W07874	25850	503	2217	116	-3	9.0	7.1	-265	-1	-1	15.8	3460	48	5.2	-41	0.257
56-	43.4447-	108.1672-	2-	12-	0-	W07875	27260	306	4694	-37	-3	5.2	3.8	-265	-1	-1	9.1	2613	39	2.5	-46	0.277
56-	43.4922-	108.1556-	2-	12-	0-	W07877	23610	254	3900	36	-1	4.6	4.3	-239	-1	-1	8.1	2604	37	2.2	64	0.311

APPENDIX II

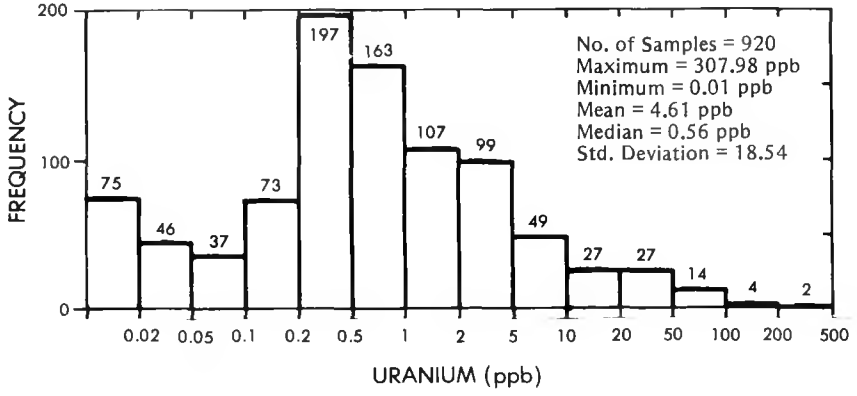
HISTOGRAMS OF URANIUM CONCENTRATIONS IN WATER AND SEDIMENT SAMPLES AND THORIUM CONCENTRATIONS IN SEDIMENT SAMPLES FROM THE THERMOPOLIS NTMS QUADRANGLE, WYOMING

APPENDIX II-A

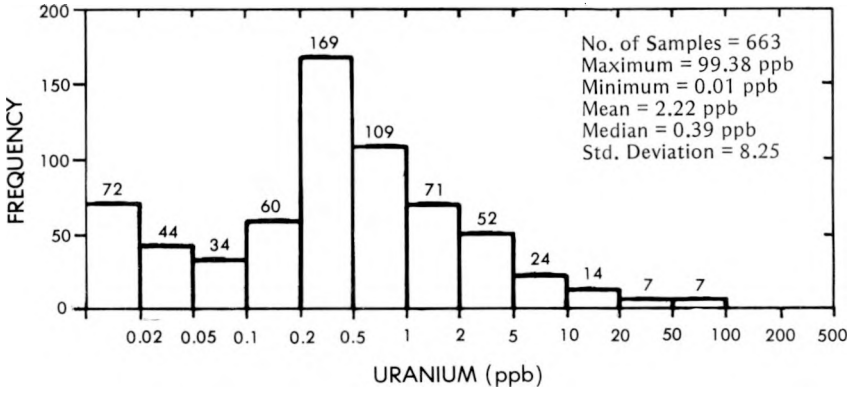
Semilogarithmic Histograms of Uranium Concentrations in Water Samples from the Thermopolis Quadrangle, Wyoming

APPENDIX II-A

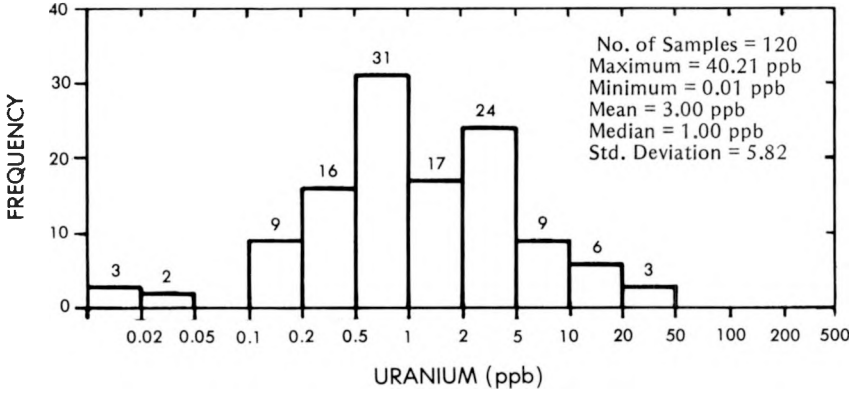
SEMILOGARITHMIC HISTOGRAMS OF URANIUM CONCENTRATIONS IN WATER SAMPLES FROM THE THERMOPOLIS QUADRANGLE, WYOMING



