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Issued: February 1978

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Uranium Hydrogeochemical and Stream Sediment Reconnaissance in Southwestern Montana

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URANIUM HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE IN SOUTHWESTERN MONTANA

by

David E. Broxton

ABSTRACT

The Los Alamos Scientific Laboratory conducted a Hydrogeochemical and Stream Sediment Reconnaissance in southwestern Montana from early August to mid-October of 1976. A total of 1240 water and 1933 sediment samples were collected from 1994 locations at a nominal density of one location per 10 km². The water samples were collected from streams, wells, and springs; sediment samples were taken at streams and springs. All samples were analyzed at Los Alamos for total uranium by fluorometry or delayed-neutron counting.

The uranium content of water samples ranges from below the detection limit (<0.2 ppb) to 45.30 ppb and has a mean value of 1.40 ppb. The uranium content of the sediment samples ranges between 0.20 and 206.80 ppm and averages 6.12 ppm. The chosen uranium anomaly threshold value was 7 ppb for surface waters (streams), 9 ppb for groundwaters (wells and springs), and 25 ppm for all sediment samples.

The study area consists of the following lithologic groups: Precambrian basement complex, Precambrian Belt metasediments, Paleozoic and Mesozoic shelf sediments, Cretaceous and early Tertiary volcanic and plutonic rocks, Laramide orogenic clastic sediments, and middle to late Tertiary volcanic rocks and intermontane basin sediments. Most of the anomalous water and sediment samples with well-developed dispersion trains occur in areas underlain by or adjacent to silicic plutonic rocks of the Idaho and Boulder batholiths. These anomalies may indicate the presence of uraniferous veins and pegmatites similar to those already known to exist in the area. Fewer anomalous water samples occur in areas underlain by Precambrian basement complex and Tertiary basin fill.

I. INTRODUCTION

This report presents data gathered in a Hydrogeochemical and Stream Sediment Reconnaissance (HSSR) conducted by the Los Alamos Scientific Laboratory (LASL) in southwestern Mon-

tana. The HSSR was initiated by the US Department of Energy (DOE) to outline areas favorable for uranium exploration by examining uranium concentrations in natural waters and stream sediments. The LASL has the responsibility for completing the HSSR in the states of New Mexico, Colorado,

Wyoming, Montana, and Alaska by 1981. Information gathered in the HSSR will ultimately be incorporated into a National Uranium Resource Evaluation (NURE) report which is designed to provide more accurate estimates of US uranium reserves for long-range energy planning and to help identify areas of interest for exploration by the private sector.

Location

Natural water and stream sediment samples were collected over a 24 300-km² area in the southwestern part of Montana. The study area is bounded by the 46th parallel on the north, the 112th meridian on the east, and the Montana-Idaho border on the west and south (Fig. 1). This area includes all of Beaverhead County and parts of Madison, Jefferson, Silver Bow, Deerlodge, and Ravalli Counties in Montana.

This report does not include samples collected in the area underlain by the Boulder batholith. The Boulder batholith data were collected as part of a pilot study and will be released soon in a separate report. The area for which data are not presented consists of the Butte South 15-minute topographic quadrangle and the Homestake, Pipestone Pass, Delmoe Lake, Grace and Dry Mountain 7 1/2-minute topographic quadrangles (Fig. 1).

Field work for the study took place from early August to mid-October of 1976. Field samples were collected by a private firm contracted by the LASL.

Paved roads traverse the populated intermontane basins and follow major stream canyons through the mountains. Graveled and unimproved dirt roads provide access to some of the more remote parts of the area. Numerous jeep trails extend into the mountains, but the most rugged parts of the areas are accessible only from the ground by foot or horseback.

Field and Analytical Methods

A total of 1240 natural waters and 1933 sediment samples were collected from the 1994 locations shown on Plate I in the rear pocket. Water samples were collected from three sources: streams, wells, and springs. All water samples were filtered through new 0.45- μ m membrane filters into clean

polyethylene 25-mL vials and 41-mL reactor rabbits. The water samples were then acidified to a pH $\leq$ 1 with 8N, reagent-grade HNO₃ at the sample site. About 450 g of fine-grained, water-transported sediment were collected from streams and springs. The sediment samples were transported to the contractor's field laboratory where the sediment was dried at $\leq$ 100°C and sieved to -100 mesh through stainless steel sieves. The sieved fraction was then placed in a properly labeled 25-mL vial for transport to the LASL.

Pre-numbered field data forms, provided by the LASL, were completed by the sampler at each sample site. The data forms indicate both sample type and treatment at each location. Other site information recorded on each field data form and shown in the headers of Appendixes A and B includes: location, weather conditions, geography, general bedrock geology, and measurement of the equivalent uranium at a surface location close to the sample site. Water temperature, pH, and specific conductance measurements were also recorded at those sites where water samples were taken.

Water and sediment samples were analyzed at the LASL for total uranium. Initially all water samples were analyzed by fluorometry; however, those samples found to contain uranium in excess of 10 parts per billion (ppb)—the maximum concentration measurable by this method without recalibration—were reanalyzed by delayed-neutron counting (DNC). Data for water samples analyzed by fluorometry and DNC are listed together in Appendix A. DNC analyses are indicated by asterisks in Appendix A. An HSSR pilot survey by Sharp and Aamodt (1976) shows that total uranium concentrations measured in water by the fluorometry and DNC techniques used at the LASL are comparable. The relative error of both analytical techniques is ~30% at the lower limits of detection and ~15% or more at values an order of magnitude above. All sediment samples were analyzed for total uranium in the parts per million (ppm) range using DNC techniques.

The location of each sample site is plotted, along with its location number, at a scale of 1:250 000 on Plate I in the rear pocket. The uranium concentrations measured in the water and sediment samples collected in this study are presented in graphic form, also at a scale of 1:250 000, as overlay Plates II

Fig. 1.
Location of study area and weather stations cited in Table I.

and III, as data listings in Appendixes A and B, and as histograms in Appendix C.

The field methods and analytical techniques used in the LASL HSSR program are described briefly in Appendix D and in more detail in reports by Sharp and Aamodt (1976), Sharp (1977), and Hues et al. (1977).

Climate

The climate in southwestern Montana is semiarid in the basins and semihumid in the mountainous regions. Winters are long and cold; summers are short and mild. In the basins, the average temperature in January ranges between -12 and -7°C ; the average temperature in July is between 15 and 21°C (US Dept. Comm., NOAA, 1965). Precipitation in the basins is greatest during the early summer months and least in the winter. Snow accumulated during the winter months melts by late May or early June, except in the higher peaks which remain snow-covered all year. Precipitation patterns in the mountains are much more variable than in the basins.

Precipitation data for the months in which field sampling took place are presented in Table I. In general, precipitation was uniformly distributed over the whole study area during the sample-collecting period. During August and September the area received more rain than usual, but the October rainfall was below average.

Geography

The area described in this report is part of the Northern Rocky Mountain physiographic province (Fenneman, 1931). It is characterized by linear, northwest- and northeast-trending mountain ranges separated by broad intermontane basins. From west to east the principal mountain systems are the Bitterroot, Beaverhead, and Anaconda Mountains; the Pioneer, Blacktail, and Tendoy Mountains; and the Highland, Tobacco Root, Ruby, and Snowcrest Mountains (Fig. 1). Many mountain peaks are higher than 3000 m, but in general the main mountain ridges are between 2400 and 3000 m in elevation. The elevations of the large basins that separate the mountain ranges are between 1500 and 1800 m.

Terraced plains dip gently toward the centers of the basins, with different terrace levels representing various episodes of late Tertiary erosion (Pardee, 1950).

Drainage and Hydrology

The east and west forks of the Bitterroot River drain the extreme northwestern corner of the study area. Waters of the Bitterroot River flow northward, eventually entering the Clark Fork of the Columbia River.

The rest of the area is within the Missouri River drainage system, the headwaters of which rise in the western and southeastern part of the study area as the Big Hole and Beaverhead Rivers, respectively. These rivers join at the town of Twin Bridges to become the Jefferson River. Further east, outside the study area, the Jefferson River merges with the Madison and Gallatin Rivers at Three Forks to become the Missouri River.

The principal groundwater reservoirs in the area are in the thick, unconsolidated deposits of the large intermontane basins (USGS, 1963). These reservoirs are recharged by rainwater and by influx of seasonal runoff from the adjacent mountains. In some heavily cultivated areas irrigation waters infiltrate the ground and also contribute to the groundwater supply.

Groundwater is discharged at the surface by effluent seepage into streams, springs, and seeps; by evaporation and transpiration; and by pumping of wells (Konizeski et al., 1968).

The surface and groundwaters of the area are classified as a calcium bicarbonate type. Concentrations of dissolved solids are relatively low, ranging between 50 and 500 ppm. The amount of sediment transported by the major streams is also relatively minor, with an average annual sediment yield <100 metric tons per square mile (USGS, 1963).

II. GEOLOGY

Regional Tectonic Setting

The area discussed here is located along the hinge zone separating the deformed Cordilleran miogeosyncline and the Wyoming Shelf (Fig. 2).

TABLE I
PRECIPITATION TOTALS FOR AUGUST, SEPTEMBER,
AND OCTOBER AT SELECTED WEATHER STATIONS IN
SOUTHWESTERN MONTANA
(In millimeters)

Weather Station and Elevation^a	Time Period	1976	Av 1971- 1975	Av 1961- 1970	Av 1951- 1960
Sula 1NE (1364 m)	Aug.	51.3	34.9	27.9	36.3
	Sept.	45.0	19.6	34.5	32.3
	Oct.	18.8	37.7	34.5	31.8
Wisdom (1847 m)	Aug.	46.7	30.6	23.1	27.7
	Sept.	64.3	14.9	34.3	14.7
	Oct.	2.0	16.1	20.8	21.8
Wise River 3WNW (1747 m)	Aug.	62.5	29.7	23.1	29.7
	Sept.	62.0	12.4	36.8	17.8
	Oct.	2.3	19.7	23.1	21.6
Whitehall 7E (1304 m)	Aug.	55.6	30.1	28.4	17.8
	Sept.	77.5	27.0	29.5	16.3
	Oct.	10.7	33.2	14.5	08.1
Dillon Airport (1590 m)	Aug.	20.6	27.4	25.4	18.0
	Sept.	71.4	10.1	25.9	15.5
	Oct.	7.9	28.3	14.7	11.7
Grant (1772 m)	Aug.	49.3	27.4	19.3	N.R. ^b
	Sept.	49.0	19.9	33.3	N.R.
	Oct.	9.4	23.5	11.9	N.R.
Lima (1912 m)	Aug.	43.4	26.1	35.6	26.2
	Sept.	48.5	27.7	35.3	17.3
	Oct.	20.3	28.9	14.0	13.0

^aLocations of weather stations are shown in Fig. 1.

^bN.R. = precipitation data not reported.

The hinge zone coincides with, and is partially obscured by, the eastern margin of the Montana fold and thrust belt which consists of north- and northwest-trending folds and thrusts. The fold and thrust belt is covered in the Snake River downwarp but reappears southward along the Idaho-Wyoming border.

A belt of Laramide basement uplifts, contemporaneous with the fold and thrust belt, extends northwestward across the Wyoming Shelf. The study area is located at the north end of the uplift belt where it intersects the miogeosyncline-shelf boundary.

Fig. 2.
Regional setting in the vicinity of southwestern Montana.

During the waning stages of the Laramide orogeny the Cordilleran miogeosyncline and the hinge zone were intruded by the Idaho and Boulder batholiths, respectively. The northern part of the study area is largely underlain by rocks of these two silicic batholiths.

Southwestern Montana is also situated along the eastern margin of the region of Basin and Range block faulting in the western United States. The late Tertiary block faulting is superimposed on all older structures.

Stratigraphy

Table II is a stratigraphic column showing the major lithologies in the Tendoy Mountains area. The rocks of southwestern Montana represent nearly all geologic ages and include a wide variety of igneous, metamorphic, and sedimentary units.

Crystalline Precambrian rocks form the basement complex in the area. The basement complex is separated from overlying, slightly metamorphosed sediments of the Belt supergroup by a major unconformity. Thick accumulations of Belt sediments were deposited in the western and northern part of the area but these late Precambrian sediments apparently were not deposited in the east or southeast.

Paleozoic and early Mesozoic shallow marine and continental sediments were later deposited as continuous layers over the whole area. These sedimentary rocks were later complexly faulted and partially eroded during the late Cretaceous-early Tertiary Laramide orogeny. During the Laramide orogeny, the northern part of the area was the locus of major igneous activity, with widespread volcanism preceding the intrusion of the Boulder and Idaho batholiths.

Since the Laramide orogeny, the area has undergone regional uplift, broad warping, and Basin and Range-type block faulting. Continental sediments have filled the depressions created by these post-Laramide episodes of deformation.

Precambrian Rocks. Two major series of Precambrian rocks occur in southwestern Montana: the older, highly metamorphosed rocks of the gneissic basement complex, and the younger,

slightly metamorphosed metasediments making up the Belt series.

The older basement complex, which crops out in the Ruby, Tobacco Root, and Highland Mountains, is divided into three major subgroups. The oldest rocks, referred to as pre-Cherry Creek rocks in Table II, consist of isoclinally folded and migmatized gneiss and amphibolite in which the individual lithologies are traceable only over short distances. These older rocks are overlain by complexly folded metasedimentary gneiss, schist, and marble of the Cherry Creek group in which the primary bedding structures are often preserved and the lithologies are laterally continuous (Heinrich and Rabbit, 1960; Sahinen, 1950; and Reid, 1957). The youngest member of the basement complex is the Dillon granitic gneiss, a foliated, sheetlike intrusion that cuts both Cherry Creek and pre-Cherry Creek rocks. Numerous dikes, sills, pegmatites, and siliceous veins are associated with the Dillon gneiss.

The Belt series, a late Precambrian geosynclinal deposit, contrasts markedly with older, highly deformed and metamorphosed rocks of the basement complex. Belt rocks consist predominantly of slightly metamorphosed, thick-bedded, and fine-grained argillite, micaceous metaquartzite with less common limestone, and dolomite (Harrison and Grimes, 1970). The stratigraphy of the Belt series, representing about 600 m.y. of deposition, is summarized by Smith and Barnes (1966) and Harrison (1972). The Ravalli and Missoula groups form the most extensive outcrops of the Belt series in southwestern Montana, while the aerial extents of the Piegan and North Boulder groups and the Prichard formation are much more restricted. Belt strata are at least 3000 m thick in the Pioneer Mountains (Myers, 1952). Just outside of the southwest corner of the study area, in the Lemhi Range of Idaho, Ruppel (unpublished data cited in Harrison, 1972) has measured a section of Belt rocks up to 13 700 m thick.

Cambrian-Jurassic Shelf Deposits. The basal part of the Paleozoic section is dominated by clastic marine sediments that unconformably overlie the Belt metasediments. Middle and upper Paleozoic rocks are mainly thick-bedded carbonates (Sloss

TABLE II

DESCRIPTION OF ROCK UNITS IN VICINITY OF LIMA, MONTANA*

AGE	ROCK UNIT	LITHOLOGIES	APPROXIMATE THICKNESS
QUATERNARY		TERRACE GRAVELS, STREAM ALLUVIUM, LANDSLIDE DEPOSITS, GLACIAL DRIFT, AND ALLUVIAL FAN DEPOSITS.	
PLIOCENE		STREAM GRAVELS	
MIOCENE	MEDICINE LODGE	SHALES, BENTONITIC CLAYS, SANDSTONES, PEBBLE CONGLOMERATES, FANGLOMERATES; SOME LIGNITE; FRESH-WATER LIMESTONE AT TOP.	1525m +
	BLACKTAIL DEER CREEK FM.	THIN TO MEDIUM-BEDDED CLAYSTONE, FELDSPATHIC SANDSTONE, CONGLOMERATES, AND TUFF; INTERBEDDED VOLCANICS; SOME LIGNITE.	610m +
OLIGOCENE	MUDDY CREEK BEDS	TUFFACEOUS SANDSTONES AND SHALES, CONGLOMERATE, FRESHWATER LIMESTONE, AND SOME BITUMINOUS SHALES.	300m +
Eocene	SAGE CREEK FM.	FINE-GRAINED SANDSTONE, CLAYSTONE, TUFF; SOME CONGLOMERATE; LOCAL CHANNEL SANDS	90-120m
PALEOCENE	BEAVERHEAD FM.	POORLY CONSOLIDATED, ILL SORTED, PEBBLE AND BOULDER CONGLOMERATE; MIDDLE FRESH-WATER LIMESTONE MEMBER.	2950m +
CRETACEOUS	ASPEN FM.	SHALE, SILTSTONE, POORLY SORTED SANDSTONE; LOCALLY CONGLOMERATIC; INTERBEDDED BENTONITE; VOLCANIC BRECCIA IN UPPER PART.	0-1065m +
	KOOTENAI FM.	SALT AND PEPPER SANDSTONE, PARTLY CONGLOMERATIC; INTERBEDDED WITH SHALES AND FRESH-WATER LIMESTONE.	275-450m
JURASSIC	MORRISON FM.	SHALE, SILTSTONE AND MINOR SANDSTONE; SHALES ARE CARBONACEOUS LOCALLY; COAL NEAR TOP OF SECTION.	0-100m
	ELLIS GROUP	THIN TO MEDIUM-BEDDED CALCAREOUS AND GLAUCONITIC SHALES AND SANDSTONES; LOWER OOLITIC LIMESTONE.	0-55m
TRIASSIC	THAYNES FM.	SILTY LIMESTONES, MIDDLE CALCAREOUS SANDSTONE AND SILTSTONE MEMBER.	190-290m
	WOODSIDE FM.	CALCAREOUS SHALE AND SILTSTONE; MINOR LIMESTONE.	0-58m
	DINWOODY FM.	THIN-BEDDED SILTSTONE AND SHALE; SOME SILTY LIMESTONE.	55-265m
PERMIAN	PHOSPHORIA FM.	THIN-BEDDED LIMESTONE AND DOLOMITE; INTERBEDDED WITH PHOSPHATIC AND KEROGEN SHALES.	110-250m
PENNSYLVANIAN	QUADRANT	THICK-BEDDED TO MASSIVE, FINE TO MEDIUM-GRAINED ORTHOQUARTZITE.	300-800m
	AMSDEN FM.	THIN-BEDDED LIMESTONE; INTERBEDDED CALCAREOUS SHALE; BASAL SANDSTONE.	25-60m
MISSISSIPPIAN	BIG SNOWY GROUP	LIMESTONES AND SHALES IN UPPER PART; SILTSTONE, SHALE, AND SANDSTONE IN BASAL SECTION.	0-150m +
	BRAZER FM.	FINE-GRAINED TO DENSE, PARTLY CORALLINE LIMESTONE; CONTAINS CHERT NODULES.	0-600m +
	MILLIGEN FM.	FISSILE, CALCAREOUS SHALE; MINOR LIMESTONE.	0-600m +
	MADISON GROUP	MASSIVE TO THICK-BEDDED LIMESTONE; LOCAL LIMESTONE BRECCIA; LARGE SOLUTION CAVITIES NEAR TOP; BASAL LIMESTONE INTERBEDDED WITH CALCAREOUS SHALE.	165-515m +
DEVONIAN	THREE FORKS FM.	THIN-BEDDED, CALCAREOUS SHALES AND SILTSTONES, SOME SHALY LIMESTONES.	35-130m
	JEFFERSON FM.	DARK BROWN, THIN-BEDDED TO MASSIVE LIMESTONES AND DOLOMITE.	45-180m
ORDOVICIAN	KINNIKINIC FM.	MEDIUM TO THICK-BEDDED, FINE-GRAINED, DENSE ORTHOQUARTZITE.	0-245m
CAMBRIAN	PILGRIM FM.	MASSIVE DOLOMITE; MINOR BASAL SHALE.	0-70m
	PARK FM.	FISSILE, MICACEOUS SHALE; MINOR LIMESTONE AND LIMESTONE CONGLOMERATE.	0-25m
	MEAGHER FM.	FINE-GRAINED DOLOMITE WITH MINOR SHALE AT TOP; IRREGULAR BEDDING.	0-165m
	WOLSEY FM.	FISSILE, MICACEOUS SHALES; SOME THIN SANDSTONE LENSES.	0-45m
	FLATHEAD FM.	MEDIUM-BEDDED, MEDIUM TO COARSE-GRAINED ORTHOQUARTZITE; SOME QUARTZ PEBBLE CONGLOMERATE NEAR BASE.	0-40m
PRECAMBRIAN	BELT SUPERGROUP	MONOTONOUS, THICK-BEDDED, FINE-GRAINED GREYWACKE, SILTITE, ARGILLITE, AND MICACEOUS SANDSTONE; MIDDLE PART OF SERIES CONTAINS ABUNDANT CARBONATE BEDS.	>5470m IN HIGHLAND MTS.
	CHERRY CREEK ROCKS	MARBLE; Ca-Mg SILICATE GNEISS; QUARTZITE; MICA SCHIST; HORNBLÉNDÉ GNEISS AND SCHIST; AMPHIBOLITE; PRIMARY SEDIMENTARY FEATURES OFTEN PRESERVED.	>9100m
	PRE-CHERRY CREEK ROCKS	BIOTITE-GARNET GNEISS; QUARTZ-FELDSPAR GNEISS; AMPHIBOLITE; COARSE-GRAINED WITH GNEISSIC LANDING, INDIVIDUAL LITHOLOGIES PERSIST ONLY SHORT DISTANCES.	

*Modified from Scholten et al., 1955; Heinrich and Rabbit, 1960; Sahinen, 1950; and Reid, 1957.

and Moritz, 1951). Triassic and Jurassic rocks consist of mixtures of carbonate and clastic sediments deposited under fluctuating marine and continental conditions (Moritz, 1951).

Most of the stratigraphic units are thin, widespread, and uniform in character. The total thickness of Paleozoic units is about 900 m in the east and 2100 m in the west. Triassic and Jurassic strata are up to 425 m thick.

The thickest accumulations of Paleozoic and early Mesozoic sediment were deposited in the southwestern part of the study area on the east slope of the Cordilleran miogeosyncline (Scholten et al., 1955; Sloss and Moritz, 1951).

Laramide Orogenic Deposits. The first manifestation of the Laramide orogeny in southwestern Montana was the deposition of the lower Cretaceous Kootenai formation. The Kootenai formation consists of conglomerate, arkosic sandstone, shale, and freshwater limestone. The clastic sediments were derived from the uplifted and deformed miogeosyncline in east-central Idaho (Eardley, 1962). At least 450 m of Kootenai strata are present in southwestern Montana.

An undifferentiated sequence of upper Cretaceous clastic sediments, equivalent to the Colorado and Montana groups elsewhere in Montana, overlie the Kootenai formation. These rocks are mainly non-marine, sparsely fossiliferous, and exceedingly diverse in lithologic character. Originally, this undifferentiated sequence of rock may have been > 3000 m thick, but most has been stripped away by Tertiary erosion (McMannis, 1965). Volcanic rocks and their reworked sedimentary equivalents are common in the basal and upper parts of this sequence.

The Beaverhead conglomerate, of late Cretaceous to early Eocene age, unconformably overlies the upper Cretaceous clastic sediments. The Beaverhead conglomerate is 2950 m thick at its type locality near Lima, Montana, but no complete section has been measured (Lowell and Kiepper, 1953). It is characterized by thick, crudely stratified beds of conglomerate with clasts of Belt and Paleozoic rocks interbedded with lesser amounts of sandstone, shale, and freshwater limestone. The Beaverhead

conglomerate is the youngest unit deformed during the Laramide orogeny (Ryder and Scholten, 1973).

Post-Laramide Deposits. Post-Laramide strata unconformably overlie rocks that were folded and faulted during the Laramide orogeny. They include conglomerates, sandstones, carbonaceous shales, freshwater limestones, and interbedded tuffs and basalts. These units range in age from late Eocene to Pliocene and were deposited in intermontane basins and broad downwarps (Scholten et al., 1955). Thin Quaternary surficial deposits overlie the late Tertiary sediments and include terrace gravels, alluvial fans, glacial drift, landslide deposits, and stream gravels.

Igneous Rocks

The Dillon gneiss is the largest Precambrian intrusion in the area. Younger than Cherry Creek rocks and older than Belt strata, it consists of granitic gneiss, pegmatites, aplites, and numerous quartz veins. The most common rock type is a quartz feldspar gneiss in which layers of quartz, microcline, and sodic plagioclase alternate with bands of mafic minerals (Heinrich, 1960). Other Precambrian igneous rocks include amphibolite dikes and several varieties of ultramafic bodies.

The geology, mineralogy, and economic deposits of Precambrian pegmatites, as well as younger pegmatites of probable Laramide age, are summarized by Heinrich (1949).

During the waning stages of the Laramide orogeny the large silicic Boulder and Idaho batholiths were emplaced in southwestern Montana and central Idaho. A period of widespread calc-alkaline andesitic volcanism preceded and is probably genetically related to the plutonism (Klepper et al., 1957). Remnants of pre-batholith volcanics—the Elkhorn Mountain volcanics—are exposed as roof pendants within and along the margins of the Boulder batholith.

The southern end of the Boulder batholith and an eastern salient of the Idaho batholith are exposed in the northeastern and northwestern parts of the area, respectively (Figs. 2 and 3). In addition to the two

main batholiths, several isolated plutonic bodies are scattered throughout the area. The batholiths and smaller isolated plutons are composed predominantly of quartz-monzonite, but rocks ranging from quartz-diorite to alaskite are also present (Knopf, 1957; Larsen and Schmidt, 1958).

