

Particle-Size, CaCO_3 , Chemical, Magnetic, and Age Data from Surficial Deposits in and around Canyonlands National Park, Utah

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Introduction

This report presents data and describes the methodology for magnetic, geochemical, and textural measurements of sediment and soil, as well as age determinations of sites located in and around Canyonlands National Park, on the Colorado Plateau, southeastern Utah (fig. 1).

The data presented in this report are results of ongoing studies of American drylands, where numerous sites have been investigated to assess how climate change and land use affect the landscape, largely through geomorphic processes. In particular, the influence of eolian and fluvial processes on ecosystem dynamics, ranging from nutrient inputs to landscape evolution, is a central focus of these studies (Neff and others, in press; Reheis and others, in press; Reynolds and others, 2001; Reynolds and others, in press).

Methods

Site Selection

Many sites in and around Canyonlands National Park, Utah, were selected to include different geomorphic settings that contain sand sheets/dunes, playas, and fluvial/alluvial deposits (table 1; fig. 1). Site selection was determined by strategies to examine a variety of plant communities, ecotones, occurrences of plant invasion, especially by cheat grass (*Bromus tectorum*), as well as different land-use histories and local bedrock.

Virginia Park

Virginia Park is located in Canyonlands National Park (figs. 1 and 2). It is a sheltered basin of vegetated, stabilized sand dunes surrounded on three sides by walls of the Cedar Mesa Sandstone and bounded on the southwest by a canyon. This site was sampled from the fall of 1998 through the spring of 2000. The deposits sampled at this site consist of multiple sequences of locally derived sand separated by poorly to moderately developed soil that formed in the sand layers. The shallowest samples (0–10 cm) represent the most recent episode of significant eolian modification of the landscape, including dune formation, which likely ceased about 2 ka. Difficult access and lack of water have precluded livestock grazing at this site (Kleiner and Harper, 1972). It is the only such ungrazed site in this study.

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Squaw Flat

The Squaw Flat site is located in Canyonlands National Park (figs. 1 and 3). The transect sampling and the soil pit sampling at this site occurred during the spring of 2000 and the fall of 2001, respectively. The upper sampling sites in the transect are in a low-angle ($1\text{--}3^\circ$) sand-sheet that slopes away from the Cedar Mesa Sandstone. The lower sampling sites are from mixed alluvial-eolian deposits in a poorly drained area near the middle of a meadow. This site was grazed until 1974 (M.E. Miller, U.S. Geological Survey, oral commun., 2004).

Needles

The Needles area is located in Canyonlands National Park (figs. 1, 4a, and 4b). The sites in this area are in playa deposits interbedded with eolian sand sheets and were sampled in the fall of 1998. These sites were auger sampled to about 4 meters in depth. The bedrock in this area is the Cedar Mesa Sandstone. This site was grazed until 1974 (M.E. Miller, U.S. Geological Survey, oral commun., 2004).

Mustard Patch

The Mustard Patch site (figs. 1 and 5) is near the eastern boundary of Canyonlands National Park and consists of eolian sand on a surface sloping away from Cedar Mesa Sandstone. This site was sampled during the spring of 2000. The upper part of this transect occupies a surface characterized by small coppice dunes representing recent eolian activity. The surface over the middle part of the transect generally is featureless, thereby representing a sand-sheet environment. The lowest sampling sites are in a mixed eolian sand-alluvial setting at the margin of a poorly drained valley oriented nearly 90° to the trend of the sampling transect. Grazing by domestic livestock ceased at this site in 1974 (M.E. Miller, U.S. Geological Survey, oral commun., 2004).

Gray's Pasture

Gray's Pasture (figs. 1 and 6) is located in the Island in the Sky area of Canyonlands National Park. Samples were collected in the spring of 2003 along a shallow-gradient slope away from the Navajo Sandstone. The sampled deposits consist mainly of eolian sand in small dune-forms in the upper half of the transect and in a mostly featureless surface in the lower half. The site previously was grazed until 1974 (M.E. Miller, U.S. Geological Survey, oral commun., 2004).

The Grabens

The Grabens sites (figs. 1 and 7) are located in Canyonlands National Park and consist of alluvium, colluvium, and eolian sediment deposited within closed, fault-related depressions formed in the Cedar Mesa Sandstone. The auger hole samples were taken during the fall of 1998. The arroyo exposure was sampled during the fall of 1999, and the optically stimulated luminescence samples were collected during the fall of 2002. Grazing practices for the Grabens area are not directly known; however, nearby Chesler Park was previously grazed until 1964, and the Grabens area grazing practices likely followed those at Chesler Park (M.E. Miller, U.S. Geological Survey, oral commun., 2004).

Dugout Ranch

The Dugout Ranch site (figs. 1 and 8) is located approximately 7 km east of the Canyonlands National Park boundary. This site consists mainly of eolian sand deposited on a nearly flat surface. The bedrock in this area is the Chinle Formation, the Wingate Sandstone, and the Kayenta Formation. This site initially was sampled during the fall of 2001 and was resampled in the spring 2004 to assess the influence of documented wind erosion between sampling times. This site and the surrounding areas have been grazed by domestic livestock since the arrival of Anglo-American settlers in the 1880s (Loope, 1977) and is currently grazed, mostly in the spring.

Corral Pocket

The Corral Pocket site (figs. 1 and 9) is located approximately 4 km east of the Canyonlands National Park boundary and consists of a sand-sheet and alluvial fan complex. The local bedrock consists of small exposures of Cedar Mesa Sandstone and overlying cliffs of Organ Rock Shale. The Organ Rock Shale contributes nearly all of the locally derived sediment to the sampled slope. This transect was sampled during the fall of 2000. The site is on Bureau of Land Management land and is currently grazed (M.E. Miller, U.S. Geological Survey, oral commun., 2004).

Meteorological Stations

The majority of sites presented in this report are in close proximity to climate monitoring equipment. Virginia Park, Corral Pocket, and Dugout Ranch sampling sites have Climate Impact Meteorological Stations (CLIM-MET) on site that are operated and maintained by the Central Region Earth Surface Processes team of the U.S. Geological Survey (USGS) (<http://climchange.cr.usgs.gov/info/sw/clim-met/>). Another USGS CLIM-MET station is located in the Needles district of Canyonlands National Park near the staff residence area, approximately 1–2 km from the Needles sampling sites (<http://climchange.cr.usgs.gov/info/sw/clim-met/needles.html>). The closest CLIM-MET station to the Squaw Flat and Mustard Patch sampling sites is located in Needles; however, the Mustard Patch sampling site also is in close proximity (~6 km) to the Corral Pocket CLIM-MET station (<http://climchange.cr.usgs.gov/info/sw/clim-met/corral.html>). The Virginia Park CLIM-MET station (<http://climchange.cr.usgs.gov/info/sw/clim-met/virgpark.html>) is closest to the Grabens sampling sites. The nearest weather monitoring station to the Gray's Pasture sampling site is located in the Island in the Sky area of Canyonlands National Park and is operated and maintained by the National Park Service (<http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?utcank>).

Sampling

Three sampling strategies were employed throughout the study area: (1) isolated deep auger holes, (2) transects that consist of several shallow (50 cm), small soil pits anchored by deep auger holes, and (3) soil pits (table 1). In addition, when possible, arroyo exposures were utilized for stratigraphic relations and sampling.

The isolated deep auger holes were sampled approximately every 10 to 20 cm and ranged from 2.5 to 4.0 meters deep. The shallow, small soil pits and deep auger hole transects are the most common sampling arrangement. The shallow, small soil pits and the top of the deep auger holes were sampled fairly consistently at 0–10 cm, 10–30 cm, and 30–50 cm. The deep auger holes that anchor the transects are as much as 2.29 meters deep and below 50 cm were sampled approximately every 10 cm. Five larger soil pits (VP-1, VP-2, JN-1, JN-2, JN-3) were excavated at selected sites within the study area. The soil pits are all approximately 1 meter deep and were channel sampled based on soil horizon designations. Arroyo exposures also were sampled based on soil horizon designations.

The arroyo and graben exposures and the VP-soil pits were described (table 2) following Birke-land (1999). In some cases, the soil auger sequences were described similarly, but with less precision due to the lack of visible exposure and to mixing when the auger was reinserted into the hole. Approximate soil horizon boundaries were identified during the augering using changes in soil color, carbonate morphology, effervescence in HCl, and sediment texture.

Laboratory Analysis

Samples were analyzed at the USGS Earth Surface Processes soils and magnetism laboratories (Denver, Colo., United States of America) for hygroscopic moisture factor, calcium carbonate percent, particle size, and magnetic properties (table 3). The soil analyses followed the protocols outlined in Singer and Janitzky, (1986). Geochemical analysis was performed by the USGS Geologic Division geochemistry lab (Denver, Colo., United States of

America). All samples were analyzed at <2-mm size fraction and in some cases magnetic properties were measured on the <63- μ m size fraction (silt + clay).

Age determinations were made by optically stimulated luminescence (OSL) and Carbon-14 (¹⁴C) methods. Optically stimulated luminescence ages were determined at the Aberystwyth Luminescence Research Laboratory (Wales, United Kingdom). Radiocarbon samples were prepped at the ¹⁴C laboratory of the U.S. Geological Survey (Reston, Va.), and ages were determined by accelerator mass spectrometry (AMS) at the NSF-University of Arizona AMS laboratory (Tucson, Ariz.). Age data presented in this report, as well as other age data from the area, have been placed in stratigraphic and geomorphic context and can be found in Reheis and others, (in press).

Hygroscopic Moisture Factor

The hygroscopic moisture factor (table 3) is a measure of the moisture content of a sample at or near field conditions and is calculated by:

$H = OD/AD$, where

H = Hygroscopic Moisture Factor

OD = Oven-dry sample weight (105°C; 16 hrs)

AD = Air-dry sample weight

Calcium Carbonate Percent

Calcium carbonate percent (table 3) was measured using a Chittick apparatus (Dreimanis, 1962) as described by Machette (1986) whereby 6*N* HCl is applied to the sample and the gas evolved from the reaction displaces fluid within the Chittick apparatus. The volume of liquid displaced is used to calculate the percent of calcium carbonate in the sample.

$\text{CaCO}_3 \text{ \%} = (V_{\text{CO}_2} * C)/W_s$, where

$\text{CaCO}_3 \text{ \%}$ = Calcium carbonate percent

V_{CO_2} = The volume of liquid displaced during reaction in presence of HCl

C = Constant; $(P_B/T_K)*0.16$, where

P_B = Barometric Pressure in Hg mm

T_K = Temperature in degrees Kelvin

W_s = Oven-dry sample weight (105°C; 16 hrs)

Particle-Size Analysis

Particle-size analysis was performed on the <2-mm size fraction using a Malvern laser analyzer (tables 3 and 4). Prior to analysis, all samples were prepared by digesting organic matter and CaCO₃ using 30% H₂O₂ and 15% HCl, respectively. Prior to analysis, sodium hexametaphosphate was added to each sample to deflocculate clays.

Geochemical Analysis

Samples were analyzed for chemical properties by inductively coupled plasma-atomic emission spectrometry (ICP-AES) and inductively coupled plasma-mass spectrometry (ICP-MS) techniques (tables 3 and 5) (Lichte and others, 1987). All samples were analyzed on the <2-mm size fraction and were finely ground using a shatterbox.

Magnetic Properties

Magnetic properties were determined on a majority of samples, both <2-mm and, in some cases, <63- μ m size fractions (tables 3 and 6). Magnetic properties determined included low frequency and high frequency magnetic susceptibility (MS_{lf} , MS_{hf}), anhysteretic remanent magnetization (ARM), and isothermal remanent magnetization (IRM).

Magnetic Susceptibility

Magnetic susceptibility (MS) was measured by using a susceptometer with a sensitivity better than about $4 \times 10^{-7} \text{ m}^3/\text{kg}$. Samples were measured in a 0.1 mT induction at a low frequency of 600 Hz (MS_{lf}) and high frequency of 6000 Hz (MS_{hf}). For each sample, the MS value was determined as the mean of four measurements. Frequency dependent susceptibility was calculated as:

$$FDMS = (MS_{lf} - MS_{hf})/MS_{lf}$$

Laboratory Induced Magnetization

Measurements of anhysteretic remanent magnetization (ARM) and isothermal remanent magnetization (IRM) experiments were made by using a high-speed spinner magnetometer. Anhysteretic remanent magnetization was imparted in a decreas-

ing alternating field from a peak induction of 100 mT and a DC bias of 0.1 mT. IRM magnetizations were generated at room temperature by using an impulse magnetizer. First, IRM was imparted in a 1.2T induction ($\text{IRM}_{1.2\text{T}}$). The samples then were magnetized in the opposite direction by using an induction of 0.3T ($\text{IRM}_{-0.3\text{T}}$). Hard isothermal remanent magnetization (HIRM) and the S-parameter were calculated as follows (King and Channel, 1991):

$$\text{HIRM} = (\text{IRM}_{1.2\text{T}} + \text{IRM}_{-0.3\text{T}})/2;$$

$$S = \text{IRM}_{-0.3\text{T}}/\text{IRM}_{1.2\text{T}}$$

Age Determinations

C-14

Charcoal within the alluvial deposits at the Virginia Park site was sampled and placed into plastic bags using metal trowels. The charcoal received a standard acid-alkali-acid pretreatment to remove post-depositional contamination. One milligram of carbon was collected from the charcoal by converting it to graphite over an iron catalyst. The graphite was pressed into a target and ^{14}C dated using accelerator mass spectrometry. The raw ^{14}C ages later were converted to calibrated years B.P. (cal yr B.P.) by using the CALIB program of Stuiver and others (2003) (table 7). Calibration of raw ^{14}C ages corrects for known time intervals when atmospheric carbon concentrations deviated from modern values causing the appearance of an age that was too old or too young.

Optically Stimulated Luminescence

For OSL dating, samples were taken from outcrops and pits using PVC pipe hammered horizontally into freshly cleaned faces. Laboratory OSL measurements were performed using an automated Risø TL/OSL reader, equipped with blue LEDs (470 nm) providing about 17 mW cm^{-2} power density and a beta source for irradiations. Three 3mm Hoya U-340 filters were used to detect the OSL signal. To determine the equivalent dose (D_e) of each sample, a minimum of 24 aliquots were examined for a range of preheat temperatures between 160–300°C

using the single-aliquot regenerative-dose (SAR) measurement procedure of Murray and Wintle (2000), which corrects for changes in the luminescence sensitivity. All OSL measurements were made at 125°C. Each aliquot yields an independent estimate of D_e ; the mean D_e of between 13–23 aliquots was used to determine each 90–125- μm coarse-grained OSL age, and the 4–11- μm fine-grained OSL ages were calculated using the mean D_e of between 19–22 aliquots (table 7). The uncertainty on D_e was calculated as the standard error of the mean for all samples. For further discussion of OSL methods, see Reheis and others, (in press).

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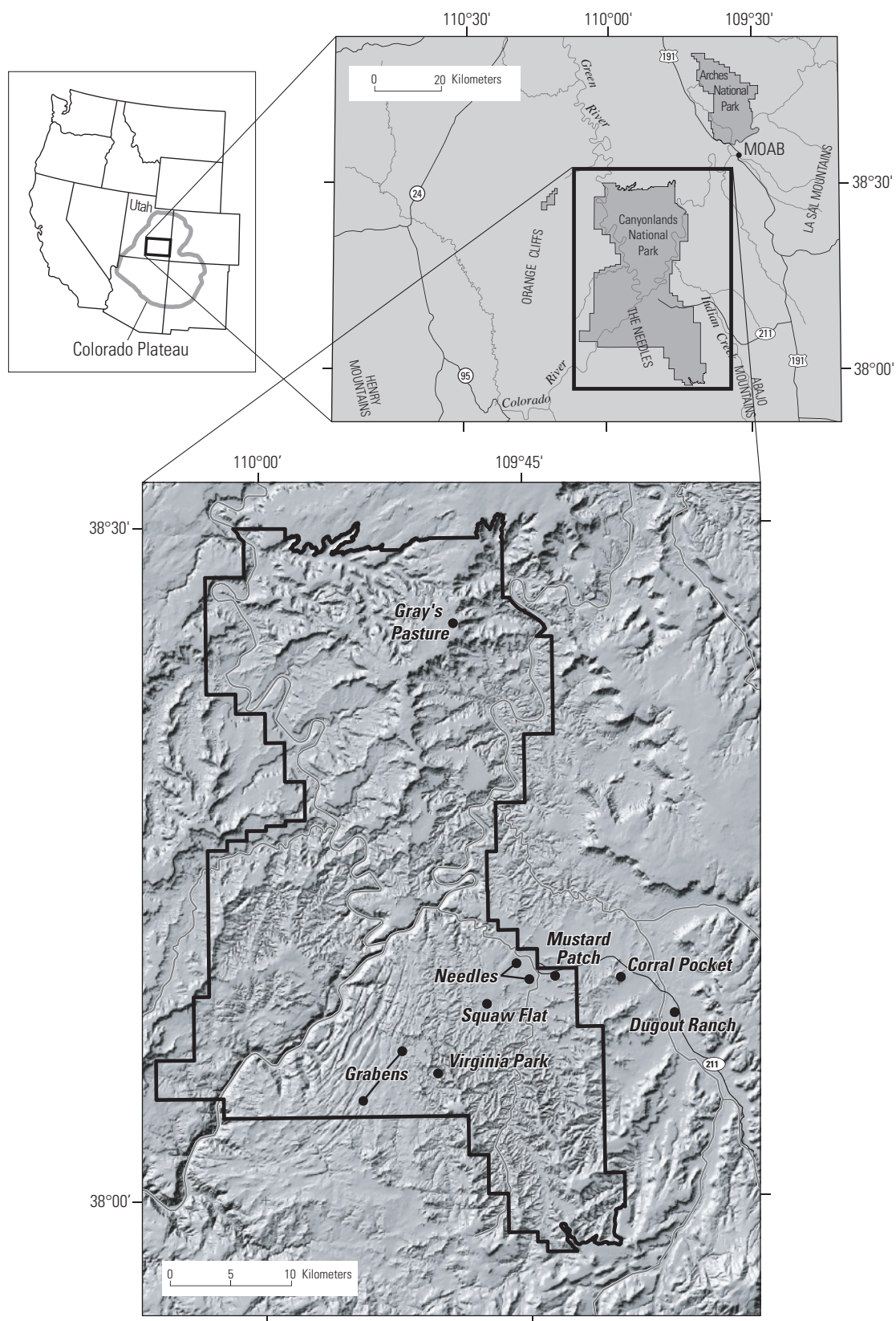


Figure 1. Location map of sampling sites in and around Canyonlands National Park.