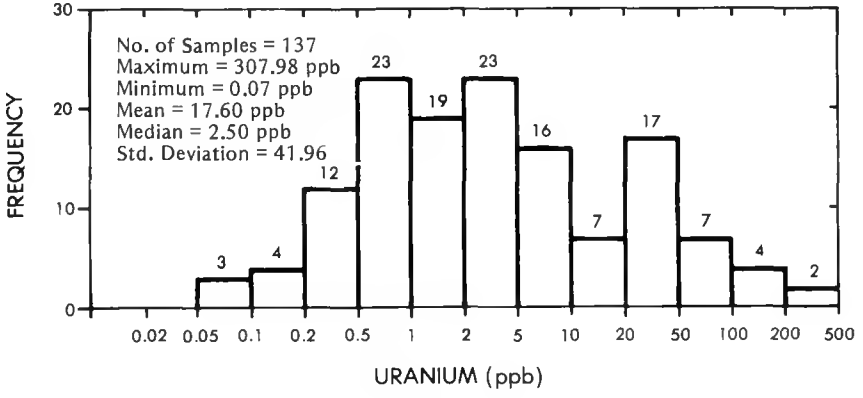
a. All waters



b. Stream waters



c. Spring waters



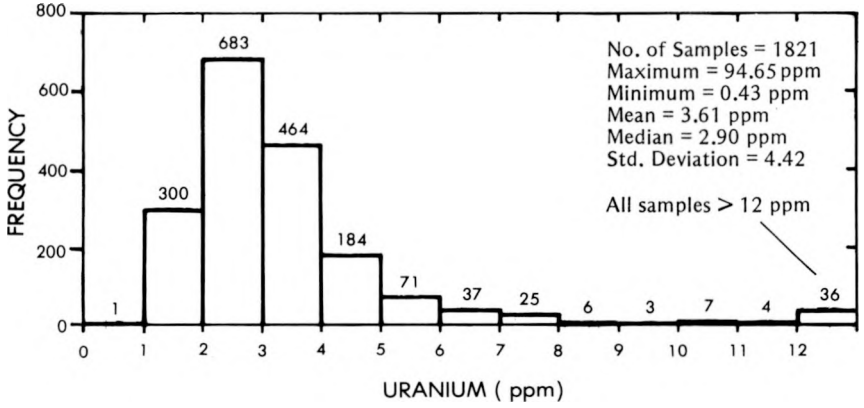
d. Well waters

APPENDIX II-B

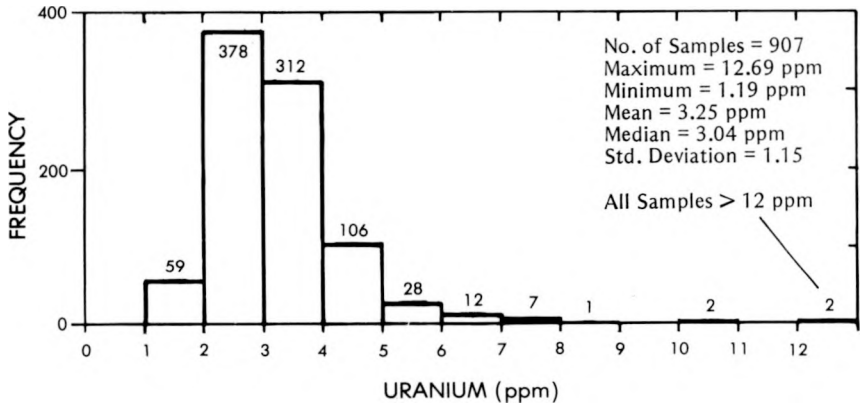
Histograms of Uranium Concentrations in Sediment Samples from the Thermopolis Quadrangle, Wyoming

APPENDIX II-B

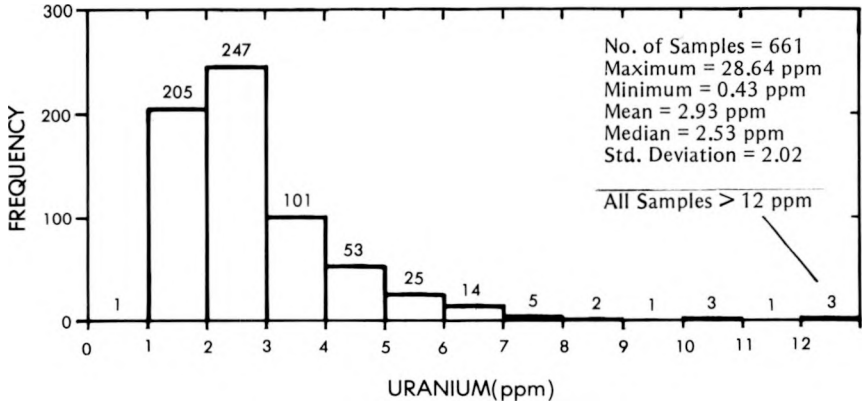
HISTOGRAMS OF URANIUM CONCENTRATIONS IN SEDIMENT SAMPLES FROM THE THERMOPOLIS QUADRANGLE, WYOMING



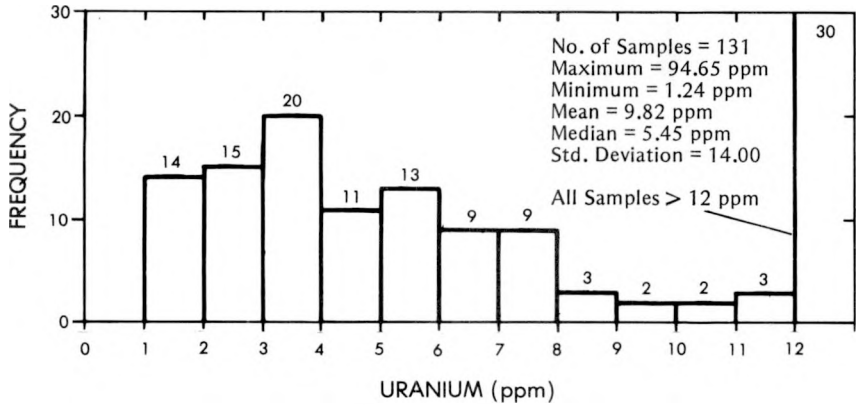
a. All sediments



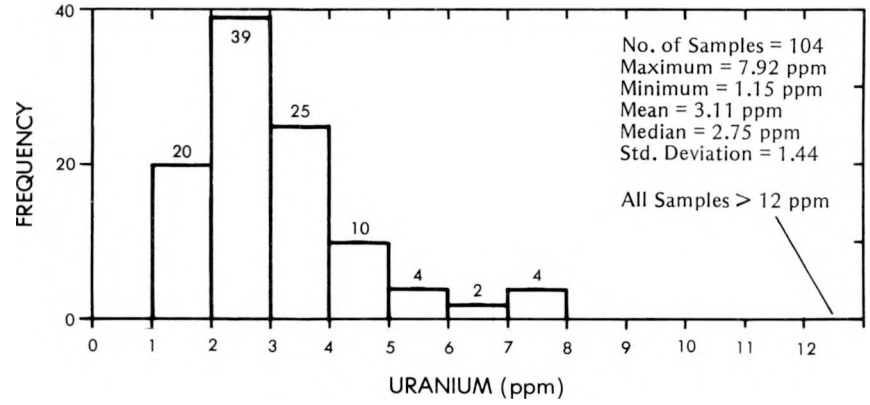
b. Dry stream sediments



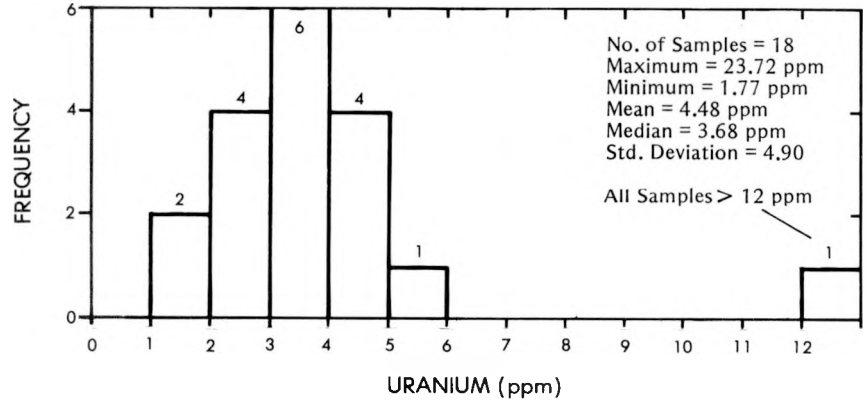
c. Wet stream sediments (sieved-100 mesh)