Post-Laramide volcanism occurred episodically from late Eocene to Pleistocene times. The volcanic rocks are interbedded with the postorogenic Tertiary basin sediments and consist mainly of basalt and rhyolite tuff. In the southern part of the area the most recent outpouring of basaltic flows in late Pliocene or Pleistocene times may be related to volcanism in the Snake River downwarp southwest of the study area (Scholten et al., 1955).

Structure

Three main episodes of deformation are responsible for the structural features seen in southwestern Montana. The principal deformational events occurred in the Precambrian, late Cretaceous-early Tertiary, and late Tertiary. The mosaic of present-day structures is a result of overprinting of these periods of deformation (Fig. 3).

The pre-Belt basement complex is an assemblage of highly contorted metasedimentary rocks. Originally deposited as carbonate and clastic sediments, these rocks were transformed by regional metamorphism into isoclinally and recumbently folded gneisses, schists, phyllites, quartzites, and marbles. The major fold axes and regional foliation of these rocks trend northeast and north (Heinrich and Rabbit, 1960; Reid, 1957; Sahinen, 1950; and Klepper, 1951).

Except for minor warping, the next major period of deformation occurred during the late Cretaceous to early Tertiary Laramide orogeny. The earliest Laramide structures are the northeast-trending Snowcrest uplift and north-trending Beaverhead uplift (Scholten et al., 1955; Ryder and Scholten, 1973). Later pulses of orogeny caused the formation of the Montana fold and thrust belt in the central part of the area. In this area the fold and thrust belt is characterized by north- and northeast-trending folds and thrust faults. The thrust faults are both the upthrust type, in which basement blocks have undergone large amounts of vertical displacement,

and low angle decollement-type thrusts, on which folded Precambrian Belt metasediments through early Eocene sediments have been transported laterally to the east and northeast (Scholten, 1968; Ryder and Scholten, 1973). The fold and thrust belt occupies a regional structural sag flanked on the east and west by Precambrian rocks.

Fault block mountains were produced during the youngest period of deformation, which took place from middle to late Tertiary times. The fault block mountains and intervening intermontane basins are bounded by high angle normal faults that trend north, northwest, and northeast, cutting across older Precambrian and Laramide structures. Movement on some of the faults has continued into recent time (Pardee, 1950).

III. KNOWN URANIUM OCCURRENCES

At the present time there is no active uranium production in the study area. There are, however, a number of radioactive mineral occurrences. These occurrences are indicated on Plate I and summarized in Table III.

The known uranium occurrences are found in a variety of geologic settings. In the Gray Goose claims of the Deer Creek District, monazite and allanite are found in biotite diorite pegmatites cutting metamorphosed shale (Trites and Tooker, 1953). At the Lucky Joe Mine in southern Ravalli County, uraninite as well as secondary gummite and uranophane occur in narrow veinlets and as coatings in closely spaced fractures in phyllite of the Precambrian Belt series (Jarrard, 1957). At the Mooney claim in Silver Bow County, meta-autunite and pitchblende are disseminated throughout a siliceous base-metal sulfide vein which cuts altered quartz monzonite of the Boulder batholith (Sahinen, 1955; Walker and Osterwald, 1963). In the Moida Claims in Beaverhead County, occurrences of autunite have been reported in carbonaceous, tuffaceous sandstone of Tertiary age (MINOBRAS, 1977). In the Uranium Claims of the Melrose District, samples containing 200 ppm uranium have been found in a chimney-like limestone fault breccia zone cemented by secondary calcite, iron and manganese oxides, and clay (Trites and Tooker, 1953).

TABLE III
REPORTED URANIUM OCCURRENCES IN SOUTHWESTERN MONTANA

<u>Map No.^a</u>	<u>District or Claim</u>	<u>Location</u>	<u>Type of Deposit</u>
1	Lucky Joe Mine	Ravalli Co. T3S, R22W, Sec. 9	Uranium occurs as veinlets and fracture coatings in phyllite of the Ravalli group of the Belt series. The veinlets and fracture coatings occur along a zone of high angle faulting (Jarrard, 1957).
2	Sheep Creek	Ravalli Co. T4S, R22W	Monazite is present in a carbonate "vein or dike" cutting fine-grained gneiss. Monazite is associated with columbite, ancylite (?), and a considerable amount of vermiculite (Sahinen, 1957).
3	Trapper Peak	Ravalli Co. T2N, R21W, Sec. 22	Autunite veinlets occur in quartz monzonite of the Idaho batholith. Quartz monzonite is cut by rhyolite dikes (MINOBRAS, 1977).
4	Rye Creek	Ravalli Co. T3N, R18W	Samarskite is an accessory mineral in a very coarse-grained quartzofeldspathic pegmatite cutting granite of the Idaho (?) batholith. The property also contains horizontal veins of high-grade fluorspar (Sahinen, 1957).
5	Lemhi Pass District	Beaverhead Co. T10S, R15W, Secs. 19, 20	Silicified shear zones consisting of quartz, specular hematite, and porous limonitic material have moderate to high radioactivity. Most of the radioactivity is probably due to thorium. Uranium contents range from 10 to 100 ppm in the shear zones (Vhay, 1951).
6	Molda Claims	Beaverhead Co. T10S, R14W, Sec. 2	Autunite occurs in Tertiary tuffaceous sandstone containing abundant carbonized plant remains (MINOBRAS, 1977, and Pruitt, 1955).

^aMap location numbers refer to Plate I.

TABLE III (cont)

Map No.*	District or Claim	Location	Type of Deposit
7	Deer Creek District	Beaverhead Co. T11S, R11W, Secs. 9, 21, 22, 26	The Deer Creek District consists of 6 individual claims. On most claims, monzonite is a trace mineral in late Cretaceous or early Tertiary pegmatite dikes cutting quartz biotite schist and hornblende gneiss of the Precambrian basement complex. On the Poison Lake Lode Claim, radioactive hydrothermal fluorite veins cut altered Carboniferous limestone and Tertiary aplite dikes. Radioactivity in the area is mostly due to thorium. The uranium contents of these rocks range between 10 and 60 ppm (Trites and Tooke, 1953, and Geach, 1972).
8	Iola Prospect	Beaverhead Co. T15S, R10W, Sec. 9	Quartz veins containing trace limonite and a few small lenses of malachite cut a broad contact zone between Carboniferous limestone and a late Cretaceous to early Tertiary granite. Most of the radioactivity in the veins is due to uranium. One grab sample contained 500 ppm uranium (Trites and Tooker, 1953).
9	Mooney Claim	Silver Bow Co. T3N, R9W, Sec. 32	Siliceous quartz veins cutting mineralized quartz monzonite contain meta-autunite and possible pitchblende (Sahinen, 1955). Uranium minerals are also reported in sandstone in the area (MINOBRAS, 1977).
10	Melrose District	Silver Bow and Madison Counties, T2 and 3S, R8W	Uranium mineralization occurs in breccia-filled chimneys along fracture zones in Paleozoic limestones and shales. The uranium content of the breccia-filled chimneys ranges between 150 and 350 ppm (Trites and Tooker, 1953).
11	Branzell and Eby Prospect	Madison Co. T7S, R4W, Sec. 35	Uranium minerals have been reported in sandstone in this area (MINOBRAS, 1977).
12	Golden Sunlight District	Jefferson Co. T2N, R3W, Secs. 19, 20, 30	MINOBRAS (1977) reports the presence of uraniferous veins in this area. No further information or references are given.

In addition to uranium mineralization, thorium-bearing veins occur in the Lemhi Pass District along the Montana-Idaho border. These thorium-bearing veins consist of quartz or quartz-microcline gangue in zones as much as 10 m wide and 1300 m long (Staatz, 1972). The thoria content in these veins commonly exceeds 0.25% and is believed to be the main source of radioactivity in the area. The principal thoria-bearing minerals are thorite, monazite, brockite, and allanite. The uranium content of these veins is relatively low, usually averaging <50 ppm.

The Permian Phosphoria formation contains an estimated 1.13 million metric tons of dispersed, low-grade uranium. The following description of the Phosphoria formation in southwestern Montana is summarized from the works of Swanson (1970), Heinrich (1958), and McKelvey et al. (1959).

Phosphorous and uranium are restricted to the Meade Creek and Retort members of the Phosphoria formation. Both members consist of thinly laminated to thick-bedded carbonaceous mudstone and phosphorite. Meade Peak and Retort strata are thickest near Lima, Montana, where Meade Peak beds are 10 m thick and Retort beds are 26 m thick. Both members thin to the north and east. More than half the phosphate in the Meade Peak and Retort members occurs in beds containing 24% or more P_2O_5 . About 363 000 metric tons of uranium are estimated to be present in rocks containing 24% P_2O_5 , and 32 000 metric tons of uranium are estimated to be present in rocks with 31% P_2O_5 . The uranium content of the Meade Peak member ranges between 50 and 150 ppm and averages 90 ppm. Uranium in the Retort member ranges between 30 and 120 ppm and averages 60 ppm. Local variations in reported uranium contents may be due to leaching at the surface and reprecipitation at depth.

A reconnaissance search for uraniferous lignite and carbonaceous shale was conducted in the intermontane basins of southwestern Montana by the US Geological Survey (USGS) in the early 1950s (Hail and Gill, 1953). The study was designed to determine whether uranium had been leached from interbedded volcanic rocks by circulating groundwater and redeposited in late Cretaceous and mid-Tertiary coal and carbonaceous shale beds. It was hoped that uraniferous lignite deposits similar to those present in South Dakota might be found. The

conclusion of the USGS study was that the Cretaceous and Tertiary coal and carbonaceous shale beds in this part of Montana are essentially nonradioactive. However, it was based only on a brief examination of the better known Cretaceous and Tertiary coal deposits in the area.

IV. RESULTS

Sample Types and Data Presentation

A total of 1240 water and 1933 sediment samples were collected from 1994 locations in the study area. Of the water samples, 1092 were collected from streams, 142 from springs, and 6 from wells. Sediment samples were taken at 1075 wet streams, 706 dry streams, 142 wet springs, and 10 dry spring sites.

Field measurements, climatic, general geologic, and geographic data for each sample site are included in the data listings in Appendixes A and B. The last three general classes of data are somewhat subjective, but provide data evaluators a better understanding of the conditions under which these samples were taken. Sample location and uranium concentration overlays (provided in Plates I, II, and III in the rear pocket) are designed to fit over the geologic map accompanying this report (Plate IV) as well as over the Elk City, Dillon, and Dubois 1:250 000 topographic maps.

Water Results

Throughout the area the pH of water samples ranges fairly uniformly between values of 5 and 7. Specific conductance measurements, which can be used to approximate the amount of dissolved solids in the waters, generally fall between 20 and 500 $\mu\text{mho/cm}$, with a few reaching as high as 2500 $\mu\text{mho/cm}$.

The mean and range of uranium concentrations for each of the different water sample types are listed in Table IV. As a group, the water samples have a mean uranium concentration of 1.40 ppb and a range of 0.1* to 45.30 ppb. Surface waters (streams) and groundwaters (wells and springs) are

*Water containing undetectable (<0.2 ppb) amounts of uranium was assigned an arbitrary value of 0.1 ppb.

TABLE IV
MEAN AND RANGE OF URANIUM CONCENTRATIONS FOR
DIFFERENT SAMPLE TYPES

Sample Type	Number of Samples	Range in Uranium Concentrations	Mean Uranium Concentration	Standard Deviation
Stream water	1092	0.10 to 26.70 ppb	1.23 ppb	2.70
Spring and well water	148	0.10 to 45.30 ppb	2.54 ppb	5.05
All waters	1240	0.10 to 45.30 ppb	1.40 ppb	2.78
Wet stream sediment	1075	0.20 to 206.80 ppm	7.92 ppm	11.26
Dry stream sediment	706	0.70 to 38.20 ppm	3.77 ppm	2.75
Wet and dry spring sediment	152	1.80 to 22.80 ppm	4.34 ppm	2.91
All sediments	1933	0.20 to 206.80 ppm	6.12 ppm	8.83

treated as separate populations because the mean uranium concentration measured in groundwater samples (2.54 ppb) is twice that for surface waters (1.23 ppb). Previous reports (Sharp and Aamodt, 1976; Fix, 1956) show that, in general, groundwaters contain more dissolved uranium than do surface waters of the same region. This difference is due in part to a greater residence time for groundwater in the hydrologic system and the more intimate contact between groundwater and the surrounding rock.

The threshold anomalies selected for the two water populations are 7 ppb for surface waters and 9 ppb for groundwater samples. These threshold values were chosen at the upper end of the frequency distribution curves for these populations and include only uranium concentrations that exceed the background values for all major, aerially extensive lithologies. Because the significance of the isolated samples with high uranium values cannot be accurately assessed, samples were not considered anomalous unless they clustered with other high values. For the purposes of this reconnaissance report, only the well-developed anomaly clusters are discussed.

Using the criteria described above, seven areas are defined as having anomalous uranium concentrations in water samples. These seven areas are listed in Table V. Most of the anomalous water samples were collected in drainages cutting through

felsic rocks of the Idaho and Boulder batholiths. The remaining water anomalies occur in areas underlain by Tertiary basin fill. With the possible exception of the Birch Creek drainage, water samples taken in areas underlain by Paleozoic and Mesozoic sediments, including the Phosphoria formation and its uranium members, are not enriched in uranium above background levels. Waters draining large areas of Precambrian Belt metasediments have uniformly low uranium concentrations, a situation similar to the findings of an HSSR study in northwestern Montana (Aamodt, 1977). Of the 12 known uranium occurrences in the area, three—Melrose, Golden Sunlight, and Deer Creek—are associated with high or anomalous water samples.

Sediment Results

The uranium concentrations for all sediments range from 0.20 to 206.80 ppm and average 6.11 ppm (Table IV). All sediment sample types are treated as a single population in the discussion, even though the mean uranium concentration for wet stream sediments is considerably higher than for other sediment sample types. The histograms in Appendix C show that the modes (values of greatest frequency) are nearly coincident for the different sample types,

TABLE V
ANOMALOUS URANIUM CONCENTRATIONS IN WATER SAMPLES

Drainage or Water Source ^a	LASL Sample Number ^b	Total Uranium (ppb)	Geology of Watershed ^c	Comments
Divide separating Rye Creek and E. Fork Bitterroot River	306131	14.20	Area underlain by silicic plutonic rocks of the Idaho batholith.	Anomalous values occur in streams draining the ridge separating Rye Creek and the E. Fork Bitterroot River. Rye Creek has also yielded anomalous uranium values in sediments.
	305085	7.47		
	305027	7.19		
	305023	7.48		
S. Fork Doolittle Creek	305225	9.47	Area underlain by silicic plutonic rocks of the Boulder batholith.	This sample is associated with another moderately high (4.48 ppb) water sample on S. Fork Doolittle Creek. Sediment samples in the same drainage contain >10 ppm uranium.
Hell Canyon	306691	7.80	Area underlain by silicic plutonic rocks of the Boulder batholith.	Anomalous value is associated with three other stream-water samples containing >4 ppb uranium. Several sediments in same drainage contain >15 ppm uranium.
	306477	9.61		
	306486	12.10		
	306487	8.89		
Whitetail Creek	306477	9.61	Upper part of drainage underlain by Boulder batholith silicic rocks; lower drainage underlain by Tertiary sediments.	Uranium content of all stream-water samples along Whitetail Creek is generally high. Uranium values in sediment samples are also high to anomalous. Samplers have noted the possibility of contamination by phosphate fertilizers in this area.
	306486	12.10		
	306487	8.89		
	306487	8.89		
Big Pipestone Creek	306464	23.40	Area underlain by Tertiary sediments.	These anomalous values occur near the water anomalies on Whitetail Creek. Sediment sample 306464 contains 15.40 ppm uranium.
	306397	24.60		
Birch Creek	306514	45.30	Headwaters of Birch Creek rise in area underlain by rocks of the Boulder batholith and then flow eastward through sediments ranging in age from Mississippian to Cretaceous.	Both surface waters and groundwaters (306514 and 306503) are anomalous in this area. Stream sediments with high uranium values (>15 ppm) occur in upper part of drainage but not in areas of anomalous waters. Copper mines are present in the area.
	306501	8.83		
	306503	20.50		
	306695	15.40		
	306694	16.40		
Warm Springs Creek	306622	8.02	Area underlain by Tertiary sediments.	This anomaly is associated with a series of moderately high values (>3.00 ppb) in stream waters in the next drainage to the north. Uranium values of the sediments in these drainages are low. An area of known uranium occurrences is ~8 km to the northeast.
	306651	7.15		

^aGeographic names are taken from the appropriate NTMS 2° Topographic Maps.

^bThe coordinates of each sample location are listed in Appendix A.

^cDescribed from Plate IV.

indicating that the high mean in wet stream sediments is probably weighted to an abnormally high value by a fairly large number of anomalous samples.

The anomaly threshold in sediments is chosen at 25 ppm, or the upper end of the frequency distribution curve for all sediments. As was the case for waters, only those anomalous sediments occurring in groups or clusters are discussed. According to this criterion, 11 areas are listed in Table VI as being anomalous.

All of the anomalous sediment samples occur in the northern half of the area in locations underlain

by, or adjacent to, the Idaho and Boulder batholiths. Several high and anomalous sediments occur in areas underlain by Precambrian Belt rocks, but these sediment samples were all collected near outcrops of the two major batholiths. In general, sediment samples are not anomalous in areas where the bedrock is the Precambrian basement complex, Paleozoic and Mesozoic sediments, or Tertiary basin fill. Of the 12 areas with known uranium occurrences, the Trapper Peak, Rye Creek, Lucky Joe, and Golden Sunlight occurrences are associated with high or anomalous sediment samples.

TABLE VI
ANOMALOUS URANIUM CONCENTRATIONS IN SEDIMENT SAMPLES

Drainage or Sediment Source ^a	LASL Sample Number ^b	Total Uranium (ppm)	Geology of Drainage ^c	Comments
West Fork Bitterroot Headwaters				
Hoges Creek	305001	206.80	Area underlain by Ravalli Group metasediments	These anomalous sediments occur with other sediments having high (>15 ppm) uranium values.
Overwhich Creek	305011	26.20		
	305012	25.10		
Blue Joint Creek	305113	31.30		
	305031	32.00		
Tributaries along W. Fork of Bitterroot River	305013	42.50	Area underlain by siliceous plutonic rocks of the Idaho batholith cut by numerous NE-trending dikes. Samplers report some metamorphic rocks in the area	Anomalous samples occur in tributaries on the east and west sides of the West Fork of the Bitterroot.
	305118	31.20		
	305124	27.40		
	305067	46.50		
	305065	43.60		
	305064	32.00		
Rye Creek	305023	28.00	Area underlain by siliceous plutonic rocks of the Idaho batholith. Some metamorphic rocks were reported by the samplers	Anomalous sample is surrounded by several other sediment samples with >15 ppm uranium
Medicine Point - Wiles Peak Area	305080	46.50	Area underlain by siliceous plutonic rocks of the Idaho batholith	These anomalous samples occur in streams draining the Medicine Point-Wiles Peak highland
	305084	37.40		
	305086	47.10		
	305077	41.90		
Camp Creek	305044	26.20	Bedrock in area includes rocks of the Idaho batholith as well as Belt and Paleozoic root pendants to the batholith. Late Cretaceous or early Tertiary volcanic rocks also crop out in this drainage	This anomalous sample occurs with five other sediment samples having high (>15 ppm) uranium values.
Blue Mountain Area	305206	38.50	Area underlain by siliceous plutonic rocks of the Idaho batholith	Anomalous samples occur with several other sediment samples having >10 ppm uranium
	305097	58.30		
Meadow Creek	305089	29.80	Area underlain by siliceous plutonic rock of the Idaho batholith.	Several sediment samples in the same drainage contain >10 ppm uranium
Longs Peak - Duck Lake Area				
W. Fork La Marcha Creek	305305	130.50	Upper part of drainage is in Ravalli and Prohard metasediments; middle part of drainage is underlain by siliceous rocks of the Boulder batholith; lower part of drainage cuts through Tertiary sediments and Quaternary gravels	Area contains the largest cluster of anomalous sediment samples of all areas sampled. Numerous sediment samples with >15 ppm uranium also occur in these drainages. Uranium concentrations in water are low in this area. Source of uranium in the sediments may be residues from mineralized veins
	305306	108.50		
	305307	26.30		
	305308	98.00		
	305309	32.30		
	305310	37.10		
	305312	39.00		
	305352	35.10		
	305200	37.20		
E. and W. Forks Fishtrap Creek	305302	84.40		
	305195	31.30		
	305197	27.80		
Whitetail Creek	306470	45.80	Area underlain by siliceous plutonic rocks of the Boulder batholith.	Two sediment samples collected from lower Whitetail Creek contain 16.00 and 16.00 ppm uranium, respectively. Uranium values in waters are generally high in this drainage.
	306469	35.70		
Steward Mountain Area	305271	38.60	Area underlain by metasediments of the Missoula group. Samplers report some igneous rocks in the area.	Anomalous sediments occur along contact zone between batholith rocks and Belt metasediments.
	305272	40.90		
	305207	36.00		
Tweedy Mountain Area				
Elkhorn Creek	305270	38.00	Area underlain by siliceous plutonic rocks of the Boulder batholith.	These anomalous sediments occur with other sediment samples having moderate (>6 ppm) to high (>15 ppm) uranium values.
	305267	34.80		
David Creek	305268	35.00		

^aGeographic names are taken from the appropriate NTMS 2^{1/2} Topographic Maps.

^bThe coordinates of each sample location are listed in Appendix B.

^cDescribed from Plate IV.

V. CONCLUSIONS

A total of 1240 water and 1933 sediment samples were collected from 1994 locations during a Hydrogeochemical and Stream Sediment Reconnaissance in southwestern Montana. The water samples were of two basic types: surface waters (streams) and groundwaters (wells and springs). Water-deposited sediment samples were collected at streams and springs.

The HSSR was able to delineate drainages in which water and/or sediment samples contain uranium concentrations notably higher than the surrounding background concentrations. The most significant clusters of anomalous water and sediment samples are listed in Tables V and VI. Most of the water and sediment anomalies occur in areas underlain by rocks of the Idaho and Boulder batholiths. Several anomalous sediment samples were found in areas mapped as Belt series rocks, but in each case they were adjacent to outcrops of the Idaho or Boulder batholiths.

The clustering of anomalous samples in areas underlain by, or adjacent to, the large felsic batholiths suggests that the probable sites of uranium mineralization are siliceous veins and/or pegmatites. Most of the known uranium occurrences in this region occur in veins and pegmatites (Table III).

Data for other geologic settings within the area are inconclusive. Several water anomalies occur in Tertiary basins, and high water values occur in rocks of the basement complex; however, these occurrences are restricted in aerial extent. Sur-

prisingly, areas underlain by the Phosphoria formation, with its two uraniferous members, do not show up as being notably anomalous in either the water or sediment samples.

ACKNOWLEDGMENTS

The fluorometric analyses of water samples were done by W. H. Ashley and A. Henicksman of LASL's Analytical Chemical Group, CMB-1, and the analyses of both water and sediment by delayed-neutron counting were done by M. Minor and W. Hensley of the Research Reactor Experiments Group, P-2. All computer processing of data and preparation of sample and concentration overlays were done by C. McInteer and G. Thomas of the Statistics Analysis and Assessment Group, Q-12.

Special thanks go to the following members of the Geochemical Applications Group, G-5, for their invaluable assistance in preparing this report. Judy Wilkinson typed and edited many iterations of this report; Al Marquez and John Tubb prepared illustrations, geologic maps, and sample location and concentrations overlays. Paul Aamodt organized and supervised the collection of samples. Other staff members of G-5 critically reviewed this report and provided many helpful suggestions for its improvement.

Sincere appreciation is also expressed to the landowners who granted permission to enter and sample their lands. Without their kind cooperation, this reconnaissance study would not have been possible.