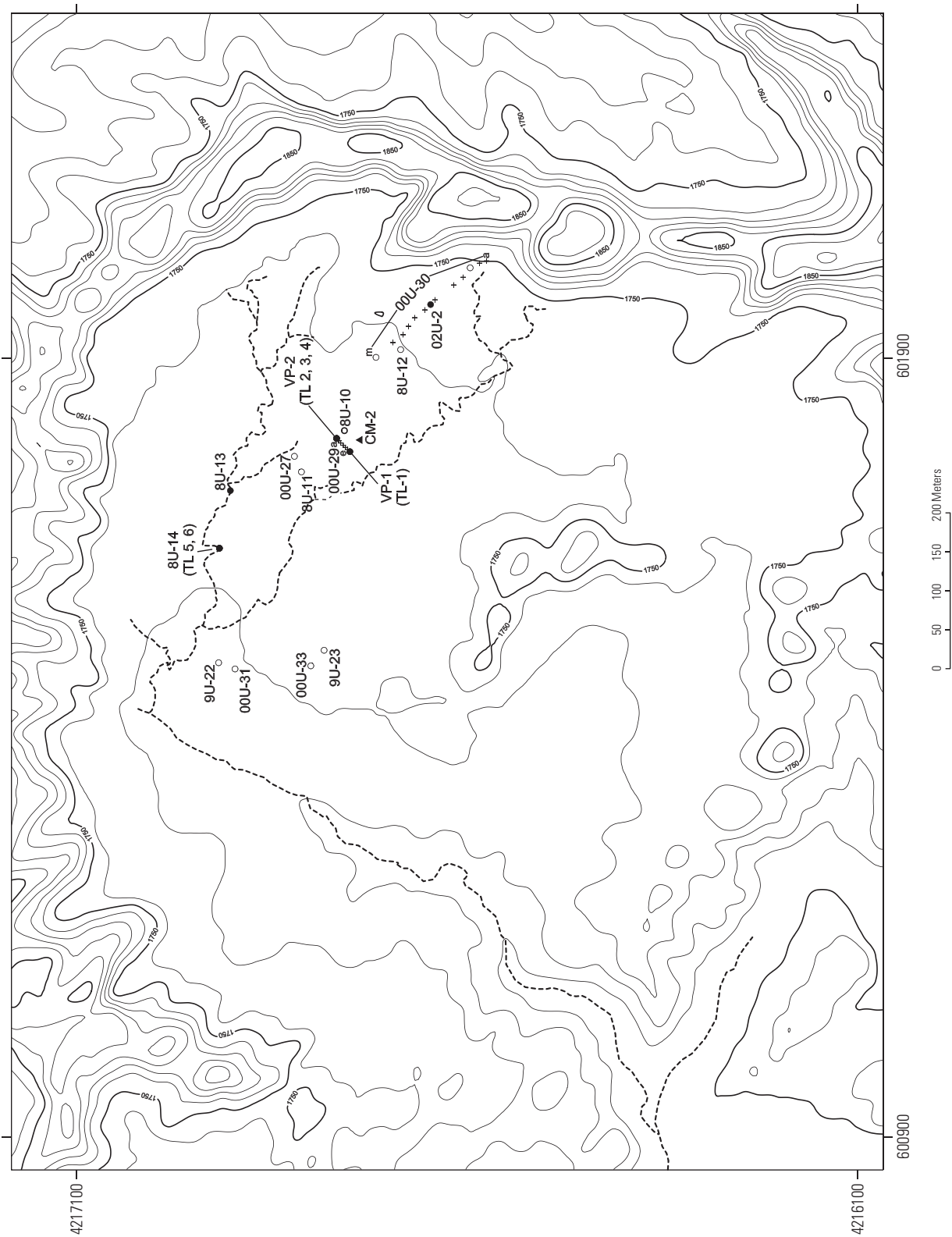


Figure 2. Location map of Virginia Park sampling sites. Open circles represent auger holes, closed circles represent soil pits or arroyo cuts, and plus symbols represent sampling points along transects. The closed triangle represents the CLIM-MET (CM-2) site. Dashed lines represent arroyos. Contour interval is 20 meters. Base Universal Transverse Mercator (m) Zone 12 N; NAD 27 horizontal datum; elevation data contoured from Druid Arch 10 meter DEM supplemented by 103 GPS differentially corrected GPS control points.

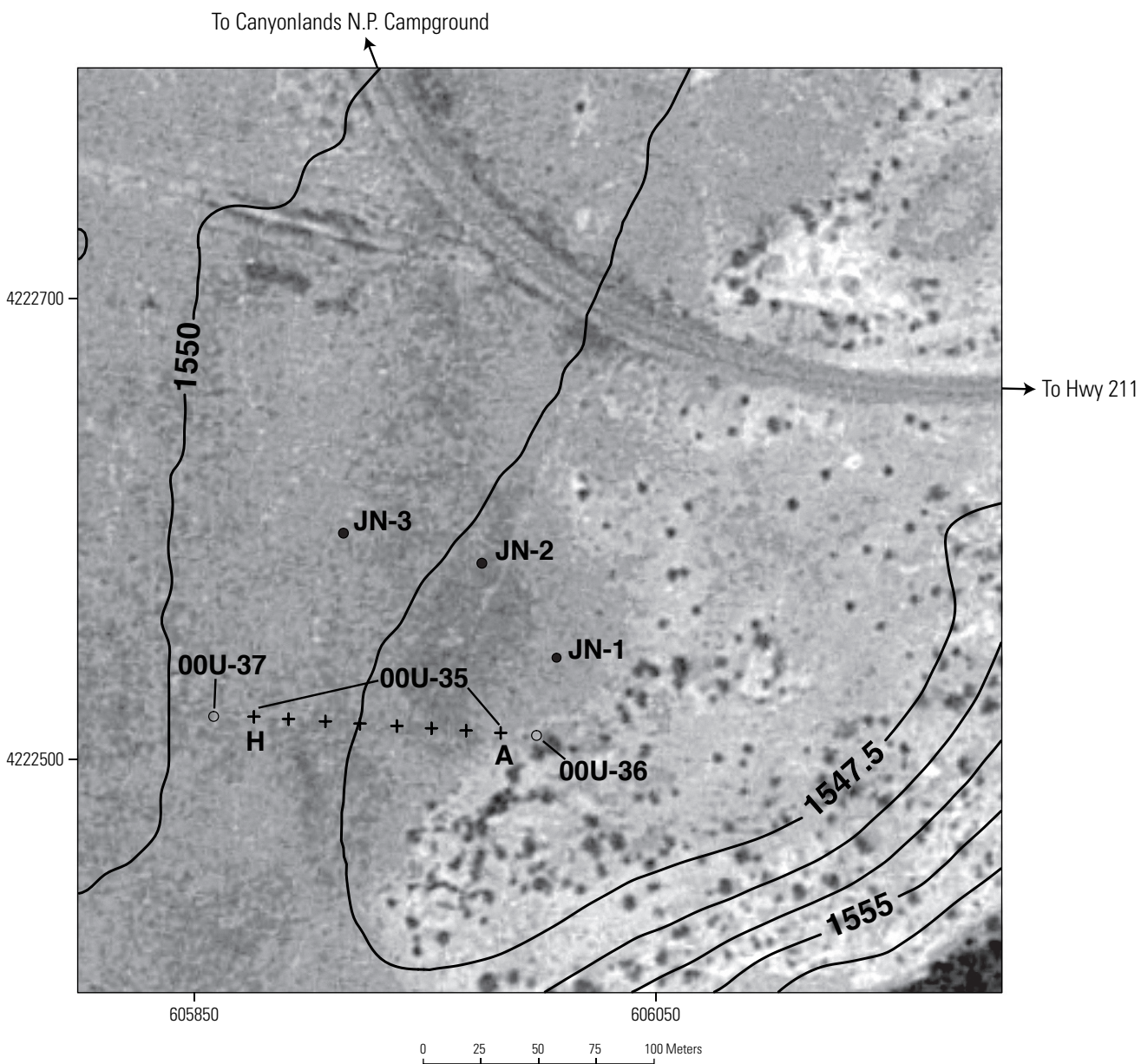


Figure 3. Location map of Squaw Flat sampling sites. Open circles represent auger holes, closed circles represent soil pits, and plus symbols represent sampling points (A-H) along the transect. Contour interval is 2.5 meters. Base Universal Transverse Mercator (m) Zone 12; NAD 27 horizontal datum; elevation data contoured from The Loop 10 meter DEM; orthophotograph base from The Loop southeast DOQ.

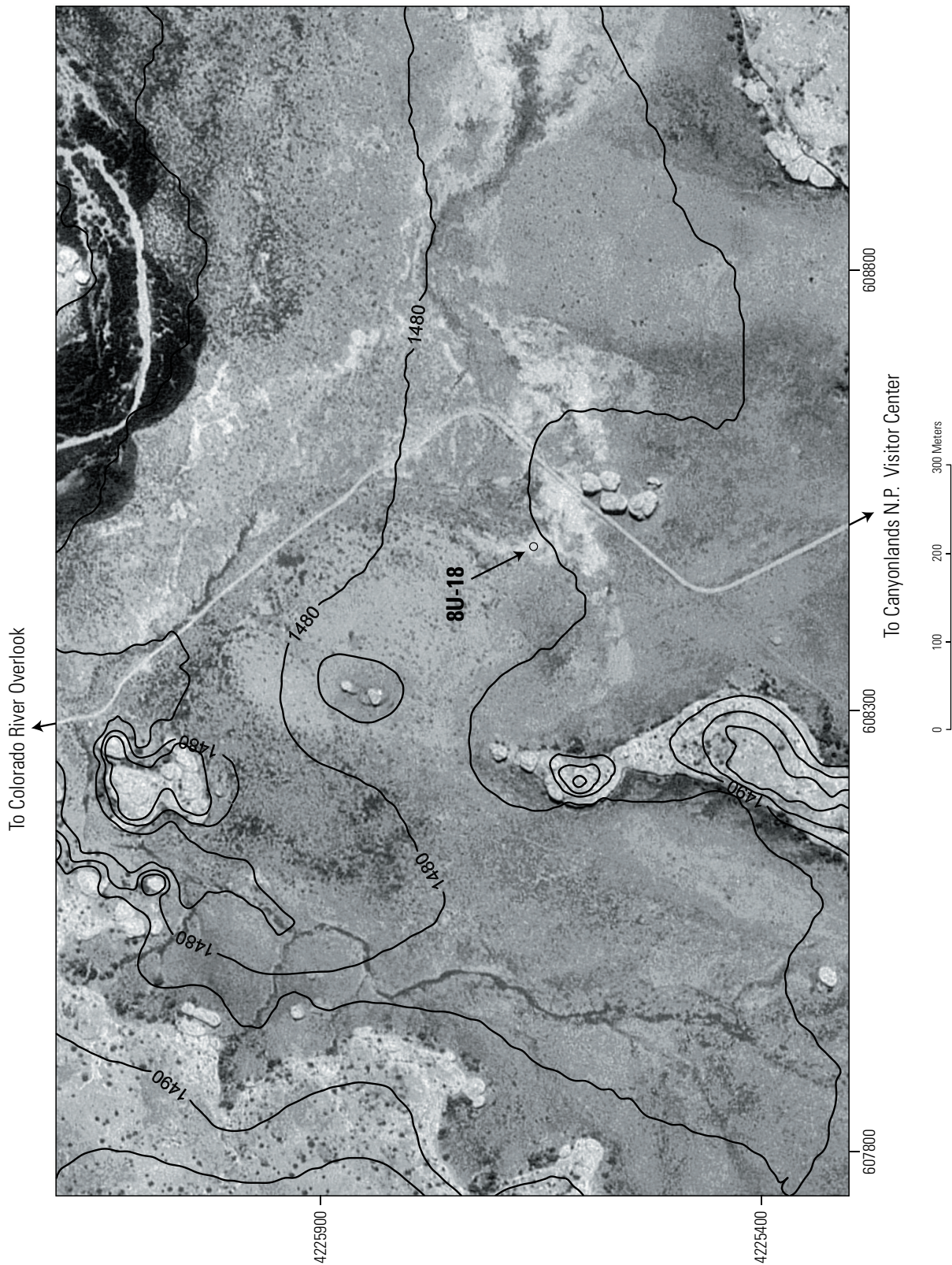


Figure 4a. Location map of Needles site located north of Canyonlands National Park visitor center. Open circle represents auger hole. Contour interval is 5 meters. Base Universal Transverse Mercator (m) Zone 12 N; NAD 27 horizontal datum; elevation data contoured from The Loop 10 meter DEM; orthophotograph base from The Loop southeast D00.

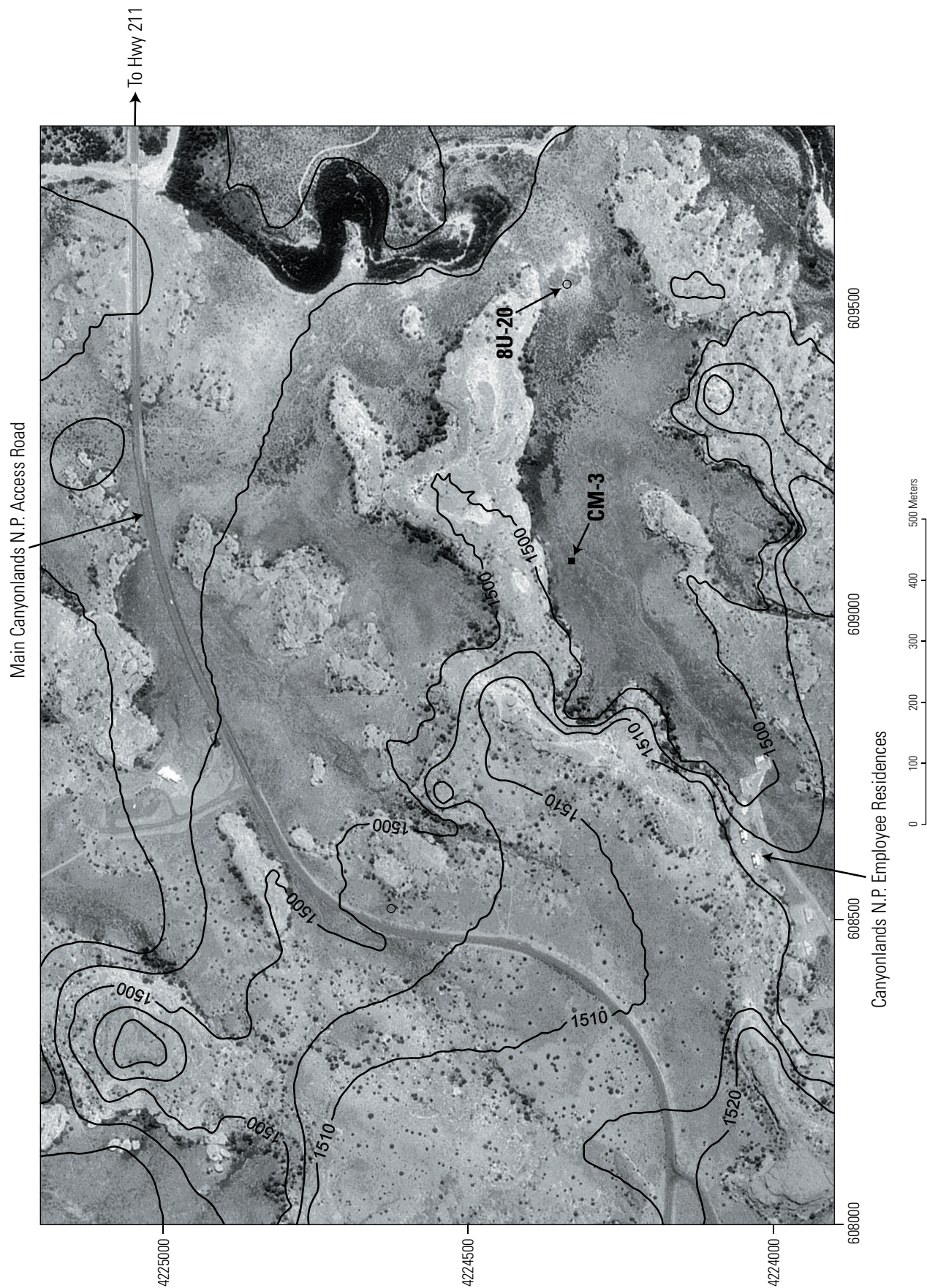


Figure 4b. Location map of Needles site located near park residences. The closed square represents the CLIM-MET (CM-3) site. Contour interval is 5 meters. Base Universal Transverse Mercator (m) Zone 12; NAD 27 horizontal datum; elevation data contoured from The Loop 10 meter DEM; orthophotograph base from The Loop southeast D00.