d. Wet stream sediments (sieved -80 mesh)



e. Wet spring sediments



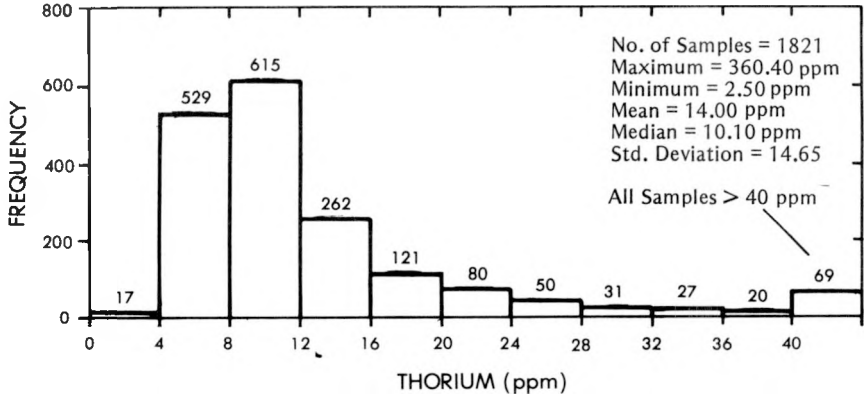
f. Dry spring sediments

APPENDIX II-C

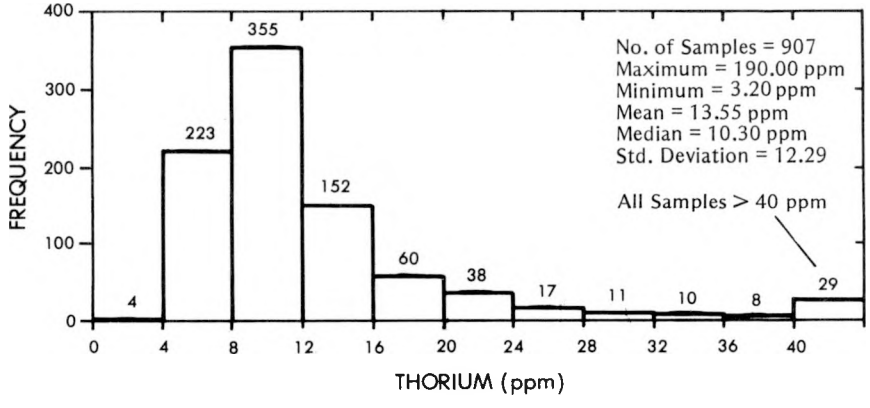
Histograms of Thorium Concentrations in Sediment Samples from the Thermopolis Quadrangle, Wyoming

APPENDIX II-C

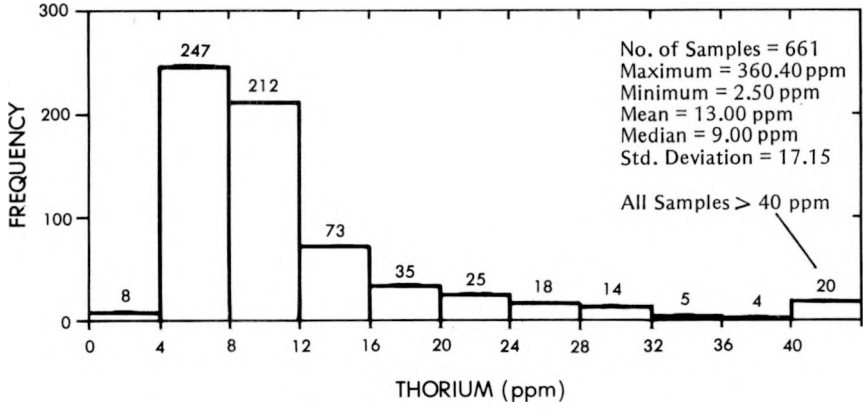
HISTOGRAMS OF THORIUM CONCENTRATIONS IN SEDIMENT SAMPLES FROM THE THERMOPOLIS QUADRANGLE, WYOMING