APPENDIX A

LISTINGS OF FIELD DATA
AND URANIUM CONCENTRATIONS IN WATER

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER							LASL SAMPLE NUMBER AND FIELD DATA																	U CONCENTRATION										
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (µU 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 FLUORIMETRY OR PRC (K) UNITS IN PPB
							DATE	HOUR																										
30-45	8900-11	42956-2-07				0-305055-08/03/76-15			23-8-5				5.2	13	11-3-4-6-6-4-4-1-1-3-4-3-2-8																			0.10
30-45	7849-11	3215-2-07				0-305056-08/03/76-16			22-10-5				5.5	24	5-3-4-6-6-3-3-1-1-3-4-3-2-8																			0.10
30-45	7815-11	3367-2-07				0-305057-08/03/76-16			22-10-5				5.5	21	17-3-4-6-6-3-3-1-1-3-4-3-2-8																			0.43
30-45	4144-11	3323-2-07				0-305058-08/03/76-17			22-10-5				5.5	16	18-3-4-6-6-4-4-1-1-3-4-3-4-8																			0.36
30-45	7818-11	3363-2-07				0-305059-08/03/76-18			20-10-5				5.7	42	25-3-4-6-6-4-4-1-1-3-4-3-4-8																			0.10
30-45	7717-11	3329-2-07				0-305060-08/03/76-17			20-10-5				5.7	70	13-3-4-6-6-2-2-1-1-3-4-3-4-1																			1.35
30-45	7506-11	3393-2-07				0-305061-08/03/76-18			20-12-5				5.9	40	27-3-4-6-6-3-3-1-1-3-4-3-4-8																			2.49
30-45	7582-11	3413-2-07				0-305062-08/03/76-19			20-13-6				5.5	35	27-3-4-6-6-4-4-1-1-3-4-3-4-8																			0.64
30-45	7636-11	3433-2-07				0-305063-08/03/76-19			19-11-5				5.5	34	8-3-3-4-4-4-2-2-1-1-4-4-3-4-8																			0.10
30-45	7936-11	3293-2-07				0-305064-08/03/76-19			19-11-5				5.5	60	16-3-4-4-4-2-2-1-1-4-4-3-2-8																			0.81
30-45	7633-11	3263-2-07				0-305065-08/03/76-19			20-13-6				5.7	70	27-3-4-4-4-3-3-1-1-3-4-3-2-8																			1.78
30-45	7612-11	3274-2-07				0-305066-08/03/76-19			19-10-5				5.2	33	27-3-4-4-4-3-3-1-1-3-4-3-2-8																			0.30
30-45	7552-11	3292-2-07				0-305067-08/03/76-19			19-12-6				5.7	60	33-3-4-4-4-3-3-1-1-3-4-3-2-8																			1.49
30-45	7671-11	3292-2-07				0-305068-08/04/76-9			18-7-9				5.5	47	16-3-4-4-4-4-4-1-1-3-4-3-1-8																			0.97
30-45	7520-11	3448-2-07				0-305069-08/04/76-9			17-9-3				5.5	45	27-3-4-4-4-4-4-1-1-3-4-3-1-8																			0.10
30-45	7523-11	3428-2-07				0-305070-08/04/76-10			17-9-5				5.5	25	22-3-4-4-4-4-4-1-1-4-4-3-1-8																			0.44
30-45	8467-11	3215-2-07				0-305071-08/04/76-11			19-10-5				5.5	42	5-3-4-4-4-3-3-1-1-4-4-3-1-8																			0.10
30-45	8617-11	3229-2-07				0-305072-08/04/76-12			20-11-5				5.5	32	13-3-4-4-4-2-3-1-1-3-3-2-2-1																			0.26
30-45	8615-11	3214-2-07				0-305073-08/04/76-13			20-11-5				5.9	32	11-3-4-4-4-2-3-1-1-3-3-2-2-1																			0.83
30-45	8700-11	3231-2-07				0-305074-08/04/76-13			21-1-4-0				5.9	42	16-3-4-4-4-3-3-1-1-3-3-2-2-8																			0.10
30-45	8601-11	3199-2-07				0-305075-08/04/76-13			21-10-5				5.7	55	22-3-4-4-4-4-4-1-1-4-4-3-2-8																			1.39
30-45	8633-11	3196-2-07				0-305076-08/04/76-14			21-10-5				5.5	50	11-3-4-4-4-4-4-1-1-4-4-3-2-8																			2.32
30-45	8562-11	3151-2-07				0-305077-08/04/76-14			22-10-5				5.5	60	5-3-4-4-4-4-4-1-1-4-4-3-2-8																			2.67
30-45	8417-11	3189-2-07				0-305078-08/04/76-15			21-10-5				5.5	60	27-3-4-4-4-4-4-1-1-4-4-3-2-8																			1.10
30-45	8106-11	3168-2-07				0-305079-08/04/76-16			21-10-5				5.7	80	33-3-4-4-4-4-4-1-1-4-4-3-2-8																			3.36
30-45	8103-11	3143-2-07				0-305080-08/04/76-16			21-10-6				5.2	55	33-3-4-4-4-4-4-1-1-4-4-3-2-8																			0.21
30-45	7800-11	3142-2-07				0-305081-08/04/76-16			20-9-0				5.2	42	0-3-4-4-4-4-4-1-1-4-4-3-2-8																			0.37
30-45	8111-11	3055-2-07				0-305082-08/04/76-17			20-10-5				5.5	40	16-3-4-4-4-4-4-1-1-4-4-3-2-8																			2.04
30-45	8117-11	3106-2-07				0-305083-08/04/76-17			19-11-5				5.7	60	16-3-4-4-4-4-4-1-1-4-4-3-2-8																			1.40
30-45	8428-11	3040-2-07				0-305084-08/04/76-17			20-11-5				5.5	75	16-3-4-4-4-4-4-1-1-4-4-3-2-8																			7.47
30-45	8600-11	3021-2-07				0-305085-08/04/76-18			20-10-5				5.2	20	16-3-4-4-4-3-3-1-1-4-4-3-2-8																			0.88
30-45	8444-11	3040-2-07				0-305086-08/04/76-18			19-8-5				5.7	9	16-3-4-4-4-4-4-1-1-4-4-3-2-8																			1.99
30-45	8533-11	3040-2-07				0-305087-08/04/76-18			19-12-6				5.7	70	13-3-4-4-4-4-4-1-1-4-4-3-2-8																			0.55
30-45	8012-11	3177-2-07				0-305088-08/06/76-8			18-7-5				5.5	60	5-3-4-4-4-4-4-1-1-4-4-3-1-8																			0.90
30-45	8908-11	3175-2-07				0-305089-08/06/76-8			18-6-5				5.5	70	16-3-4-4-4-4-4-1-1-4-4-3-1-8																			0.12
30-45	8903-11	3175-2-07				0-305090-08/06/76-9			18-8-9				5.5	60	11-3-4-4-4-4-4-1-1-4-4-3-1-8																			0.36
30-45	8467-11	3187-2-07				0-305091-08/06/76-9			18-8-0				5.5	110	16-3-4-4-4-4-4-1-1-4-4-3-1-8																			0.32
30-45	8436-11	3181-2-07				0-305092-08/06/76-9			18-5-5				5.5	50	22-3-4-4-4-3-3-1-1-4-4-3-1-8																			0.63
30-45	8423-11	3182-2-07				0-305093-08/06/76-9			19-13-5				5.9	120	11-3-4-4-4-2-3-1-1-4-4-3-1-8																			0.30
30-45	8271-11	3183-2-07				0-305094-08/06/76-10			19-6-5				5.5	55	5-3-4-4-4-3-3-1-1-3-4-3-1-8																			2.84
30-45	8644-11	3179-2-07				0-305095-08/06/76-11			19-5-5				5.7	170	5-3-4-4-4-3-3-2-1-1-4-4-3-1-8																			0.80
30-45	8012-11	3187-2-07				0-305096-08/06/76-11			20-9-5				5.7	110	11-3-4-4-4-3-3-1-1-4-4-3-1-8																			1.57
30-45	8013-11	3184-2-07				0-305097-08/06/76-12			20-9-0				5.7	180	16-3-4-4-4-3-3-1-1-4-4-3-1-8																			0.61
30-45	8603-11	3176-2-07				0-305098-08/07/76-11			9-5																									

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LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

LASL Uranium: Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

DOE SAMPLE NUMBER										LAST SAMPLE NUMBER AND FIELD DATA																				U CONCENTRATION				
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (d/g 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)	WATERS SAMPLED ANALYZED BY FLUORIMETRY OR DPC (M) UNITS IN PPB
30-45	60-03	-113.3	3295	-2-07		0-305339	-08/19/76	12-17	9.9	-	5.7		37	14-2	1-4	6-3	-3	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.00
30-45	60-08	-113.3	3266	-2-07		0-305340	-08/19/76	12-16	10.0	-	5.7		45	18-2	1-4	6-3	-3	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.09
30-45	59-74	-113.3	3262	-2-07		0-305341	-08/19/76	13-17	9.5	-	5.7		40	18-2	1-4	6-3	-3	-2	-1	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.19
30-45	60-25	-113.4	4941	-2-07		0-305342	-08/19/76	15-17	9.5	-	5.7		24	9-2	3-4	6-3	-3	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.19
30-45	60-14	-113.4	4440	-2-07		0-305343	-08/19/76	15-17	9.5	-	5.7		40	18-2	1-4	6-3	-3	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.22
30-45	51-51	-113.4	4448	-2-07		0-305344	-08/19/76	15-17	9.5	-	5.7		75	14-2	1-4	6-3	-3	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.21
30-45	55-19	-113.4	4181	-2-07		0-305345	-08/19/76	15-17	9.5	-	5.7		45	18-2	1-4	6-3	-3	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.10
30-45	55-41	-113.4	4181	-2-07		0-305346	-08/19/76	15-17	9.5	-	5.7		45	18-2	1-4	6-3	-3	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.10
30-45	55-41	-113.4	4181	-2-07		0-305347	-08/19/76	15-17	9.5	-	5.7		45	18-2	1-4	6-3	-3	-2	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.10
30-45	55-41	-113.4	4181	-2-07		0-305348	-08/19/76	15-17	9.5	-	5.7		43	14-2	1-4	6-3	-3	-2	-1	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.10
30-45	55-41	-113.4	4181	-2-07		0-305349	-08/19/76	15-17	9.5	-	5.7		46	2-3	7-3	6-3	-3	-2	-1	-3	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1.30
30-45	51-51	-113.3	2197	-2-07		0-305350	-08/19/76	19-16	14.1	-	5.9		50	2-3	7-2	7-3	-3	-2	-3	-3	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2.56
30-45	81-69	-113.1	2197	-2-07		0-305351	-08/19/76	19-16	14.1	-	5.9		285	0-4	-4	7-3	-3	-1	-3	-2	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.62
30-45	81-75	-113.1	2444	-2-07		0-305352	-08/19/76	19-14	14.1	-	5.7		72	0-3	7-1	7-3	-3	-1	-4	-3	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.52
30-45	88-39	-113.1	1431	-2-07		0-305353	-08/19/76	13-12	10.5	-	5.4		71	0-4	-4	7-3	-3	-1	-2	-3	-3	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	88-97	-113.1	2900	-2-07		0-305354	-08/19/76	13-14	11.3	-	5.7		68	1-4	-3	7-3	-3	-2	-1	-3	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	88-92	-113.1	3281	-2-07		0-305355	-08/19/76	15-20	11.3	-	5.8		108	0-4	-4	7-3	-3	-2	-1	-3	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	88-59	-113.1	1159	-2-07		0-305356	-08/19/76	16-20	11.6	-	5.8		160	1-2	7-4	6-3	-3	-2	-3	-3	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	88-67	-113.1	1159	-2-07		0-305357	-08/19/76	16-20	11.6	-	5.8		120	0-1	7-4	6-3	-3	-2	-3	-3	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.27
30-45	93-36	-113.1	1097	-2-07		0-305358	-08/19/76	17-20	11.9	-	5.7		80	2-2	7-4	6-3	-3	-2	-3	-3	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1.06
30-45	93-36	-113.1	1161	-2-07		0-305359	-08/19/76	17-19	11.4	-	5.7		73	0-3	7-3	7-4	-4	-2	-4	-2	-3	-4	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	93-31	-113.1	1150	-2-07		0-305360	-08/19/76	17-16	12.1	-	5.7		73	0-3	7-3	7-4	-4	-2	-4	-2	-3	-4	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	93-67	-113.1	1111	-2-07		0-305361	-08/19/76	18-16	11.5	-	5.7		70	0-2	7-5	7-3	-2	-1	-4	-3	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.21
30-45	93-56	-113.1	1052	-2-07		0-305362	-08/19/76	19-16	14.1	-	5.7		60	0-1	7-4	6-3	-3	-2	-3	-3	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.17
30-45	93-33	-113.1	1029	-2-07		0-305363	-08/19/76	11-13	8.2	-	5.6		51	-2	7-3	7-4	-4	-1	-2	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.21
30-45	93-33	-113.1	1029	-2-07		0-305364	-08/19/76	11-15	15.1	-	5.4		99	-2	7-3	7-4	-4	-1	-2	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.21
30-45	93-33	-113.1	1074	-2-07		0-305365	-08/19/76	12-18	12.1	-	5.8		117	-2	7-4	7-4	-3	-1	-2	-1	-4	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	93-36	-113.1	1083	-2-07		0-305366	-08/19/76	12-18	14.1	-	5.9		120	-2	7-4	7-4	-3	-1	-2	-1	-4	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.19
30-45	93-37	-113.1	1071	-2-07		0-305367	-08/19/76	13-21	9.6	-	5.5		37	-1	7-3	7-4	-3	-2	-1	-3	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	96-81	-113.1	1081	-2-07		0-305368	-08/19/76	13-21	9.6	-	5.5		250	-1	7-3	7-4	-3	-2	-1	-3	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.27
30-45	96-81	-113.1	1081	-2-07		0-305369	-08/19/76	13-21	9.6	-	5.5		189	-4	-2	-3	7-3	-3	-1	-2	-3	-3	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.15
30-45	96-06	-113.1	1015	-2-07		0-305370	-08/19/76	13-19	13.9	-	6.1		95	-5	1-3	7-3	-3	-1	-3	-3	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1.69
30-45	96-12	-113.1	1067	-2-07		0-305371	-08/19/76	15-19	17.9	-	5.7		110	-5	1-3	7-3	-3	-1	-3	-3	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1.30
30-45	97-56	-112.9	1204	-2-07		0-305372	-08/19/76	15-20	12.0	-	5.8		103	-4	-2	1-4	6-3	-3	-2	-1	-4	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	99-13	-112.9	1981	-2-07		0-305373	-08/19/76	17-24	11.5	-	6.1		245	-5	-3	7-1	7-3	-3	-2	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.23
30-45	99-13	-112.9	1899	-2-07		0-305374	-08/19/76	18-21	13.9	-	5.7		115	-4	-3	7-3	7-3	-3	-2	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.23
30-45	99-14	-112.9	1899	-2-07		0-305375	-08/19/76	18-20	13.9	-	5.9		150	-4	-3	7-3	7-3	-3	-2	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3.82
30-45	96-14	-112.8	1885	-2-07		0-305376	-08/19/76	19-19	12.9	-	6.1		320	-4	-7	-1	1-3	-3	-1	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.27
30-45	96-56	-112.8	876	-2-07		0-305377	-08/19/76	19-18	10.0	-	5.8		120	-4	-3	7-3	-3	-2	-1	-3	-5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.19
30-45	96-53	-112.8	832	-2-07		0-305378	-08/19/76	19-18	10.0	-	5.7		118	-4	-1	7-4	6-3	-3	-2	-1	-3	-5	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	96-04	-112.8	873	-2-07		0-305379	-08/19/76	19-15	8.5	-	6.1		250	-3	1-7	3-3	7-3	-3	-2	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	96-61	-112.8	873	-2-07		0-305380	-08/19/76	19-16	12.2	-	5.9		148	-4	-1	7-3	7-3	-3	-2	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.10
30-45	91-83	-112.9	1900	-2-06		0-305381	-08/19/76	20-13	9.9	-	5.9		213	-6	3	7-7	-2	-3	-1	1	-4	-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1.32
30-45	87-64	-112.8	853	-2-07		0-305382	-08/19/76	19-19	12.9	-	6.1		190	-4	-7	-1	1-3	-3	-1	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1.32
30-45	87-61	-112.8	843	-2-07		0-305383	-08/19/76	19-12	19.1	-	5.9		190	-4	-3	7-2	7-3	-3	-2	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1.46
30-45	86-15	-112.7	773	-2-07		0-305384	-08/19/76	19-11	11.0	-	6.3		330	-4	-3	7-2	7-3	-3	-2	-1	-5	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1.13
30-45	86-44	-112.7	7917	-2-07		0-305385	-08/19/76	15-20	14.0	-																								

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER			TIME SAMPLED		TEMPERATURE		SPECIAL MEASUREMENTS		PH		LASER SAMPLE NUMBER AND FIELD DATA										U CONCENTRATION														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (cpm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	STREAM CHANNEL	VEGETATION TYPE	RELIEF	WEATHER	OWNERSHIP	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUORIMETRY OR DRC (M)	UNITS IN PPB			
30-45	57.55	113.6244	-2-07			0-305454	08/27/76	11	17	9.5			5.7	40	14-4	-6-3	-2	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.26		
30-45	57.55	113.5394	-2-07			0-305455	08/27/76	12	17	9.5			5.2	35	9-2	-1	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.63	
30-45	57.54	113.5246	-2-07			0-305456	08/27/76	12	17	8.5			5.2	40	18-2	-1	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.30	
30-45	57.53	113.5158	-2-07			0-305457	08/27/76	12	17	9.5			5.2	70	9-2	-7	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	57.52	113.5411	-2-07			0-305458	08/27/76	13	17	10.5			5.2	45	14-2	-7	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.20	
30-45	57.51	113.5356	-2-07			0-305459	08/27/76	13	18	10.5			5.2	20	14-2	-1	-9	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	0.67	
30-45	57.50	113.4874	-2-07			0-305460	08/27/76	14	18	9.5			5.2	40	14-2	-1	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	57.50	113.4399	-2-07			0-305461	08/27/76	14	18	10.6			5.7	50	14-2	-1	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.17	
30-45	57.50	113.4275	-2-07			0-305462	08/27/76	14	17	9.0			5.7	65	4-2	-7	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.68	
30-45	57.51	113.4275	-2-07			0-305463	08/27/76	15	17	10.4			5.7	25	18-2	-7	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.23	
30-45	57.51	113.3950	-2-07			0-305464	08/27/76	15	17	8.4			5.7	55	18-2	-7	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	57.51	113.2918	-2-07			0-305465	08/27/76	15	17	10.4			5.7	190	7-2	-4	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.42	
30-45	57.50	113.4533	-2-07			0-305466	08/31/76	13	17	10.4			5.2	35	0-6	-6	-4	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.11	
30-45	57.50	113.4400	-2-07			0-305467	08/31/76	15	16	17.1			5.5	62	2-4	-3	-6	-4	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	1.25	
30-45	57.51	113.2800	-2-07			0-305468	09/01/76	12	17	18.7			5.7	70	9-4	-6	-4	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	57.53	113.2819	-2-07			0-305469	09/01/76	12	19	10.4			5.2	31	0-6	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	0.56	
30-45	57.53	113.3219	-2-07			0-305470	09/01/76	13	17	11.0			5.2	24	4-4	-2	-7	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.26	
30-45	57.53	113.3172	-2-07			0-305471	09/01/76	14	23	12.5			5.2	32	4-4	-2	-6	-4	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	0.43	
30-45	57.51	113.3017	-2-07			0-305472	09/01/76	14	26	11.0			5.5	40	7-2	-4	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.10	
30-45	57.50	113.3156	-2-07			0-305473	09/01/76	15	17	22.7			5.2	30	2-2	-4	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.36	
30-45	57.51	113.3156	-2-07			0-305474	09/01/76	16	17	18.7			5.5	58	14-6	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	0.21
30-45	57.51	113.3377	-2-07			0-305475	09/01/76	16	16	13.0			5.7	90	2-4	-3	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	1.35
30-45	57.51	113.3778	-2-07			0-305476	08/30/76	17	25	14.5	C		5.2	41	9-2	-1	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	0.31
30-45	57.51	113.4634	-2-06			0-305477	08/30/76	18	15	7.0	C		5.2	50	0-2	-1	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	0.31
30-45	57.51	113.4553	-2-07			0-305478	08/31/76	12	17	12.0	C		5.5	60	0-1	-5	-7	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	0.10
30-45	57.51	113.4306	-2-07			0-305480	08/31/76	12	18	18.0	C		5.7	38	4-4	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	0.48
30-45	57.51	113.4306	-2-07			0-305482	08/31/76	13	17	12.0	C		5.5	70	0-6	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	0.35
30-45	57.51	113.4933	-2-07			0-305484	09/04/76	14	23	13.5	C		5.2	40	2-3	-1	-1	-4	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.56
30-45	57.51	113.4930	-2-07			0-305485	09/04/76	15	20	13.5	C		5.7	60	2-3	-1	-1	-2	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.72
30-45	57.51	113.4961	-2-07			0-305486	09/04/76	15	15	9.0	C		5.5	65	2-4	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	0.30
30-45	57.51	113.4799	-2-07			0-305487	09/04/76	16	15	9.0	C		5.2	60	0-4	-2	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	0.10
30-45	57.51	113.4799	-2-07			0-305488	09/04/76	16	15	13.0	C		5.2	60	8-3	-1	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	0.10
30-45	57.51	113.4799	-2-07			0-305489	09/14/76	13	20	7.0	C		5.9	39	8-3	-1	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	0.16
30-45	57.51	113.4933	-2-06			0-305490	09/14/76	13	20	15.0	C		5.9	1700	8-3	-1	-1	-2	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	0.20
30-45	57.51	113.4799	-2-07			0-305491	09/14/76	13	20	9.0	C		5.9	40	8-3	-1	-1	-4	-2	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	0.67
30-45	57.51	113.4931	-2-07			0-305492	09/14/76	12	13	9.0	C		5.9	32	12	-3	-6	-6	-4	-2	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	0.49
30-45	57.51	113.4931	-2-07			0-305493	09/14/76	12	13	9.0	C		5.9	40	10	-3	-1	-6	-4	-2	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	0.10
30-45	57.51	113.4931	-2-07			0-305494	09/03/76	13	19	11.0	C		6.3	455	2-3	-4	-6	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	-	3.55
30-45	57.51	113.4931	-2-06			0-305495	09/03/76	13	19	11.0	C		6.3	320	2-3	-7	-6	-2	-3	-2	-4	-3	-1	-3	-	-	-	-	-	-	-	-	-	-	3.02
30-45	57.51	113.4931	-2-06			0-305496	08/17/76	8	4	4.5	C		4.9	9	8	-3	-1	-1	-5	-3	-1	-1	-5	-1	-1	-	-	-	-	-	-	-	-	-	0.10
30-45	57.51	113.4931	-2-07			0-305500	08/17/76	8	4	4.5	C		4.9	9	8	-3	-1	-1	-5	-3	-1	-1	-5	-1	-1	-	-	-	-	-	-	-	-	-	0.10
30-45	57.51	113.4931	-2-07			0-305501	08/17/76	9	15	9.0	C		4.9	9	8	-3	-1	-1	-5	-3	-1	-1	-5	-1	-1	-	-	-	-	-	-	-	-	-	0.10
30-45	57.51	113.4931	-2-07			0-305502	08/17/76	12	18	10.0	C		5.1	11	11	-3	-1	-1	-5	-3	-1	-1	-5	-2	-1	-	-	-	-	-	-	-	-	-	0.10
30-45	57.51	113.4931	-2-07			0-305503	08/17/76	12	18	10.0	C		5.1	45	9	-3	-1	-1	-5	-3	-1	-1	-5	-2	-1	-									