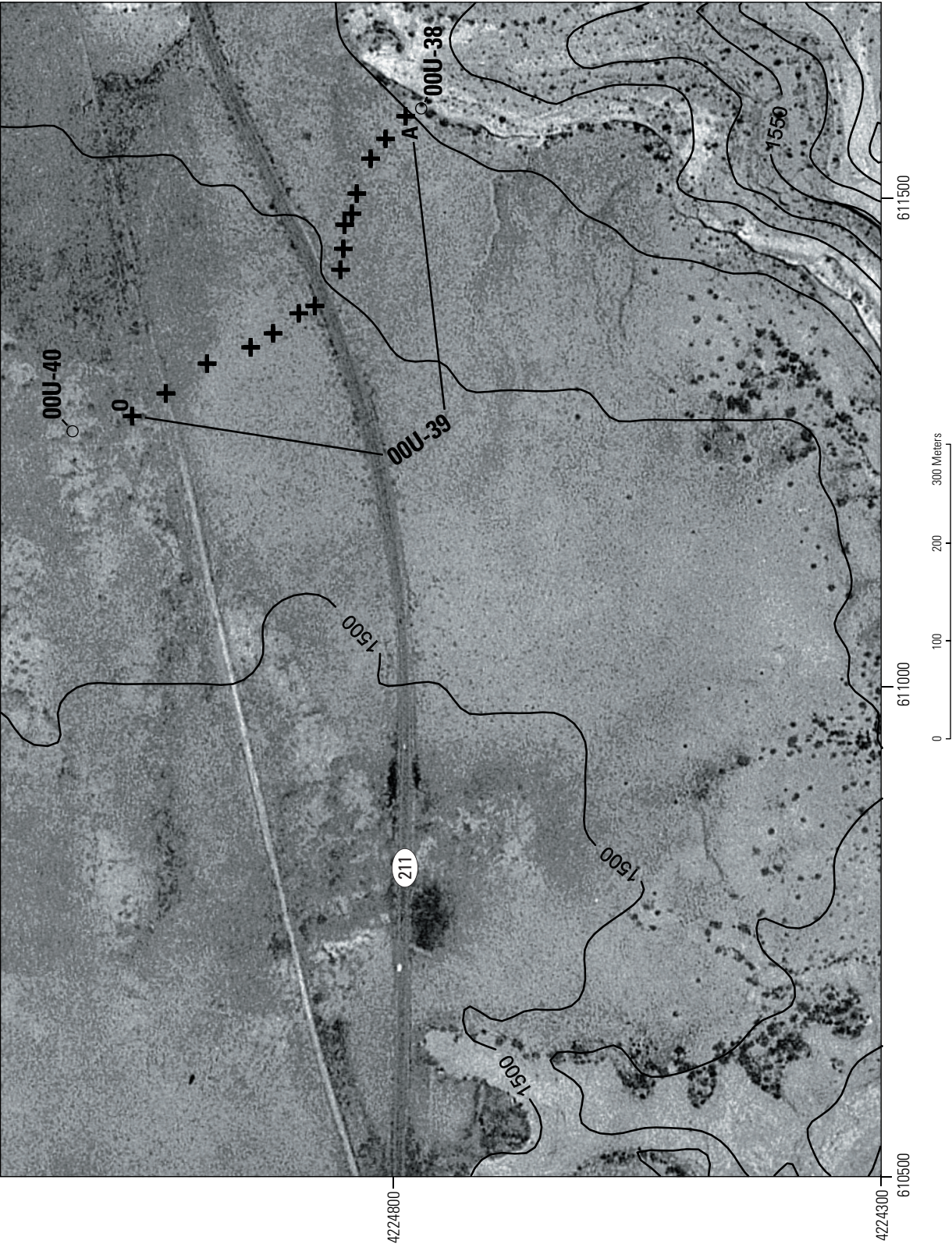


Figure 5. Location map of Mustard Patch site. Open circles represent auger holes, plus symbols represent sampling points along transect (A-O). Contour interval is 10 meters. Base Universal Transverse Mercator (m) Zone 12; NAD 27 horizontal datum; elevation data contoured from North Six-Shooter 10 meter DEM; orthophotograph base from North Six-Shooter southwest D00.

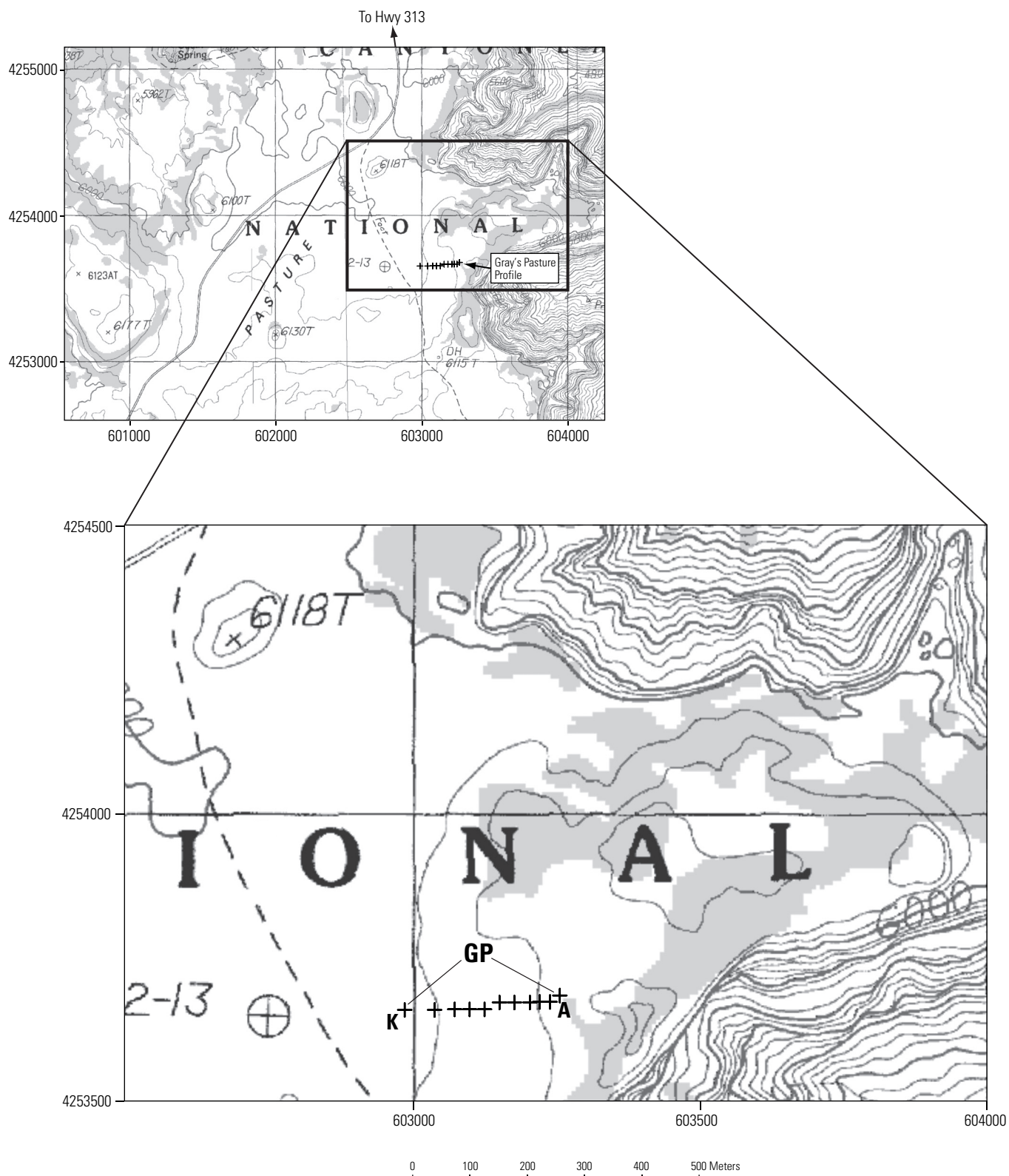


Figure 6. Location map of Gray's Pasture site. Plus symbols represent sampling points along the transect (A-K). Contour interval is 20 meters. Base Universal Transverse Mercator (m) Zone 12; Musselman Arch Digital Raster Graphic.

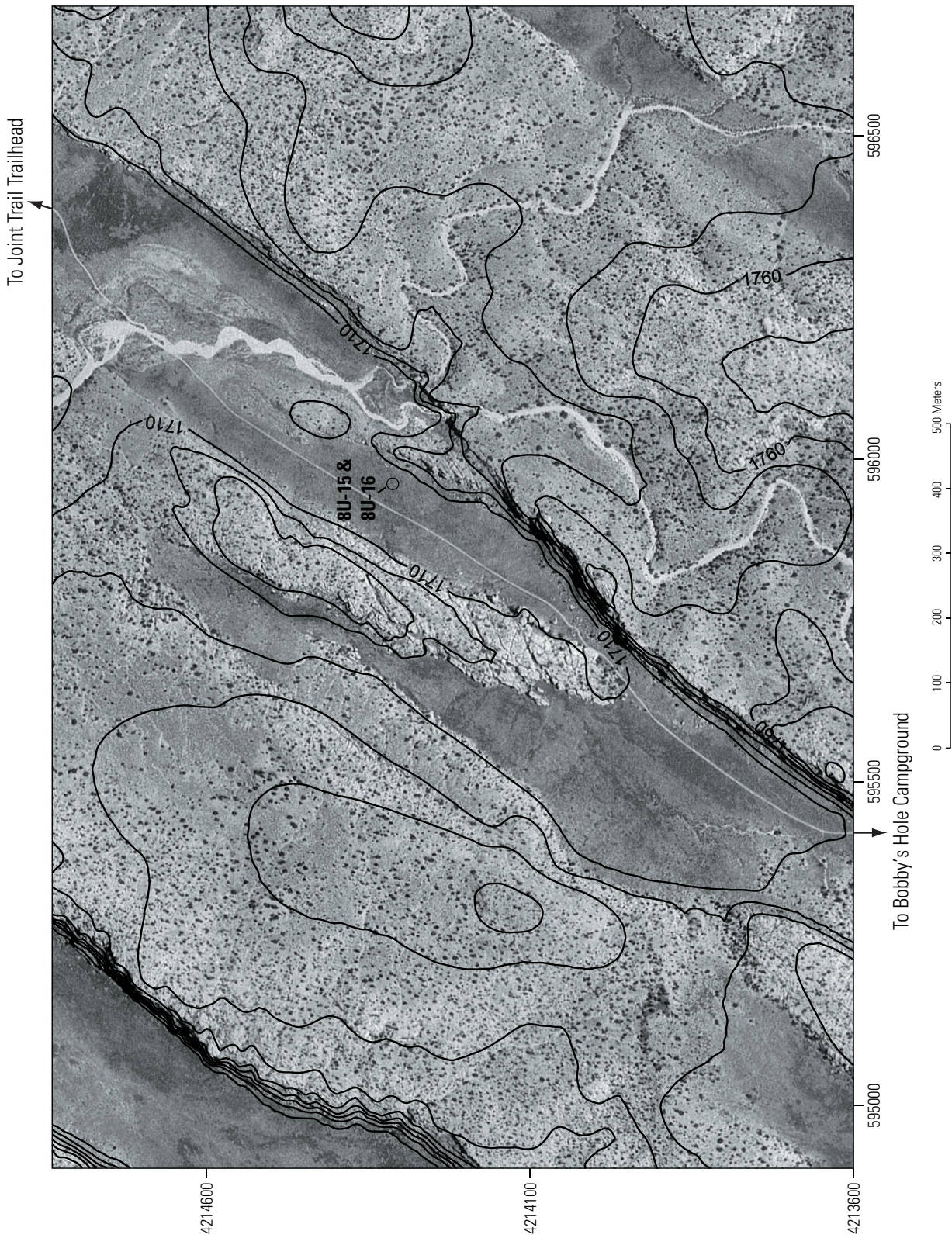


Figure 7a. Location map of southernmost Graben site. Open circle represents two auger holes spaced 20 meters apart. Contour interval is 10 meters. Base Universal Transverse Mercator (m) Zone 12; NAD 27 horizontal datum; elevation data contoured from Cross Canyon DEM; orthophotograph base from Cross Canyon northeast D00.

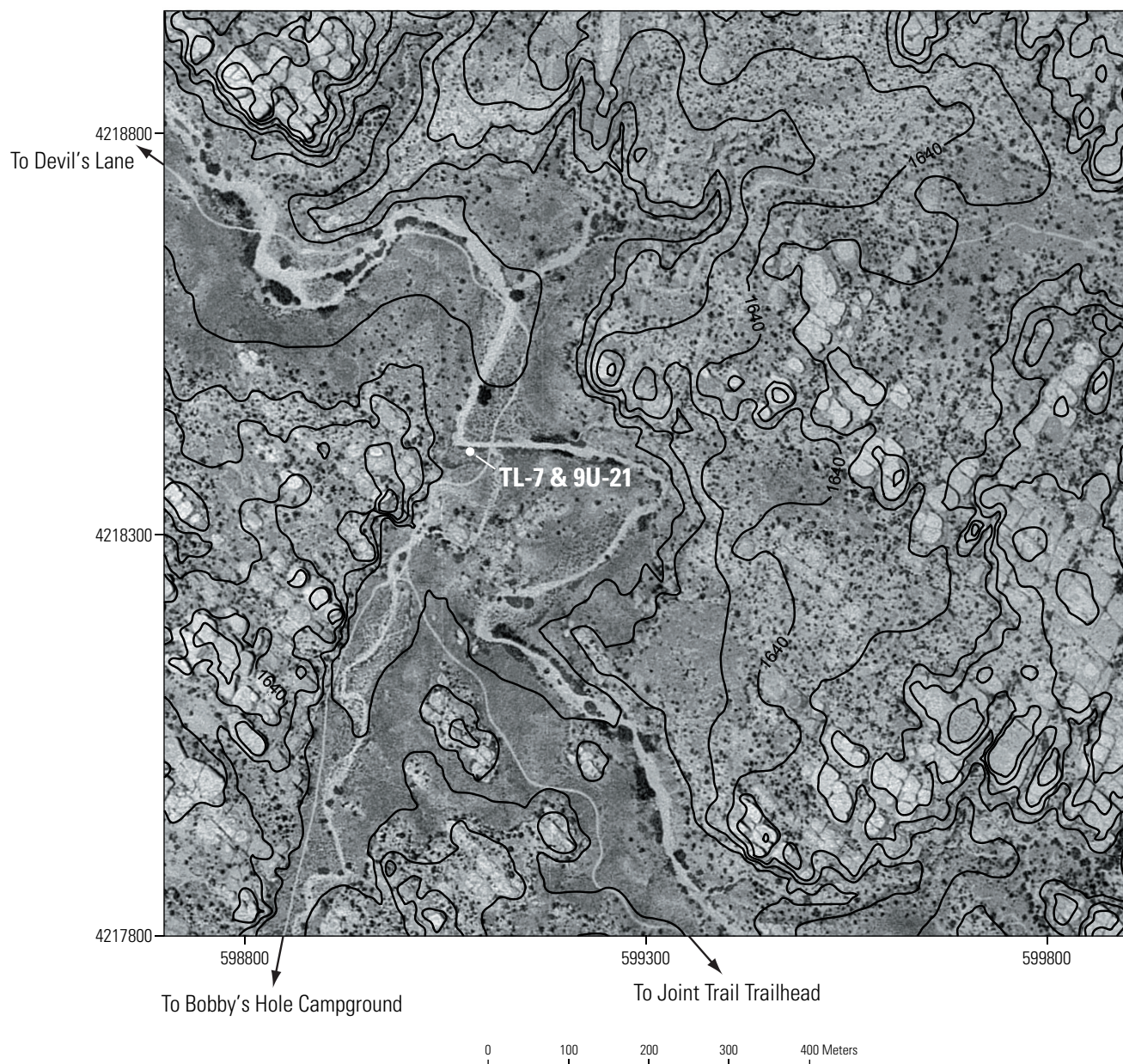


Figure 7b. Location map of northernmost Graben site. The closed white circle represents the arroyo cut. Contour interval is 10 meters. Base Universal Transverse Mercator (m) Zone 12; NAD 27 horizontal datum; elevation data contoured from Cross Canyon and Druid Arch 10 meter DEMs; orthophotograph base from Cross Canyon Northeast and Druid Arch northwest DEMs.