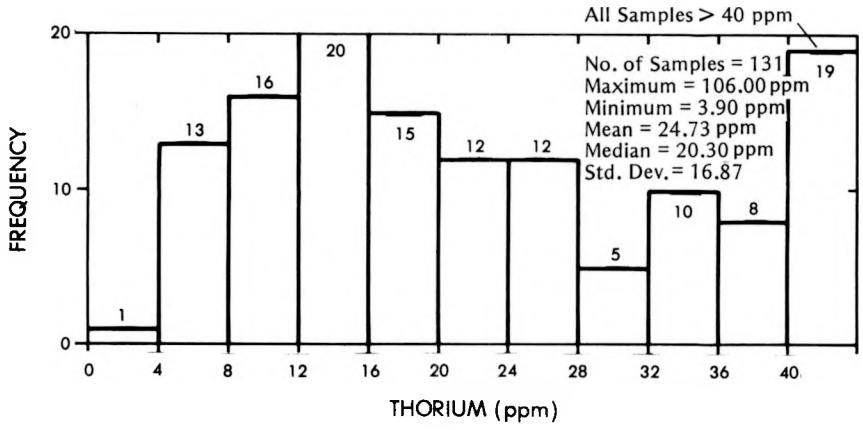
a. All sediments



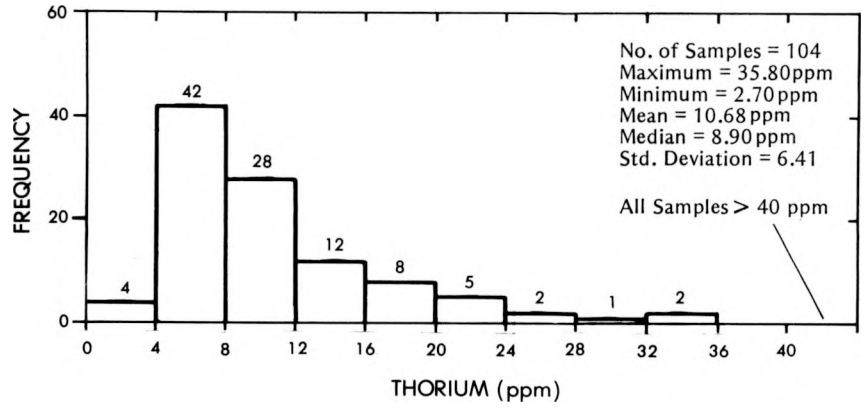
b. Dry stream sediments



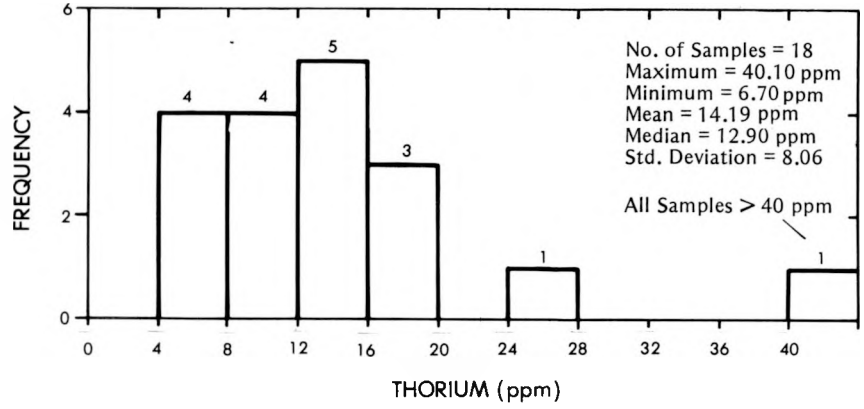
c. Wet stream sediments (sieved -100 mesh)



d. Wet stream sediments (sieved-80 mesh)



e. Wet spring sediments



f. Dry spring sediments

APPENDIX III

SUMMARY OF STANDARD LASL HSSR PROCEDURES AND CODES

APPENDIX III-A

Summary of Standard LASL HSSR Field and Analytical Procedures

APPENDIX III-A

SUMMARY OF STANDARD LASL HSSR FIELD AND ANALYTICAL PROCEDURES

I. FIELD PROCEDURES

Water Sampling

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

Sediment Sampling (Wet or Dry)

Following the collection of the water sample (if any), 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 adjacent spots at each spring or stream location. The sediment is put into a new, clean, and originally sealed, rip-top polyethylene bag which is then properly double-labeled for delivery (with the field data form) to the contractor's drying facility. After drying at <100°C, each sample is sieved through a 100-mesh stainless steel sieve. The minus 100-mesh fraction is put into a prewashed, 25-ml polyethylene vial which is then appropriately double-labeled (using labels from the data form) and sealed for shipment to the LASL. In the case of lakes sampled in Alaska, the sediment is taken from as near the center of each lake as possible by dropping a tethered, stainless steel bottom sampler overboard from a pontoon-equipped helicopter. Here, only a bottom sample from a single location is taken (i.e., it is not a composite) and sampling is limited to lakes less than 10 m deep and about 0.3 to 2.0 km in least horizontal dimension. The sampler is rinsed before each use and the raw sample is put into a clean polyethylene bag, labeled, and treated as above.

Field Measurements

The air temperature, read 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-half degree Celsius. The pH of the source water is measured with a calibrated, portable pH meter and recorded to the nearest one-tenth of a pH unit. The conductivity (in μmho/cm) of the source water is measured with a calibrated, temperature-compensated (25°C), portable meter. The scintillometer readings are measured with a portable scintillometer on a flat, dry spot within a few meters of the sample location at spring or stream sites. 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 measured calibration factors, to the equivalent uranium (eU) value in the data listings. Special measurements such as dissolved oxygen are made with a calibrated, commercially available, portable meter and probe. In lakes, the water temperature, pH, conductivity, and (special) dissolved oxygen are usually all measured with a single, digital-readout unit, utilizing a parameter selector switch and a composite probe that is lowered from the sampling helicopter to just below the water's surface. Care is taken to see that these measurements are made before the bottom sediment is disturbed.

Field Observations

These represent the best judgment of the field sampler at a location and include general descriptions of the local bedrock, sediment, water, vegetation, terrain, weather, possible contaminants, and well configuration, if applicable. Because these observations are subjective and made quickly in the field, they should be held subordinate to 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 general locations symbolically premarked at the LASL. In the lower states, the field maps are generally 1:24 000-scale or 1:62 500-scale USGS topographic maps; in Alaska, they are normally 1:250 000-scale NTMS quadrangle maps, also available from the USGS. As each location is sampled, a unique sample location number, preprinted on transparent adhesive labels (also used for labeling the samples) that are provided with each identically numbered field data form, is placed on top of the precisely marked point representing the sample site on the field map. When a desired sample as specified cannot be obtained, an identical or alternate sample type (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 latitude and longitude of each location is then computed by the sampling contractor within 48 h of taking each sample. Every location is later checked (and corrected if necessary) at the LASL by digitizing the sample locations on each map and comparing them to those computed in the field. The latitudes and/or longitudes are corrected if the field-computed locations are displaced by more than 300 m from the locations marked on the field maps. A final visual check of sample locations is made by overlaying computer-produced location plots on the field maps used. The computer program for generating the Universal Transverse Mercator map projection overlays is described by Cheadle (1977).

II. ANALYTICAL PROCEDURES

Uranium Determination in Water Samples by Fluorometry

Under normal procedures, the 25-ml water vial is vigorously shaken and duplicate 0.20-ml aliquots of water are transferred to platinum dishes. The aliquots are evaporated under heat lamps and a 0.4-g pellet of 2% LiF-98% NaF flux is added to each dish. The pellets are first preheated under lamps, then fused over special propane burners. After each pellet/sample cools, it is excited with ultraviolet radiation in the fluorometer and the fluorescence is read and recorded. The uranium concentrations are determined by using a computer routine which compares the fluorescence from each pellet with those from

other pellets, run at the same time, containing uranium-standard solutions and blanks. The uranium concentration of the sample, as given in the appropriate data listings, is then the average obtained from the duplicate aliquots. The lower limit of detection for each aliquot by the normal procedure is 0.2 ppb; however, in some areas many samples have uranium concentrations below this. Consequently, when a sample run by the normal procedure is determined to have <0.2 ppb uranium, it is routinely reanalyzed using new duplicate aliquots that have been put through an additional evaporative concentration step that provides a 10X concentration factor. This additional procedure, using the same basic fluorometric method, reduces the lower limit of detection of uranium in natural waters to 0.02 ppb. When a uranium concentration lower than 0.02 ppb is found in an aliquot, it is arbitrarily assigned a value of 0.01 ppb. If the uranium value given in the data listings is 0.01 ppb, both aliquots had uranium concentrations below the detection limit. Whether concentrated or not (which can be determined from the uranium level in the listing), the fluorometric analytical precision is ≈30% at the lower detection limit, ≈20% at one order of magnitude above this, and ≈10% at two or more orders of magnitude above the lower detection limit. The basic fluorometric method used is described in detail by Hues et al (1977).