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER				DOE SAMPLE NUMBER AND FIELD DATA										LASEL SAMPLE NUMBER AND FIELD DATA										U CONCENTRATION									
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (µCi/ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STRAIN CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUORIMETRY OR DCE (M)	ppm
						DATE	HOUR																										
30-45	1191	113	3590	2-07	0-305512	08/31/76	9	17	9.5	-	5.7	56	6-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	1562	113	4958	2-07	0-305513	08/31/76	9	16	9.5	-	5.5	50	8-2	1	5-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	1236	113	4551	2-07	0-305514	08/31/76	10	17	9.5	-	5.7	45	4-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	1242	113	4611	2-07	0-305515	08/31/76	10	16	9.5	-	5.5	30	8-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	1111	113	4611	2-07	0-305516	08/31/76	10	17	10.5	-	5.7	40	6-2	1	4-6	2-3	1-2	2-3	3-1	3	0.10												
30-45	0917	113	4612	2-07	0-305517	08/31/76	11	17	9.5	-	5.7	45	4-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	0809	113	4612	2-07	0-305518	08/31/76	11	17	9.5	-	5.7	30	6-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	0722	113	4612	2-07	0-305521	08/31/76	12	18	9.5	-	5.7	40	2-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	0730	113	4625	2-07	0-305522	08/31/76	12	18	9.5	-	5.7	40	2-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	0514	113	4130	2-07	0-305523	08/31/76	12	18	10.0	-	5.7	55	4-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	0466	113	4130	2-07	0-305524	08/31/76	12	18	10.5	-	5.7	55	2-2	1	4-6	3-3	1-2	2-3	3-1	3	0.23												
30-45	0417	113	4130	2-07	0-305525	08/31/76	12	18	10.5	-	5.7	35	4-2	1	4-6	3-3	1-2	2-3	3-1	3	0.42												
30-45	0278	113	4625	2-07	0-305527	08/31/76	13	19	10.5	-	5.7	45	4-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	0111	113	3969	2-07	0-305528	08/31/76	13	19	10.5	-	5.7	45	4-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	0097	113	3632	2-07	0-305529	08/31/76	13	19	9.5	-	5.9	85	4-2	1	4-6	3-3	1-2	2-3	3-1	3	1.02												
30-45	0917	113	3250	2-07	0-305530	09/01/76	9	16	9.5	-	5.2	40	14-2	1	4-6	3-3	1-2	2-3	3-1	3	0.52												
30-45	0250	113	2591	2-07	0-305531	09/01/76	9	16	9.5	-	5.2	30	14-2	1	4-6	3-3	1-2	2-3	3-1	3	0.15												
30-45	0278	113	2903	2-07	0-305532	09/01/76	9	16	9.5	-	5.2	50	18-2	1	5-6	3-3	1-2	2-3	3-1	3	0.25												
30-45	0659	113	2903	2-07	0-305533	09/01/76	9	16	9.5	-	5.7	45	14-2	1	3-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	1135	113	3969	2-07	0-305534	09/01/76	10	17	9.5	-	5.7	55	14-2	1	3-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	1375	113	3944	2-07	0-305541	09/01/76	12	18	10.0	-	5.7	55	14-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	1292	113	3632	2-07	0-305542	09/01/76	12	18	9.5	-	5.7	30	9-2	1	3-6	3-3	1-2	2-3	3-1	3	1.07												
30-45	1389	113	3632	2-07	0-305543	09/01/76	12	18	9.5	-	5.5	15	9-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	1593	113	3875	2-07	0-305544	09/01/76	13	18	9.5	-	5.5	30	14-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	1630	113	3692	2-07	0-305545	09/01/76	13	18	9.5	-	5.2	30	14-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	1718	113	3969	2-07	0-305546	09/01/76	13	18	9.5	-	5.5	15	23-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	2403	113	2550	2-07	0-305547	09/01/76	15	18	9.5	-	5.5	33	18-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	2093	113	2789	2-07	0-305548	09/01/76	15	19	9.0	-	5.5	65	18-2	1	4-6	3-3	1-2	2-3	3-1	3	0.25												
30-45	2059	113	2789	2-07	0-305549	09/01/76	16	19	10.5	-	5.5	44	18-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	6386	113	2725	2-07	0-305550	09/01/76	16	19	10.5	-	5.2	30	14-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	717	113	3244	2-07	0-305551	08/24/76	11	17	10.0	-	5.2	43	22-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	6688	113	3769	2-07	0-305552	08/24/76	12	16	10.5	-	5.2	24	13-2	1	3-3	3-3	1-2	2-3	3-1	3	0.10												
30-45	6893	113	3769	2-07	0-305553	08/24/76	12	16	10.5	-	5.0	20	0-2	1	3-3	3-3	1-2	2-3	3-1	3	0.10												
30-45	6433	113	3769	2-07	0-305554	08/24/76	13	19	20.0	-	5.2	15	11-2	1	2-3	3-3	1-2	2-3	3-1	3	0.10												
30-45	6794	113	3645	2-07	0-305555	08/24/76	15	18	9.5	-	5.2	32	27-2	1	4-6	3-3	1-2	2-3	3-1	3	0.55												
30-45	7433	113	3645	2-07	0-305556	08/24/76	15	18	9.5	-	5.2	32	16-2	1	4-6	3-3	1-2	2-3	3-1	3	0.71												
30-45	7066	113	3769	2-07	0-305557	08/24/76	16	19	10.5	-	5.7	50	27-2	1	3-3	3-3	1-2	2-3	3-1	3	0.10												
30-45	6682	113	3769	2-07	0-305558	08/25/76	12	18	9.5	-	5.7	50	27-2	1	3-3	3-3	1-2	2-3	3-1	3	0.10												
30-45	6918	113	3769	2-07	0-305559	08/25/76	12	18	10.5	-	5.2	30	11-2	1	4-6	3-3	1-2	2-3	3-1	3	0.44												
30-45	6712	113	3769	2-07	0-305560	08/25/76	13	17	10.5	-	5.2	25	11-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	6791	113	3769	2-07	0-305561	08/25/76	13	17	9.5	-	5.2	30	11-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	6791	113	3769	2-07	0-305562	08/25/76	13	17	9.5	-	5.2	25	11-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	6794	113	3769	2-07	0-305563	08/25/76	13	17	9.5	-	5.2	21	27-2	1	4-6	3-3	1-2	2-3	3-1	3	0.10												
30-45	6519	113	3769	2-07	0-305564	08/25/76	13	16	10.5	-	5.5	30	16-1	1	5-6	3-3	1-2	2-3	3-1	3	1.09												
30-45	6611	113	3769	2-07	0-305565	08/25/76	14	17	9.5	-	5.5	34	16-2	1	5-6	3-3	1-2	2-3	3-1	3	0.10												

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER										LAST SAMPLE NUMBER AND FIELD DATA										U CONCENTRATION														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (cpd ppm)	ROCK TYPE	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLING ANGLE BY FLOWMETER OR DOY	WATER SAMPLING DEPTH (FEET)	U CONCENTRATION
							DATE	HOUR																										
30-44	9367-113.0267	-2-07				0-305846-09/27/76	14	15	6.4	-	5.7	250	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.95
30-44	9382-113.1303	-2-06				0-305850-09/28/76	10	8	4.0	-	5.9	650	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.14
30-45	3072-113.4639	-2-07				0-305851-09/01/76	10	21	16.2	-	5.9	40	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	1.26
30-45	9103-113.5686	-2-07				0-305853-09/01/76	19	28	10.7	-	5.4	40	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	9103-113.5708	-2-07				0-305854-09/01/76	14	28	9.9	-	5.9	30	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	9108-113.5468	-2-07				0-305855-09/01/76	14	28	10.1	-	5.9	20	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.33
30-45	9789-113.5906	-2-07				0-305857-09/02/76	11	26	9.3	-	5.8	20	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.36
30-45	9930-113.6026	-2-07				0-305858-09/02/76	13	27	11.7	-	5.9	10	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	9930-113.6036	-2-07				0-305859-09/02/76	13	27	11.7	-	5.9	10	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	9703-113.5167	-2-07				0-305860-09/02/76	17	23	9.2	-	6.0	25	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.52
30-45	9925-113.5267	-2-07				0-305861-09/02/76	19	20	9.4	-	6.0	25	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.25
30-45	9244-113.4607	-2-07				0-305862-09/03/76	7	16	9.7	-	6.0	22	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	8938-113.4253	-2-07				0-305863-09/03/76	14	29	10.7	-	6.0	100	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	1.35
30-45	9201-113.4847	-2-07				0-305864-09/03/76	20	17	9.6	-	5.9	15	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.38
30-45	8814-113.4644	-2-07				0-305865-09/04/76	12	26	11.2	-	5.4	40	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	8814-113.4644	-2-07				0-305866-09/04/76	14	29	12.3	-	5.8	30	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	8036-113.5817	-2-07				0-305867-09/04/76	14	29	12.3	-	5.8	40	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.56
30-45	8036-113.5817	-2-07				0-305868-08/31/76	10	22	9.8	-	5.8	120	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	1.07
30-45	8019-113.5255	-2-07				0-305869-08/31/76	10	22	10.1	-	5.2	90	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.31
30-45	8042-113.5139	-2-07				0-305871-08/31/76	14	28	10.1	-	5.4	80	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	8130-113.5139	-2-07				0-305872-08/31/76	14	28	10.1	-	5.4	80	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	8130-113.5139	-2-07				0-305873-08/31/76	15	29	10.9	-	6.0	110	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	1.04
30-45	8418-113.5139	-2-07				0-305874-08/31/76	19	19	9.8	-	5.2	70	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.08
30-45	9730-113.5139	-2-07				0-305875-08/30/76	9	19	10.2	-	5.8	90	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	9044-113.6945	-2-07				0-305876-08/30/76	9	19	10.3	-	6.2	60	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.16
30-45	9019-113.6730	-2-07				0-305877-08/30/76	10	21	11.2	-	5.2	70	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.16
30-45	9050-113.6473	-2-07				0-305878-08/30/76	11	23	10.7	-	5.6	60	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.36
30-45	9025-113.6300	-2-07				0-305879-08/30/76	12	27	10.6	-	5.8	90	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	9031-113.6230	-2-07				0-305880-08/30/76	12	27	11.1	-	6.0	70	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.11
30-45	7995-113.6417	-2-07				0-305881-09/05/76	13	27	9.8	-	5.5	90	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.15
30-45	8394-113.6417	-2-07				0-305884-09/06/76	8	17	10.3	-	6.0	90	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	8193-113.6200	-2-07				0-305885-09/06/76	9	19	10.1	-	5.8	100	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	0.10
30-45	7894-113.5328	-2-07				0-305886-09/06/76	10	20	10.3	-	5.9	90	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4-4-3-1-2	-3	5-4	-4											

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LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER AND FIELD DATA										LASL SAMPLE NUMBER AND FIELD DATA										U CONCENTRATION														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (cpd/ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DPC (#)	ppb IN UNITS
							DATE	HOUR																										
30-45	0552-112.6819	-2-06				0-306102	10/01/76	13	14	8.2	-	5.2	22	-	-	1-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.19	
30-45	0596-112.6786	-2-06				0-306105	10/01/76	15	15	7.6	-	5.7	75	-	-	1-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.37	
30-45	0533-112.6793	-2-07				0-306106	10/01/76	15	15	9.6	-	6.3	240	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10	
30-44	0883-112.6194	-2-07				0-306107	10/01/76	16	15	9.4	-	5.2	37	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.72	
30-44	0886-112.5630	-2-07				0-306115	10/02/76	9	12	6.4	-	5.5	110	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.09	
30-44	0704-112.6578	-2-07				0-306124	10/02/76	12	12	8.8	-	5.5	85	-	-	2-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.73	
30-44	0736-112.6598	-2-07				0-306125	10/02/76	12	13	8.8	-	5.5	37	-	-	1-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
30-44	0936-112.6644	-2-07				0-306128	10/02/76	16	13	8.4	-	5.7	95	-	-	1-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.72	
30-45	0266-112.4552	-2-07				0-306134	10/03/76	10	10	8.2	-	5.5	75	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.13	
30-45	0166-112.4152	-2-07				0-306135	10/03/76	10	10	8.4	-	5.7	120	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.16	
30-45	0288-112.3453	-2-07				0-306138	10/03/76	11	10	8.4	-	5.7	37	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.61	
30-45	0550-112.3796	-2-07				0-306141	10/03/76	12	11	9.4	-	5.7	135	-	-	2-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.80	
30-45	0856-112.4278	-2-07				0-306142	10/03/76	12	11	9.4	-	5.5	95	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20	
30-45	0314-112.1133	-2-08				0-306145	10/03/76	12	11	9.2	-	5.7	85	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.93	
30-45	0592-112.1639	-2-08				0-306148	10/03/76	13	11	7.4	-	5.7	135	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.15	
30-45	0691-112.1264	-2-07				0-306153	10/03/76	15	12	9.4	-	5.7	165	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80	
30-45	0922-112.2622	-2-07				0-306156	10/03/76	16	12	9.2	-	5.7	75	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80	
30-45	1193-112.3383	-2-07				0-306159	10/03/76	17	12	9.4	-	5.7	220	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.08	
30-45	1200-112.3356	-2-07				0-306160	10/03/76	17	12	9.4	-	5.7	175	-	-	2-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.24	
30-45	0653-112.3349	-2-06				0-306162	10/03/76	18	12	7.8	-	5.5	46	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.60	
30-45	0981-112.3799	-2-06				0-306163	10/03/76	18	12	7.8	-	5.2	50	-	-	1-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.36	
30-45	0875-112.4264	-2-06				0-306165	10/03/76	19	12	7.8	-	5.5	45	-	-	2-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.26	
30-45	0131-112.0977	-2-07				0-306189	10/04/76	15	9	7.4	-	5.5	48	-	-	1-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.92	
30-45	0494-112.1030	-2-07				0-306190	10/04/76	16	9	7.4	-	5.7	120	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.03	
30-45	0639-112.0289	-2-07				0-306195	10/04/76	17	9	9.8	-	5.7	220	-	-	2-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.88	
30-45	0972-112.1193	-2-07				0-306198	10/04/76	19	9	9.6	-	5.7	80	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.96	
30-44	0972-112.1194	-2-07				0-306204	10/05/76	9	4	7.4	-	5.5	65	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.54	
30-44	0769-111.9736	-2-07				0-306209	10/05/76	11	5	7.4	-	5.5	75	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.63	
30-44	0961-112.0064	-2-07				0-306213	10/05/76	12	6	8.6	-	5.7	120	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.33	
30-44	0633-112.0112	-2-07				0-306215	10/05/76	12	6	8.6	-	5.5	85	-	-	1-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.01	
30-44	0864-112.0078	-2-07				0-306217	10/05/76	13	5	7.6	-	5.2	65	-	-	2-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.77	
30-45	2203-112.4253	-2-06				0-306230	10/05/76	9	5	7.4	-	5.2	38	-	-	-2-6-5-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70	
30-45	1288-112.4174	-2-06				0-306233	10/05/76	10	6	6.4	-	5.5	135	-	-	-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.11	
30-45	1264-112.4100	-2-07				0-306239	10/05/76	12	7	7.8	-	5.7	65	-	-	-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.10	
30-45	1553-112.3814	-2-06				0-306241	10/05/76	12	7	6.6	-	5.5	75	-	-	-2-6-6-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.79	
30-45	1826-112.3456	-2-06				0-306243	10/05/76	13	7	5.8	-	5.5	22	-	-	-2-6-6-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00	
30-45	1534-112.3531	-2-06				0-306244	10/05/76	13	7	5.6	-	5.2	110	-	-	-2-6-5-6-3-3-1	-2-2-2-1	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.46	
30-45	1636-112.3329	-2-07				0-306245	10/05/76	14	8	7.8	-	5.7	100	-	-	-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	1567-112.3267	-2-07				0-306246	10/05/76	14	8	6.4	-	5.5	160	-	-	-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.61	
30-45	1264-112.3400	-2-07				0-306247	10/05/76	15	8	6.4	-	5.5	180	-	-	-2-6-4-6-3-3-2	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	1625-112.2893	-2-06				0-306248	10/05/76	15	8	6.4	-	5.2	58	-	-	-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.92	
30-45	1869-112.3364	-2-06				0-306249	10/05/76	16	8	7.4	-	5.2	47	-	-	-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.50	
30-45	1814-112.4315	-2-06				0-306250	10/05/76	16	8	7.4	-	5.5	75	-	-	-2-6-4-6-3-3-1	-2-3-3-3	-3	-	-	-	-	-	-	-	-</								

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER			DOE LAB			REPLICATE			LAST SAMPLE NUMBER			TIME SAMPLED		AIR TEMPERATURE		WATER TEMPERATURE		SPECIAL MEASUREMENTS		pH		SPECIFIC CONDUCTANCE (µmho/cm)		SCINTILLOMETER (µd ppm)		ROCK TYPE		SEDIMENT COLOR		SEDIMENT COLOR		WATER FLOW		WATER LEVEL		WATER COLOR		STREAM CHANNEL		VEGETATION TYPE		RELIEF		WEATHER		OWNERSHIP		CONTAMINANTS		WELL DIAMETER (INCHES)		WELL DEPTH (FEET)		WATER DEPTH (FEET)		U CONCENTRATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
STATE	LATITUDE	LONGITUDE	SAMPLE TYPE	DOE LAB	REPLICATE	SAMPLE NUMBER	DATE	HOUR	TEMPERATURE	TEMPERATURE	COMMENTS	MEASUREMENTS	pH	CONDUCTANCE	SCINTILLOMETER	ROCK TYPE	SEDIMENT COLOR	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	U CONCENTRATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
30-44	7130-1123255	2-07				0-306614-09/29/76-14			19	8.6-C	-	-	5.6	450		3-4	-4-6	-2-3	-2-3	-3-3	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-1-1	-

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER				LAST SAMPLE NUMBER AND FIELD DATA										U CONCENTRATION																			
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (nd ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	RELIEF	WEATHER	OWNERSHIP	WELL TYPE	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLES ANALYZED BY FLUORIMETRY OR DIC (M) UNITS: N	ppb	
30-44	8042-112	3378-2-07				0-306683	10/01/76	17	17	8.5	C	5.7	390	6-4	-3	7-4	-2	1-2	4-3	-4	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.53	
30-44	8078-112	3372-2-07				0-306684	10/01/76	18	18	9.0	C	5.7	600	6-4	-4	-7	-3	-1	2-3	4-3	-4	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	3.66
30-44	7722-112	3478-2-07				0-306685	10/05/76	9	9	10.0	C	5.7	450	6-4	-4	-6	-2	-1	2-4	3-4	-4	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	2.26
30-45	7019-112	3033-2-06				0-306686	10/06/76	13	13	10.0	C	5.7	460	4-4	-4	-2	-3	-1	4-4	1-4	-4	-1	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	4.67
30-45	6242-112	3333-2-07				0-306688	10/06/76	14	14	9.0	C	5.7	160	10-4	-4	-6	-2	-1	2-2	4-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	6.83
30-45	6533-112	3343-2-07				0-306689	10/06/76	15	15	9.0	C	5.7	380	10-3	-1	-3	-1	-2	1-2	4-4	-4	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	4.41
30-45	6797-112	3383-2-07				0-306690	10/06/76	15	15	8.0	C	5.7	280	8-3	-1	-4	-6	-2	-1	2-2	4-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	7.80
30-45	6797-112	3393-2-07				0-306691	10/06/76	17	17	9.0	C	5.7	180	1-3	-1	-4	-1	-3	-2	-1	2-4	-4	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.41
30-45	6706-112	3483-2-07				0-306692	10/06/76	15	15	9.0	C	5.7	110	8-3	-1	-3	-6	-2	-1	2-3	4-4	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.21
30-45	6945-112	3145-2-07				0-306693	10/05/76	10	10	1.0	C	5.2	70	2-7	-3	-7	-3	-2	-1	2-1	4-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3.14
30-45	6831-112	3139-2-07				0-306695	10/05/76	11	11	5.0	C	5.3	50	2-7	-2	-1	-2	-1	2-1	4-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1.19
30-45	6583-112	3101-2-07				0-306696	10/05/76	11	11	5.0	C	5.5	60	2-7	-3	-7	-2	-1	2-1	4-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3.35
30-45	6583-112	3101-2-07				0-306697	10/05/76	12	12	6.0	C	5.7	50	2-7	-3	-7	-2	-1	2-1	4-4	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1.05
30-45	6514-112	3036-2-07				0-306698	10/05/76	13	13	5.0	C	5.3	40	2-7	-3	-1	-2	-1	2-1	4-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.66
30-45	6378-112	3025-2-07				0-306699	10/05/76	13	13	7.0	C	5.1	40	2-7	-3	-1	-2	-1	2-1	4-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.25
30-45	6244-112	3039-2-07				0-306700	10/05/76	13	13	7.0	C	5.2	50	2-7	-2	-7	-3	-2	-1	2-1	4-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0.22
30-44	5819-112	3267-2-07				0-306701	10/01/76	15	15	10.0	C	6.1	450	3-4	-6	-7	-2	-1	2-4	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.53
30-44	5642-112	3422-2-07				0-306702	10/01/76	15	15	14.0	C	6.3	250	1-4	-6	-6	-3	-1	2-4	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.35
30-44	5700-112	3456-2-07				0-306703	10/01/76	15	15	16.2	C	6.3	250	3-4	-3	-6	-3	-1	2-4	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	3.07
30-44	5818-112	3450-2-07				0-306704	10/01/76	16	16	14.0	C	6.3	600	5-4	-2	-7	-3	-1	2-4	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.10
30-44	5989-112	3450-2-07				0-306705	10/01/76	16	16	15.0	C	5.7	350	5-6	-4	-6	-3	-1	2-4	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.54
30-44	5989-112	3450-2-07				0-306707	10/01/76	17	17	15.0	C	5.7	600	7-4	-2	-1	-2	-1	2-4	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.29
30-44	6028-112	3459-2-07				0-306708	10/01/76	17	17	15.0	C	6.3	700	3-4	-3	-7	-2	-1	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	2.77
30-44	6028-112	3459-2-07				0-306709	10/01/76	17	17	13.0	C	6.3	500	7-2	-6	-3	-6	-3	-1	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.56
30-44	6066-112	3459-2-06				0-306710	10/01/76	17	17	9.0	C	6.1	600	11-2	-6	-4	-6	-3	-1	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.32
30-44	6167-112	3504-2-07				0-306712	10/01/76	18	18	14.0	C	6.3	550	3-4	-2	-1	-3	-1	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.05
30-44	7267-112	3554-2-06				0-306718	10/02/76	11	11	10.0	C	5.7	600	5-4	-5	-6	-3	-2	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.25
30-44	7647-112	3503-2-07				0-306720	10/02/76	11	11	10.0	C	5.9	320	5-4	-5	-6	-3	-2	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.24
30-44	7564-112	3502-2-07				0-306721	10/02/76	11	11	10.0	C	5.7	350	7-3	-6	-4	-6	-3	-2	2-4	4-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.40
30-44	7614-112	3506-2-06				0-306722	10/02/76	11	11	8.0	C	5.7	440	7-3	-6	-3	-6	-3	-1	2-4	4-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	2.13
30-44	7961-112	3508-2-07				0-306725	10/02/76	11	11	8.0	C	5.7	350	5-4	-4	-6	-3	-1	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	2.93
30-44	8319-112	3719-2-07				0-306727	10/02/76	12	12	10.2	C	6.3	360	11-4	-4	-6	-3	-1	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	2.50
30-44	8322-112	3748-2-07				0-306728	10/02/76	12	12	9.0	C	6.1	400	15-4	-3	-7	-3	-1	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.97
30-44	8622-112	3536-2-07				0-306732	10/02/76	12	12	10.0	C	5.7	280	5-4	-3	-6	-3	-3	1-2	3-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.57
30-44	8651-112	3551-2-07				0-306734	10/02/76	13	13	10.0	C	5.9	310	11-4	-3	-7	-3	-1	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.09
30-44	8967-112	3550-2-07				0-306740	10/02/76	13	13	11.0	C	5.7	320	9-4	-3	-4	-2	-1	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	2.99
30-44	8967-112	3550-2-07				0-306741	10/02/76	13	13	11.0	C	5.7	400	3-4	-6	-6	-2	-2	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.41
30-44	7347-112	3545-2-07				0-306743	10/02/76	14	14	11.0	C	5.7	320	3-4	-6	-6	-2	-1	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	2.99
30-44	7322-112	3611-2-07				0-306747	10/02/76	15	15	12.0	C	5.7	390	3-4	-5	-6	-2	-2	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.63
30-44	6875-112	3729-2-07				0-306749	10/02/76	15	15	10.0	C	5.7	390	3-4	-5	-6	-2	-2	2-3	3-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.87
30-44	7092-112	3619-2-07				0-306750	10/02/76	15	15	10.0	C	5.7	440	5-4	-5	-6	-2	-2	2-4	4-3	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	1.27
30-44	6853-112	3419-2-07				0-306751	10/02/76	15	15	10.0	C	5.7	500	5-4	-5	-6	-2	-2	2-4	4-3	-2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	0.62
30-44	5553-112	3156-2-06				0-306752	10/02/76	15	15	13.0	C	5.7	480	7-1	-4																		