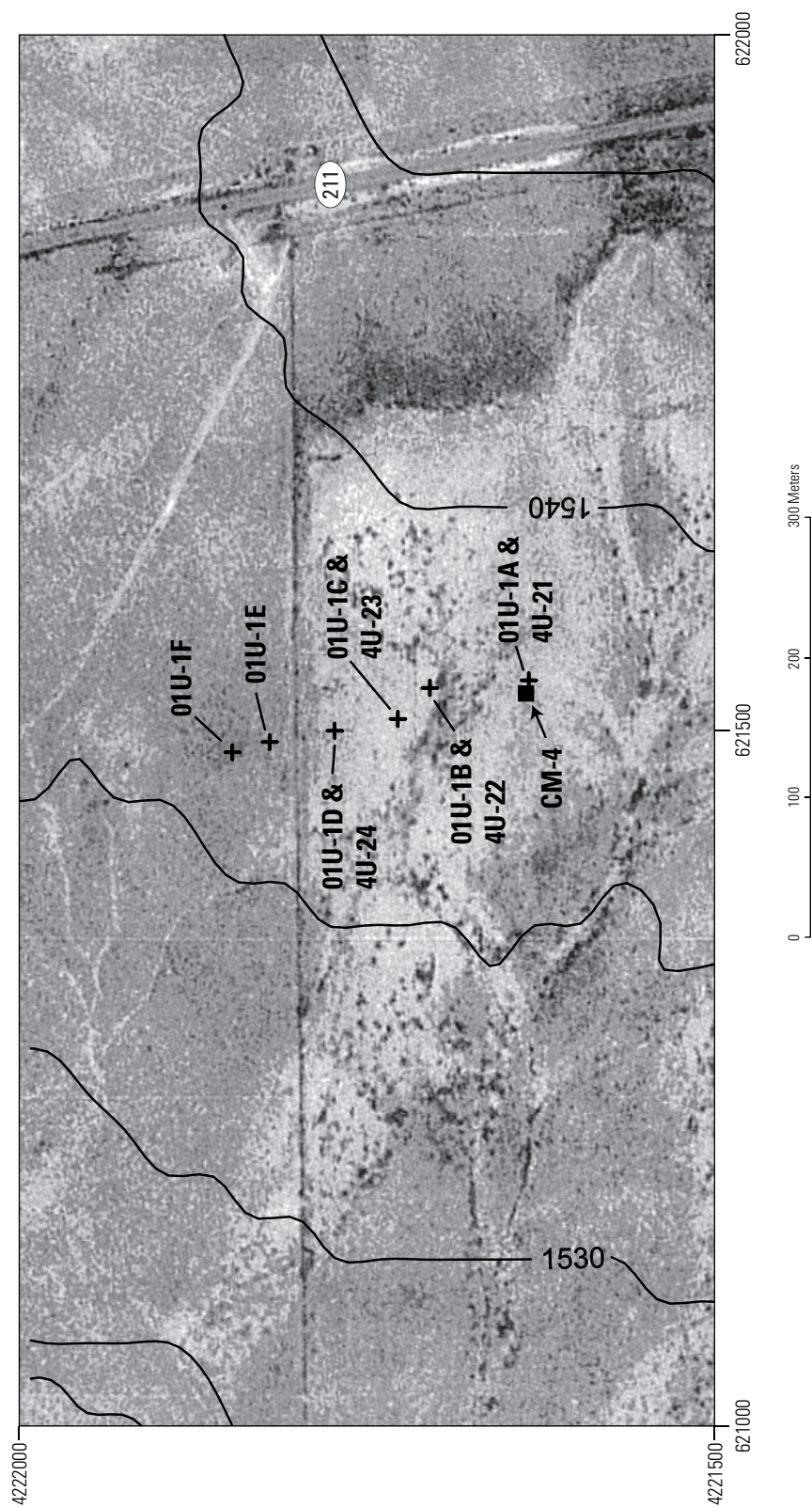


Figure 8. Location map of the Dugout Ranch site. Plus symbols represent sampling points along transects. Original samples have 01U prefix and the resamples have the 4U prefix. Solid square is the CLIM-MET (CM-4) site. Contour interval is 5 meters. Base Universal Transverse Mercator (m) Zone 12; NAD 27 horizontal datum; elevation data contoured from Harts Point North 10 meter DEM; orthophotograph base from Harts Point North southwest D00.

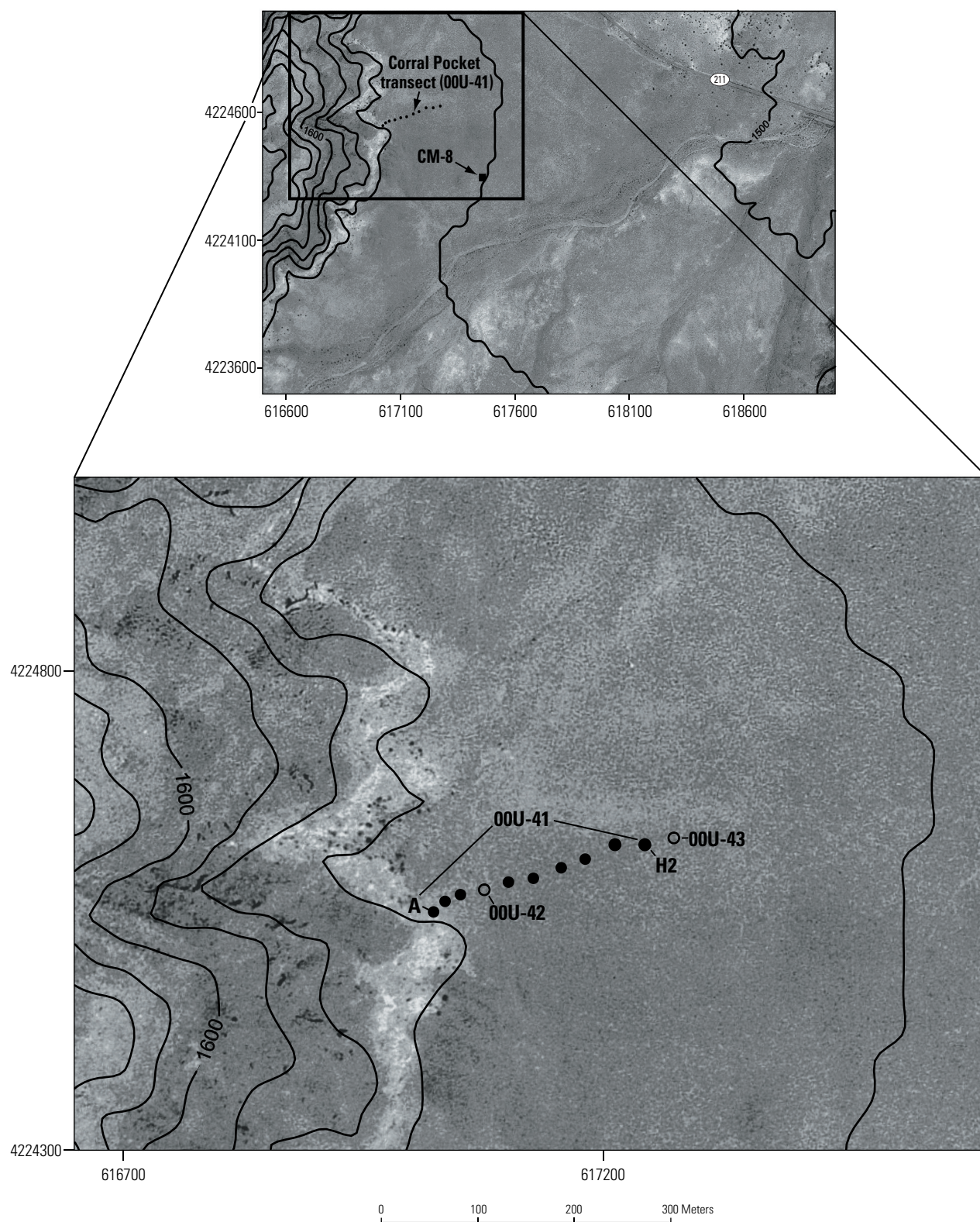


Figure 9. Location map of the Corral Pocket site. Open circles represent auger holes, closed circles represent sampling points along transect (A-H2). Square (top map) represents the CLIM-MET (CM-8) site. Contour interval is 20 meters. Base Universal Transverse Mercator (m) Zone 12; NAD 27 horizontal datum; elevation data contoured from North Six-Shooter 10 meter DEM; orthophotograph base from North Six-Shooter southeast DEM.

Table 1. Site locations

[Location Name: Common names used to refer to each field site.

Site Type: The specific method used to sample: Transects consist of six to 15 sampling locations (0-50 cm deep) along a slope, usually intersecting different vegetation zones. Most transects are anchored by deep auger holes (< 3.5 m deep) at or near the top of the transect as well as at or near the base of the transect. Each location within a transect was sampled at three depths; 0-10 cm, 10-30 cm, and 30-50 cm. Soil Pits are hand dug excavations approximately 1 m deep, and samples were depth-integrated within each designated soil horizon. Auger Holes were excavated by hand using a sand bucket head and were sampled along the entire depth. Sampling for the upper portion of the auger hole was consistent with transect sampling (0-10 cm, 10-30 cm, and 30-50 cm); however, below 50 cm, sampling was guided by the depths obtained from each auger drive; usually on the order of every 10 cm. Samples from the auger holes were taken from the interiors of the largest, most intact clods of sediment within each bucketful. Arroyo Exposures were utilized for sampling and stratigraphic context when available and were sampled based on soil-horizon designations.

Sample Designation: Designations of each sampling site determined during sampling, and referred to during laboratory analysis and presentation of data.

Latitude/Longitude, Beginning/Ending: Location of each sampling site, reported in WGS84 decimal degrees. Beginning and Ending are applicable only to transects, and represent the top and bottom sampling sites of the transect, respectively.

UTM N/UTM E, Beginning/Ending: Location of each sampling site, reported in WGS84 datum. Beginning and Ending are applicable only to transects, and represent the top and bottom sampling sites of the transect, respectively|

Location name	Site type	Sample designation	Elevation (meters)	Beginning			Ending			UTM N	Beginning		UTM N	Ending	
				Latitude	Longitude	Latitude	Longitude	Latitude	Longitude		UTM E	UTM N		UTM E	UTM N
Virginia Park	Transect	00U-29	1725	38.09480	-109.83984	38.09469	-109.83996	4216968.0	601730.0	4216957.0	601719.0		4216957.0	601719.0	
	Transect	00U-30	1740	38.09306	-109.83723	38.09436	-109.83865	4216779.0	601961.0	4216921.0	601835.0		4216921.0	601835.0	
	Soil Pit	VP-1	1725	38.09467	-109.84000	n/a	n/a	4216954.0	601716.0	n/a	n/a		n/a	n/a	
	Soil Pit	VP-2	1725	38.09482	-109.83980	n/a	n/a	4216971.0	601733.0	n/a	n/a		n/a	n/a	
	Arroyo Exposure	8U-13	1720	38.09605	-109.84055	n/a	n/a	4217107.0	601666.0	n/a	n/a		n/a	n/a	
	Arroyo Exposure	8U-14	1715	38.09619	-109.84139	n/a	n/a	4217121.0	601592.0	n/a	n/a		n/a	n/a	
	Auger Hole	8U-10	1727	38.09482	-109.83975	n/a	n/a	4216971.0	601738.0	n/a	n/a		n/a	n/a	
	Auger Hole	8U-11	1720	38.09552	-109.84029	n/a	n/a	4217016.0	601690.0	n/a	n/a		n/a	n/a	
	Auger Hole	8U-12	1729	38.09407	-109.83851	n/a	n/a	4216889.0	601847.0	n/a	n/a		n/a	n/a	
	Auger Hole	9U-22	1705	38.09621	-109.84306	n/a	n/a	4217122.0	601445.0	n/a	n/a		n/a	n/a	
	Auger Hole	9U-23	1712	38.09499	-109.84290	n/a	n/a	4216987.0	601461.0	n/a	n/a		n/a	n/a	
	Auger Hole	00U-27	1722	38.09531	-109.84006	n/a	n/a	4217025.0	601710.0	n/a	n/a		n/a	n/a	
	Auger Hole	00U-31	1707	38.09602	-109.84316	n/a	n/a	4217101.0	601437.0	n/a	n/a		n/a	n/a	
	Auger Hole	00U-33	1710	38.09515	-109.84313	n/a	n/a	4217004.0	601441.0	n/a	n/a		n/a	n/a	

Table 1. Site locations—Continued.

Location name	Site type	Sample designation	Elevation (meters)	Beginning		Ending		Beginning		Ending	
				Latitude	Longitude	Latitude	Longitude	UTM N	UTM E	UTM N	UTM E
Dugout Ranch	Transect	01U-1	1537	38.13626	-109.61403	38.13816	-109.61447	4221840.8	621461.9	4222051.5	621419.7
	Transect	04U	1537	38.13626	-109.61403	38.13750	-109.61431	4221840.8	621461.8	4221978.1	621435.2
Mustard Patch	Transect	00U-38,39,40	1510	38.16580	-109.72686	38.16906	-109.73058	4224976.4	611528.2	4225334.3	611197.2
Squaw Flat	Transect	00U-35,36,37	1547	38.14609	-109.79104	38.14618	-109.79264	4222714.6	605934.5	4222722.8	605794.1
Corral Pocket	Transect	00U-41,42,43	1535	38.16309	-109.66492	38.16375	-109.66203	4224753.0	616958.0	4224830.0	617210.0
Needles	Auger Hole	8U-18	1484	38.17417	-109.76217	n/a	n/a	4225863.0	608423.0	n/a	n/a
	Auger Hole	8U-20	1497	38.16217	-109.75033	n/a	n/a	4224546.0	609477.0	n/a	n/a
Grabens	Auger Hole	8U-15	1705	38.07330	-109.90670	n/a	n/a	4214511.9	595894.6	n/a	n/a
	Auger Hole	8U-16	1705	38.07330	-109.90670	n/a	n/a	4214511.9	595894.6	n/a	n/a
	Arroyo Exposure	9U-21	1605	38.10987	-109.87054	n/a	n/a	4218607.5	599016.7	n/a	n/a

Table 2. Soil descriptions

In some cases, exposures, soil pits, and auger holes were described following Birkeland (1999). Descriptions were made only for sites in Virginia Park, Needles, and the Grabens. All other sites lack descriptions. Explanations of description notations are listed with the descriptions.

Table 2a-1. Soil descriptions of soil pits in Virginia Park.

Horizon ¹	Depth (cm)	Dry color	Moist color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , other cements ⁶
VP-1, hand-dug soil pit in dune crest, Virginia Park site								
A	0-6	7.5YR7/4	7.5YR5/4	2m sbk, 1fpl	so	so, vp	0	0, no eff.
Bwk	6-19	5YR6/5	5YR4/6	2m-c sbk	so	vss, vps	0	0, es
B1tk	19-30	5YR7/5	5YR5/6	2f-m sbk	so	vss, vps	1nbr	0, es
Bt2k	30-55	5YR6/6	5YR4/8	2f-m sbk	so	ss, vps	2nbr, 1npo, 1npf	I, es
B31tkb	55-66	5YR6/5	5YR5/6	2f-m abk	sh	vss, vps	1npf	I+, ev
B32tkb	66-78	5YR6/4	5YR5/6	2f-m abk	h	s, ps	2npf	III, ev
Bkb	78-90	n.d.	n.d.	n.d.	h	n.d.	n.d.	III, ev
VP-2, hand-dug soil pit in dune swale, Virginia Park site								
Ak	0-5	5YR6/4	5YR4/4	1f-m sbk	so	vss, vps	0	0, e
Bw	5-14	5YR6/5	5YR4/6	1f cr	so	vss, vps	0	0, e-
Bwk	14-44	5YR6/5	5YR5/6	2f-m sbk	so-sh	vss, vps	0	I, e-es
Btk1b	44-55	5YR7/4	5YR5/6	2f-m sbk	sh	ss, vps	1nbr	II, ev
Btk2b	55-85	5YR6/5	5YR5/6	2m-c abk	sh	ss, vps	1nbr, 1npf	I, es
Bkb	98-115	n.d.	n.d.	n.d.	h	n.d.	n.d.	n.d.

¹Horizon nomenclature and carbonate stage follow Birkeland (1999) and references therein.

²Structure codes: Strength/abundance—1-3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy. S.g., single grain.

³Dry consistence codes: lo, loose; so, soft; sh, slightly hard; h, hard; vh, very hard.

⁴Wet consistence codes: so, non-sticky; vss, very slightly sticky; ss, slightly sticky; s, sticky; vs, very sticky; po, non-plastic; pss, very slightly plastic; ps, slightly plastic; p, plastic; vp, very plastic.

⁵Clay film codes: Abundance—1-3; v1, very few. Thickness—n, thin. Location—br, grain bridge; po, pore filling; pf, ped face; co, grain coat.

⁶Carbonate codes: e, effervesces weakly; es, effervesces strongly; ev, effervesces violently.