Uranium Determination in Water Samples by Delayed-Neutron Counting (DNC)

Only waters with >40 ppb uranium (as determined by fluorometry at the LASL, where this is the upper limit of detection without recalibration) or those with impurities that cause interference with uranium-induced fluorescence are analyzed using DNC. Samples are received in 41-ml or 25-ml vials (used exclusively in some of the early work) and are transferred to clean, labeled, 41-ml rabbits before being analyzed. Each water sample is weighed, and its weight (less that of the rabbit) and location number are recorded. The vials are then loaded into a 25-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked and four standards are run for calibration. The transfer clip is installed on the pneumatic feed line and the samples are cycled through the system (typically, a 60-s irradiation, 30-s delay, and 60-s count cycle is used). The uranium concentration is automatically measured, converted to ppb, and entered into a computer data base. The lower detection limit for uranium in water by DNC as used at the LASL is 0.5 ppb. The statistical error of this method is ≈20% at a uranium concentration of 1 ppb, ≈6% at 10 ppb, and <4% at 40 ppb or greater. Statistical treatments of uranium concentrations obtained from the same suites of samples analyzed both by fluorometry and DNC have shown that there is no significant difference between the results of the two analytical methods as used at the LASL. This analytical comparability is rechecked periodically.

Uranium Determination in Sediment Samples by DNC

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, and its weight (less that of the rabbit) recorded along with the appropriate location number. These rabbits are then loaded into a 50-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked, and standards are run for calibration. The transfer clip is installed and the samples are cycled through the system (typically, a 20-s irradiation, 10-s delay, and 30-s count cycle is used). The uranium concentration is automatically measured, converted to ppm, and

entered into the data base. The lower limit of detection of this method is 0.01 ppm uranium, far below the range of uranium concentrations in natural sediment samples. Above the 1 ppm level, the uranium values in sediment measured by DNC at the LASL have a one-sigma error of less than 4%. The specially designed delayed-neutron detectors, built by the LASL and used for these analyses, are described by Balestrini et al (1976).

Elemental Determinations in Sediment Samples by Energy Dispersive X-Ray Fluorescence

A computer-controlled, energy-dispersive x-ray fluorescence system is used to determine Ag, Bi, Cd, Cu, Nb, Ni, Pb, Sn, and W in sediments. The system consists of an automatic 20-position sample changer, a lithium-drifted silicon detector, a pulsed molybdenum transmission-target x-ray tube, a multichannel analyzer, and a minicomputer. The sediment samples are prepared for analysis by grinding 6 g of each minus 100-mesh sample to a minus 325-mesh powder. A computer program positions the 6-g samples in the x-ray beam, unfolds overlapping peaks, determines peak intensities for each element, and calculates the ratio of the intensity of each peak to that of the molybdenum K_α Compton peak. Concentrations of each element are then calculated using equations obtained by analyzing prepared standards. Detection limits are: 5 ppm for Ag, Bi, Cd, and Pb; 10 ppm for Cu and Sn; 15 ppm for Ni and W; and 20 ppm for Nb. When an analysis results in an elemental concentration that is below the detection limit, a minus sign preceding the value of the detection limit for that element is inserted in the data listings. The relative standard deviation is 10% or less at the 100-ppm level and 20% or less at the 20-ppm level. Details of the method and equipment used are described by Hansel and Martell (1977).

Beryllium and Lithium Determinations in Sediment Samples by Arc-Source Emission Spectrography

A 5-mg portion of the -325-mesh sample that has already been analyzed by x-ray fluorescence is mixed with 10 mg of a buffer consisting of one part graphite and one part SiO_2. The sample/buffer mixture is placed into a graphite electrode that is used as the anode of a dc arc having a short circuit current of 6A for 10 s, then 17A for 50 s. Photomultiplier tubes in a direct-reading spectrograph are used to measure the second order 313.0-nm line of Be, the first order 670.7- and 610.3-nm lines of Li, the background spectra near these lines, and the 327.6-nm line of V. The 670.7-nm Li line is used for Li concentrations up to 10 ppm and the 610.3-nm line of Li is used for concentrations above 10 ppm. The V line is used to correct the Be value when V is present. The signals from the photomultiplier tubes are read by a digital voltmeter and are processed by a desk-top calculator. The results are simultaneously printed on paper and written on cassette tape for later transmission to a computer data file. The elemental concentrations of Be and Li are determined from the spectra, based on the results of previously run calibration standards. The lower detection limit for both elements is 1 ppm. When an analysis results in an elemental concentration that is below the detection limit, a minus sign preceding the value of the detection limit for that element is inserted in the data listings. Precision at the lower detection limit is ≈50% for both elements and improves to ≈25% at one order of magnitude above the lower limit.

Elemental Determinations in Sediment Samples by Neutron Activation Analysis (NAA)

Immediately upon completion of the uranium analysis of sediment samples by DNC, the same 4-ml sediment splits are entered into the NAA sequence. The concentrations of 31 additional elements are determined by this procedure. The full DNC/NAA timing sequence used at the LASL for each sediment sample is: 20-s irradiation, 10-s delay, 30-s DNC analysis, 20-min delay, 500-s γ-ray count for short-lived radionuclides, 96-s re-irradiation, 14-day delay, and finally a 1000-s γ-ray count for long-lived radionuclides. The γ-ray counting is done by lead-shielded Ge(Li) detectors; the 4096-channel γ-ray data are recorded and subsequently analyzed for each individual element by computer. The analytical data for each sample are automatically printed out along with the associated statistical errors. The lower detection limits for the various elements as reflected by the "less than" values (denoted by a minus sign in front of a concentration) in the data listings are the values for the individual elements at which the statistical counting error approaches 50%. Current "typical" lower detection limits for the elements determined by NAA are reported in Nunes and Weaver (1978); however, the actual detection limit for an element depends upon the composition of the sample, and this limit may be higher or lower than the typical value. At concentration values one order of magnitude above the lower detection limits, the relative errors are generally less than 10%.