LASt Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER		LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE NUMBER	TIME SAMPLED		TEMPERATURE		COMMENTS	SPECIAL MEASUREMENTS		pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (dpm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	VEGETATION TYPE	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	U CONCENTRATION	WATER SAMPLES ANALYZED BY FLUOROMETRY OR DCM (N) UNITS IN PPB
STATE	DOE NUMBER							DATE	HOUR	AIR	WATER		MEASUREMENTS	DOE NUMBER																					
30-44	7303	113370	-07				0-306764	10/03/76	11	4	4.8	-	-	5.9	600	7-1	1-6	3-1	2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	1.11		
30-44	7411	113331	-06				0-306765	10/03/76	11	4	8.4	-	-	5.7	450	5-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	1.55		
30-44	7228	113338	-07				0-306766	10/03/76	12	4	5.2	-	-	5.9	650	7-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	1.71		
30-44	7222	113364	-07				0-306767	10/03/76	12	4	5.4	-	-	6.1	550	5-4	-7-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	2.20		
30-44	6949	113339	-07				0-306769	10/03/76	12	8	6.2	-	-	5.7	460	7-1	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.23		
30-44	7122	113315	-07				0-306770	10/03/76	12	8	5.4	-	-	5.4	400	13-4	-6-2	3-1	2-3	2-2	1	-	-	-	-	-	-	-	-	-	-	-	0.85		
30-44	7172	113313	-07				0-306772	10/03/76	13	8	6.2	-	-	5.9	310	5-1	-4-6	3-1	2-3	2-2	3	-	-	-	-	-	-	-	-	-	-	-	0.57		
30-44	7194	113312	-07				0-306773	10/03/76	13	8	6.1	-	-	5.7	410	7-1	-4-6	3-1	2-3	2-2	3	-	-	-	-	-	-	-	-	-	-	-	0.80		
30-44	7364	113317	-07				0-306775	10/03/76	13	8	7.2	-	-	5.7	320	7-4	-6-3	1-2	4-4	2-2	3	-	-	-	-	-	-	-	-	-	-	-	0.62		
30-44	7183	113323	-06				0-306776	10/03/76	13	8	9.4	-	-	5.5	480	5-1	-4-6	3-1	2-4	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.68		
30-44	7208	113320	-07				0-306777	10/03/76	13	8	7.8	-	-	5.7	330	7-4	-6-2	3-1	2-4	2-2	3	-	-	-	-	-	-	-	-	-	-	-	0.16		
30-44	7269	113322	-07				0-306779	10/03/76	13	8	7.8	-	-	5.9	340	7-4	-6-3	1-2	4-4	2-2	3	-	-	-	-	-	-	-	-	-	-	-	1.01		
30-44	7519	113339	-07				0-306780	10/03/76	14	9	7.4	-	-	5.7	300	7-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.79		
30-44	7597	113337	-07				0-306781	10/03/76	13	10	8.5	-	-	5.9	340	7-4	-6-3	1-2	4-4	2-2	3	-	-	-	-	-	-	-	-	-	-	-	0.29		
30-44	7742	113306	-07				0-306782	10/03/76	13	10	8.5	-	-	5.9	360	7-4	-6-3	1-2	4-4	2-2	3	-	-	-	-	-	-	-	-	-	-	-	0.10		
30-44	7797	113306	-06				0-306783	10/03/76	13	10	12.0	-	-	5.7	310	3-1	-7-3	1-3	3-4	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.70		
30-44	8006	113348	-06				0-306785	10/03/76	14	10	8.3	-	-	5.7	370	9-1	-1-3	1-3	1-3	3-4	3-2	3	-	-	-	-	-	-	-	-	-	-	0.48		
30-44	6931	113222	-06				0-306786	10/03/76	14	10	8.3	-	-	5.7	310	5-4	-6-3	1-2	4-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.34		
30-44	8067	113245	-07				0-306788	10/03/76	15	11	12.0	-	-	5.9	360	5-4	-6-2	3-1	2-4	3-2	3	-	-	-	-	-	-	-	-	-	-	-	1.03		
30-44	5858	113561	-07				0-306793	10/03/76	16	11	12.0	-	-	5.7	430	3-4	-6-3	1-2	4-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	1.55		
30-44	5700	113561	-07				0-306796	10/03/76	16	11	10.5	-	-	5.7	310	5-4	-6-3	1-2	4-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.52		
30-44	5700	113561	-07				0-306797	10/03/76	16	11	8.5	-	-	5.9	250	5-4	-6-3	1-2	4-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	1.35		
30-44	5000	113482	-07				0-306798	10/03/76	17	11	9.5	-	-	5.7	400	11-4	-6-3	1-2	3-3	2-2	3	-	-	-	-	-	-	-	-	-	-	-	0.92		
30-44	6583	113347	-06				0-306800	10/03/76	17	12	11.5	-	-	5.7	330	7-1	-4-6	3-1	2-4	3-2	3	-	-	-	-	-	-	-	-	-	-	-	1.15		
30-44	6515	113320	-07				0-306801	10/03/76	18	12	11.5	-	-	5.7	360	11-1	-3	3-3	1-2	4-3	2-2	3	-	-	-	-	-	-	-	-	-	-	1.71		
30-44	6586	113328	-07				0-306802	10/03/76	18	12	11.5	-	-	5.7	360	13-1	-6-3	1-2	3-3	3-2	1	-	-	-	-	-	-	-	-	-	-	-	0.50		
30-44	6733	113242	-06				0-306805	10/03/76	18	10	10.5	-	-	5.7	380	5-4	-5-3	1-2	3-3	2-2	3	-	-	-	-	-	-	-	-	-	-	-	1.50		
30-44	6733	113242	-07				0-306806	10/03/76	9	3	2.8	-	-	5.9	550	11-4	-6-3	1-2	4-3	2-2	3	-	-	-	-	-	-	-	-	-	-	-	0.60		
30-44	6814	113163	-07				0-306807	10/03/76	9	3	3.2	-	-	6.1	380	7-4	-4-2	3-1	2-4	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.77		
30-44	6703	113114	-07				0-306808	10/03/76	10	4	5.8	-	-	5.9	460	7-4	-4-2	3-1	2-4	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.21		
30-44	6347	113108	-07				0-306809	10/03/76	10	5	5.8	-	-	5.9	460	7-4	-6-2	3-1	2-4	3-2	3	-	-	-	-	-	-	-	-	-	-	-	1.88		
30-44	4875	113378	-07				0-306814	10/04/76	12	13	6.0	-	-	5.7	260	7-4	-6-3	1-2	1-4	2-2	3	-	-	-	-	-	-	-	-	-	-	-	0.37		
30-44	5344	113388	-07				0-306815	10/04/76	12	14	6.4	-	-	5.7	320	11-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	1.50		
30-44	5333	113382	-07				0-306816	10/04/76	12	14	6.4	-	-	5.9	420	9	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.63		
30-44	5106	113116	-07				0-306817	10/04/76	12	15	7.0	-	-	5.9	420	11-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	1.46		
30-44	3458	113103	-07				0-306818	10/04/76	12	15	6.4	-	-	5.9	350	7-4	-4-2	3-1	2-4	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.81		
30-44	3461	113103	-07				0-306819	10/04/76	12	14	6.4	-	-	5.9	420	7-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.92		
30-44	3389	113421	-07				0-306820	10/04/76	13	15	7.2	-	-	5.9	420	11-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.50		
30-44	3392	113424	-07				0-306821	10/04/76	13	15	7.6	-	-	5.7	380	9-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.90		
30-44	3503	113409	-07				0-306822	10/04/76	13	16	6.4	-	-	5.7	180	5-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.23		
30-44	3503	113409	-07				0-306823	10/04/76	13	16	6.4	-	-	5.7	420	5-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	1.04		
30-44	3508	113409	-07				0-306824	10/04/76	13	16	6.4	-	-	5.7	440	5-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.46		
30-44	3542	113419	-07				0-306825	10/04/76	14	13	7.6	-	-	5.7	480	7-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.10		
30-44	3553	113423	-07				0-306826	10/04/76	14	13	8.0	-	-	5.9	560	11-4	-6-3	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-	-	-	-	0.34		
30-44	3556	113420	-07				0-306828	10/04/76	14	13	7.8	-	-	5.7	580	5	-3-6	1-2	3-3	3-2	3	-	-	-	-	-	-	-	-						

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER			LAST SAMPLE NUMBER AND FIELD DATA										U CONCENTRATION																						
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE NUMBER	TIME SAMPLED	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLAMETER (cpm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	WATER SAMPLING METHOD	UNITS IN REPORT (BY DOE LAB)	U CONCENTRATION
30-44	8369-112	1617-2-07				0-30693	10/04/76	9	3.3-C	-	-	-	5.7	310	-	1-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1-59
30-44	8369-112	1617-2-07				0-30694	10/04/76	9	4.8-C	-	-	-	5.9	260	-	7-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1-56
30-44	8206-112	1711-2-07				0-30695	10/04/76	9	4.4-C	-	-	-	5.9	220	-	7-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.48
30-44	8244-112	1433-2-07				0-30696	10/04/76	10	7.3-C	-	-	-	5.7	330	-	7-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.76
30-44	8203-112	1360-2-07				0-30697	10/04/76	10	6.0-C	-	-	-	5.7	320	-	7-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.76
30-44	8342-112	1322-2-07				0-30698	10/04/76	10	3.5-C	-	-	-	5.7	280	-	7-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.48
30-44	8417-112	1253-2-07				0-30699	10/04/76	11	6.2-C	-	-	-	5.7	180	-	5-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.95
30-44	8932-112	1461-2-07				0-306950	10/04/76	11	2.3-C	-	-	-	5.7	290	-	5-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.86
30-45	7314-112	1312-2-07				0-306951	10/06/76	10	8.0-C	-	-	-	5.5	240	-	8-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.11
30-45	7417-112	1284-2-07				0-306952	10/06/76	10	8.0-C	-	-	-	5.5	260	-	6-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.60
30-45	7433-112	1243-2-07				0-306953	10/06/76	10	8.0-C	-	-	-	5.4	230	-	6-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.53
30-45	7289-112	1258-2-07				0-306954	10/06/76	12	8.0-C	-	-	-	5.4	230	-	6-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.53
30-45	7128-112	1263-2-07				0-306955	10/06/76	12	8.0-C	-	-	-	5.2	120	-	12-2	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.53
30-45	6931-112	1422-2-07				0-306956	10/06/76	12	7.0-C	-	-	-	5.5	180	-	6-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.11
30-45	5944-112	1492-2-07				0-306957	10/07/76	15	7.0-C	-	-	-	5.8	550	-	6-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	3.40
30-45	6112-112	1461-2-07				0-306958	10/07/76	15	7.0-C	-	-	-	5.5	550	-	6-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	3.40
30-45	6019-112	1461-2-06				0-306959	10/07/76	15	7.0-C	-	-	-	6.0	600	-	1-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	3.42
30-45	6181-112	1493-2-07				0-306960	10/07/76	16	7.0-C	-	-	-	6.0	600	-	4-6	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	3.90
30-45	6181-112	1493-2-07				0-306973	10/09/76	16	7.0-C	-	-	-	5.5	140	-	4-6	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.67
30-45	6290-112	1467-2-07				0-306974	10/09/76	16	7.0-C	-	-	-	5.5	140	-	4-6	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.67
30-45	5936-112	1483-2-07				0-306978	10/09/76	16	7.0-C	-	-	-	5.2	120	-	2-7	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	2.18
30-45	5936-112	1483-2-07				0-306979	10/09/76	16	7.0-C	-	-	-	5.2	120	-	2-7	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	2.18
30-45	5912-112	1492-2-06				0-306980	10/07/76	9	7.0-C	-	-	-	5.5	350	-	4-6	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.86
30-45	7006-112	1342-2-07				0-306981	10/07/76	9	7.0-C	-	-	-	5.2	80	-	3-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.42
30-45	7006-112	1342-2-07				0-306982	10/07/76	9	7.0-C	-	-	-	5.2	80	-	3-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.42
30-45	6918-112	1471-2-07				0-306983	10/07/76	10	7.0-C	-	-	-	5.2	80	-	3-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.95
30-45	7292-112	1397-2-06				0-306983	10/07/76	11	7.0-C	-	-	-	5.2	120	-	2-5	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.32
30-45	6719-112	1347-2-06				0-306984	10/07/76	11	7.0-C	-	-	-	5.2	120	-	2-5	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.32
30-45	6719-112	1347-2-06				0-306985	10/07/76	11	7.0-C	-	-	-	5.2	120	-	2-5	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.32
30-45	5644-112	1472-2-06				0-306985	10/07/76	11	7.0-C	-	-	-	5.2	120	-	2-5	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.32
30-45	5636-112	1467-2-07				0-306992	10/07/76	15	7.0-C	-	-	-	5.7	450	-	3-3	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.95
30-45	5636-112	1467-2-07				0-306992	10/07/76	15	7.0-C	-	-	-	5.7	450	-	3-3	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.95
30-45	5228-112	1283-2-07				0-306994	10/08/76	15	7.0-C	-	-	-	5.7	450	-	4-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.21
30-45	5228-112	1283-2-07				0-306994	10/08/76	15	7.0-C	-	-	-	5.7	450	-	4-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.21
30-45	5218-112	1411-2-06				0-306996	10/08/76	15	8.0-C	-	-	-	5.9	500	-	5-5	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.21
30-45	5556-112	1261-2-06				0-306997	10/08/76	15	8.0-C	-	-	-	5.9	500	-	5-5	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.21
30-45	5556-112	1261-2-06				0-306997	10/08/76	15	8.0-C	-	-	-	5.9	500	-	5-5	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.21
30-45	5018-112	1314-2-07				0-306999	10/09/76	14	7.0-C	-	-	-	5.7	400	-	4-6	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.39
30-45	5018-112	1314-2-07				0-306999	10/09/76	14	7.0-C	-	-	-	5.7	400	-	4-6	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.39
30-45	5736-112	1272-2-06				0-306900	10/09/76	15	7.0-C	-	-	-	5.7	600	-	1-6	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.81
30-45	5736-112	1272-2-06				0-306900	10/09/76	15	7.0-C	-	-	-	5.7	600	-	1-6	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	1.81
30-45	5228-112	1272-2-07				0-306901	10/09/76	15	7.0-C	-	-	-	5.2	300	-	2-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.25
30-45	5218-112	1270-2-07				0-306901	10/09/76	15	7.0-C	-	-	-	5.2	300	-	2-4	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.25
30-45	4769-112	1425-2-07				0-306902	10/08/76	11	7.0-C	-	-	-	5.2	50	-	2-7	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.25
30-45	4769-112	1425-2-07				0-306902	10/08/76	11	7.0-C	-	-	-	5.2	50	-	2-7	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.25
30-45	5181-112	1408-2-07				0-306903	10/08/76	12	7.0-C	-	-	-	5.2	80	-	2-7	3-6-3	3-2	3-3-3	-	-	-	-	3-3-3	-	3-3	-	-	-	-	-	-	-	-	0.65
30-45	5181-112	1408-2-07				0-306903	10/08/76	12	7.0-C	-	-	-	5.2	80</																					

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER						LASL SAMPLE NUMBER AND FIELD DATA																				U CONCENTRATION								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (µd/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 FLOW-ROTHM OR IAC (IN) UNITS IN ppb
							DATE	HOUR																										
30-45	3917-112.4514	-2-06-	0-306938	10/12/76	9-	1	2	C	5.7	375	-2-6-4-6-3-3-1-	-2-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.52	
30-45	3911-112.4189	-2-06-	0-306941	10/12/76	10-	1	2	C	5.5	120	-2-6-4-6-3-3-1-	-2-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.03
30-45	2803-112.0083	-2-07-	0-306954	10/08/76	10-	3	4	B	5.9	900	-4-6-6-3-3-2-1-	-2-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.37
30-45	2828-112.0042	-2-07-	0-306956	10/08/76	9-	3	5	B	5.9	750	-4-6-6-3-3-2-1-	-2-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.50
30-45	2681-112.0122	-2-07-	0-306957	10/08/76	10-	3	2	A	5.7	270	-2-6-3-4-3-3-1-	-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.28
30-45	3200-112.0583	-2-07-	0-306962	10/08/76	11-	4	5	C	5.7	270	-2-6-6-6-3-3-1-	-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.37
30-45	3244-112.0019	-2-06-	0-306964	10/08/76	11-	4	5	C	5.5	125	-2-6-6-6-3-3-1-	-2-2-2-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.38
30-45	3625-112.0208	-2-06-	0-306967	10/08/76	12-	4	5	C	5.7	210	-2-6-6-6-3-3-1-	-2-2-3-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.07
30-45	3539-112.0530	-2-06-	0-306969	10/08/76	13-	4	3	A	5.5	175	-2-6-6-6-3-3-1-	-2-1-3-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.22
30-45	3464-112.1672	-2-07-	0-306970	10/08/76	13-	4	5	A	5.9	340	-2-6-4-6-3-3-2-2-	-2-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.57
30-45	3528-112.1208	-2-07-	0-306971	10/08/76	14-	5	4	B	6.1	475	-2-6-6-6-3-3-2-2-	-2-4-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.53
30-45	3686-112.0939	-2-07-	0-306973	10/08/76	15-	4	5	C	6.1	220	-2-6-6-6-3-3-2-2-	-2-3-2-1-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.77
30-45	3589-112.1400	-2-06-	0-306990	10/09/76	13-	10	4	B	5.5	210	-2-6-6-6-3-3-1-	-2-1-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41
30-45	2900-112.3331	-2-06-	0-306994	10/09/76	14-	9	3	C	5.5	175	-2-6-6-6-3-3-1-	-2-3-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
30-45	2544-112.3208	-2-06-	0-306996	10/09/76	14-	9	1	A	5.2	47	-2-6-4-6-3-3-1-	-2-1-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10
30-45	3286-112.2942	-2-06-	0-307000	10/09/76	16-	9	2	A	5.7	310	-2-6-6-6-3-3-1-	-2-3-3-2-	-3-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.10

APPENDIX B

LISTINGS OF FIELD DATA
AND URANIUM CONCENTRATIONS IN SEDIMENT

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER					LAST SAMPLE NUMBER AND FIELD DATA																	U CONCENTRATION													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (uCi/dpm)	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	UNITS IN ppm
30-45	6044-114.2472-2-15-	0-305001-08/03/7A-11-	21-	-	-	-	-	-	-	-	-	-	-	-	-	10-5-1-5-6-4-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.70		
30-45	6128-114.2197-2-12-	0-305003-08/03/7A-12-	18-	2-	-	-	-	-	-	-	-	-	6.1-	120-	-	22-2-7-5-6-4-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	206.80		
30-45	6106-114.2160-2-12-	0-305004-08/03/7A-12-	15-	10-	2-	-	-	-	-	-	-	-	5.9-	60-	-	11-2-7-5-6-4-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.90		
30-45	6111-114.2097-2-12-	0-305005-08/03/7A-12-	15-	10-	2-	-	-	-	-	-	-	-	5.9-	50-	-	27-2-6-4-6-4-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.40		
30-45	5975-114.1694-2-12-	0-305006-08/03/7A-13-	12-	10-	2-	-	-	-	-	-	-	-	6.1-	50-	-	16-2-7-3-6-4-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.40		
30-45	5708-114.1758-2-12-	0-305007-08/03/7A-13-	12-	10-	2-	-	-	-	-	-	-	-	5.7-	40-	-	11-2-1-6-4-6-3-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.50		
30-45	5564-114.1923-2-12-	0-305008-08/03/7A-13-	14-	10-	2-	-	-	-	-	-	-	-	5.7-	30-	-	16-2-7-3-6-4-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.30		
30-45	6100-114.1844-2-15-	0-305009-08/03/7A-14-	18-	-	-	-	-	-	-	-	-	-	-	-	-	11-2-7-3-6-4-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.10		
30-45	6556-114.1847-2-12-	0-305010-08/03/7A-16-	18-10-2-	-	-	-	-	-	-	-	-	-	5.9-	80-	-	16-2-3-6-4-6-3-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.90		
30-45	6567-114.2028-2-12-	0-305011-08/03/7A-16-	18-10-1-	-	-	-	-	-	-	-	-	-	6.1-	120-	-	16-2-5-6-4-6-4-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.20		
30-45	6542-114.2010-2-12-	0-305012-08/03/7A-16-	17-10-2-	-	-	-	-	-	-	-	-	-	5.7-	20-	-	5-2-5-6-4-6-4-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.10		
30-45	7042-114.2460-2-12-	0-305013-08/03/7A-17-	18-10-1-	-	-	-	-	-	-	-	-	-	5.9-	70-	-	16-2-7-3-6-4-6-3-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62.50		
30-45	6833-114.2125-2-12-	0-305014-08/04/7A-9-	19-10-1-	-	-	-	-	-	-	-	-	-	5.5-	15-	-	22-2-1-1-6-4-6-3-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.30		
30-45	6200-114.2007-2-12-	0-305015-08/03/7A-10-	19-9-9-	-	-	-	-	-	-	-	-	-	5.5-	14-	-	16-2-7-6-4-6-3-1-1-2-2-3-2-1-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.90		
30-45	6350-114.1447-2-12-	0-305016-0																																	

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER						LASL SAMPLE NUMBER AND FIELD DATA																	U CONCENTRATION											
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE NUMBER	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (cpm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	VEGETATION TYPE	VEGETATION DENSITY	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL - SAME AS (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES	UNITS IN ppm
30-45	4919-112.9281-2-12	0-305491-09/14/76-11	12	A	2	0-305491-09/14/76-11	12	A	2	5.9	32	17-3-6-4-4-2-1-2-1-3-5-1-1	7.60																					
30-45	4928-112.8900-2-12	0-305492-09/14/76-12	13	A	2	0-305492-09/14/76-12	13	A	2	5.9	40	17-3-1-4-4-4-2-1-2-1-3-5-1-1	16.50																					
30-45	1742-112.9264-2-11	0-305493-09/13/76-11	18	A	2	0-305493-09/13/76-11	18	A	2	5.2	465	2-3-7-5-6-7-3-1-2-4-4-4-1-3	2.80																					
30-45	1900-112.9472-2-15	0-305494-09/13/76-12	18	A	2	0-305494-09/13/76-12	18	A	2	5.2	465	6-3-1-7-6-6-1-1-2-3-3-5-1-1	5.20																					
30-45	2025-112.8944-2-11	0-305495-09/13/76-11	18	A	2	0-305495-09/13/76-11	18	A	2	5.3	320	2-3-4-5-6-7-3-1-2-3-3-5-1-1	4.50																					
30-45	2167-112.8833-2-11	0-305496-09/13/76-11	20	A	2	0-305496-09/13/76-11	20	A	2	5.8	700	2-3-7-5-6-7-3-1-2-4-3-4-1-3	1.80																					
30-45	2247-112.8328-2-15	0-305497-09/13/76-11	20	A	2	0-305497-09/13/76-11	20	A	2	5.8	700	2-4-4-4-7-1-1-2-3-3-4-1-3	3.80																					
30-45	2242-112.8261-2-15	0-305498-09/13/76-11	20	A	2	0-305498-09/13/76-11	20	A	2	5.8	700	2-4-4-4-7-1-1-2-3-3-4-1-3	3.10																					
30-45	2378-112.8553-2-15	0-305499-09/13/76-11	20	A	2	0-305499-09/13/76-11	20	A	2	5.8	700	2-4-4-4-7-1-1-2-3-3-4-1-3	2.70																					
30-45	2408-112.9011-2-15	0-305500-09/13/76-11	21	A	2	0-305500-09/13/76-11	21	A	2	5.8	700	2-4-4-4-7-1-1-2-3-3-4-1-3	2.30																					
30-45	5917-114.3278-2-12	0-305504-08/17/76-18	11	A	2	0-305504-08/17/76-18	11	A	2	5.4	45	0-3-1-3-1-3-3-1-1-1-4-4-4-9	23.50																					
30-45	6000-114.3784-2-12	0-305505-08/18/76-7	A	10	5.8	65	6-3-1-2-1-4-3-1-1-1-4-4-4-9	5.30																										
30-45	6097-114.3653-2-12	0-305506-08/18/76-8	0	0	5.8	58	4-3-1-2-1-4-3-1-1-1-4-4-4-9	5.40																										
30-45	5875-114.3875-2-12	0-305508-08/18/76-10	0	0	5.6	64	7-3-1-2-1-4-3-1-1-1-4-4-4-9	4.50																										
30-45	5958-114.4254-2-12	0-305509-08/18/76-11	10	10	5.5	55	4-3-1-2-1-4-3-1-1-1-4-4-4-9	6.30																										
30-45	2125-113.5000-2-12	0-305510-08/31/76-8	18	7	5.5	40	4-3-1-3-6-7-3-1-2-3-3-2-1-3	5.10																										
30-45	1861-113.5181-2-12	0-305511-08/31/76-9	18	0	5.8	450	2-2-1-3-6-7-3-1-2-3-3-2-1-3	5.90																										
30-45	1611-113.5000-2-12	0-305512-08/31/76-9	17	0	5.7	50	6-2-1-4-6-7-3-1-2-3-3-3-1-3	8.00																										
30-45	1542-113.4958-2-12	0-305513-08/31/76-9	18	0	5.8	58	8-2-1-5-6-7-3-1-2-3-3-3-1-3	5.40																										
30-45	1236-113.4583-2-12	0-305514-08/31/76-10	17	0	5.7	45	4-2-1-4-6-7-3-1-2-3-3-3-1-3	6.50																										
30-45	1222-113.4611-2-12	0-305515-08/31/76-10	18	0	5.5	30	8-2-1-4-6-7-3-1-2-3-3-3-1-3	4.70																										
30-45	1111-113.4814-2-12	0-305516-08/31/76-10	17	10	5.7	40	6-2-1-4-6-7-3-1-2-3-3-3-1-3	5.80																										
30-45	0917-113.4167-2-12	0-305517-08/31/76-11	17	0	5.7	45	4-3-1-4-6-7-3-1-2-3-3-3-1-3	3.60																										
30-45	0889-113.4167-2-12	0-305518-08/31/76-11	17	0	5.7	30	6-2-1-4-6-7-3-1-2-3-3-3-1-3	3.80																										
30-45	0806-113.4222-2-12	0-305519-08/31/76-11	17	0	5.7	30	8-2-1-4-6-7-3-1-2-3-3-3-1-3	5.00																										
30-45	0847-113.4167-2-12	0-305520-08/31/76-11	17	10	5.7	120	6-2-1-4-6-7-3-1-2-3-3-3-1-3	5.60																										
30-45	0722-113.4181-2-12	0-305521-08/31/76-12	18	0	5.7	40	2-2-1-4-6-7-3-1-2-3-3-3-1-3	5.00																										
30-45	0750-113.4250-2-12	0-305522-08/31/76-12	18	0	5.7	40	2-2-1-4-6-7-3-1-2-3-3-3-1-3	3.90																										
30-45	0514-113.4130-2-12	0-305523-08/31/76-12	18	10	5.7	55	4-3-7-4-6-7-3-1-2-3-3-3-1-3	3.10																										
30-45	0486-113.4167-2-12	0-305524-08/31/76-12	18	10	5.7	55	2-2-1-4-6-7-3-1-2-3-3-3-1-3	3.80																										
30-45	0417-113.4122-2-12	0-305525-08/31/76-12	10	10	5.7	35	6-2-5-4-6-7-3-1-2-3-3-3-1-3	5.00																										
30-45	0306-113.3972-2-12	0-305526-08/31/76-13	10	0	5.9	75	2-2-4-4-6-7-3-1-2-3-3-3-1-3	3.00																										
30-45	0278-113.4042-2-12	0-305527-08/31/76-13	10	10	5.7	45	4-2-1-4-6-7-3-1-2-3-3-3-1-3	4.20																										
30-45	0111-113.3889-2-12	0-305528-08/31/76-13	20	10	5.9	40	4-1-6-4-6-7-3-1-2-3-3-3-1-3	4.40																										
30-45	0097-113.3630-2-12	0-305529-08/31/76-13	10	0	5.9	65	4-2-7-4-6-7-3-1-2-3-3-3-1-3	6.70																										
30-45	9917-113.3250-2-12	0-305530-09/01/76-9	16	0	5.8	40	14-2-1-4-6-7-3-1-2-3-3-3-1-3	3.60																										
30-45	0250-113.2597-2-12	0-305531-09/01/76-9	16	0	5.8	30	18-2-1-4-6-7-3-1-2-3-3-3-1-3	3.50																										
30-45	0278-113.2961-2-12	0-305532-09/01/76-9	16	0	5.8	50	18-2-1-5-6-7-3-1-2-4-3-3-1-3	6.50																										
30-45	0361-113.2944-2-12	0-305533-09/01/76-9	16	0	5.7	55	14-2-7-3-6-7-3-1-2-3-3-3-1-3	5.70																										
30-45	0639-113.2506-2-12	0-305534-09/01/76-10	17	0	5.2	41	18-2-1-3-6-7-3-1-2-4-3-3-1-3	3.80																										
30-45	0722-113.3600-2-12	0-305535-09/01/76-10	17	10	5.2	33	18-2-1-4-6-7-3-1-2-4-3-3-1-3	3.60																										
30-45	0875-113.3167-2-12	0-305536-09/01/76-10	17	0	5.7	22	16-2-1-4-6-7-3-1-2-4-3-3-1-3	3.10																										
30-45	0944-113.3111-2-12	0-305537-09/01/76-10	17	10	5.2	55	18-2-1-4-6-7-3-1-2-4-3-3-1-3	4.80																										
30-45	1194-113.2611-2-12	0-305538-09/01/76-11	17	10	5.7	44	16-2-1-4-6-7-3-1-2-4-3-3-1-3	4.50																										
30-45	1333-113.2847-2-12	0-305539-09/01/76-11	18	10	5.8	37	9-2-1-4-6-7-3-1-2-4-3-3-1-3	3.90																										
30-45	1125-113.4222-2-12	0-305540-09/01/76-11	18	0	5.8	60	14-2-1-0-7-1-2-4-3-3-1-3	2.70																										
30-45	1375-113.3944-2-12	0-305541-09/01/76-12	18	10	5.7	55	21-2-1-4-6-7-3-1-2-4-3-3-1-3	4.90																										
30-45	1292-113.3630-2-12	0-305542-09/01/76-12	18	0	5.2	37	9-2-6-3-6-7-3-1-2-4-3-3-1-3	5.00																										
30-45	1389-113.4083-2-12	0-305543-09/01/76-12	18	0	5.8	19	18-2-1-4-6-7-3-1-2-4-3-3-1-3	2.40																										
30-45	1583-113.3875-2-12	0-305544-09/01/76-13	18	0	5.2	30	14-2-4-4-6-7-3-1-2-1-3-3-1-3	3.50																										
30-45	1639-113.4040-2-12	0-305545-09/01/76-13	18	0	5.8	18	21-2-6-4-6-7-3-1-2-1-3-3-1-3	2.80																										