Table 2a-2. Soil descriptions of auger holes 8U-10, 8U-11, and 8U-12.

Horizon ¹	Depth (cm)	Dry color	Moist color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , other cements ⁶
Auger hole 8U-10								
A/Bw	0-22	5YR6/5	5YR4/6	2f-m sbk	so	so, po	0	0, e
Bw*	22-47	5YR6/4	5YR5/6	1f-m sbk	lo-so	so, po	0	0, es
Btb1	47-58	5YR7/6	5YR6/6	1f-m sbk	so-sh	ss, ps	0	I, ev
Btkb1*	58-74	5YR7/4	5YR4/6	2f-m sbk	sh-h	vss, vps	0	II, ev
Bk1b1*	74-99	5YR7/3	5YR6/5	3m sbk, 1pl	h-vh	vss, vps	0	II+, ev
Bk2b1*	99-154	5YR7/4-7/5	5YR6/5-6/6	2m sbk	h-vh	so, po	0	II, ev
Btkqb2*	154-220	5YR7/4-7/5	5YR5/7	2m abk	h-vh	ss, po	0	I, e-es; silica
Bkb2*	220-284	5YR7/4-8/4	5YR6/6	n.d.	h-so	so, po	0	I, e-es; silica
Auger hole 8U-11								
A/Bw	0-22	5YR6/5	5YR4/6	2f-m sbk	so	so, po	0	0, e-es
Bw*	22-50	5YR6/5	5YR5/6	2f-m sbk	so-sh	vss, vps	0	0-I, es-ev
Btk1b1*	50-86	5YR6/6	5YR5/6	2f-m sbk	sh-h	vss, vps	0	I+, ev
Btk2b1*	86-118	5YR7/4	5YR6/5	3f-m sbk	h	vss, vps	0	II+, ev
Bkb1*	118-151	5YR7/4	5YR5/6	2f-m sbk	sh-h	so, po	0	II, ev
Bkb2*	151-172	5YR7/5	5YR6/6	n.d.	sh-so	so, po	0	I, es-ev
Ckb2*	172-251	5YR7/5	5YR6/6	Single grain	lo-so	so, po	0	I, es-ev
Cyb2*	251-278	5YR7/5	5YR6/6	Single grain	lo-so	so, po	0	0, es; gypsum rosettes
Auger hole 8U-12								
A	0-12	5YR4/4	5YR6/4	2f-m sbk	so	so, po	0	0, e-
Bw	12-27	5YR6/5	5YR5/6	3f-m sbk	so	vss, vps	0	0, es-ev
Btk1b1	27-55	5YR7/4	5YR5/6	1f sbk	lo-so	vss, po	0	I, ev
Btk2b1	55-80	5YR6/6	5YR5/8	2f-m sbk	lo-so	so, po	0	I+, ev
Btk3b1	80-106	5YR8/3	5YR6/6	3 f-m sbk	sh	ss, ps	0	II+, ev
Bk1b1	106-147	5YR8/3	5YR6/6	2f-m sbk	h-so	so, po	0	II, ev-es
Bk2b1	147-180	5YR7/4	5YR6/6	n.d.	lo-so	so, po	0	I, ev-e
Btkqb2	180-216	5YR6/5	5YR5/6	n.d.	so-h	so, po	0	I, ev
Bk1b2	216-273	5YR6/5	5YR5/6	n.d.	lo-sh	so, po	0	I, ev
2Bk2b2	273-280	5YR7/4	5YR6/6	Single grain	lo	so, po	0	I, ev
3Bk3b2	280-299	5YR7/5	5YR6/6	Single grain	lo-sh	so, po	0	I, ev-es
3Bk4b2	299-317	5YR7/5	5YR6/6	Single grain	lo	n.d.	0	I, ev

*Represents average or range of properties of 2-5 samples within given depth range

¹Horizon nomenclature and carbonate stage follow Birkeland (1999) and references therein

²Structure codes: Strength/abundance—1-3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy. S.g., single grain.

³Dry consistence codes: lo, loose; so, soft; sh, slightly hard; h, hard; vh, very hard.

⁴Wet consistence codes: so, non-sticky; vss, very slightly sticky; ss, slightly sticky; s, sticky; vs, very sticky; po, non-plastic; pss, very slightly plastic; ps, slightly plastic; p, plastic; vp, very plastic.

⁵Clay film codes: Abundance—1-3; v1, very few. Thickness—n, thin. Location—br, grain bridge; po, pore filling; pf, ped face; co, grain coat.

⁶Carbonate codes: e, effervesces weakly; es, effervesces strongly; ev, effervesces violently.

22 Particle-Size, CaCO₃, Chemical, Magnetic, and Age Data from Surficial Deposits around Canyonlands N.P., Utah

Table 2a-3. Soil description of auger hole 9U-22.

Horizon ¹	Depth (cm)	Dry color	Moist color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , other cements ⁶
Auger hole 9U-22								
A	0-15	n.d.	n.d.	n.d.	n.d.	ss, po	n.d.	0, es
Bt	15-41	n.d.	n.d.	1f sbk	n.d.	ss, po	n.d.	0, es
Btk1	41-67	n.d.	n.d.	2f sbk	n.d.	s, ps	n.d.	0, es
Btk2	67-87	n.d.	n.d.	2f sbk	n.d.	s, ps	n.d.	I+, es
Bk1	87-97	n.d.	n.d.	2f sbk	n.d.	ss, po	n.d.	II, ev
Bk2	97-124	n.d.	n.d.	2f sbk	n.d.	so, po	n.d.	II, ev
Bk3	124-146	n.d.	n.d.	1f sbk	n.d.	so, po	n.d.	I, ev
C	146-156	n.d.	n.d.	single grain	n.d.	so, po	n.d.	0, es
Btb1	156-178	n.d.	n.d.	1f sbk	n.d.	so, po	n.d.	0, es
Btb2	178-216	n.d.	n.d.	1f sbk	n.d.	so, po	n.d.	0, es
Bwb2	216-240	n.d.	n.d.	1f sbk	n.d.	so, po	n.d.	0, es
Cb	240-265	n.d.	n.d.	single grain	n.d.	so, po	n.d.	0, es
Cyb	265-274	n.d.	n.d.	single grain	n.d.	so, po	n.d.	0, es; gypsum rosettes
Btyb3	274-295	n.d.	n.d.	1f sbk	n.d.	ss, ps	n.d.	0, es; gypsum rosettes
Btky1b3	295-305	n.d.	n.d.	2f sbk	n.d.	s, ps	n.d.	0, es; gypsum rosettes
Btky2b3	305-325	n.d.	n.d.	3f sbk	n.d.	ss, ps	n.d.	I, ev; gypsum rosettes
Bk1b3	325-364	n.d.	n.d.	3f sbk	n.d.	ss, ps	n.d.	II+, ev
Bk2b3	364-383	n.d.	n.d.	1f sbk	n.d.	so, po	n.d.	I, es

*Represents average or range of properties of 2-5 samples within given depth range

¹Horizon nomenclature and carbonate stage follow Birkeland (1999) and references therein

²Structure codes: Strength/abundance—1-3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy. S.g., single grain.

³Dry consistence codes: lo, loose; so, soft; sh, slightly hard; h, hard; vh, very hard.

⁴Wet consistence codes: so, non-sticky; vss, very slightly sticky; ss, slightly sticky; s, sticky; vs, very sticky; po, non-plastic; pss, very slightly plastic; ps, slightly plastic; p, plastic; vp, very plastic.

⁵Clay film codes: Abundance—1-3; v1, very few. Thickness—n, thin. Location—br, grain bridge; po, pore filling; pf, ped face; co, grain coat.

⁶Carbonate codes: e, effervesces weakly; es, effervesces strongly; ev, effervesces violently.

Table 2a-4. Soil description of auger hole 9U-23.

Horizon ¹	Depth (cm)	Dry color	Moist color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , other cements ⁶
Auger hole 9U-23								
A/Bw	0-33	n.d.	n.d.	1f sbk	n.d.	so, po	0	0, es
Btj	33-46	n.d.	n.d.	1f sbk	n.d.	so, po	0	0, ev
Btk1b1	46-67	n.d.	n.d.	2f sbk	n.d.	ss, ps	0	I, ev
Btk2b1	67-96	n.d.	n.d.	3f sbk	n.d.	ss, ps	0	II+, ev
Bkb1	96-115	n.d.	n.d.	3f sbk	n.d.	ss, ps	0	II, ev
Bkb2	115-138	n.d.	n.d.	3f sbk	n.d.	so, po	0	II, ev
Bkyb1	138-171	n.d.	n.d.	1f sbk	n.d.	so, po	0	I, es; gypsum rosettes
Btb2	171-185	n.d.	n.d.	2f sbk	n.d.	ss, ps	2np0	0, es
Btkb2	185-218	n.d.	n.d.	2f sbk	n.d.	ss, ps	2np0	I, es
Bk1b2	218-248	n.d.	n.d.	1f sbk	n.d.	so, po	0	II, es
Bk2b2	248-285	n.d.	n.d.	1f sbk	n.d.	so, po	0	I, es
Btkb3	285-298	n.d.	n.d.	2f sbk	n.d.	vss, po	1np0	II-, ev
rock	298+	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Table 2a-5. Soil description of auger hole 00U-27.

Horizon ¹	Depth (cm)	Dry color	Moist color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , other cements ⁶
Auger hole 00U-27								
A	0-10	n.d.	n.d.	sg to 1f-m sbk	so, sh	so, ps	0	0, 0
Bwk	10-30	n.d.	n.d.	1 f-m sbk	so	so, po	0	I, e
Btb1	30-84	n.d.	n.d.	2m sbk	so	ss, ps	1vnco	0, e
Btkb1	84-116	n.d.	n.d.	2m sbk	so, sh	ss, ps	0	I, es
Btkqb2	116-156	n.d.	n.d.	2m sbk	vh	ss, p	0	II+, ev-es
Bkq1b2	156-194	n.d.	n.d.	2f-m sbk	so-vh	so, ps	0	II, ev-es
Bkq2b2	194-233	n.d.	n.d.	1f-m sbk	so-vh	so, ps	0	II-, ev-es
Bkq3b2	233-274	n.d.	n.d.	1f-m sbk	so-h	vss, po	0	I+, es-e
Bkq1b3	274-301	n.d.	n.d.	1f-m sbk	lo-h	vss, po	0	I-, es-e
Bkq2b3	301-324	n.d.	n.d.	1f-m sbk	lo-h	ss, pss	0	I-, es-e

¹Horizon nomenclature and carbonate stage follow Birkeland (1999) and references therein

²Structure codes: Strength/abundance—1-3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy. S.g., single grain.

³Dry consistence codes: lo, loose; so, soft; sh, slightly hard; h, hard; vh, very hard.

⁴Wet consistence codes: so, non-sticky; vss, very slightly sticky; ss, slightly sticky; s, sticky; vs, very sticky; po, non-plastic; pss, very slightly plastic; ps, slightly plastic; p, plastic; vp, very plastic.

⁵Clay film codes: Abundance—1-3; v1, very few. Thickness—n, thin. Location—br, grain bridge; po, pore filling; pf, ped face; co, grain coat.

⁶Carbonate codes: e, effervesces weakly; es, effervesces strongly; ev, effervesces violently.

Table 2b-1. Soil descriptions of auger holes 8U-18 and 8U-20.

Horizon ¹	Depth (cm)	Dry color	Moist color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , other cements ⁶
Auger hole 8U-18								
Horizons not differentiated due to Clayey nature of deposit	0-95	2.5YR5/6	2.5YR4/6	Massive	n.d.	vs, vp	v1npf	0, ev
	95-155	5YR7/4	5YR5/4	Massive	n.d.	vs, vp	v1npf	0, ev
	155-187	5YR6/4	5YR5/6	Massive	n.d.	vs, vp	v1npf	0, ev
	187-205	5YR6/5	5YR5/6	Massive	n.d.	ss, ps	v1npf	0, ev
	205-333	5YR7/5	5YR5/6	Single grain	n.d.	so, po	0	0, ev
	333-391	5YR7/4	5YR6/6	Single grain	n.d.	ss, ps	0	0, ev
	391-400	5YR7/5	5YR6/6	Single grain	n.d.	so, po	0	0, ev
Auger hole 8U-20								
C	0-65	5YR6/5	5YR5/6	massive to bedded	sh	vs, vp	pressure films	0, ev
2Avb1	65-80	5YR7/5	5YR5/7	2f sbk	h	so, po	0	0, ev
2Bwb1	80-102	2.5YR6/6	2.5YR5/6	3f sbk	h	vss, po	1nb4	0, ev
2Cb1	102-165	5YR7/4	5YR6/6	sg	lo	so, po	0	0, e
2Bwb2	165-190	5YR6/4	5YR5/4	2m sbk	so-sh	ss, ps	0	0, ev
2Cb2	190-215	5YR7/4	5YR5/4	sg	so-lo	so, po	0	0, es
3C1b3	215-365	5YR6/6	5YR5/6	massive	sh	vs, vp	pressure films	0, es
3C2b3	365-389	5YR6/7	5YR5/6	massive	sh	vs, vp	pressure films	0, es
3C3b3	389-400	n.d.	5YR5/5	massive	sh	vs, vp	pressure films	0, es

¹Horizon nomenclature and carbonate stage follow Birkeland (1999) and references therein.²Structure codes: Strength/abundance—1-3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy. S.g., single grain.³Dry consistence codes: lo, loose; so, soft; sh, slightly hard; h, hard; vh, very hard.⁴Wet consistence codes: so, non-sticky; vss, very slightly sticky; ss, slightly sticky; s, sticky; vs, very sticky; po, non-plastic; pss, very slightly plastic; ps, slightly plastic; p, plastic; vp, very plastic.⁵Clay film codes: Abundance—1-3; v1, very few. Thickness—n, thin. Location—br, grain bridge; po, pore filling; pf, ped face; co, grain coat.⁶Carbonate codes: e, effervesces weakly; es, effervesces strongly; ev, effervesces violently.

Table 2c-1. Soil description of the 9U-21 graben fill exposure.

Horizon ¹	Depth (cm)	Dry color	Moist color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , other cements ⁶
Graben fill exposure 9U-21								
A	0-5	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Bwk	5-25	n.d.	n.d.	1f sbk	n.d.	n.d.	n.d.	0, es
2Btk1b1	25-70	n.d.	n.d.	2f-m sbk	n.d.	n.d.	n.d.	II+
2Btk2b1	70-90	n.d.	n.d.	3f sbk	n.d.	n.d.	n.d.	II+
2Btk3b1	90-115	n.d.	n.d.	1-2 f sbk	n.d.	n.d.	n.d.	I, e
2Bwk1b1	115-128	n.d.	n.d.	2 f sbk	n.d.	n.d.	n.d.	II
2Bwk2b1	128-148	n.d.	n.d.	2f sbk	n.d.	n.d.	n.d.	I
2Bkb1	148-168	n.d.	n.d.	s.g.	n.d.	n.d.	n.d.	I-II
2Ckb1	168-210	n.d.	n.d.	s.g.	n.d.	n.d.	n.d.	0, e
3Bwkb2	210-225	n.d.	n.d.	1f sbk	n.d.	n.d.	n.d.	0-I
3Bkb2	225-250	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	I
3Cb2	250-300	n.d.	n.d.	single grain	n.d.	n.d.	n.d.	0
3Btjkb3	300-375	n.d.	n.d.	n.d.	n.d.	n.d.	present	I-, es
3Bkb3	375-440+	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	I

¹Horizon nomenclature and carbonate stage follow Birkeland (1999) and references therein.

²Structure codes: Strength/abundance—1-3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy. S.g., single grain.

³Dry consistence codes: lo, loose; so, soft; sh, slightly hard; h, hard; vh, very hard.

⁴Wet consistence codes: so, non-sticky; vss, very slightly sticky; ss, slightly sticky; s, sticky; vs, very sticky; po, non-plastic; pss, very slightly plastic; ps, slightly plastic; p, plastic; vp, very plastic.

⁵Clay film codes: Abundance—1-3; v1, very few. Thickness—n, thin. Location—br, grain bridge; po, pore filling; pf, ped face; co, grain coat.

⁶Carbonate codes: e, effervesces weakly; es, effervesces strongly; ev, effervesces violently.

Table 3. Summary data

This table lists common soils laboratory data and chemical and magnetic properties completed.

[**Sample #:** Unique sample number (e.g., 00U-41A/0-10); presented as sample designation (00U-41), transect sampling location (A), and depth in centimeters (0-10).

Hygroscopic moisture factor: A laboratory measure of soil moisture at or near field conditions (driest conditions when values are closest to 1).

CaCO₃ %: Calcium Carbonate percent measured using a Chittick Apparatus (Singer and Janitzky, 1986).

Sand, Silt, Clay %: Sand, Silt and Clay percents determined using a laser particle size analyzer. For detailed particle size data, see Table 4.

Chemistry completed: Samples for which chemical analysis has been completed. Samples were analyzed by ICP-AES and ICP-MS techniques. Refer to appropriate table for specific chemistry data.