APPENDIX III-B

Explanation of Codes Used in Appendix I

APPENDIX III-B

EXPLANATION OF CODES USED

DOE SAMPLE NUMBER

STATE: A two-digit Federal Information Processing Standards (FIPS) code that designates the state from which each sample came. For the states being sampled 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," in section C of this appendix.

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 all smaller sequential numbers representing earlier samples back to 0, 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 a single zero.

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.

Location Numbers		State
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 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 measured in the shade at the time of sampling, to the nearest whole degree Celsius (°C).

WATER TEMPERATURE: The temperature measured in the sample water (in situ whenever possible) at the time of sampling, to the nearest one-half of one degree Celsius (0.5°C).

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

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

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

CONDUCTIVITY: The conductivity, in μmho/cm, 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

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: Not used.

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). Those uranium concentrations <u>in water</u> that are shown with an asterisk were measured using the delayed-neutron counting method, while those without an asterisk were determined fluorometrically. The uranium analyses in water samples as determined by both of these methods at the LASL are directly comparable, as noted in section A of this appendix.

REMAINING ENTRIES: The data presented in the remaining entries of the listings utilize no codes as such and are described in the respective column headings. However, there are four conventions used throughout the listings of elemental concentrations: a) all concentrations in waters are reported in ppb; b) all concentrations in sediments are reported in ppm; c) concentrations "less than" the lower detection limit are denoted by a minus sign before this limit for the specific sample (except for fluorometrically determined uranium in waters, the convention for which is described in section A of this appendix); and d) a blank space in the data listings for any elemental concentration signifies that no analytical result was obtained for that element.

APPENDIX III-C

Key to Sample Types Listed in Appendix I

APPENDIX III-C

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, stream, dry stream, etc.); (b) The sample medium (water or sediment); 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 sample type columns of the specially formatted DOE sample numbering system to positively identify the sample type for all LASL sample data submitted.

KEY NO. SOURCE / MEDIUM / TREATMENT

01 - Spring water sample untreated.

02 - Stream water sample untreated.

03 - Well water sample untreated.

04 - Natural pond water sample untreated.

05 - Artificial pond water sample untreated.

06 - Spring water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

07 - Stream water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

08 - Well water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

09 - Natural pond water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

10 - Artificial pond water sample filtered through a 0.45-μ membrane filter and acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

11 - Wet spring sediment sample dried at ≤100°C and sieved to -100 mesh through stainless steel sieves.

12 - Wet stream sediment sample dried at ≤100°C and sieved to -100 mesh through stainless steel sieves.

13 - Wet natural pond sediment sample dried at ≤100°C and sieved to -100 mesh through stainless steel sieves.

14 - Wet artificial pond sediment sample dried at ≤100 °C and sieved to -100 mesh through stainless steel sieves.

15 - Dry stream sediment sample dried at ≤100 °C (if necessary) and sieved to -100 mesh through stainless steel sieves.

27 - Stream water sample acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

29 - Natural pond or lake water sample acidified to a pH of ≤1 with reagent-grade nitric acid (HNO_3).

37 - Wet stream sediment sample dried at ≤100 °C (if necessary) and sieved to -80 mesh through stainless steel sieves.

96 - Dry natural pond sediment sample dried at ≤100 °C (if necessary) and sieved to -100 mesh through stainless steel sieves.

97 - Dry artificial pond sediment sample dried at ≤100 °C (if necessary) and sieved to -100 mesh through stainless steel sieves.

99 - Dry spring sediment sample dried at ≤100 °C (if necessary) and sieved to -100 mesh through stainless steel sieves.

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* U.S. GOVERNMENT PRINTING OFFICE: 1980—677-115/145