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER			LAST SAMPLE NUMBER AND FIELD DATA										U CONCENTRATION																		
STATE	LATITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LAST SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (µd ppm)	ROCK TYPE	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	RELIEF	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES IN UNITS	DOE
01	45	1778-113	3398-2-12	0	305544-09	01/76-14	18-9-5	-	-	-	5.5	33	18-2-4-4-6-3-1-2-1-3-1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,70
01	45	2417-113	3596-2-12	0	305547-09	01/76-15	19-9-5	-	-	-	5.5	65	18-2-4-4-6-3-1-2-4-3-1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,30
01	45	2403-113	3600-2-12	0	305548-09	01/76-15	19-9-5	-	-	-	5.5	65	18-2-4-4-6-3-1-2-4-3-1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,30
01	45	2083-113	3276-2-12	0	305549-09	01/76-16	19-10-0	-	-	-	5.2	44	18-2-4-4-6-3-1-2-4-3-1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,90
01	45	2609-113	3278-2-12	0	305550-09	01/76-16	19-10-0	-	-	-	5.2	44	18-2-4-4-6-3-1-2-4-3-1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,10
01	45	3406-113	3745-2-12	0	305551-09	01/76-11	17-10-5	-	-	-	5.2	43	18-2-4-4-6-3-1-2-4-3-1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,90
01	45	6248-113	3752-2-12	0	305552-09	01/76-12	16-10-5	-	-	-	5.2	200	18-2-4-4-6-3-1-2-4-3-1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,70
01	45	6853-113	4076-2-12	0	305553-08	02/76-13	19-20-5	-	-	-	5.2	15	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,20
01	45	6833-113	3064-2-12	0	305554-09	02/76-14	19-10-5	-	-	-	5.2	32	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,40
01	45	6794-113	3046-2-12	0	305555-08	02/76-15	18-9-5	-	-	-	5.2	32	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,20
01	45	7433-113	3158-2-12	0	305556-08	02/76-16	19-9-5	-	-	-	5.7	50	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,70
01	45	7086-113	3176-2-12	0	305557-08	02/76-12	18-9-5	-	-	-	5.2	30	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,90
01	45	6922-113	3180-2-12	0	305558-09	02/76-12	18-10-5	-	-	-	5.2	25	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,70
01	45	6772-113	3184-2-12	0	305559-08	02/76-13	17-9-5	-	-	-	5.2	25	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,70
01	45	6782-113	3184-2-12	0	305560-08	02/76-13	17-9-5	-	-	-	5.2	25	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,70
01	45	6772-113	3194-2-12	0	305561-08	02/76-13	17-9-5	-	-	-	5.2	25	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,70
01	45	6781-113	3187-2-12	0	305562-08	02/76-13	17-9-5	-	-	-	5.2	21	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,40
01	45	6764-113	3187-2-12	0	305563-09	02/76-13	17-9-5	-	-	-	5.2	21	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,40
01	45	6764-113	3187-2-12	0	305563-09	02/76-13	17-9-5	-	-	-	5.2	21	11-2-7-2-6-3-1-2-3-4-1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,40
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08	02/76-13	16-9-5	-	-	-	5.5	36	16-1-6-5-2-3-2-3-2-3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,10
01	45	6519-113	3193-2-12	0	305564-08																										

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER						LASL SAMPLE NUMBER AND FIELD DATA																				U CONCENTRATION								
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (40 ppm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL VEGETATION	VEGETATION DENSITY	RELIEF	WEATHER	WEATHERSHIP	CONTAMINANTS	WELL TYPE	WELL DIAMETER (INCHES)	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES	UNITS IN ppm
							DATE	MO																										
30-45	2047-113.2917-2-12	0-305653-09/01/76-16	19-10	5.5	29	18-7-1-3-6-3-1-1-2-4-3-7-1-3-																									3.90			
30-45	2000-113.3170-2-12	0-305654-09/01/76-16	19-10	5.5	55	18-7-1-5-6-3-1-1-2-4-6-7-1-3-																										19.10		
30-45	1889-113.3333-2-12	0-305655-09/01/76-16	19-10	5.5	39	14-2-7-6-3-6-3-1-1-2-1-3-4-2-3-																										8.60		
30-45	4931-113.1072-2-12	0-305656-09/03/76-11	17-2	5.5	60	14-2-7-6-6-3-1-1-2-4-3-7-1-3-																										7.20		
30-45	4831-113.0697-2-12	0-305657-09/03/76-11	17-2	5.5	42	9-7-1-5-6-3-1-1-2-1-3-3-1-3-																										7.90		
30-45	4806-113.0689-2-12	0-305658-09/03/76-12	18-2	5.5	90	14-7-1-4-6-3-1-1-2-1-3-6-1-3-																										9.30		
30-45	4728-113.0872-2-12	0-305659-09/03/76-12	18-2	5.7	50	18-7-6-6-6-3-1-1-2-7-4-3-7-1-3-																										6.00		
30-45	4589-113.1044-2-12	0-305660-09/03/76-12	17-20	5.9	130	18-7-4-6-6-3-1-1-2-4-3-7-1-3-																										6.30		
30-45	4569-113.1040-2-11	0-305661-09/03/76-12	17-44	5.8	220	14-7-4-6-6-3-1-1-2-4-3-1-3-																										5.10		
30-45	4504-113.1197-2-12	0-305662-09/03/76-13	17-2	5.7	50	9-7-1-4-6-6-3-1-1-2-2-3-4-1-3-																										6.50		
30-45	4478-113.1222-2-12	0-305663-09/03/76-13	18-2	5.7	38	4-7-1-4-6-6-3-1-1-2-1-3-3-1-3-																										9.10		
30-45	4369-113.1206-2-12	0-305664-09/03/76-13	18-10	5.7	55	18-7-1-4-6-6-3-1-1-2-3-3-1-3-																										4.50		
30-45	4286-113.1097-2-12	0-305665-09/03/76-13	18-2	5.5	50	14-7-1-4-6-6-3-1-1-2-3-3-4-1-3-																										4.10		
30-45	4216-113.1181-2-12	0-305666-09/03/76-14	18-2	5.7	45	27-7-1-4-6-6-3-1-1-2-3-3-1-3-																										3.00		
30-45	4194-113.1083-2-12	0-305667-09/03/76-14	19-10	5.7	47	18-7-1-4-6-6-3-1-1-2-3-3-1-3-																										5.80		
30-45	4133-113.1194-2-15	0-305668-09/03/76-14	19-			9-7-6-5-6-3-1-1-2-3-4-3-1-3-																										6.60		
30-45	4136-113.1042-2-12	0-305669-09/03/76-15	18-10	5.7	42	14-2-7-1-4-6-6-3-1-1-2-3-3-1-3-																										13.70		
30-45	4100-113.1100-2-12	0-305670-09/03/76-15	18-10	5.7	37	18-7-1-4-6-6-3-1-1-2-3-3-1-3-																										9.40		
30-45	4044-113.1028-2-12	0-305671-09/03/76-15	18-10	5.5	43	18-7-1-4-6-6-3-1-1-2-3-3-1-3-																										11.90		
30-45	3847-113.0972-2-12	0-305672-09/03/76-16	18-10	5.7	50	9-7-1-4-6-6-3-1-1-2-3-3-1-3-																										3.90		
30-45	3889-113.0744-2-12	0-305673-09/03/76-16	18-10	5.5	57	4-7-1-4-6-6-3-1-1-2-3-3-1-3-																										3.90		
30-45	3972-113.1464-2-12	0-305674-09/03/76-16	19-2	5.5	50	9-7-1-4-6-6-3-1-1-2-3-3-1-3-																										3.40		
30-45	3739-113.1194-2-12	0-305675-09/03/76-17	19-10	5.5	47	18-7-1-4-6-6-3-1-1-2-3-3-1-3-																										3.70		
30-45	3703-113.0858-2-12	0-305676-09/04/76-11	18-2	5.7	85	14-2-7-1-4-6-6-3-1-1-2-3-3-1-3-																										14.10		
30-45	3436-113.1014-2-12	0-305677-09/04/76-11	17-2	5.9	100	18-7-4-6-6-3-1-1-2-3-3-1-3-																										11.90		
30-45	3033-113.1150-2-12	0-305678-09/04/76-11	17-2	5.2	47	14-2-7-1-4-6-6-3-1-1-2-3-3-1-3-																										2.80		
30-45	3069-113.0958-2-12	0-305679-09/04/76-11	18-10	5.5	60	9-7-1-4-6-6-3-1-1-2-3-3-1-3-																										3.40		
30-45	2847-113.1208-2-12	0-305680-09/04/76-12	18-10	5.7	120	9-7-1-4-6-6-3-1-1-2-3-3-1-3-																										2.60		
30-45	2761-113.1542-2-12	0-305681-09/04/76-12	18-10	5.5	36	14-2-7-1-4-6-6-3-1-1-2-3-3-1-3-																										2.60		
30-45	2197-113.1806-2-12	0-305682-09/04/76-12	18-10	5.5	50	14-2-7-1-4-6-6-3-1-1-2-3-3-1-3-																										2.90		
30-45	3247-113.1858-2-12	0-305683-09/04/76-12	19-2	5.5	100	18-7-1-4-6-6-3-1-1-2-3-3-1-3-																										3.20		
30-45	3281-113.1858-2-12	0-305684-09/04/76-13	19-10	5.5	46	18-7-1-4-6-6-3-1-1-2-3-3-1-3-																										3.00		
30-45	3467-113.1633-2-12	0-305685-09/04/76-13	19-2	5.5	35	9-7-1-4-6-6-3-1-1-2-3-3-1-3-																										2.40		
30-45	3617-113.1449-2-12	0-305686-09/04/76-14	19-10	5.7	120	27-7-1-4-6-6-3-1-1-2-3-3-1-3-																										2.60		
30-45	3625-113.1911-2-12	0-305687-09/04/76-14	19-10	5.7	37	14-2-7-1-4-6-6-3-1-1-2-3-3-1-3-																										2.60		
30-45	2581-113.1106-2-12	0-305688-09/04/76-15	19-10	5.5	120	18-7-1-4-6-6-3-1-1-2-3-3-1-3-																										3.90		
30-45	2811-113.0306-2-12	0-305689-09/04/76-15	19-10	5.5	90	14-2-7-1-4-6-6-3-1-1-2-3-3-1-3-																										3.90		
30-45	2808-113.0350-2-12	0-305690-09/04/76-15	19-10	5.5	60	14-2-6-6-6-3-1-1-2-7-4-1-4-1-																										2.00		
30-45	4072-113.0708-2-12	0-305691-09/04/76-16	19-10	5.7	65	18-7-1-4-6-6-3-1-1-2-3-3-1-3-																										2.80		
30-45	4200-112.6011-2-99	0-305693-09/05/76-11	17-2			9-7-1-4-6-6-3-1-1-2-3-3-1-3-																										5.10		
30-45	4214-112.6047-2-12	0-305694-09/05/76-11	17-10	6.0	485	14-2-6-6-6-3-1-1-2-2-1-2-1-3-																										7.40		
30-45	4111-112.7131-2-12	0-305695-09/05/76-11	17-10	6.0	480	14-2-6-6-6-3-1-1-2-2-3-2-1-3-																										6.50		
30-45	4386-112.7406-2-12	0-305696-09/05/76-12	18-2	5.0	65	18-2-6-6-6-3-1-1-2-2-3-1-1-3-																										11.40		
30-45	4547-112.7007-2-12	0-305697-09/05/76-12	18-2	5.0	60	18-2-6-6-6-3-1-1-2-2-3-1-1-3-																										10.20		
30-45	4933-112.7161-2-12	0-305698-09/05/76-12	18-10	5.0	70	14-2-6-6-6-3-1-1-2-2-3-1-1-1-																										3.50		
30-45	4881-112.6844-2-15	0-305699-09/05/76-13	19-			18-2-1-4-6-6-3-1-1-2-2-3-4-1-1-																										6.90		
30-45	4944-112.6556-2-15	0-305700-09/05/76-13	19-			9-2-1-4-6-6-3-1-1-2-2-6-1-1-3-																										3.70		
30-45	1892-112.8554-2-11	0-305701-09/15/76-9																																

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOF SAMPLE NUMBER						LASL SAMPLE NUMBER AND FIELD DATA																						U CONCENTRATION							
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	PH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (400nm)	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	UNITS IN ppm
							DATE	HOUR																											
30-44	1797-112.7111-2-12	0-305705-09/15/74-12	10-12	A-C	-	6.3	500	9-4	9-6	7-1	1-2	2-4	3-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90	
30-44	0333-113.2111-2-12	0-305707-09/16/74-10	12	0	A-C	5.7	500	11-4	8-8	2-1	2-2	2-4	4-1	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
30-44	0500-113.1847-2-12	0-305708-09/16/74-11	14-11	A-C	-	5.4	70	5-4	6-8	2-1	2-2	2-4	3-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20
30-44	0722-113.2484-2-15	0-305709-09/16/74-11	18	-	-	-	7-4	3-7	-	-	2-4	3-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80
30-44	0925-113.2417-2-12	0-305710-09/16/74-11	18	A	A-C	5.2	50	5-4	2-4	2-1	1-2	2-3	4-1	3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.90
30-44	1224-113.2383-2-12	0-305711-09/16/74-12	18	A	A-C	5.2	42	5-4	2-4	2-1	1-2	1-3	5-1	3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.70
30-44	1111-113.2111-2-15	0-305712-09/16/74-13	18	-	-	-	7-4	3-8	-	-	2-4	3-4	1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.80
30-44	0644-113.1722-2-15	0-305713-09/17/74-9	9	13	-	-	11-1	A-3	3-1	-	-	2-3	2-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
30-44	0858-113.1660-2-15	0-305714-09/17/74-10	14	-	-	-	18-4	3-4	-	-	2-3	3-5	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.30
30-44	0972-113.1608-2-12	0-305715-09/17/74-10	18	0	A-C	5.4	110	7-4	6-8	2-1	2-2	2-4	4-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.40
30-44	0764-113.1958-2-12	0-305716-09/17/74-11	18	0	A-C	5.7	240	7-4	2-4	2-1	1-2	2-3	4-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
30-44	0484-113.1260-2-15	0-305717-09/17/74-11	18	-	-	-	11-4	4-4	-	-	2-3	3-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
30-44	0922-113.2292-2-15	0-305718-09/17/74-11	18	-	-	-	13-4	3-7	-	-	2-3	3-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
30-44	0764-113.2510-2-12	0-305719-09/17/74-12	18-11	A-C	5.0	280	11-4	2-6	2-1	2-2	2-3	4-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.60
30-44	0414-113.2630-2-12	0-305720-09/17/74-12	18-15	A-C	6.3	1750	7-4	3-7	2-1	1-2	2-4	3-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00
30-44	0631-113.3342-2-12	0-305721-09/17/74-12	18-11	A	5.4	110	9-1	A-3	1-4	2-1	1-2	2-3	4-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.80
30-44	0572-113.3906-2-12	0-305722-09/17/74-13	17-11	A-C	5.2	75	13-4	3-6	4-1	1-2	2-4	4-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.30
30-44	0592-113.4017-2-12	0-305723-09/17/74-13	18-10	A-C	5.7	110	7-4	3-6	2-1	1-2	2-3	3-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20
30-44	0719-113.4360-2-12	0-305724-09/17/74-14	18-11	A-C	5.4	50	8-4	3-1	2-2	1-1	2-2	2-5	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.20
30-44	0756-113.4494-2-12	0-305725-09/17/74-15	18-10	A-C	5.7	60	18-4	1-7	2-2	1-1	2-2	3-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.90
30-44	0894-113.4017-2-12	0-305726-09/19/74-10	3	A	A-C	5.2	58	15-4	2-6	2-1	1-2	2-3	4-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00
30-44	0856-112.8822-2-11	0-305727-09/18/74-13	18-11	A-C	5.0	600	4-1	1-3	2-4	2-1	1-2	2-4	4-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
30-44	0874-112.7528-2-12	0-305728-09/18/74-14	18	A	A-C	5.7	600	6-4	4-7	2-1	1-2	2-2	3-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.40
30-44	0883-112.7510-2-12	0-305729-09/18/74-14	18	0	A-C	5.7	420	8-4	4-4	2-2	2-2	2-3	2-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.50
30-44	0014-112.7858-2-12	0-305730-09/19/74-15	18-10	A-C	5.0	500	8-4	3-6	2-1	2-2	2-2	2-3	4-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.80
30-44	0797-112.8337-2-15	0-305731-09/20/74-13	17	-	-	-	4-1	2-7	3-1	-	-	2-3	3-4	1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
30-44	0742-112.8292-2-15	0-305732-09/20/74-14	17	-	-	-	6-1	1-4	6-6	-	-	2-3	3-4	1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
30-44	0474-112.7983-2-15	0-305733-09/20/74-14	18	-	-	-	4-4	4-6	-	-	2-3	3-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60
30-44	0339-112.7853-2-15	0-305734-09/20/74-14	17	-	-	-	4-4	3-6	-	-	2-3	3-1	1-2	3-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
30-44	0183-112.7710-2-15	0-305735-09/20/74-14	17	-	-	-	4-4	2-3	-	-	2-4	2-2	2-2	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
30-44	0787-112.8180-2-15	0-305736-09/20/74-15	17	-	-	-	8-4	7-4	-	-	2-4	3-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00
30-44	0514-112.3614-2-15	0-305737-09/30/74-13	22	-	-	-	8-4	4-4	-	-	2-4	2-3	1-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90
30-44	0539-112.2900-2-15	0-305738-09/30/74-14	22	-	-	-	4-4	4-6	-	-	2-4	2-3	1-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20
30-44	0983-113.0681-2-12	0-305739-09/21/74-13	10-11	A-C	6.4	1500	11-4	5-6	2-3	1-1	2-4	4-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80
30-44	0853-113.0761-2-12	0-305740-09/21/74-13	10-10	A-C	6.3	1300	9-4	5-6	2-3	1-1	2-4	4-2	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.30
30-44	0858-113.0767-2-12	0-305741-09/21/74-13	10-12	A-C	6.5	2500	8-4	5-8	2-3	1-1	2-4	4-2	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.70
30-44	0356-113.1075-2-12	0-305742-09/21/74-14	18	0	A-C	5.7	210	5-4	3-7	4-1	1-2	2-2	3-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50
30-44	0208-113.1014-2-12	0-305743-09/21/74-15	18-10	A-C	5.7	200	9-1	6-3	6-4	2-1	1-2	2-3	4-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.00
30-44	0081-113.0675-2-12	0-305744-09/21/74-16	21	0	A-C	5.7	210	11-4	3-6	4-1	1-2	2-3	4-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.80
30-44	0069-113.0704-2-12	0-305745-09/21/74-16	20	0	A-C	5.7	240	11-4	4-6	4-3	1-2	2-3	2-3	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.20
30-44	0236-113.0153-2-15	0-305746-09/21/74-16	20	-	-	-	5-3	7-3	4-1	-	-	2-3	3-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.70
30-44	0328-113.0128-2-15	0-305747-09/21/74-16	20	-	-	-	5-4	3-8	-	-	2-3	3-4	2-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.20
30-44	02																																		

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

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LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER										LAST SAMPLE NUMBER AND FIELD DATA										U CONCENTRATION													
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE NUMBER	TIME SAMPLED	AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (dpm)	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 UNITS IN ppm
30-44	4922-112	9217-2-15				0-305009-09/16/74-14	22							1944	5-6-6	-	2-3-3-4-6	-	3													3.00	
30-44	4934-112	9226-2-15				0-305010-09/16/74-14	22							1944	4-4-4	-	2-3-3-4-6	-	3													3.10	
30-44	4934-112	8694-2-15				0-305011-09/16/74-14	24							1944	4-4-4	-	2-3-3-4-6	-	3													3.30	
30-44	4934-112	8694-2-15				0-305012-09/16/74-15	24							1944	3-4-4	-	2-3-3-4-6	-	3													3.30	
30-44	4934-112	8694-2-15				0-305013-09/16/74-15	24							1944	4-4-4	-	2-3-3-4-6	-	3													4.00	
30-44	4934-112	8694-2-15				0-305014-09/16/74-15	24							1944	4-4-4	-	2-3-3-4-6	-	3													12.20	
30-44	4934-112	8694-2-15				0-305015-09/17/74-14	21							1944	4-4-4	-	2-4-4-6-6	-	3													2.70	
30-44	4934-112	8694-2-15				0-305016-09/17/74-14	24							1944	4-4-4	-	2-4-4-6-6	-	3													2.60	
30-44	4934-112	8694-2-15				0-305017-09/17/74-14	24							1944	4-4-4	-	2-4-4-6-6	-	3													2.60	
30-44	4934-112	8694-2-15				0-305018-09/17/74-14	22-1							1944	4-4-4	-	2-4-4-6-6	-	3													2.80	
30-44	4934-112	8694-2-15				0-305019-09/17/74-14	22-1							1944	4-4-4	-	2-4-4-6-6	-	3													2.90	
30-44	4934-112	8694-2-15				0-305020-09/17/74-14	22-1							1944	4-4-4	-	2-4-4-6-6	-	3													2.80	
30-44	4934-112	8694-2-15				0-305021-09/17/74-15	22-1							1944	4-4-4	-	2-4-4-6-6	-	3													3.20	
30-44	4934-112	8694-2-15				0-305022-09/30/74-14	22-1							1944	4-4-4	-	2-4-4-6-6	-	3													2.60	
30-44	4934-112	8694-2-15				0-305023-09/30/74-14	22-1							1944	4-4-4	-	2-4-4-6-6	-	3													2.60	
30-44	4934-112	8694-2-15				0-305024-10/05/74-14	22-1							1944	4-4-4	-	2-4-4-6-6	-	3													3.30	
30-44	4934-112	8694-2-15				0-305025-09/17/74-12	24							1944	4-4-4	-	2-4-4-6-6	-	3													3.70	
30-44	4934-112	8694-2-15				0-305026-09/17/74-12	24							1944	4-4-4	-	2-4-4-6-6	-	3													17.60	
30-44	4934-112	8694-2-15				0-305027-09/17/74-13	24-1							1944	4-4-4	-	2-4-4-6-6	-	3													3.20	
30-44	4934-112	8694-2-15				0-305028-09/17/74-13	24-1							1944	4-4-4	-	2-4-4-6-6	-	3													2.70	
30-44	4934-112	8694-2-15				0-305029-09/17/74-14	26							1944	4-4-4	-	2-4-4-6-6	-	3													4.70	
30-44	4934-112	8694-2-15				0-305030-09/17/74-14	21							1944	4-4-4	-	2-3-3-4-6	-	3													2.70	
30-44	4934-112	8694-2-15				0-305031-09/17/74-15	21-1							1944	4-4-4	-	2-4-4-6-6	-	3													1.90	
30-44	4934-112	8694-2-15				0-305032-09/22/74-15	14							1944	4-4-4	-	2-3-3-4-6	-	3													6.90	
30-44	4934-112	8694-2-15				0-305033-09/22/74-12	14							1944	4-4-4	-	2-3-3-4-6	-	3													3.70	
30-44	4934-112	8694-2-15				0-305034-09/22/74-12	14							1944	4-4-4	-	2-3-3-4-6	-	3													6.20	
30-44	4934-112	8694-2-15				0-305035-09/22/74-13	14							1944	4-4-4	-	2-3-3-4-6	-	3													9.40	
30-44	4934-112	8694-2-15				0-305036-09/22/74-13	14							1944	4-4-4	-	2-3-3-4-6	-	3													19.70	
30-44	4934-112	8694-2-15				0-305037-09/22/74-15	14-1							1944	4-4-4	-	2-3-3-4-6	-	3													3.90	
30-44	4934-112	8694-2-15				0-305038-09/22/74-15	14-1							1944	4-4-4	-	2-3-3-4-6	-	3													3.30	
30-44	4934-112	8694-2-15				0-305039-09/22/74-15	14-1							1944	4-4-4	-	2-3-3-4-6	-	3													2.90	
30-44	4934-112	8694-2-15				0-305040-09/27/74-14	14							1944	4-4-4	-	2-3-3-4-6	-	3													4.70	
30-44	4934-112	8694-2-15				0-305041-09/27/74-14	14							1944	4-4-4	-	2-3-3-4-6	-	3													3.40	
30-44	4934-112	8694-2-15				0-305042-09/27/74-14	14							1944	4-4-4	-	2-3-3-4-6	-	3													3.00	
30-44	4934-112	8694-2-15				0-305043-09/27/74-14	14							1944	4-4-4	-	2-3-3-4-6	-	3													4.00	
30-44	4934-112	8694-2-15				0-305044-09/27/74-15	14							1944	4-4-4	-	2-3-3-4-6	-	3													3.20	
30-44	4934-112	8694-2-15				0-305045-09/27/74-16	14							1944	4-4-4	-	2-3-3-4-6	-	3													3.60	
30-44	4934-112	8694-2-15				0-305046-09/01/74-12	24							1944	4-4-4	-	2-3-3-4-6	-	3													3.20	
30-44	4934-112	8694-2-15				0-305047-09/01/74-12	24							1944	4-4-4	-	2-3-3-4-6	-	3													3.30	
30-44	4934-112	8694-2-15				0-305048-09/02/74-10	24							1944	4-4-4	-	2-3-3-4-6	-	3													6.10	
30-44	4934-112	8694-2-15				0-305049-09/02/74-11	24							1944	4-4-4	-	2-3-3-4-6	-	3													17.90	
30-44	4934-112	8694-2-15				0-305050-09/02/74-13	27-1							1944	4-4-4	-	2-3-3-4-6	-	3													4.90	
30-44	4934-112	8694-2-15				0-305051-09/02/74-19	24							1944	4-4-4	-	2-3-3-4-6	-	3													6.48	
30-44	4934-112	8694-2-15				0-305052-09/03/74-14	20-1							1944	4-4-4	-	2-3-3-4-6	-	3													7.90	
30-44	4934-112	8694-2-15				0-305053-09/03/74-20	17							1944	4-4-4	-	2-3-3-4-6	-	3													10.50	
30-44	4934-112	8694-2-15				0-305054-09/03/74-20	17							1944	4-4-4	-	2-3-3-4-6	-	3													2.10	