Magnetic properties completed: Samples for which magnetic properties were determined. One column lists the magnetic properties that were determined for the <2 mm size fraction and the other column lists the magnetic properties that were determined for the <63-μm size fraction. Refer to appropriate table for specific magnetic property data.

n.d.: Not determined]

Table 3a-1. Summary data for 00U-29 transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
00U-29A/0-10	0.99	0.95	62.29	31.13	6.58	n.d.	MS	n.d.
00U-29A/10-30	0.99	5.08	61.93	31.44	6.63	n.d.	MS	n.d.
00U-29A/30-50	0.99	4.55	55.86	34.75	9.39	n.d.	MS	n.d.
00U-29B/0-10	0.99	1.11	54.11	37.57	8.32	n.d.	MS	n.d.
00U-29B/10-30	0.99	3.22	55.47	35.64	8.89	n.d.	MS	n.d.
00U-29B/30-50	0.99	4.28	52.89	37.08	10.03	n.d.	MS	n.d.
00U-29C/0-10	0.99	0.56	60.86	32.66	6.48	n.d.	MS	n.d.
00U-29C/10-30	0.99	2.85	56.89	34.82	8.30	n.d.	MS	n.d.
00U-29C/30-50	0.99	3.61	60.55	31.38	8.07	n.d.	MS	n.d.
00U-29D/0-10	0.99	0.91	60.34	33.06	6.60	n.d.	MS	n.d.
00U-29D/10-30	0.99	3.74	60.27	32.02	7.71	n.d.	MS	n.d.
00U-29D/30-50	0.99	4.37	58.04	34.26	7.70	n.d.	MS	n.d.
00U-29E/0-10	0.99	0.76	61.98	32.39	5.63	n.d.	MS	n.d.
00U-29E/10-30	0.99	3.45	55.89	34.79	9.32	n.d.	MS	n.d.
00U-29E/30-50	0.99	3.77	53.71	36.28	10.02	n.d.	MS	n.d.

Table 3a-2. Summary data for 00U-30 transect

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-30A/0-10	0.99	5.60	81.76	10.95	7.28	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30A/10-30	0.99	20.59	71.77	20.00	8.24	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30A/30-40	0.99	16.01	55.09	12.63	3.88	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30B/0-10	0.99	2.18	76.69	18.12	5.19	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30B/10-30	0.99	3.34	78.28	17.49	4.24	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30B/30-50	0.99	5.64	71.05	22.87	6.08	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30C/0-10	0.99	6.69	77.00	15.53	7.47	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30C/10-30	0.99	6.37	74.89	17.55	7.55	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30C/30-46	0.99	4.96	72.87	18.14	9.00	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30C/46-62	0.99	5.99	76.34	16.86	6.80	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30C/62-81	0.99	7.21	79.14	12.71	8.15	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30C/81-93	0.99	6.80	75.50	16.58	7.92	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30C/93-104	0.99	6.77	81.45	12.07	6.48	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30C/104-118	0.99	6.47	76.79	15.46	7.75	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30C/118-128	0.99	6.96	81.69	14.78	3.53	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30C/128-142	0.99	7.97	72.83	22.51	4.66	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30D/0-10	0.99	1.16	73.01	21.93	5.06	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30D/10-30	0.99	2.23	75.99	18.01	6.01	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30D/30-50	0.99	4.69	76.62	19.09	4.29	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30E/0-10	0.99	1.55	66.88	26.96	6.20	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30E/10-30	0.99	3.75	69.81	24.02	6.18	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30E/30-50	0.99	5.55	64.25	27.60	8.16	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30F/0-10	0.99	1.87	72.85	20.21	6.94	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30F/10-30	0.99	4.73	74.23	20.77	5.01	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30F/30-50	0.99	5.30	75.75	16.61	7.64	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30G/0-10	0.99	2.73	60.90	32.44	6.66	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30G/10-30	0.99	3.06	65.00	27.91	7.10	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30G/30-50	0.99	5.38	65.05	28.31	6.64	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30H/0-10	0.99	2.12	67.17	26.40	6.42	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30H/10-30	0.99	4.41	60.12	31.59	8.30	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30H/30-50	0.99	4.53	59.02	31.16	9.82	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30I/0-10	0.99	1.73	67.99	26.31	5.70	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30I/10-30	0.99	4.53	60.81	32.07	7.12	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30I/30-50	0.99	4.81	60.63	31.36	8.00	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30J/0-10	0.99	1.85	67.50	24.36	8.13	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30J/10-30	0.99	5.17	68.08	21.36	10.56	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30J/30-50	0.99	3.88	74.54	15.60	9.86	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30K/0-10	0.99	0.91	62.67	29.66	7.67	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30K/10-30	0.99	5.11	63.14	29.02	7.84	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30K/30-50	0.99	3.52	64.25	27.60	8.16	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30L/10-30	0.99	4.26	69.02	24.50	6.48	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30L/30-50	0.99	3.56	66.59	26.22	7.19	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30M/0-10	0.99	1.83	64.14	26.49	9.37	ICP-MS, ICP-AES	MS, ARM, IRM	MS, ARM, IRM
00U-30M/10-30	0.99	4.98	64.59	26.48	8.94	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30M/30-47	0.99	5.11	66.34	24.84	8.82	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30M/47-61	0.99	4.27	73.65	18.91	7.44	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30M/61-74	0.99	3.45	68.01	23.19	8.71	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30M/74-89	0.99	2.35	74.33	17.22	8.45	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30M/89-106	0.99	1.68	63.52	25.98	10.50	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30M/106-118	0.99	8.65	53.25	34.23	12.52	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30M/118-131	0.99	10.78	61.77	28.28	9.95	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.
00U-30M/131-144	0.99	8.29	61.64	28.61	9.75	ICP-MS, ICP-AES	MS, ARM, IRM	n.d.

Table 3a-3. Summary data for VP-1 soil pit.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
VP1/0-6	0.99	4.63	70.80	23.84	5.36	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP1/6-19	0.99	6.21	62.41	28.43	9.16	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP1/19-30	0.99	6.32	65.64	26.09	8.27	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP1/30-55	0.99	7.77	75.18	18.60	6.22	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP1/55-66	0.99	7.02	63.42	28.36	8.22	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP1/66-78	0.99	7.02	63.97	28.20	7.83	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP1/80-90	0.99	14.59	80.13	15.48	4.39	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM

Table 3a-4. Summary data for VP-2 soil pit.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
VP2/0-5	0.99	5.86	64.80	29.41	5.79	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP2/5-14	0.99	7.19	60.07	31.04	8.89	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP2/14-44	0.99	7.10	65.89	26.46	7.65	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP2/44-55	0.99	7.04	68.69	23.71	7.60	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP2/55-85	0.99	7.67	61.42	28.55	10.03	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
VP2/110-115	0.99	10.41	68.52	23.05	8.43	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM

Table 3a-5. Summary data for 8U-13 arroyo exposure.

Sample #¹	Hygroscopic moisture factor	CaCO₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed	Magnetic properties (<63-Microns) completed
8U-13/0-5	0.99	3.73	76.26	19.00	4.74	n.d.	n.d.	n.d.
8U-13/35	0.98	7.74	89.11	9.06	1.82	n.d.	n.d.	n.d.
8U-13/45-65	0.98	7.20	91.16	5.90	2.94	n.d.	n.d.	n.d.
8U-13/70	0.99	1.34	56.20	32.60	11.20	n.d.	n.d.	n.d.
8U-13/90	0.99	3.03	73.33	24.68	1.98	n.d.	n.d.	n.d.
8U-13/130	0.99	9.19	76.94	20.98	2.08	n.d.	n.d.	n.d.

¹Samples were collected over depth intervals or at discrete depths, in centimeters.

Table 3a-6. Summary data for 8U-14 arroyo exposure

Sample #¹	Hygroscopic moisture factor	CaCO₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed	Magnetic properties (<63-Microns) completed
8U-14/15	0.99	8.84	86.64	9.32	4.04	n.d.	n.d.	n.d.
8U-14/60	0.98	7.95	86.01	12.71	1.28	n.d.	n.d.	n.d.
8U-14/75	0.99	7.29	84.84	14.02	1.14	n.d.	n.d.	n.d.
8U-14/135	0.99	4.29	91.69	7.39	0.93	n.d.	n.d.	n.d.

¹Samples were collected at discrete depths, in centimeters.

Table 3a-7. Summary data for 8U-10 auger hole.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
8U-10/0-22	0.98	1.17	58.75	30.36	10.89	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/22-36	0.97	5.17	59.63	29.15	11.23	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/36-47	0.99	4.19	58.35	29.08	12.57	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/47-58	0.96	3.69	55.63	32.08	12.28	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/58-65	0.97	3.56	52.27	35.49	12.24	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/65-74	0.98	9.28	50.93	35.39	13.68	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/74-83	0.98	12.06	52.80	34.73	12.48	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/83-90	0.97	11.43	52.87	34.48	12.65	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/90-99	0.97	10.28	54.19	33.04	12.77	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/99-112	0.97	10.69	60.20	27.82	11.99	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/112-121	0.98	13.19	62.14	25.65	12.21	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/121-131	0.98	12.01	63.41	24.83	11.76	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/131-142	0.97	10.57	63.66	24.73	11.61	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/142-154	0.97	11.27	64.57	26.26	9.17	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/154-165	0.98	7.04	57.79	32.36	9.86	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/165-175	0.98	7.49	56.76	30.52	12.72	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/175-184	0.98	6.79	63.94	23.91	12.15	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/184-197	0.97	5.13	63.89	24.03	12.08	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/197-209	0.97	5.7	69.30	20.58	10.13	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/209-220	0.99	6.95	73.84	17.18	8.98	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/220-230	0.97	7.85	78.35	13.97	7.68	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/230-241	0.99	9.72	81.85	11.96	6.19	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/241-249	0.98	7.6	77.08	15.33	7.60	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/249-261	0.98	11.22	81.01	12.62	6.38	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/261-270	0.98	8.77	77.24	15.30	7.46	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/270-274	0.96	6.94	81.47	11.90	6.63	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-10/274-284	0.97	7.48	85.23	9.48	5.29	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.

Table 3a-8. Summary data for 8U-11 auger hole.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
8U-11/0-22	0.98	1.16	68.63	22.28	9.09	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/22-38	0.98	4.87	73.06	17.27	9.67	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/38-50	0.98	3.52	81.32	13.88	4.80	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/50-62	0.98	2.6	45.88	35.01	19.11	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/62-71	0.98	5.49	64.86	25.89	9.25	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/71-86	0.98	11.16	66.67	24.47	8.86	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/86-98	0.98	11.6	73.03	18.53	8.44	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/98-109	0.96	10.82	73.64	16.47	9.89	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/109-118	0.98	10.42	72.24	18.96	8.80	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/118-131	0.98	12.19	80.64	15.91	3.46	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/131-139	0.97	6.96	83.21	11.80	4.98	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/139-151	0.98	6.02	85.43	10.46	4.10	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/151-161	0.98	4.91	77.95	11.22	10.84	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/161-172	0.97	4.58	76.50	18.94	4.57	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/172-183	0.97	4.14	72.16	19.96	7.88	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/183-196	0.98	3.96	71.82	18.46	9.72	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/196-210	0.98	4.81	72.68	20.25	7.07	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/210-224	0.98	6.44	73.65	14.44	11.91	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/224-237	0.96	5.28	74.83	18.66	6.51	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/237-251	0.98	4.98	72.57	18.76	8.67	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/251-265	0.98	3.35	75.81	15.24	8.96	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
8U-11/265-278	0.98	4.35	76.05	16.51	7.43	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.

Table 3a-9. Summary data for 8U-12 auger hole.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
8U-12/0-13	0.99	2.16	88.87	9.48	1.66	n.d.	MS, IRM, ARM	n.d.
8U-12/13-27	0.99	5.17	87.16	11.27	1.58	n.d.	MS, IRM, ARM	n.d.
8U-12/27-37	0.98	5.61	67.49	27.13	5.39	n.d.	MS, IRM, ARM	n.d.
8U-12/37-48	0.99	4.07	62.82	27.27	9.92	n.d.	MS, IRM, ARM	n.d.
8U-12/48-60	0.98	4.91	61.60	25.90	12.50	n.d.	MS, IRM, ARM	n.d.
8U-12/60-71	0.99	3.77	91.47	7.48	1.05	n.d.	MS, IRM, ARM	n.d.
8U-12/71-83	0.99	7.5	89.99	8.92	1.08	n.d.	MS, IRM, ARM	n.d.
8U-12/83-96	0.99	11.33	51.24	34.93	13.84	n.d.	MS, IRM, ARM	n.d.
8U-12/96-106	0.99	13.41	63.67	25.89	10.45	n.d.	MS, IRM, ARM	n.d.
8U-12/106-116	0.99	13.02	84.59	12.83	2.58	n.d.	MS, IRM, ARM	n.d.
8U-12/116-128	0.99	12.92	91.42	6.50	2.08	n.d.	MS, IRM, ARM	n.d.
8U-12/128-137	0.99	10.19	82.79	13.38	3.83	n.d.	MS, IRM, ARM	n.d.
8U-12/137-147	0.99	8.05	77.29	15.23	7.49	n.d.	MS, IRM, ARM	n.d.
8U-12/147-158	0.99	6.37	82.23	14.66	3.12	n.d.	MS, IRM, ARM	n.d.
8U-12/158-170	0.99	6.79	88.17	9.51	2.32	n.d.	MS, IRM, ARM	n.d.
8U-12/170-180	0.99	6.05	87.38	9.88	2.74	n.d.	MS, IRM, ARM	n.d.
8U-12/180-191	0.99	6.65	72.24	17.81	9.95	n.d.	MS, IRM, ARM	n.d.
8U-12/191-203	0.99	5.89	74.17	19.08	6.75	n.d.	MS, IRM, ARM	n.d.
8U-12/203-216	0.99	6.66	63.38	20.88	15.74	n.d.	MS, IRM, ARM	n.d.
8U-12/216-227	0.99	6.03	76.50	16.54	6.97	n.d.	MS, IRM, ARM	n.d.
8U-12/227-239	0.99	6.5	72.23	18.31	9.47	n.d.	MS, IRM, ARM	n.d.
8U-12/239-251	0.99	8	n.d.	n.d.	n.d.	n.d.	MS, IRM, ARM	n.d.
8U-12/251-262	0.99	7.88	80.72	11.07	8.22	n.d.	MS, IRM, ARM	n.d.
8U-12/262-273	0.99	6.86	86.72	9.33	3.95	n.d.	MS, IRM, ARM	n.d.
8U-12/273-279	0.99	11.09	81.06	9.97	8.97	n.d.	MS, IRM, ARM	n.d.
8U-12/279-290	0.99	13.09	73.23	19.03	7.74	n.d.	MS, IRM, ARM	n.d.
8U-12/290-299	0.99	9.1	74.67	19.29	6.04	n.d.	MS, IRM, ARM	n.d.
8U-12/299-310	0.99	7.65	75.06	11.05	13.89	n.d.	MS, IRM, ARM	n.d.
8U-12/310-317	0.99	7.74	74.99	13.34	11.67	n.d.	MS, IRM, ARM	n.d.

Table 3a-10. Summary data for 9U-22 auger hole.