LA-8005-MS

PLATE I

110 ° 00′ W — 45′ — 30′ — 15′ — 109 ° 00′ W — 45′ — 30′ — 15′ — 108 ° 00′ W

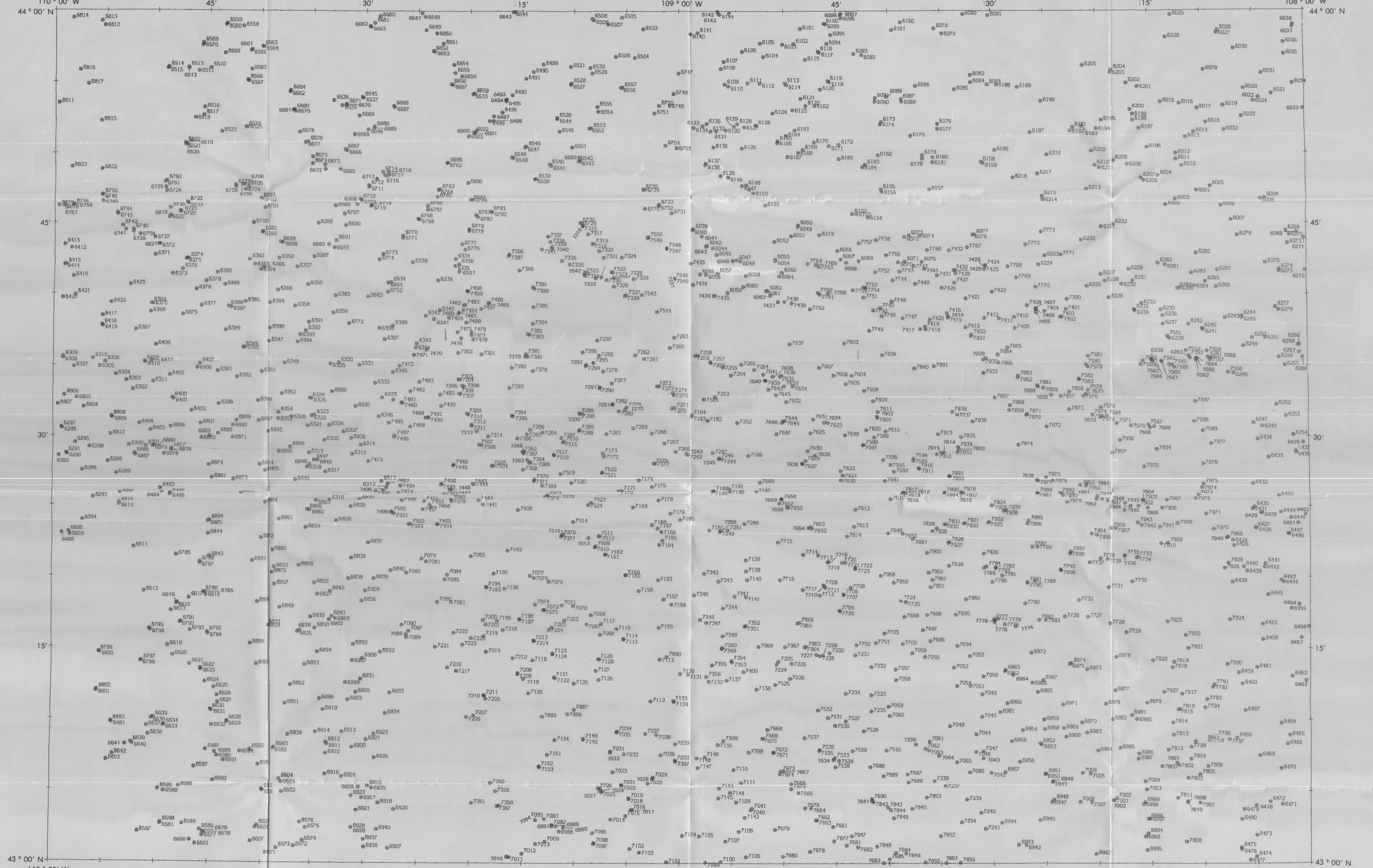
44 ° 00′ N

45′

30′

15′

43 ° 00′ N



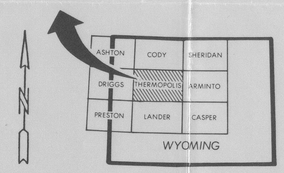
The LASL sample location numbers above are the same as those used in APPENDIX I except the leading two aphanumeric characters have been dopped.

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

SAMPLE LOCATION OVERLAY FOR THE THERMOPOLIS NTMS QUADRANGLE, WYOMING



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PLATE II



LEGEND

SYMBOLS	CONCENTRATIONS (ppb)	
◇ SPRING	◇ □ ○	0.00– .50
	◇ □ ○	.51– 1.00
	◇ □ ○	1.01– 2.00
	◇ □ ○	2.01– 5.00
□ STREAM	◇ □ ○	5.01– 10.00
	◇ □ ○	10.01– 20.00
	◇ □ ○	20.01– 50.00
○ WELL	◇ □ ○	> 50.00

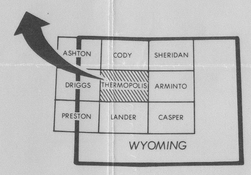
SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

URANIUM CONCENTRATIONS (ppb) IN WATERS - OVERLAY TO THE THERMOPOLIS NTMS QUADRANGLE, WYOMING.

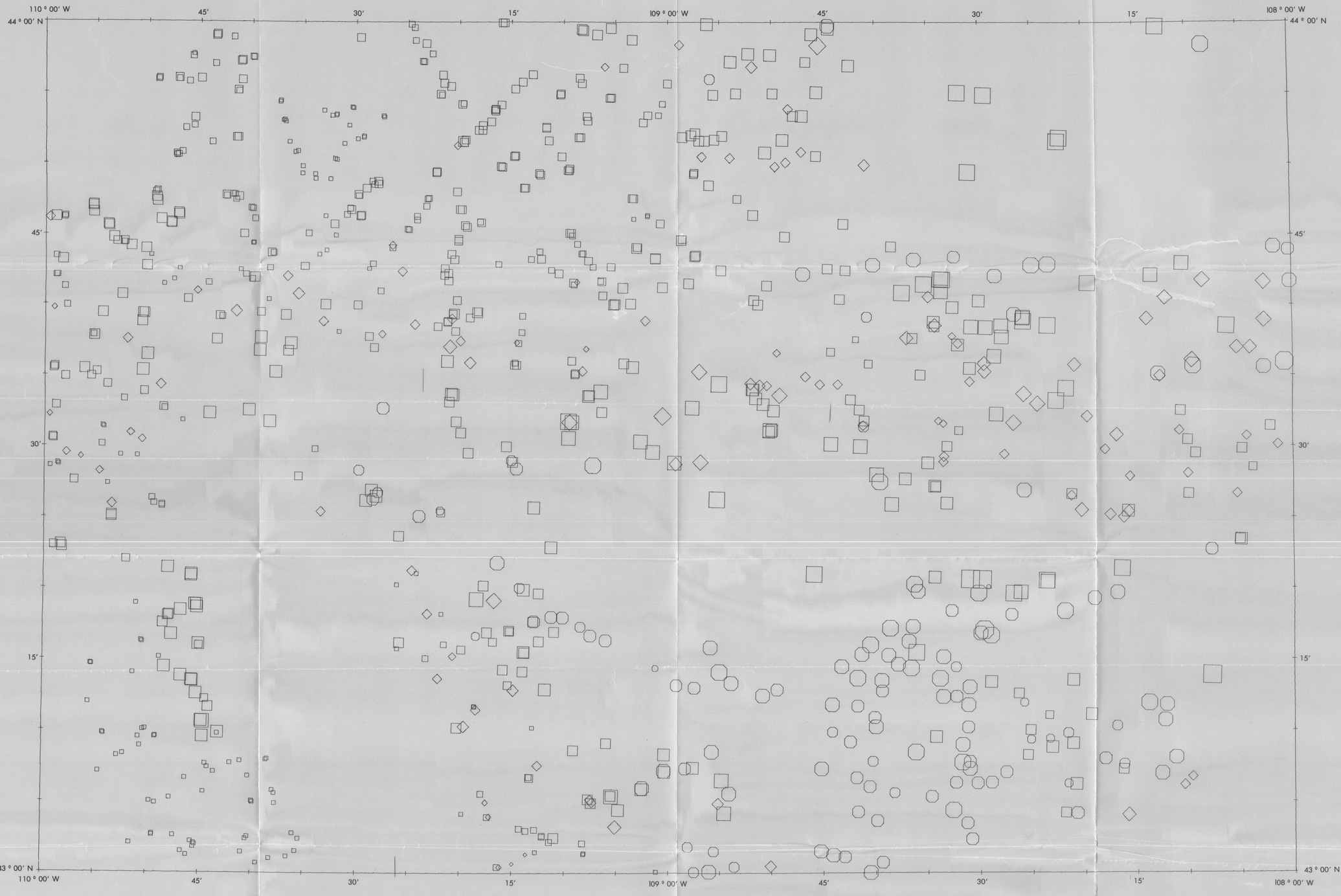
N



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PLATE III



LEGEND

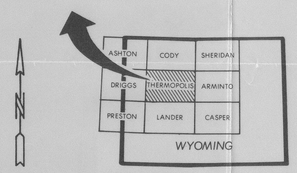
SYMBOLS	CONDUCTIVITIES (μmho/cm)
◇ SPRING	0 - 50
□ STREAM	51 - 100
○ WELL	101 - 200
	201 - 500
	501 - 1000
	1001 - 2000
	2001 - 5000
	> 5000

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

CONDUCTIVITIES (μmho/cm) IN WATERS - OVERLAY TO THE THERMOPOLIS NTMS QUADRANGLE, WYOMING.