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DCE SAMPLE NUMBER						LASL SAMPLE NUMBER AND FIELD DATA																	CONCENTRATION												
STATE	LATITUDE	LONGITUDE	DCE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE NUMBER	TIME SAMPLED	DATE	HOUR	AIR TEMPERATURE	WATER TEMPERATURE	DO (mg/l)	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (micro/cm)	SCINTILLOMETER (dpm)	ROCK TYPE	ROCK COLOR	SEDIMENT TYPE	SEDIMENT COLOR	WATER FLOW	WATER LEVEL	WATER COLOR	STREAM CHANNEL	VEGETATION TYPE	VEGETATION DENSITY	WELL TYPE	WEATHER	OWNERSHIP	CONTAMINANTS	WELL TYPE	WELL DEPTH (FEET)	WATER DEPTH (FEET)	SEDIMENT SAMPLES	UNITS IN ppm
30-44	0345-112.7094	-2-12-	0-306030	09/28/74-14	12	0.4	-	5.7	120	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.60																							
30-44	0342-112.7094	-2-12-	0-306031	09/28/74-14	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.90																							
30-44	0225-112.8420	-2-15-	0-306032	09/28/74-15	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.50																							
30-44	0044-112.8611	-2-11-	0-306033	09/28/74-15	12	0.4	-	5.5	115	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.60																							
30-44	0111-112.7090	-2-15-	0-306034	09/28/74-15	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.00																							
30-44	0110-112.7944	-2-15-	0-306035	09/28/74-15	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.80																							
30-44	0037-112.8042	-2-12-	0-306036	09/28/74-16	12	0.4	-	5.0	120	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.10																							
30-44	0850-112.8036	-2-15-	0-306037	09/28/74-16	14	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.70																							
30-44	0381-112.7042	-2-15-	0-306038	09/28/74-16	14	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	0.70																							
30-44	0814-112.7550	-2-11-	0-306039	09/28/74-17	14	0.4	-	5.2	84	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.80																							
30-44	0597-112.7894	-2-15-	0-306040	09/28/74-17	14	0.4	-	5.2	84	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	1.50																							
30-44	0283-112.7540	-2-11-	0-306041	09/28/74-17	14	0.4	-	5.2	37	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.70																							
30-44	0444-112.8004	-2-15-	0-306042	09/28/74-18	14	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.80																							
30-44	0531-112.8222	-2-15-	0-306043	09/28/74-18	14	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	4.60																							
30-44	0522-112.8297	-2-15-	0-306044	09/28/74-18	14	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	6.70																							
30-44	0581-112.8583	-2-12-	0-306045	09/28/74-18	14	0.4	-	5.7	240	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.00																							
30-44	0658-112.8504	-2-15-	0-306046	09/28/74-18	14	0.4	-	5.7	240	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.30																							
30-44	0481-112.8333	-2-12-	0-306047	09/28/74-19	14	0.2	-	5.0	740	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.70																							
30-44	0478-112.8254	-2-15-	0-306048	09/30/74-9	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.90																							
30-44	0447-112.8272	-2-15-	0-306049	09/30/74-9	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.70																							
30-44	0514-112.8090	-2-15-	0-306050	09/30/74-10	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.60																							
30-44	0510-112.8083	-2-15-	0-306051	09/30/74-10	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.40																							
30-44	0256-112.8573	-2-15-	0-306052	09/30/74-10	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.70																							
30-44	0358-112.8722	-2-15-	0-306053	09/30/74-10	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.30																							
30-44	0311-112.8690	-2-11-	0-306054	09/30/74-10	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	4.50																							
30-44	0492-112.8940	-2-12-	0-306055	09/30/74-11	12	0.4	-	5.7	47	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.70																							
30-44	0493-112.8947	-2-15-	0-306056	09/30/74-11	12	0.4	-	5.7	135	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.80																							
30-44	0458-112.9236	-2-12-	0-306057	09/30/74-11	12	0.4	-	5.7	35	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.90																							
30-44	0707-112.9631	-2-12-	0-306058	09/30/74-12	14	0.4	-	5.5	120	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	4.60																							
30-44	0617-112.9425	-2-15-	0-306059	09/30/74-12	14	0.4	-	5.5	120	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.80																							
30-44	0444-112.9064	-2-15-	0-306060	09/30/74-12	14	0.4	-	5.5	120	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.30																							
30-44	0528-112.9167	-2-12-	0-306061	09/30/74-13	14	0.4	-	5.2	37	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.00																							
30-44	0528-112.9122	-2-12-	0-306062	09/30/74-13	14	0.4	-	5.7	65	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.00																							
30-44	0375-112.9054	-2-12-	0-306063	09/30/74-13	14	0.4	-	5.7	70	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.10																							
30-44	0489-112.8183	-2-15-	0-306064	09/30/74-14	14	0.4	-	5.7	70	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.90																							
30-44	0475-112.8144	-2-15-	0-306065	09/30/74-14	14	0.4	-	5.7	70	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.20																							
30-44	0192-112.6414	-2-12-	0-306066	09/30/74-15	15	10.0	-	5.0	145	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.40																							
30-44	0153-112.6580	-2-11-	0-306067	09/30/74-15	15	0.4	-	5.5	75	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.10																							
30-44	0369-112.6511	-2-15-	0-306068	09/30/74-15	15	0.4	-	5.5	75	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.10																							
30-44	0375-112.6700	-2-15-	0-306069	09/30/74-16	15	0.4	-	5.7	80	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.70																							
30-44	0544-112.6784	-2-12-	0-306070	09/30/74-16	15	0.4	-	5.7	80	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.10																							
30-44	0750-112.6772	-2-12-	0-306071	09/30/74-16	15	0.4	-	5.5	90	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.70																							
30-44	0667-112.6610	-2-11-	0-306072	09/30/74-17	15	0.4	-	5.5	120	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	5.50																							
30-44	0556-112.6400	-2-15-	0-306073	09/30/74-17	15	0.4	-	5.5	120	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	1.90																							
30-44	0747-112.7922	-2-12-	0-306074	09/30/74-17	15	0.4	-	5.2	65	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.20																							
30-44	0831-112.7100	-2-90	0-306075	09/30/74-18	15	0.4	-	5.2	65	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.20																							
30-44	0106-112.7222	-2-11-	0-306076	09/30/74-18	15	0.4	-	5.2	22	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.20																							
30-44	0525-112.7167	-2-15-	0-306077	09/30/74-18	15	0.4	-	5.2	22	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.70																							
30-44	0253-112.7347	-2-15-	0-306078	09/30/74-19	14	0.4	-	5.2	65	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	2.20																							
30-44	0314-112.7010	-2-12-	0-306079	09/30/74-19	14	0.4	-	5.7	125	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	3.30																							
30-45	0322-112.5454	-2-11-	0-306080	10/01/74-8	14	0.4	-	5.5	75	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	14-1-6-4-6-1-1-2-3-3-3-1-1-3-	4.40																							

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

DOE SAMPLE NUMBER										LSSL SAMPLE NUMBER AND FIELD DATA										U CONCENTRATION														
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LSSL SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (WU 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 UNITS IN ppm
30-44	16.64	-112.44	2-15	0-306236-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.70		
30-44	15.97	-112.44	2-15	0-306237-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.80			
30-44	16.17	-112.43	2-15	0-306238-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.70			
30-44	16.24	-112.41	2-15	0-306239-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.10			
30-44	15.06	-112.31	2-15	0-306240-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.20			
30-44	15.53	-112.31	2-15	0-306241-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.90			
30-44	15.53	-112.31	2-15	0-306242-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.30			
30-44	15.53	-112.31	2-15	0-306243-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.00			
30-44	15.53	-112.31	2-15	0-306244-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.90			
30-44	15.53	-112.31	2-15	0-306245-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.50			
30-44	15.53	-112.31	2-15	0-306246-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.80			
30-44	15.53	-112.31	2-15	0-306247-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.10			
30-44	15.53	-112.31	2-15	0-306248-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.20			
30-44	15.53	-112.31	2-15	0-306249-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.30			
30-44	15.53	-112.31	2-15	0-306250-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.20			
30-44	15.53	-112.31	2-15	0-306251-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.60			
30-44	15.53	-112.31	2-15	0-306252-10/05/77-11	7-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.10			
30-44	15.53	-112.31	2-15	0-306253-10/0																														

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DOE SAMPLE NUMBER						LASL SAMPLE NUMBER AND FIELD DATA																							U CONCENTRATION						
STATE	LATITUDE	LONGITUDE	DOE LAB	SAMPLE TYPE	REPLICATE	LASL SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	SPECIAL MEASUREMENTS	pH	SPECIFIC CONDUCTANCE (umho/cm)	SCINTILLOMETER (dpm)	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	UNITS IN ppm
30-44	6378	-112.032	E-2-12			0-306699	-10/05/76	13	7	1.5			5.1	40		-2-7-2	-1-3-2	-1-2-1	-3-3-1	-1														2.90	
30-44	6244	-112.033	E-2-12			0-306700	-10/05/76	13	7	1.5			5.2	50		-2-7-2	-1-3-2	-1-2-1	-3-3-1	-1														4.40	
30-44	5819	-112.266	A-2-12			0-306701	-10/01/76	15	1A	12.0			6.1	450		7-4	-6-6-7	-2-3-1	-2-4-6	-3-2	-3													2.00	
30-44	5675	-112.306	E-2-12			0-306702	-10/01/76	15	1A	14.2			6.2	470		1-4	-6-6-6	-2-3-1	-2-4-6	-3-2	-3													3.30	
30-44	5642	-112.342	E-2-12			0-306703	-10/01/76	15	17	16.2			5.7	250		7-4	-3-6-3	-2-3-1	-2-4-6	-3-2	-3													4.40	
30-44	5700	-112.365	A-2-12			0-306704	-10/01/76	16	16	14.0			6.2	600		5-4	-2-7-2	-2-3-1	-2-4-6	-3-3	-3													2.60	
30-44	5814	-112.386	E-2-12			0-306705	-10/01/76	16	15	13.2			5.7	350		5-4	-6-6-6	-2-3-1	-2-4-6	-3-2	-3													3.10	
30-44	5861	-112.400	E-2-15			0-306706	-10/01/76	16	15							7-4	-4-6-6	-1	-2-3	-3-4	-2	-3												2.70	
30-44	5980	-112.456	E-2-12			0-306707	-10/01/76	17	15	11.4			5.9	600		7-4	-2-1	-2-7-1	-1-2-3	-3-2	-2	-3												3.20	
30-44	5950	-112.456	E-2-12			0-306708	-10/01/76	17	15	11.4			6.2	700		7-4	-3	-7-2	-1-2-3	-3-2	-2	-3												3.80	
30-44	6028	-112.458	E-2-12			0-306709	-10/01/76	17	15	12.0			6.2	500		7-2	-6-3	-6-3	-3-2	-1-2	-3	-3	-4	-2	-3									3.20	
30-44	6064	-112.456	E-2-11			0-306710	-10/01/76	17	15	9.0			6.1	600		11	-2	-6	-4	-2	-3	-1	-2	-3	-5	-2	-3								2.60
30-44	6178	-112.528	A-2-15			0-306711	-10/01/76	18	15							11	-4	-4	-6	-1	-2	-3	-3	-6	-2	-3									3.20
30-44	6167	-112.526	E-2-12			0-306712	-10/01/76	18	14	14.1			6.2	550		7-4	-2	-1	-2	-1	-2	-3	-1	-2	-2	-3									3.30
30-44	6111	-112.542	E-2-15			0-306713	-10/02/76	10	14							7-4	-4	-6	-1	-2	-3	-3	-6	-2	-3									2.90	
30-44	6978	-112.533	A-2-15			0-306714	-10/02/76	10	14							9-4	-4	-6	-1	-2	-3	-2	-4	-2	-3									3.50	
30-44	6878	-112.519	A-2-15			0-306715	-10/02/76	10	15							11	-4	-4	-6	-1	-2	-3	-4	-2	-3									3.50	
30-44	7150	-112.542	E-2-15			0-306716	-10/02/76	10	15							7-4	-4	-6	-1	-2	-3	-3	-6	-2	-3									3.00	
30-44	7217	-112.551	E-2-15			0-306717	-10/02/76	10	15							5-4	-3	-6	-1	-2	-3	-3	-6	-2	-3									2.70	
30-44	7267	-112.556	E-2-11			0-306718	-10/02/76	11	15	10.8	A-C		5.7	600		5-4	-5	-6	-2	-3	-2	-3	-1	-3	-2	-3									2.20
30-44	7347	-112.565	E-2-15			0-306719	-10/02/76	11	15							7-4	-4	-6	-1	-2	-3	-3	-6	-2	-3									2.40	
30-44	7647	-112.543	E-2-12			0-306720	-10/02/76	11	15	10.2			5.9	320		5-4	-5	-6	-2	-3	-2	-3	-3	-6	-2	-3									2.20
30-44	7564	-112.504	E-2-12			0-306721	-10/02/76	11	15	10.0			5.7	350		7	-2	-6	-4	-6	-2	-3	-2	-4	-4	-3	-2	-3							2.50
30-44	7614	-112.520	A-2-11			0-306722	-10/02/76	11	15	8.8			5.7	440		7	-2	-6	-3	-6	-2	-3	-1	-2	-4	-3	-4	-2	-3						2.80
30-44	7808	-112.535	E-2-15			0-306723	-10/02/76	11	15							11	-4	-5	-6	-1	-2	-3	-3	-6	-2	-3									2.70
30-44	7764	-112.536	E-2-15			0-306724	-10/02/76	11	15							7-4	-5	-6	-1	-2	-3	-3	-6	-2	-3									2.70	
30-44	7961	-112.520	E-2-12			0-306725	-10/02/76	11	15	8.8	A		5.9	350		5-4	-4	-6	-2	-3	-1	-2	-3	-3	-6	-2	-3								3.90
30-44	8081	-112.455	A-2-15			0-306726	-10/02/76	12	15							5-4	-4	-7	-1	-2	-3	-3	-2	-2	-3									3.60	
30-44	8319	-112.471	E-2-12			0-306727	-10/02/76	12	15	10.2			6.2	360		11	-4	-4	-6	-2	-3	-1	-2	-3	-3	-6	-2	-3							4.00
30-44	8322	-112.472	A-2-12			0-306728	-10/02/76	12	15	9.2			6.1	400		15	-4	-3	-7	-2	-1	-2	-3	-3	-6	-2	-3								2.80
30-44	8181	-112.546	E-2-15			0-306729	-10/02/76	12	15							7-4	-6	-6	-1	-2	-3	-3	-6	-2	-3									3.60	
30-44	8278	-112.550	A-2-15			0-306730	-10/02/76	12	15							9-4	-3	-6	-1	-2	-3	-3	-6	-2	-3									4.10	
30-44	8464	-112.551	A-2-15			0-306731	-10/02/76	12	15							11	-4	-5	-6	-1	-2	-3	-3	-6	-2	-3									2.60
30-44	8622	-112.553	A-2-12			0-306732	-10/02/76	12	15	10.0	A-C		5.7	280		5-4	-3	-6	-2	-3	-1	-2	-3	-3	-2	-3									3.40
30-44	8606	-112.552	E-2-15			0-306733	-10/02/76	12	15							9	-4	-4	-6	-1	-2	-3	-3	-6	-2	-3									2.80
30-44	8625	-112.558	E-2-12			0-306734	-10/02/76	13	15	10.8	A		5.9	310		11	-4	-3	-7	-2	-1	-2	-3	-2	-2	-2	-3								5.20
30-44	8653	-112.577	E-2-15			0-306735	-10/02/76	13	15							7-4	-4	-6	-1	-2	-4	-4	-3	-6	-2	-3									3.80
30-44	8692	-112.591	E-2-15			0-306736	-10/02/76	13	15							7-4	-4	-6	-1	-2	-3	-3	-6	-2	-3										2.40
30-44	8458	-112.565	E-2-15			0-306737	-10/02/76	13	17							11	-4	-4	-6	-1	-2	-4	-3	-3	-6	-2	-3								3.10
30-44	8364	-112.589	E-2-15			0-306738	-10/02/76	13	17							7-4	-4	-6	-1	-2	-3	-4	-3	-6	-2	-3									6.40
30-44	8172	-112.560	E-2-15			0-306739	-10/02/76	13	17							9	-4	-4	-6	-1	-2	-3	-3	-6	-2	-3									2.80
30-44	7967	-112.559	E-2-12			0-306740	-10/02/76	13	17	11.5			5.7	320		9	-4	-3	-6	-2	-1	-2	-3	-1	-3	-6	-2	-3							4.30
30-44	8000	-112.588	E-2-12			0-306741	-10/02/76	14	18	18.8	A		5.0	400		7	-4	-6	-2	-2	-2	-2	-2	-4	-6	-2	-3								4.50
30-44	7819	-112.550	E-2-15			0-306742	-10/02/76	14	18							7	-4	-4	-6	-1	-2	-3	-1	-3	-6	-2	-3								2.40
30-44	7528	-112.557	E-2-12			0-306743	-10/02/76	14	17	11.5			5.7	320		5	-4	-4	-6	-2	-1	-2	-3	-1	-3	-6	-2	-3							2.50
30-44	7406	-112.595	E-2-15			0-306744	-10/02/76	14	17							7	-1	-4	-6	-6	-1	-2	-4	-2	-4	-6	-2	-3							2.50
30-44	7403	-112.605	A-2-15			0-306745	-10/02/76	14	17							5	-4	-3	-6	-1	-2	-3	-2	-3	-6	-2	-3								1.90
30-44	7407	-112.611	E-2-15			0-306746	-10/02/76	14	17							7	-4	-4	-6	-1	-2	-3	-2	-3	-6	-2	-3								2.60
30-44	7347	-112.652	E-2-12			0-306747	-10/02/76	15	17	12.8			5.7	390		7	-4	-5	-6	-2	-2	-2	-2	-3	-3	-6	-2	-3							1.20
30-44	7275	-112.643	E-2-15			0-306748	-10/02/76	14	16							5	-4	-4	-6	-1	-2	-4	-3	-7	-3	-6	-2	-3							2.90
30-44	7322	-112.601	E-2-12			0-306749	-10/02/76	15	17	12.5			5.7	440		5	-4	-5	-6	-2	-2	-2	-4	-2	-2	-3	-6	-2	-3						2.30