Sample #.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
9U-22/0-15	0.99	3.03	58.44	35.09	6.48	n.d.	MS, IRM, ARM	n.d.
9U-22/15-27	0.99	4.01	24.67	63.19	12.14	n.d.	MS, IRM, ARM	n.d.
9U-22/27-41	0.99	4.86	39.63	50.90	9.47	n.d.	MS, IRM, ARM	n.d.
9U-22/41-53	0.99	4.64	34.03	55.48	10.49	n.d.	MS, IRM, ARM	n.d.
9U-22/53-67	0.99	6.31	44.73	47.42	7.86	n.d.	MS, IRM, ARM	n.d.
9U-22/67-75	0.99	9.83	57.34	33.87	8.80	n.d.	MS, IRM, ARM	n.d.
9U-22/75-87	0.99	12.28	65.03	27.09	7.87	n.d.	MS, IRM, ARM	n.d.
9U-22/87-97	0.99	12.38	67.23	25.74	7.03	n.d.	MS, IRM, ARM	n.d.
9U-22/97-107	0.99	11.19	73.86	19.20	6.94	n.d.	MS, IRM, ARM	n.d.
9U-22/107-116	0.99	9.67	71.48	20.98	7.53	n.d.	MS, IRM, ARM	n.d.
9U-22/116-124	0.99	7.83	73.25	20.30	6.45	n.d.	MS, IRM, ARM	n.d.
9U-22/124-136	0.99	6.47	69.88	24.60	5.53	n.d.	MS, IRM, ARM	n.d.
9U-22/136-146	0.99	5.24	76.40	16.96	6.64	n.d.	MS, IRM, ARM	n.d.
9U-22/146-156	0.99	3.82	82.01	11.98	6.01	n.d.	MS, IRM, ARM	n.d.
9U-22/156-165	0.99	4.08	73.63	19.26	7.12	n.d.	MS, IRM, ARM	n.d.
9U-22/165-178	0.99	3.66	70.40	22.28	7.33	n.d.	MS, IRM, ARM	n.d.
9U-22/178-190	0.99	3.11	59.39	32.22	8.39	n.d.	MS, IRM, ARM	n.d.
9U-22/190-204	0.99	3.15	71.43	21.46	7.11	n.d.	MS, IRM, ARM	n.d.
9U-22/204-216	0.99	3.50	68.15	24.29	7.55	n.d.	MS, IRM, ARM	n.d.
9U-22/216-229	0.99	4.17	63.59	27.80	8.61	n.d.	MS, IRM, ARM	n.d.
9U-22/229-240	0.99	5.04	68.66	24.74	6.60	n.d.	MS, IRM, ARM	n.d.
9U-22/240-254	0.99	5.62	67.56	24.75	7.69	n.d.	MS, IRM, ARM	n.d.
9U-22/254-265	0.99	4.80	73.04	20.90	6.07	n.d.	MS, IRM, ARM	n.d.
9U-22/265-274	0.99	4.83	70.27	22.58	7.16	n.d.	MS, IRM, ARM	n.d.
9U-22/274-283	0.99	4.68	77.23	16.03	6.74	n.d.	MS, IRM, ARM	n.d.
9U-22/283-295	0.99	3.29	67.55	23.69	8.76	n.d.	MS, IRM, ARM	n.d.
9U-22/295-305	0.99	3.51	69.68	21.88	8.43	n.d.	MS, IRM, ARM	n.d.
9U-22/305-314	0.99	7.62	65.22	27.25	7.53	n.d.	MS, IRM, ARM	n.d.
9U-22/314-325	0.99	12.04	67.24	25.78	6.98	n.d.	MS, IRM, ARM	n.d.
9U-22/325-335	0.99	15.61	68.74	24.15	7.11	n.d.	MS, IRM, ARM	n.d.
9U-22/335-343	0.99	18.53	69.35	24.86	5.79	n.d.	MS, IRM, ARM	n.d.
9U-22/343-354	0.99	19.98	71.07	21.67	7.26	n.d.	MS, IRM, ARM	n.d.
9U-22/354-364	0.99	16.36	70.58	21.33	8.01	n.d.	MS, IRM, ARM	n.d.
9U-22/364-372	0.99	14.50	68.29	24.20	7.51	n.d.	MS, IRM, ARM	n.d.
9U-22/372-383	0.99	11.60	73.75	19.32	6.93	n.d.	MS, IRM, ARM	n.d.

Table 3a-11. Summary data for 9U-23 auger hole.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
9U-23/0-22	0.99	2.14	76.40	19.09	4.51	n.d.	MS, IRM, ARM	n.d.
9U-23/22-23	0.99	2.63	70.95	24.44	4.62	n.d.	MS, IRM, ARM	n.d.
9U-23/33-46	0.99	5.04	74.14	20.73	5.14	n.d.	MS, IRM, ARM	n.d.
9U-23/46-58	0.99	6.03	72.18	22.72	5.09	n.d.	MS, IRM, ARM	n.d.
9U-23/58-67	0.99	10.58	69.48	25.59	4.93	n.d.	MS, IRM, ARM	n.d.
9U-23/67-75	0.99	13.49	69.62	25.87	4.51	n.d.	MS, IRM, ARM	n.d.
9U-23/75-83	0.99	14.03	72.66	22.27	5.06	n.d.	MS, IRM, ARM	n.d.
9U-23/83-96	0.99	13.63	72.88	21.50	5.62	n.d.	MS, IRM, ARM	n.d.
9U-23/96-105	0.99	12.58	76.78	19.05	4.17	n.d.	MS, IRM, ARM	n.d.
9U-23/105-115	0.99	10.42	79.13	16.94	3.93	n.d.	MS, IRM, ARM	n.d.
9U-23/115-125	0.99	7.97	77.23	17.63	5.14	n.d.	MS, IRM, ARM	n.d.
9U-23/125-138	0.99	5.55	77.93	17.37	4.71	n.d.	MS, IRM, ARM	n.d.
9U-23/138-148	0.99	6.27	72.92	19.65	7.44	n.d.	MS, IRM, ARM	n.d.
9U-23/148-159	0.99	4.41	74.44	18.47	7.09	n.d.	MS, IRM, ARM	n.d.
9U-23/159-171	0.99	3.10	75.17	16.27	8.56	n.d.	MS, IRM, ARM	n.d.
9U-23/171-182	0.99	4.37	68.66	25.65	5.69	n.d.	MS, IRM, ARM	n.d.
9U-23/182-192	0.99	3.21	70.39	23.96	5.65	n.d.	MS, IRM, ARM	n.d.
9U-23/192-201	0.99	4.65	71.92	23.43	4.65	n.d.	MS, IRM, ARM	n.d.
9U-23/201-208	0.99	9.37	75.41	19.09	5.51	n.d.	MS, IRM, ARM	n.d.
9U-23/208-218	0.99	10.35	75.26	19.97	4.77	n.d.	MS, IRM, ARM	n.d.
9U-23/218-228	0.99	12.36	78.17	16.32	5.51	n.d.	MS, IRM, ARM	n.d.
9U-23/228-236	0.99	12.06	78.46	16.53	5.01	n.d.	MS, IRM, ARM	n.d.
9U-23/236-248	0.99	5.64	75.68	17.68	6.64	n.d.	MS, IRM, ARM	n.d.
9U-23/248-260	0.99	8.44	78.36	17.01	4.64	n.d.	MS, IRM, ARM	n.d.
9U-23/260-270	0.99	7.19	77.94	15.40	6.67	n.d.	MS, IRM, ARM	n.d.
9U-23/270-280	0.99	5.73	77.74	17.18	5.08	n.d.	MS, IRM, ARM	n.d.
9U-23/280-290	0.99	10.41	77.41	15.75	6.84	n.d.	MS, IRM, ARM	n.d.
9U-23/290-298	0.99	11.11	82.89	12.75	4.36	n.d.	MS, IRM, ARM	n.d.

Table 3a-12. Summary data for 00U-27 auger hole.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed	Magnetic properties (<63-Microns) completed
00U-27/0-10	0.99	1.24	64.20	29.24	6.56	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/10-30	0.99	3.91	83.79	11.45	4.76	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/30-50	0.99	4.88	63.34	28.44	8.22	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/50-65	0.99	4.25	52.90	38.14	8.96	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/65-84	0.99	3.33	51.66	38.48	9.85	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/84-100	0.99	2.30	51.86	38.51	9.63	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/100-116	0.99	2.26	51.05	38.12	10.83	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/116-128	0.99	4.49	54.09	36.14	9.77	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/128-141	0.99	10.52	61.12	31.23	7.65	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/141-156	0.99	9.62	66.23	26.58	7.19	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/156-168	0.99	11.01	68.18	24.88	6.93	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/168-179	0.99	11.60	68.03	24.90	7.07	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/179-194	0.99	11.24	70.29	22.65	7.07	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/194-208	0.99	10.06	73.00	20.57	6.43	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/208-221	0.99	9.90	72.96	19.82	7.22	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/221-233	0.99	10.41	73.06	19.92	7.03	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/233-242	0.99	9.98	73.96	19.12	6.92	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/242-252	0.99	10.95	75.21	18.02	6.77	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/242-265	0.99	9.27	73.22	18.83	7.95	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/265-274	0.99	8.07	76.41	17.18	6.42	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/274-283	0.99	7.28	77.10	16.66	6.24	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/283-291	0.99	6.14	68.40	23.42	8.18	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/291-301	0.99	8.16	61.47	26.87	11.67	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/301-313	0.99	9.07	59.22	26.86	13.92	ICP-AES, ICP-MS	n.d.	n.d.
00U-27/313-324	0.99	6.41	71.54	20.37	8.09	ICP-AES, ICP-MS	n.d.	n.d.

Table 3a-13. Summary data for 00U-31 auger hole.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-31/0-10	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/30-47	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/47-57	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/57-70	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/70-80	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/80-91	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/91-100	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/100-113	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/113-124	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/124-134	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-31/134-146	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM

Table 3a-14. Summary data for 00U-31 auger hole.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-33/0-10	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-33/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-33/30-47	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-33/47-61	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-33/61-73	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM
00U-33/73-89	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS, ARM, IRM	MS, ARM, IRM

Table 3b-1. Summary data for 01U-1 transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
01U-1A/0-10	0.99	9.49	69.89	25.58	4.52	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1A/10-30	0.99	8.44	73.93	21.81	4.26	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1A/30-50	0.99	8.60	72.91	22.50	4.58	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1B/0-10	0.99	11.62	59.12	35.19	5.69	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1B/10-30	0.99	8.80	73.51	21.72	4.77	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1B/30-50	0.99	6.83	75.82	19.90	4.28	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1C/0-10	0.99	9.50	69.55	25.50	4.95	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1C/10-30	0.99	9.93	71.61	23.41	4.98	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1C/30-50	0.99	12.81	81.64	11.90	6.46	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1D/0-10	0.99	4.55	65.91	27.41	6.69	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1D/10-30	0.99	9.85	75.56	20.80	3.65	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1D/30-50	0.99	8.42	74.29	21.34	4.37	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1E/0-10	0.99	7.12	78.97	18.03	3.00	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1E/10-30	0.99	10.03	81.06	15.27	3.67	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1E/30-50	0.99	26.99	88.23	9.29	2.48	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1F/0-10	0.99	8.77	78.25	18.34	3.41	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1F/10-30	0.99	18.22	83.40	13.69	2.91	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM
01U-1F/30-50	0.99	24.04	81.54	15.41	3.05	ICP-AES, ICP-MS	MS, IRM, ARM	MS, IRM, ARM

Table 3b-2. Summary data for the 04U transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
04U-21A/0-10	0.99	11.39	51.59	37.60	10.81	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
04U-21B/10-30	0.99	9.81	58.69	33.32	8.00	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
04U-22A/0-10	0.99	10.66	53.12	33.98	12.91	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
04U-22B/10-30	0.99	9.76	69.69	21.75	8.56	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
04U-23A/0-10	0.99	12.73	42.87	43.07	14.06	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
04U-23B/10-30	0.99	13.66	44.94	41.19	13.87	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
04U-24A/0-10	0.99	12.59	44.77	42.18	12.42	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
04U-24B/10-30	0.99	8.44	74.11	19.48	6.41	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.

Table 3c-1. Summary data for auger hole 00U-38. This auger hole anchors the 00U-39 transect.

Sample #	Hygroscopic Moisture Factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
00U-38/0-10	0.99	3.72	83.43	10.03	6.55	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/10-30	0.99	4.44	87.51	6.22	6.27	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/30-44	0.99	4.44	84.54	8.28	7.17	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/44-57	0.99	3.87	74.13	18.28	7.60	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/57-74	0.99	3.50	81.55	11.74	6.72	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/74-96	0.99	5.29	81.90	11.52	6.58	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/96-115	0.99	6.35	79.08	11.67	9.25	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/115-140	0.99	6.02	82.64	14.29	3.07	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/140-156	0.99	7.35	82.57	11.11	6.33	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/156-185	0.99	6.61	91.58	5.64	2.78	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/185-207	0.99	7.62	92.43	5.22	2.35	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/207-229	0.99	6.51	92.85	5.50	1.65	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-38/229-242	0.99	7.95	92.39	5.72	1.90	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.

Table 3c-2. Summary data for transect 00U-39.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-39A/0-10	0.98	4.36	95.76	2.80	1.43	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39A/10-30	0.99	4.20	96.76	1.86	1.38	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39A/30-50	0.99	4.42	96.32	2.29	1.31	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39B/0-10	0.99	4.12	93.79	3.52	2.69	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39B/10-30	0.99	3.94	88.07	7.96	3.97	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39B/30-50	0.99	5.20	79.17	17.23	3.6	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39C/0-10	0.99	4.27	74.14	21.69	4.17	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39C/10-30	0.99	5.57	81.73	12.77	5.51	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39C/30-50	0.99	6.21	84.97	9.65	5.38	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39D/0-10	0.99	3.80	97.08	1.76	1.16	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39D/10-30	0.99	5.38	96.46	2.05	1.41	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39D/30-50	0.99	4.93	96.02	2.44	1.51	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39E/0-10	0.99	4.27	86.34	8.24	5.42	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39E/10-30	0.99	5.60	70.8	24.1	5.11	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39E/30-50	0.99	6.11	62.16	32.63	5.21	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39F/0-10	0.99	4.64	81.48	14.96	3.56	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39F/10-30	0.99	4.29	88.18	7.61	4.2	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39F/30-50	0.99	5.53	76.67	17.56	5.77	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39G/0-10	0.99	4.28	95.94	2.64	1.26	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39G/10-30	0.99	6.18	93.11	4.88	1.98	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39G/30-50	0.99	6.74	92.57	5.27	2.07	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39H/0-10	0.99	3.78	64.77	30.44	4.79	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39H/10-30	0.99	5.45	77.59	16.64	5.77	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39H/30-50	0.99	7.15	50.05	42.87	7.09	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39I/0-10	0.99	4.37	65.95	29.55	4.51	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39I/10-30	0.99	7.10	74.62	18.88	6.5	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39I/30-50	0.99	4.07	57.88	35.02	7.1	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39J/0-10	0.99	3.93	78.11	18.86	3.04	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39J/10-30	0.99	7.08	81.77	14.37	3.87	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39J/30-50	0.99	6.74	66.65	29.37	3.98	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39K/0-10	0.99	5.03	91.25	6.69	2.06	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39K/10-30	0.99	7.75	89.53	8.02	2.45	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39K/30-50	0.99	8.56	80.40	14.93	4.67	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39L/0-10	0.99	4.81	71.49	25.22	3.3	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39L/10-30	0.99	7.88	72.39	23.03	4.58	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39L/30-50	0.99	9.43	71.61	21.82	6.57	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39M/0-10	0.99	6.61	77.22	17.89	4.89	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39M/10-30	0.99	8.11	71.41	24.29	4.3	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39M/30-50	0.99	8.54	74.81	21.09	4.1	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39N/0-10	0.99	6.90	77.24	16.75	6.01	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39N/10-30	0.99	6.88	74.47	19.7	5.83	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39N/30-50	0.99	9.80	71.26	21.79	6.95	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39O/0-10	0.99	8.37	86.34	9.88	3.79	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-39O/10-30	0.99	8.88	81.19	13.16	5.65	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-39O/30-50	0.99	8.87	69.90	20.67	9.43	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.

Table 3c-3. Summary data for auger hole 00U-40. This auger hole anchors the 00U-39 transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-40/0-10	0.99	10.34	62.52	26.56	10.92	ICP-MS, ICP-AES	MS, IRM, ARM	MS
00U-40/10-30	0.99	11.69	57.05	30.48	12.48	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/30-48	0.99	10.29	64.88	24.11	11.01	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/48-64	0.99	11.42	62.62	27.21	10.17	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/64-82	0.97	14.01	52.70	35.94	11.36	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/82-102	0.99	14.76	47.69	37.69	14.62	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/102-121	0.99	8.36	65.46	26.00	8.54	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/121-142	0.99	5.72	86.85	9.79	3.36	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/142-154	0.99	6.09	88.68	8.48	2.84	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/154-168	0.99	7.61	91.64	6.33	2.03	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/168-183	0.99	5.28	88.56	9.19	2.26	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/183-193	0.99	11.09	91.84	6.02	2.14	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/192-204	0.99	34.34	93.01	5.01	1.99	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.
00U-40/204-217	0.99	25.40	91.97	5.31	2.72	ICP-MS, ICP-AES	MS, IRM, ARM	n.d.