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PLATE IV



LEGEND

SYMBOLS

- ◇ WET SPRING
- □ WET STREAM
- ☒ DRY STREAM
- \+ DRY SPRING

CONCENTRATIONS (ppm)

0.00– 2.00
2.01– 3.00
3.01– 4.00
4.01– 5.00
5.01– 7.00
7.01– 9.00
9.01– 12.00
> 12.00

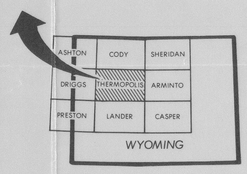
SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

URANIUM CONCENTRATIONS (ppm) IN SEDIMENTS - OVERLAY TO THE THERMOPOLIS NTMS QUADRANGLE, WYOMING.

N



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PLATE V

110 ° 00′ W — 45′ — 30′ — 15′ — 109 ° 00′ W — 45′ — 30′ — 15′ — 108 ° 00′ W

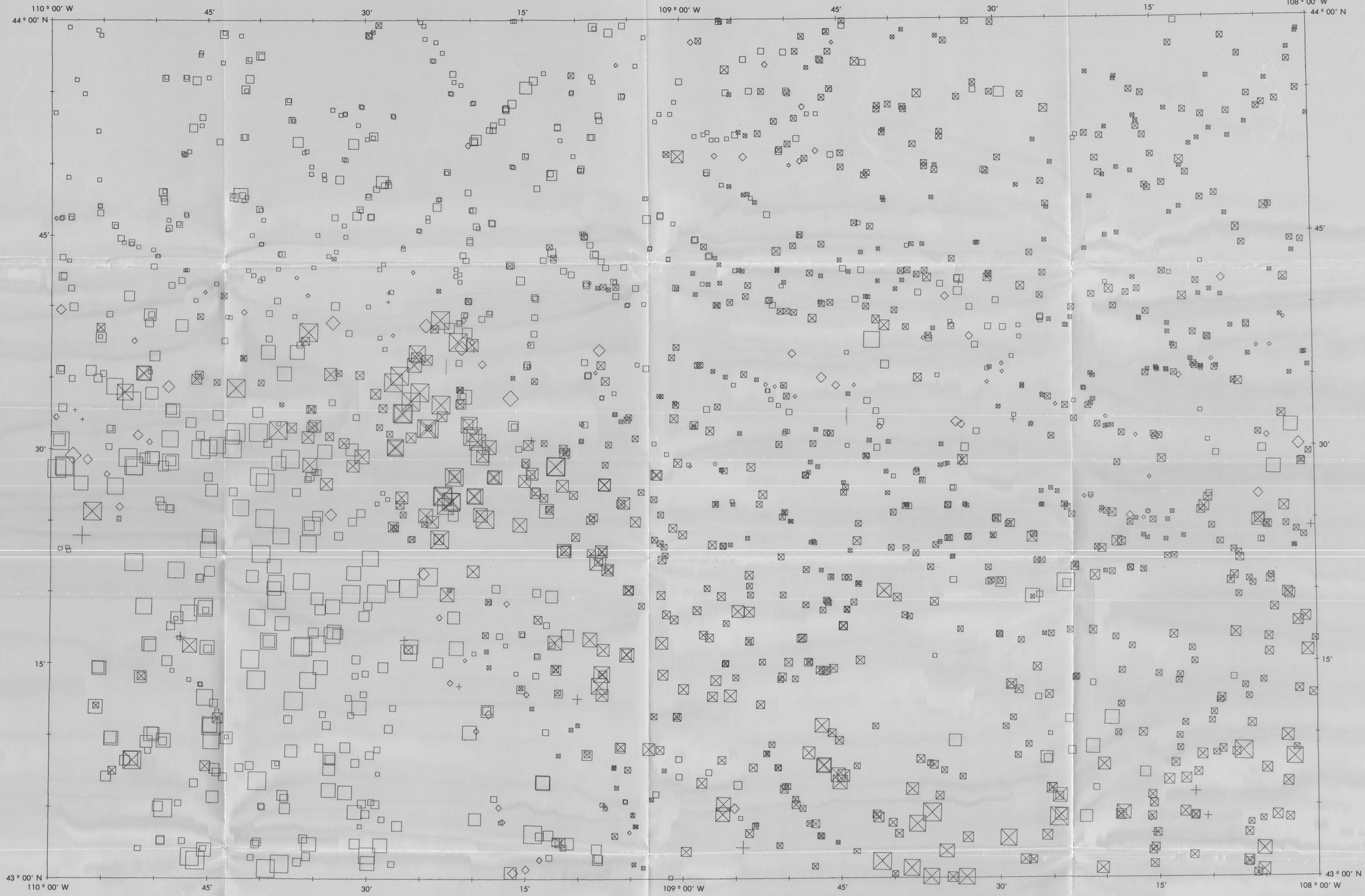
44 ° 00′ N

45′

30′

15′

43 ° 00′ N



LEGEND

SYMBOLS	CONCENTRATIONS (ppm)
◇ WET SPRING	0.0– 8.0
□ WET STREAM	8.1– 12.0
⊠ DRY STREAM	12.1– 16.0
+ DRY SPRING	16.1– 20.0
	20.1– 24.0
	24.1– 32.0
	32.1– 40.0
	> 40.0

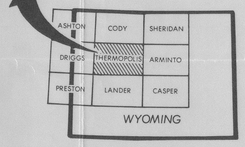
SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

THORIUM CONCENTRATIONS (ppm) IN SEDIMENTS - OVERLAY TO THE THERMOPOLIS NTMS QUADRANGLE, WYOMING.

N



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