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

STATE	LATITUDE	LONGITUDE	DOE SAMPLE NUMBER			LASL SAMPLE NUMBER	TIME SAMPLED		AIR TEMPERATURE	WATER TEMPERATURE	COMMENTS	LASL SAMPLE NUMBER AND FIELD DATA																U CONCENTRATION	
			DOE LAB	SAMPLE TYPE	REPLICATE		DATE	HOUR				pH	SPECIFIC CONDUCTANCE (µmho/cm)	SCINTILLOMETER (N/D)	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
30-44	0575	-112.3250	-2-12	0-306801	-10/03/76-18	12-11	5.7	260	11-1-1-3-6-1-1-2-4-3-3-2-3	2.70																			
30-44	0596	-112.3220	-2-12	0-306802	-10/03/76-18	12-12	5.8	260	11-1-1-3-6-1-1-2-4-3-3-2-3	2.50																			
30-44	0583	-112.2960	-2-12	0-306803	-10/03/76-18	12-	-	-	5-4-3-6-1-1-2-4-3-3-2-3	1.90																			
30-44	0647	-112.2810	-2-15	0-306804	-10/03/76-18	12-	-	-	7-4-3-6-1-1-2-4-3-3-2-3	2.30																			
30-44	0756	-112.2472	-2-11	0-306805	-10/03/76-18	10-10	5.7	280	5-4-3-6-1-1-2-4-3-3-2-3	2.40																			
30-44	0733	-112.1611	-2-12	0-306806	-10/03/76-18	3-	2.8	550	11-4-3-6-1-1-2-4-3-3-2-3	3.30																			
30-44	0814	-112.1633	-2-12	0-306807	-10/03/76-9	3-	2.2	380	7-4-3-6-1-1-2-4-3-3-2-3	4.00																			
30-44	0703	-112.1314	-2-12	0-306808	-10/03/76-10	4-	5.0	460	7-4-3-6-1-1-2-4-3-3-2-3	2.90																			
30-44	0347	-112.1508	-2-12	0-306809	-10/03/76-10	5-	5.7	290	7-4-3-6-1-1-2-4-3-3-2-3	4.30																			
30-44	0575	-112.3208	-2-15	0-306810	-10/04/76-10	6-	-	-	7-4-3-6-1-1-2-4-3-3-2-3	2.70																			
30-44	0594	-112.3292	-2-15	0-306811	-10/04/76-10	6-	-	-	5-4-3-6-1-1-2-4-3-3-2-3	3.20																			
30-44	0653	-112.3706	-2-15	0-306812	-10/04/76-12	11-	-	-	11-3-6-3-6-1-1-2-4-3-3-2-3	4.20																			
30-44	0514	-112.4058	-2-99	0-306813	-10/04/76-12	12-	-	-	11-4-3-6-1-1-2-4-3-3-2-3	3.50																			
30-44	0875	-112.3742	-12	0-306814	-10/04/76-12	13-	5.7	280	7-4-3-6-1-1-2-4-3-3-2-3	4.40																			
30-44	0344	-112.3828	-2-12	0-306815	-10/04/76-12	14-	5.8	320	11-4-3-6-1-1-2-4-3-3-2-3	3.20																			
30-44	0353	-112.3872	-2-12	0-306816	-10/04/76-12	14-	5.0	420	9-4-3-6-1-1-2-4-3-3-2-3	3.30																			
30-44	0106	-112.4136	-2-12	0-306817	-10/04/76-12	15-	7.0	350	11-4-3-6-1-1-2-4-3-3-2-3	3.60																			
30-44	0458	-112.4107	-2-12	0-306818	-10/04/76-12	15-	6.8	320	7-4-3-6-1-1-2-4-3-3-2-3	3.00																			
30-44	0461	-112.4094	-2-12	0-306819	-10/04/76-12	14-	6.2	480	7-4-3-6-1-1-2-4-3-3-2-3	3.60																			
30-44	0389	-112.4231	-2-12	0-306820	-10/04/76-13	18-	7.2	420	11-4-3-6-1-1-2-4-3-3-2-3	3.30																			
30-44	0392	-112.4244	-2-12	0-306821	-10/04/76-13	18-	7.6	390	9-4-3-6-1-1-2-4-3-3-2-3	3.30																			
30-44	0503	-112.4208	-2-12	0-306822	-10/04/76-13	16-	6.4	420	9-4-3-6-1-1-2-4-3-3-2-3	2.90																			
30-44	0078	-112.4708	-2-12	0-306823	-10/04/76-13	16-	6.0	440	9-4-3-6-1-1-2-4-3-3-2-3	3.10																			
30-44	0501	-112.4664	-2-15	0-306824	-10/04/76-13	16-	-	-	7-4-3-6-1-1-2-4-3-3-2-3	3.00																			
30-44	0089	-112.5458	-2-12	0-306825	-10/04/76-14	13-	7.6	480	7-4-3-6-1-1-2-4-3-3-2-3	4.30																			
30-44	0342	-112.4810	-2-12	0-306826	-10/04/76-14	13-	8.0	560	11-4-3-6-1-1-2-4-3-3-2-3	2.80																			
30-44	0353	-112.4852	-2-12	0-306827	-10/04/76-14	13-	8.2	580	9-4-3-6-1-1-2-4-3-3-2-3	4.20																			
30-44	0356	-112.4850	-2-12	0-306828	-10/04/76-14	13-	7.8	580	7-4-3-6-1-1-2-4-3-3-2-3	3.80																			
30-44	0492	-112.4650	-2-12	0-306829	-10/04/76-14	12-	8.0	600	7-4-3-6-1-1-2-4-3-3-2-3	4.00																			
30-44	0464	-112.5144	-2-12	0-306830	-10/04/76-14	12-	7.4	450	5-4-3-6-1-1-2-4-3-3-2-3	4.00																			
30-44	0722	-112.4778	-2-11	0-306831	-10/04/76-14	11-	5.7	500	5-4-3-6-1-1-2-4-3-3-2-3	3.80																			
30-44	0181	-112.4864	-2-15	0-306832	-10/04/76-15	12-	-	-	11-4-3-6-1-1-2-4-3-3-2-3	2.80																			
30-44	0300	-112.5004	-2-15	0-306833	-10/04/76-15	12-	-	-	7-4-3-6-1-1-2-4-3-3-2-3	3.10																			
30-44	0472	-112.4844	-2-15	0-306834	-10/04/76-16	12-	-	-	7-4-3-6-1-1-2-4-3-3-2-3	3.40																			
30-44	0519	-112.4472	-2-15	0-306835	-10/04/76-16	12-	-	-	7-4-3-6-1-1-2-4-3-3-2-3	2.70																			
30-44	0517	-112.4336	-2-15	0-306836	-10/04/76-15	13-	-	-	7-4-3-6-1-1-2-4-3-3-2-3	3.00																			
30-44	0494	-112.4217	-2-15	0-306837	-10/04/76-16	12-	-	-	9-4-3-6-1-1-2-4-3-3-2-3	2.90																			
30-44	0292	-112.3778	-2-11	0-306838	-10/04/76-17	10-	5.5	310	7-4-3-6-1-1-2-4-3-3-2-3	3.20																			
30-44	0214	-112.3432	-2-15	0-306839	-10/04/76-17	11-	-	-	5-4-3-6-1-1-2-4-3-3-2-3	2.70																			
30-44	0075	-112.3217	-2-11	0-306840	-10/04/76-18	10-	5.5	350	9-4-3-6-1-1-2-4-3-3-2-3	3.60																			
30-44	0675	-112.2057	-2-12	0-306841	-10/04/76-9	7-	3.0	290	7-4-3-6-1-1-2-4-3-3-2-3	9.00																			
30-44	0367	-112.1931	-2-12	0-306842	-10/04/76-9	9-	6.2	300	7-4-3-6-1-1-2-4-3-3-2-3	3.70																			
30-44	0369	-112.1917	-2-12	0-306843	-10/04/76-9	8-	2.8	310	1-4-3-6-1-1-2-4-3-3-2-3	4.10																			
30-44	0344	-112.1883	-2-12	0-306844	-10/04/76-9	8-	4.8	260	7-4-3-6-1-1-2-4-3-3-2-3	5.10																			
30-44	0206	-112.1711	-2-12	0-306845	-10/04/76-10	8-	4.8	220	9-4-3-6-1-1-2-4-3-3-2-3	4.10																			
30-44	0214	-112.1690	-2-12	0-306846	-10/04/76-10	7-	3.2	130	7-4-3-6-1-1-2-4-3-3-2-3	4.50																			
30-44	0203	-112.1350	-2-12	0-306847	-10/04/76-10	8-	6.0	320	9-4-3-6-1-1-2-4-3-3-2-3	3.40																			
30-44	0322	-112.1362	-2-12	0-306848	-10/04/76-10	8-	3.6	280	7-4-3-6-1-1-2-4-3-3-2-3	3.20																			
30-44	0417	-112.1272	-2-12	0-306849	-10/04/76-11	8-	6.2	180	5-4-3-6-1-1-2-4-3-3-2-3	3.10																			
30-44	0992	-112.1841	-2-12	0-306850	-10/04/76-12	7-	3.6	290	7-1-1-3-6-1-1-2-4-3-3-2-3	3.40																			
30-45	0314	-112.2302	-2-12	0-306851	-10/04/76-10	12-	8.0	240	8-4-3-6-1-1-2-4-3-3-2-3	4.40																			

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

LASL Uranium Hydrogeochemical and Stream Sediment Reconnaissance Data Listing

[illegible]

APPENDIX C

HISTOGRAMS OF URANIUM CONCENTRATIONS

ITEM C-1

WATER SAMPLES FROM SOUTHWESTERN MONTANA

ITEM C-II

SEDIMENT SAMPLES FROM SOUTHWESTERN MONTANA

APPENDIX D

SUMMARY OF STANDARD PROCEDURES USED BY THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) IN THE US DEPARTMENT OF ENERGY (DOE) NATIONAL URANIUM RESOURCE EVALUATION (NURE) HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE (HSSR)

I. FIELD PROCEDURES

Water Sampling

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

Sediment Sampling (Wet or Dry)

Enough fine-grained, organic-rich, water-transported sediment to yield a composite sample of 25 g after processing (as indicated below) is taken from beneath the water level (where water exists) at three closely adjacent spots at each location. This is done with a polyethylene scoop after the water sample (if any) is taken. The sediment is put into a new, clean, and originally sealed, rip-top polyethylene bag and 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 stainless steel sieves to -100 mesh. The -100 mesh fraction is put into a prewashed, 25-ml polyethylene vial, appropriately double-labeled (using labels from the data form), and sealed for shipment to the LASL.

Field Measurements

The air temperature, taken in the shade at the time of sampling, is recorded to the nearest whole degree Celsius. The water temperature is measured in the source water and recorded to the nearest one-tenth degree Celsius. All temperature measurements are made with quality, precalibrated thermometers. The pH of the source water is measured with a calibrated, portable pH-meter or multirange pH paper and recorded to the nearest one-tenth of a pH unit. The specific conductance ($\mu\text{mho/cm}$) of the source water is measured with a calibrated, temperature-compensated (25°C), portable meter after the attached sample cup has first been rinsed three times in the source water. The scintillometer readings, taken on a flat, dry spot within a few meters of the sample location, are measured with a portable scintillometer. Two readings are recorded: the first with a radiation shield in place (blocking out ground radiation) and the second with the shield removed. The readings (in counts/s) are converted by computer to give the equivalent uranium (eU) value set forth in the data listing.

Field Observations

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

Sample Location Verification

Each contractor is supplied field maps with the desired sample types and locations symbolically

premarked at the LASL. The maps are normally USGS topographic quadrangles (either 7.5 minute or 15 minute), but when those are not available, Forest Service, State Highway, or other reasonably detailed maps are provided. As each location is sampled, a unique sample location number, preprinted on transparent adhesive labels provided with the identically numbered field data forms, is pasted over the precisely marked site on the field map. The latitude and longitude of each location are computed by the sampling contractor. Every location is later checked (and corrected if necessary) at the LASL by overlaying computer-produced location plots on the field maps used. The latitudes and/or longitudes are corrected if the overlay locations are displaced by more than 300 m from the locations marked on the field maps. When a desired location cannot be sampled as specified, an alternate sample type or location as near as possible to the original one is picked, and the new sample type and/or location is marked on the field map and properly labeled as above.

II. ANALYTICAL PROCEDURES

Water Samples Analyzed for Uranium by Fluorometry

In a controlled laboratory environment, a NaF (98%)-LiF (2%) flux pellet is prepared and placed on a platinum dish. The 25-mL water vial is vigorously shaken and a 0.20-mL aliquot of water is withdrawn and dropped onto a flux pellet, then evaporated under a heat lamp. The sample flux is then heated until fused. After it cools, it is excited with ultraviolet radiation in the fluorometer, and the measured fluorescence is read, recorded, and put through a computer routine using standards and blanks run at the same time to obtain the uranium concentration. Water samples that have uranium concentrations in excess of 10 ppb (the upper limit of detection of the fluorometry system without recalibration) are reanalyzed using the delayed-neutron (DNC) technique described below.

Water Samples Analyzed for Uranium by Delayed-Neutron Counting

Only waters with >10 ppb uranium are assayed using DNC. Samples taken in the 41-mL rabbits are thoroughly cleaned (exterior) before analysis. Samples received in 25-mL vials (used exclusively in some of the early work) 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 rabbits are then loaded into a 25-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked, and the system is calibrated using four standards. The transfer clip is installed on the pneumatic feed line, and the count control is set (typically, a 60-s irradiation, 30-s delay, 55-s count is used, but this can be changed to accommodate abnormally high or low uranium concentrations). The samples are cycled through the system and the uranium concentration is automatically measured, computed in ppb, and entered into the data base.

Uranium Analysis of Sediment Samples

All sediment samples are analyzed for total uranium by DNC. A split of each sample (dried and sieved as described) is transferred to a clean 4-mL rabbit, weighed (less the tare), and recorded along with the appropriate location number. The readied rabbits are loaded into a 50-sample transfer clip. The reactor pneumatic transfer system and background radiation levels are checked, and the system is calibrated as above. The transfer clip is installed and the count control is set (typically, a 20-s irradiation, 10-s delay, 20-s count is used). The samples are cycled through the system and the uranium concentration is automatically measured, computed in ppm, and entered into the data base.

APPENDIX E

CODE TO DATA LISTINGS AND SAMPLE TYPES USED BY THE LOS ALAMOS SCIENTIFIC LABORATORY (LASL) IN THE NATIONAL URANIUM RESOURCE EVALUATION (NURE) HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE (HSSR)

ITEM E-1 EXPLANATION OF CODE

DOE SAMPLE NUMBER

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

Alaska	= 02	New Mexico	= 35
Colorado	= 08	Wyoming	= 56
Montana	= 30		

Latitude and Longitude. Sample location, in degrees and decimal degrees to four places. However (though generally much better), locational accuracy cannot be guaranteed to closer than about 300 m (1000 ft).

DOE Lab. A DOE one-digit identifier designating the DOE laboratory responsible for taking the sample and for the data shown in the listing and for providing the analysis giving the uranium and other elemental concentrations, if any. The LASL is designated by the numeral 2.

Sample Type. A two-digit identifier that 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 "Numerical Key and Specifications for Sample Types Taken by the LASL."

Replicate. A three-digit sequential number assigned to indicate a multiple sample of a single sample type from a single location. The largest number in use indicates the most recent sample taken, and there will always be smaller sequential numbers representing earlier samples back to 000, which is the initial sample from any given location.

Except in the case of special studies, there will be no replicate samples and this entry will therefore be 000.

LASL SAMPLE NUMBER AND FIELD DATA

LASL Sample Number. A unique six-digit number permanently assigned by the LASL to every location sampled in each state. For internal use, these numbers are assigned in blocks to the various areas individually treated and reported upon and therefore serve to locate the samples within the various states as follows.

<u>Location Numbers</u>	<u>State</u>
000 001 through 099 999	= New Mexico
100 001 through 199 999	= Colorado
200 001 through 299 999	= Wyoming
300 001 through 399 999	= Montana
400 001 and above	= Alaska

Time Sampled. The DATE that the sample was taken, in terms of the number of the MONTH, followed by the DAY and finally the YEAR, separated by slashes, and then the TIME it was taken on that date to the nearest whole HOUR on a military (24-h) clock.

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

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

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

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

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

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

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

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

- 1 = Sedimentary
- 2 = Metamorphic
- 3 = Igneous
- 4 = Unknown

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

- 1 = White/Buf
- 2 = Yellow
- 3 = Orange
- 4 = Pink/Red

- 5 = Green
- 6 = Brown
- 7 = Gray
- 8 = Black
- 9 = Other

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

- 1 = Boulders
- 2 = Cobbles
- 3 = Gravel
- 4 = Sand
- 5 = Mud
- 6 = Muck
- 7 = Other

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

- 1 = White/Buf
- 2 = Yellow
- 3 = Orange
- 4 = Pink/Red
- 5 = Green
- 6 = Brown
- 7 = Gray
- 8 = Black
- 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
- 2 = Slow
- 3 = Moderate
- 4 = Fast
- 5 = Torrent

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
- 2 = Low
- 3 = Normal
- 4 = High
- 5 = Flood

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

- 1 = Clear
- 2 = Murky
- 3 = Cloudy
- 4 = Muddy
- 5 = Algal
- 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 according to the key below.

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

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, according to the key below.

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

Relief. The single digit in this column provides a subjective evaluation of the topography within a few hundred meters of the sample location, according to the key below.

- 1 = Flat
- 2 = Low (<15 m)
- 3 = Gentle (15 to 60 m)
- 4 = Moderate (60 to 300 m)
- 5 = High (>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 by the key below.

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

Ownership. The single digit here gives a broad classification of administrative responsibility or general ownership of the land at the sample location, according to the key below.

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

Contaminants. The single digit here indicates known or suspected local factors likely to influence analytical results, according to the key below.

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

Well Type. The single digit in this column provides a general description of the type of water well from which the sample was taken (if, in fact, it was a well sample), according to the key below.

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

Well Diameter. The one or two digits (if any) in this column give the measured or estimated inside diameter, in inches, of the casing of the well from which the sample (if taken from a well) came.

Well Depth. The one, two, or three digits (if any) in this column give the total drilled depth, in feet

from the surface, of the well from which the sample (if taken from a well) came. Three 9s in this column indicate a well depth greater than 1000 ft.

Water Depth. The one, two, or three digits in this column give the depth, in feet, from the surface to the standing water in the well, if known (if the sample was taken from a 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 uranium concentration found in the water sample in parts per billion (ppb) or in the sediment sample in parts per million (ppm). Sample Types No. 1 through 10 and 21 through 30 are water samples, with their uranium concentrations given in ppb, while Sample Types No. 11 through 20 and 31 through 40 are sediment samples, with their uranium concentrations given in ppm.

ITEM E-II

ABBREVIATED NUMERICAL KEY AND SPECIFICATIONS FOR COMMON SAMPLE TYPES

This numerical key provides the necessary tie between the specific *type* or *form* of each sample taken in the LASL HSSR program and each individual suite of field and laboratory data to which the sample relates. It *defines* the various sample types listed in this report.

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

The *key numbers* are inserted in the appropriate columns of the specially formatted DOE sample-numbering system to identify positively the sample type for all LASL sample data submitted. An expanded version of this key, which includes sample types less commonly used by the LASL, will be provided whenever data from such samples are submitted.

Key No.	Source/Medium/Treatment
06	<i>Spring water</i> sample filtered through an 0.45- μ m membrane filter and acidified to a pH of ≤ 1 with reagent-grade nitric acid (HNO_3).
07	<i>Stream water</i> sample filtered through an 0.45- μ m membrane filter and acidified to a pH of ≤ 1 reagent-grade nitric acid (HNO_3).
08	<i>Well water</i> sample filtered through an 0.45- μ m membrane filter and acidified to a pH of ≤ 1 with reagent-grade nitric acid (HNO_3).
11	<i>Wet spring sediment</i> sample dried at $\leq 100^\circ\text{C}$ and sieved to -100 mesh through stainless steel sieves.
12	<i>Wet stream sediment</i> sample dried at $\leq 100^\circ\text{C}$ and sieved to -100 mesh through stainless steel sieves.
15	<i>Dry stream sediment</i> sample dried at $\leq 100^\circ\text{C}$ (if necessary) and sieved to -100 mesh through stainless steel sieves.
99	<i>Dry spring sediment</i> sample dried at $\leq 100^\circ\text{C}$ (if necessary) and sieved to -100 mesh through stainless steel sieves.

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15'

ELK CITY, IDAHO - MONTANA (NTMS)

DILLON, MONTANA - IDAHO (NTMS)

DUBOIS, IDAHO - MONTANA (NTMS)

114°00'

45'

30'

5

This is a detailed map of the Hawaiian Islands, specifically the area around Oahu and Maui. The map is overlaid with a grid of latitude and longitude lines. Numerous points are marked with numbers, likely representing specific locations or data points. A large number '6' is visible in the upper left corner, possibly indicating a page or section number. The map shows the coastline of the islands and the surrounding ocean.

LOCATION AND NAME OF KNOWN URANIUM OCCURENCES
(See Table III for complete description)

- 1 LUCKY JOE MINE
- 2 SHEEP CREEK
- 3 TRAPPER PEAK
- 4 RYE CREEK
- 5 LEMHI PASS DISTRICT
- 6 MOIDA CLAIMS
- 7 DEER CREEK DISTRICT
- 8 IOLA PROSPECT
- 9 MOONEY CLAIM
- 10 MELROSE DISTRICT
- 11 BRANZELL AND EBY PROSPECT
- 12 GOLDEN SUNLIGHT DISTRICT

SCALE 1:250 000

0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

PLATE I

SAMPLE LOCATION OVERLAY

SOUTHWEST MONTANA

00'

45'

30'

2

15'

113°00'

45'

3

PLATE II

ELK CITY, IDAHO - MONTANA (NTMS)

5

DILLON, MONTANA - IDAHO (NTMS)

DUBOIS, IDAHO - MONTANA (NTMS)

45° 00'

45'

30'

14° 00'

7

8

N

LEGEND

WELL WATER	SPRING WATER	SURFACE STREAM WATER	U (ppb)
○	◊	◻	≥ 0.50
○	◊	◻	> 0.50 - 1.40
○	◊	◻	> 1.40 - 2.80
○	◊	◻	> 2.80 - 4.20
○	◊	◻	> 4.20 - 7.00
○	◊	◻	> 7.00 - 9.80
○	◊	◻	> 9.80 - 12.60
○	◊	◻	> 12.00

45'

44° 30' +
113° 30'

SCALE

9

URANIUM CONCEN

SOL

PLATE II
CENTRATION OVERLAY (WATER-ppb)
SOUTHWEST MONTANA

12

114°00'

45'

30'

15'

113° 00'

45'

3

PLATE III

ELK CITY, IDAHO - MONTANA (NTMS)

5

DILLON, MONTANA - IDAHO (NTMS)

DUBOIS, IDAHO - MONTANA (NTMS)

3° 00'

45'

30'

114° 00'

LEGEND

DRY SPRING SEDIMENT	WET SPRING SEDIMENT	DRY STREAM SEDIMENT	WET STREAM SEDIMENT	U (ppm)
+	•	■	◻	≤ 1.70
+	◊	◼	◻	> 1.70 - 6.10
+	◊	⊗	◻	> 6.10 - 10.50
+	◊	⊗	◻	> 10.50 - 14.90
+	◊	⊗	◻	> 14.90 - 23.80
+	◊	⊗	◻	> 23.80 - 32.50
+	◊	⊗	◻	> 32.50 - 41.40
+	◊	⊗	◻	> 41.40

45'

44° 30' +
113° 30'

SCALE 1:250

9

URANIUM CONCENTRA

1:250 000

0 10 15 20 25 MILES
0 10 15 20 25 KILOMETERS

PLATE II

CONCENTRATION OVER PLATE II (SEDIMENT ppm)

11

m)

12

45'

30'

PLATE

30'

45'

ATE IV

112°00'

46°00'

Quaternary

Tertiary

Cretaceous

nd

5

Al

Mainly valley floor sand, and gravel

Terrace
Gravel, sand, and
remanents.

Glac
Moraine and
of mountain gl

Tertiary
rocks, u
Both Laramide
and post-Laram
made up of po
sand, silt and
bedded volcani
nite.

Colorado

Fine-grained
siltstone w

Kout
Conglomerate
mudstone.

Triassic

EXPLANATION

Alluvium

Mainly valley fill; consists of silt, sand, and gravel.

Terrace deposits

Gravel, sand, and silt of terrace remnants.

Glacial drift

Morainal and outwash plain deposits of mountain glaciers.

Tertiary sedimentary rocks, undifferentiated

Both Laramide synorogenic deposits and post-Laramide basin fill; mostly made up of poorly consolidated gravel, sand, silt and clay; includes interbedded volcanics and lenses of lignite.

Tertiary volcanic rocks

Flows and pyroclastic deposits made up mainly of basalt and rhyolite with lesser amounts of andesite; contain subordinate amounts of intercalated sedimentary beds and lignite.

Boulder batholith and broadly related stocks

Mainly quartz monzonite but includes many other intermediate and felsic rocks. Isolated, outlying stocks are tentatively shown as being related to the main batholith.

Colorado and Montana groups, undifferentiated

Fine-grained sandstone, shale and siltstone with some interbedded coal.

Cretaceous volcanic rocks

Flows and pyroclastic rocks; mainly andesites of the Elkhorn Volcanics.

Kootenai formation

Conglomerate, sandstone, shale and mudstone.

Idaho batholith and associated masses

Faintly gneissic quartz monzonite, granodiorite and similar rocks.

Triassic and Jurassic, undifferentiated

Sandstones, conglomerates, shales and impure limestones of the Dimwoody, Woodside, Thames, Rierdon, Swift

EXPLANATION

Tertiary volcanic rocks

Flows and pyroclastic deposits made up mainly of basalt and rhyolite with lesser amounts of andesite; contain subordinate amounts of intercalated sedimentary beds and lignite.

Boulder batholith and broadly related stocks

Mainly quartz monzonite but includes many other intermediate and felsic rocks. Isolated, outlying stocks are tentatively shown as being related to the main batholith.

Cretaceous volcanic rocks

Flows and pyroclastic rocks; mainly andesites of the Elkhorn Volcanics.

Idaho batholith and associated masses

Faintly gneissic quartz monzonite, granodiorite and similar rocks.

Tertiary dikes

Made up mostly of granophyre but includes quartz diorite and other rocks; are in part offshoots of the Boulder and Idaho batholiths.

Border zone and roof pendants of Idaho batholith

Granitic gneiss and sedimentary rocks, mainly of Belt age, impregnated with granitic material. These zones are incompletely mapped.

CENOZOIC

MESOZOIC

7

114°30'

ELK CITY, IDAHO - M

15'

An Affirmative Action / Equal Opportunity Employer

45°00'

114°00'

DILLON,

DUBOIS,

8

MONTANA - IDAHO (NTMS)

45'

IDAHO - MONTANA (NTMS)

9

Late
Precambrian

Devonian,
Ordovician and
Cambrian

Pennsylvanian
and Mississippian

Jurassic and
Triassic

R Ju

Triassic and Jurassic,
undifferentiated

Sandstones, conglomerates, shales and
impure limestones of the Linwood,
Woodside, Thayne, Kierdon, Drift
and Morrison formations.

Pp

Phosphoria formation

Alternating beds of limestone and
dolomite with interbedded kerogen
shales and phosphorite.

MPu

Mississippian and Pennsylvanian,
undifferentiated

Limestone, orthoquartzite, shales and
sandstones of the Madison and Big
Snowy groups, and the Amsden and Quad-
rant formations.

CDu

Cambrian and Devonian,
undifferentiated

Sandstones, shales and limestones of
the Flathead, Wolsey, Meagher, Park,
Pilgrim, Jefferson and Threeforks
formations. Also includes ortho-
quartzites of Ordovician Kinnikinnic
formation in southwest part of the area.

pEm

Missoula group

Argillite, impure quartzite and lime-
stone.

pCnb

North Boulder g

Coarse conglomerate at
arkose, conglomerate,
above.

pCpi

Piegan group

Heterogeneous group of rocks that
includes abundant limestones and
dolomites, with quartzites, argillites,
sandstones and shales.

pCr

Ravalli group

A diverse assemblage with numerous
subdivisions, mostly made up of
argillites, quartzites, and carbonates.

12

granulite and gneiss rocks.

granitic material. These zones are incompletely mapped.

er group
at base, with
te, and argillite

BELT SERIES

13

Mean magnetic declination
is $\sim 18.5^\circ$ east (1960)

Map adapted from Montana State Geologic map (Ross and others, 1955)
with some structural detail added from Scholten and others (1955),
Swanson (1970), and Heinrich (1960).

SCALE 1:250 000

4

25 MILES

METERS

15

GEOLOGI

16

PLATE IV

GEOLOGIC MAP OF SOUTHWESTERN MONTANA

17

ONTANA

pCp

Prichard formation
Generally argillaceous rocks, locally
sandy or quartzitic; locally meta-
morphosed to schist.

pEgs

Pre-Belt basement complex
Gneisses, schists and related rocks
of the pre-Cherry Creek, Cherry Creek,
and Dillon assemblages.

----- ? -----

Dashe
queri
compl

~~~~~

Teeth
both
rever

----- . . . . .

Fault
Inclu
fault
where

18

Where a letter symbol is fol-
(?) the stratigraphic assign-
somewhat uncertain.

Geologic contact

*Dashed where approximately located;
 queried where contact based on in-
 complete data.*

Thrust fault

*Teeth on the upper plate; includes
 both low angle thrusts and high angle
 reverse faults.*

Fault, character not designated

*Includes low angle and high angle
 faults; dashed where inferred, dotted
 where concealed.*

*When a letter symbol is followed by
 the stratigraphic assignment is
 somewhat uncertain.*