Table 3d-1. Summary data for the 00U-35 transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic proper- ties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-35A/0-10	0.99	6.91	82.61	12.46	4.92	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35A/10-30	0.99	8.10	77.84	17.72	4.44	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35A/30-50	0.99	8.33	82.45	12.98	4.57	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35B/0-10	0.99	3.65	81.26	13.16	5.59	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35B/10-30	0.99	5.73	81.15	14.35	4.50	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35B/30-50	0.99	6.01	77.27	17.50	5.23	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35C/0-10	0.99	6.05	81.67	13.83	4.50	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35C/10-30	0.99	6.10	78.87	16.48	4.66	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35C/30-50	0.99	7.23	76.94	17.67	5.39	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35D/0-10	0.99	4.95	85.61	11.05	3.34	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35D/10-30	0.99	5.67	78.11	17.41	4.48	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35D/30-50	0.99	6.35	77.36	17.00	5.65	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35E/0-10	0.99	5.07	74.91	18.48	6.61	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35E/10-30	0.99	6.67	70.70	23.12	6.18	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35E/30-50	0.97	8.48	82.25	13.76	3.99	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35F/0-10	0.99	6.90	54.69	33.69	11.62	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35F/10-30	0.99	8.60	51.59	34.83	13.58	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35F/30-50	0.99	8.33	55.00	33.45	11.55	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35G/0-10	0.99	5.53	62.21	26.30	11.50	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35G/10-30	0.99	7.23	60.93	27.84	11.23	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35G/30-50	0.99	7.79	59.17	28.83	11.99	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35H/0-10	0.99	6.62	48.12	37.19	14.69	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35H/10-30	0.99	6.44	40.02	39.50	20.47	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-35H/30-50	0.99	8.02	40.16	37.78	22.06	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM

Table 3d-2. Summary data for auger hole 00U-36. This auger hole anchors the 00U-35 transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-36/0-10	0.99	5.09	87.19	9.11	3.69	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-36/10-30	0.99	7.45	58.48	33.01	8.51	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-36/30-46	0.99	7.56	81.55	13.56	4.88	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-36/46-68	0.99	7.89	79.58	15.04	5.38	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-36/68-86	0.99	8.20	78.41	15.78	5.81	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-36/86-97	0.99	13.24	71.52	21.68	6.80	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-36/97-108	0.99	11.85	77.62	17.06	5.32	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-36/108-120	0.99	11.84	72.76	21.50	5.74	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-36/120-130	0.99	14.97	81.08	14.01	4.92	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM

Table 3d-3. Summary data for auger hole 00U-37. This auger hole anchors the 00U-35 transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-37/0-10	0.99	9.99	36.71	38.48	24.81	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/10-30	0.99	10.41	38.09	37.85	24.06	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/30-43	0.99	9.20	42.13	34.69	23.19	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/43-55	0.99	6.23	56.59	25.66	17.75	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/55-68	0.99	12.84	70.96	17.41	11.64	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/68-80	0.99	7.81	80.40	11.90	7.70	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/80-94	0.99	6.41	85.18	8.93	5.89	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/94-110	0.99	33.28	61.47	26.08	12.46	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/110-120	0.99	20.89	58.48	30.67	10.84	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/120-131	0.99	11.63	81.41	12.78	5.81	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/131-139	0.99	17.66	83.34	11.71	4.96	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/139-148	0.99	12.28	82.92	11.62	5.47	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM
00U-37/148-155	0.99	12.12	71.72	18.96	9.32	ICP-MS, ICP-AES	MS, IRM, ARM	MS, IRM, ARM

Table 3d-4. Summary data for the JN-1 soil pit.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
JN-1/ 0-10	0.99	4.23	77.01	17.64	5.35	n.d.	MS	MS
JN-1/ 10-26	0.99	6.55	73.12	19.78	7.10	n.d.	MS	MS
JN-1/ 26-77	0.99	8.13	64.19	28.12	7.70	n.d.	MS	MS
JN-1/ 77-93	0.99	7.96	70.97	21.45	7.58	n.d.	MS	MS
JN-1/ 93-110	0.99	12.29	66.53	25.39	8.09	n.d.	MS	MS

Table 3d-5. Summary data for the JN-2 soil pit.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
JN-2/ 0-7	0.99	2.86	79.75	15.21	5.04	n.d.	MS	MS
JN-2/ 7-14	0.99	2.64	76.91	17.58	5.51	n.d.	MS	MS
JN-2/ 14-41	0.98	5.62	64.70	25.24	10.06	n.d.	MS	MS
JN-2/ 41-64	0.98	5.03	67.04	23.05	9.91	n.d.	MS	MS
JN-2/ 64-86	0.99	5.03	71.28	19.90	8.83	n.d.	MS	MS
JN-2/ 86-100	0.99	9.08	71.95	19.67	8.38	n.d.	MS	MS

Table 3d-6. Summary data for the JN-3 soil pit.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
JN-3/ 0-7	0.99	6.48	51.00	33.87	15.13	n.d.	MS	MS
JN-3/ 7-36	0.98	7.85	46.48	34.84	18.68	n.d.	MS	MS
JN-3/ 36-52	0.99	6.51	56.78	27.14	16.08	n.d.	MS	MS
JN-3/ 52-83	0.99	8.92	74.49	14.93	10.58	n.d.	MS	MS
JN-3/ 83-100	0.99	5.25	73.77	17.75	8.48	n.d.	MS	MS

Table 3e-1. Summary data for the GP transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
GP-A/0-10	0.84	1.05	89.88	6.76	3.35	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-A/10-30	0.99	0.34	90.67	6.51	2.82	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-A/30-50	0.99	2.06	89.58	7.28	3.14	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-B/0-10	0.99	0.81	86.55	8.49	4.96	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-B/10-30	0.99	2.12	87.65	8.54	3.81	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-B/30-50	0.99	4.51	89.58	7.11	3.31	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-C/0-10	0.99	0.65	88.91	7.23	3.87	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-C/10-30	0.99	0.96	84.25	10.81	4.94	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-C/30-50	0.99	1.78	86.25	10.27	3.48	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-D/0-10	0.99	0.68	84.76	10.64	4.60	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-D/10-30	0.99	0.14	87.05	9.18	3.77	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-D/30-50	0.99	2.27	85.74	10.04	4.23	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-E/0-10	0.99	0.34	87.57	8.28	4.15	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-E/10-30	0.99	0.81	84.99	10.61	4.40	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-E/30-50	0.99	0.16	86.41	9.55	4.05	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-F/0-10	0.99	0.62	85.17	9.61	5.22	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-F/10-30	0.99	1.16	86.65	9.36	3.99	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-F/30-50	0.99	2.67	87.30	9.13	3.57	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-G/0-10	0.99	0.07	86.21	8.47	5.32	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-G/10-30	0.99	1.71	85.78	9.67	4.56	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-G/30-50	0.99	2.06	84.42	11.27	4.31	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-H/0-10	0.99	1.59	82.31	11.66	6.04	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-H/10-30	0.99	2.05	84.45	11.09	4.46	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-H/30-50	0.99	2.29	86.30	9.54	4.16	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-I/0-10	0.99	0.19	79.65	14.66	5.69	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-I/10-30	0.99	1.52	82.92	12.37	4.70	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-I/30-50	0.99	2.24	84.29	11.26	4.45	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-J/0-10	0.99	0.60	86.85	7.95	5.21	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-J/10-30	0.99	2.20	82.30	12.52	5.19	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-J/30-50	0.99	1.84	81.70	13.07	5.24	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-K/0-10	0.99	0.07	77.51	15.10	7.40	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-K/10-30	0.99	0.58	79.40	14.64	5.96	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.
GP-K/30-50	0.99	1.09	77.95	16.26	5.80	ICP-AES, ICP-MS	MS, IRM, ARM	n.d.

Table 3f-1. Summary data for the 00U-41 transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-41A/0-10	0.98	6.33	95.42	3.09	1.48	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-41A/10-25	0.99	5.54	88.93	9.25	1.82	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41B/0-10	0.99	5.43	95.17	3.49	1.35	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-41B/10-25	0.99	10.01	95.30	2.97	1.73	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41B/25-45	0.97	16.45	94.71	3.44	1.85	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41C/0-10	0.99	5.55	97.35	1.66	0.99	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-41C/10-20	0.99	5.85	96.89	1.87	1.24	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41C/20-30	0.99	6.46	96.49	2.11	1.40	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41D/0-10	0.99	3.03	96.14	2.61	1.26	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-41D/10-30	0.99	5.62	73.77	21.08	5.15	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41D/30-50	0.99	7.03	77.19	18.68	4.13	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41E/0-10	0.99	3.54	84.62	11.76	3.62	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-41E/10-30	0.99	4.56	80.21	15.86	3.93	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41E/30-50	0.99	7.93	68.93	23.37	7.70	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41F/0-10	0.99	4.18	87.35	9.82	2.83	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-41F/10-30	0.99	4.96	90.32	7.16	2.52	ICP-AES	MS, ARM, IRM	n.d.
00U-41F/30-50	0.99	9.35	72.46	18.31	9.23	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41G/0-10	0.99	2.80	93.38	4.95	1.67	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-41G/10-30	0.99	4.66	89.73	7.90	2.38	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41G/30-50	0.99	6.57	80.52	13.27	6.21	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41H1/0-10	0.99	4.46	87.11	9.94	2.96	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-41H1/10-30	0.99	7.65	86.90	10.03	3.07	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41H1/30-50	0.99	11.62	88.16	9.13	2.71	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41H2/0-10	0.99	4.94	88.80	8.20	3.01	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-41H2/10-30	0.99	5.45	85.61	10.84	3.55	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-41H2/30-50	0.99	6.43	95.25	3.38	1.37	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.

Table 3f-2. Summary data for auger hole 00U-42. This auger hole anchors the 00U-41 transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-42/0-10	0.97	4.29	97.01	1.87	1.03	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-42/10-30	0.99	4.95	97.00	1.84	1.16	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-42/30-50	0.99	6.75	95.52	3.03	1.45	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-42/50-63	0.99	6.02	95.16	3.41	1.44	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-42/63-74	0.99	7.50	94.14	4.32	1.54	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-42/74-87	0.99	10.44	76.90	20.16	2.94	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-42/87-95	0.99	9.62	77.83	19.27	2.90	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-42/95-106	0.99	12.03	81.03	16.37	2.60	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-42/106-119	0.99	10.16	85.30	11.84	2.86	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-42/119-125	0.99	9.11	67.25	28.97	3.78	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-42/125-133	0.99	10.44	74.08	22.88	3.04	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.

Table 3f-3. Summary data for auger hole 00U-43. This auger hole anchors the 00U-41 transect.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed (see Table 5)	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed (see Table 6)
00U-43/0-10	0.99	4.93	84.14	13.48	2.38	ICP-AES, ICP-MS	MS, ARM, IRM	MS
00U-43/10-25	0.99	6.47	81.95	13.69	4.36	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-43/25-34	0.99	7.57	85.92	10.47	3.60	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-43/34-48	0.99	9.13	94.27	4.02	1.72	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-43/48-55	0.99	14.67	70.69	25.15	4.16	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-43/55-64	0.98	29.04	80.13	16.56	3.30	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-43/64-76	0.99	25.33	89.72	7.95	2.33	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-43/76-86	0.98	23.76	55.39	38.51	6.01	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-43/86-96	0.99	23.85	78.31	18.39	3.30	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-43/96-108	0.99	15.66	61.43	31.47	7.01	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.
00U-43/108-114	0.99	15.37	79.06	16.70	4.24	ICP-AES, ICP-MS	MS, ARM, IRM	n.d.

Table 3g-1. Summary data for auger hole 8U-18.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
8U-18/0-18	0.98	17.92	22.35	61.12	16.53	n.d.	MS	n.d.
8U-18/18-28	0.99	15.97	9.67	70.66	19.68	n.d.	MS	n.d.
8U-18/28-37	0.97	15.16	13.29	62.33	24.38	n.d.	MS	n.d.
8U-18/37-50	0.99	10.39	44.07	42.16	13.77	n.d.	MS	n.d.
8U-18/50-61	0.98	19.94	13.79	67.02	19.19	n.d.	MS	n.d.
8U-18/61-72	0.99	18.05	1.70	67.04	31.26	n.d.	MS	n.d.
8U-18/72-84	0.99	23.60	7.78	65.35	26.87	n.d.	MS	n.d.
8U-18/84-95	0.99	19.72	4.54	68.68	26.78	n.d.	MS	n.d.
8U-18/95-105	0.99	19.17	0.75	67.26	31.99	n.d.	MS	n.d.
8U-18/105-119	0.99	11.95	37.33	46.89	15.78	n.d.	MS	n.d.
8U-18/119-131	0.99	16.46	2.00	71.73	26.27	n.d.	MS	n.d.
8U-18/131-141	0.99	16.62	0.56	61.98	37.46	n.d.	MS	n.d.
8U-18/141-155	0.99	18.64	0.06	62.94	37.00	n.d.	MS	n.d.
8U-18/155-166	0.99	19.87	1.63	71.59	26.78	n.d.	MS	n.d.
8U-18/166-173	0.99	17.10	7.89	69.01	23.10	n.d.	MS	n.d.
8U-18/173-187	0.99	25.43	16.98	57.71	25.31	n.d.	MS	n.d.
8U-18/187-198	0.99	13.58	59.84	28.89	11.27	n.d.	MS	n.d.
8U-18/198-212	0.98	10.22	83.95	11.32	4.73	n.d.	MS	n.d.
8U-18/212-228	0.99	10.32	84.46	11.60	3.94	n.d.	MS	n.d.
8U-18/228-241	0.99	11.19	80.12	16.61	3.28	n.d.	MS	n.d.
8U-18/241-254	0.99	10.18	79.87	14.69	5.44	n.d.	MS	n.d.
8U-18/254-266	0.99	10.21	76.08	18.10	5.82	n.d.	MS	n.d.
8U-18/266-280	0.99	10.88	79.13	14.93	5.94	n.d.	MS	n.d.
8U-18/280-290	0.99	11.73	84.08	11.56	4.36	n.d.	MS	n.d.
8U-18/290-298	0.99	9.33	81.77	14.45	3.78	n.d.	MS	n.d.
8U-18/298-309	0.99	11.29	79.09	15.90	5.01	n.d.	MS	n.d.
8U-18/309-322	0.99	11.33	79.10	16.64	4.26	n.d.	MS	n.d.
8U-18/322-333	0.99	13.05	59.70	30.34	9.96	n.d.	MS	n.d.
8U-18/333-344	0.99	10.91	66.95	26.09	6.95	n.d.	MS	n.d.
8U-18/344-355	0.99	13.42	68.23	24.35	7.42	n.d.	MS	n.d.
8U-18/355-367	0.99	14.38	73.56	19.98	6.46	n.d.	MS	n.d.
8U-18/367-378	0.99	17.24	64.30	28.44	7.27	n.d.	MS	n.d.
8U-18/378-391	0.98	15.82	74.05	20.89	5.06	n.d.	MS	n.d.
8U-18/391-400	0.99	12.01	78.81	14.63	6.57	n.d.	MS	n.d.

Table 3g-2. Summary data for auger hole 8U-20.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
8U-20/0-18	0.99	20.01	5.71	64.30	29.99	n.d.	MS	n.d.
8U-20/18-26	0.99	24.47	3.33	69.24	27.43	n.d.	MS	n.d.
8U-20/26-35	0.99	19.52	2.48	61.43	36.09	n.d.	MS	n.d.
8U-20/35-45	0.99	22.28	1.19	63.19	35.63	n.d.	MS	n.d.
8U-20/45-54	0.97	19.06	2.53	58.39	39.08	n.d.	MS	n.d.
8U-20/54-65	0.99	17.25	30.66	43.04	26.30	n.d.	MS	n.d.
8U-20/65-76	0.99	12.10	69.69	21.09	9.23	n.d.	MS	n.d.
8U-20/76-88	0.99	16.47	63.20	31.83	4.98	n.d.	MS	n.d.
8U-20/88-102	0.98	15.41	61.20	29.44	9.35	n.d.	MS	n.d.
8U-20/102-124	0.99	9.29	76.89	16.72	6.39	n.d.	MS	n.d.
8U-20/124-136	0.99	7.53	92.00	4.18	3.82	n.d.	MS	n.d.
8U-20/136-147	0.99	8.00	92.17	4.29	3.54	n.d.	MS	n.d.
8U-20/147-159	0.99	8.67	91.96	5.08	2.96	n.d.	MS	n.d.
8U-20/159-168	0.99	13.18	74.76	20.43	4.81	n.d.	MS	n.d.
8U-20/168-182	0.99	16.41	55.96	36.96	7.08	n.d.	MS	n.d.
8U-20/182-194	0.99	16.43	76.05	18.08	5.87	n.d.	MS	n.d.
8U-20/194-207	0.99	12.17	69.88	23.57	6.54	n.d.	MS	n.d.
8U-20/207-218	0.99	24.08	40.02	45.11	14.87	n.d.	MS	n.d.
8U-20/218-230	0.99	21.44	11.03	65.38	23.59	n.d.	MS	n.d.
8U-20/230-240	0.99	19.27	4.53	59.21	36.27	n.d.	MS	n.d.
8U-20/240-251	0.99	19.49	6.15	58.62	35.23	n.d.	MS	n.d.
8U-20/251-261	0.99	15.82	33.07	49.26	17.67	n.d.	MS	n.d.
8U-20/261-272	0.99	15.67	33.21	53.47	13.32	n.d.	MS	n.d.
8U-20/272-282	0.98	18.13	13.66	63.56	22.78	n.d.	MS	n.d.
8U-20/282-290	0.99	18.05	10.81	63.23	25.96	n.d.	MS	n.d.
8U-20/290-298	0.99	17.17	19.42	58.97	21.61	n.d.	MS	n.d.
8U-20/298-311	0.99	18.23	9.54	63.20	27.26	n.d.	MS	n.d.
8U-20/311-321	0.98	23.28	10.58	63.60	25.82	n.d.	MS	n.d.
8U-20/321-335	0.99	27.09	9.02	62.27	28.72	n.d.	MS	n.d.
8U-20/335-346	0.99	17.48	20.45	65.45	23.10	n.d.	MS	n.d.
8U-20/346-358	0.99	12.55	17.91	58.30	23.79	n.d.	MS	n.d.
8U-20/358-370	0.99	20.54	33.17	49.01	17.82	n.d.	MS	n.d.
8U-20/370-380	0.99	19.47	34.84	51.47	13.70	n.d.	MS	n.d.
8U-20/380-389	0.99	15.01	48.28	41.79	9.93	n.d.	MS	n.d.
8U-20/389-400	0.99	22.23	20.90	59.15	19.94	n.d.	MS	n.d.

Table 3h-2. Summary data for auger hole 8U-16.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
8U-16/0-22	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.
8U-16/22-36	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.
8U-16/36-51	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.
8U-16/51-63	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.
8U-16/63-76	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.
8U-16/76-89	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.
8U-16/89-103	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.
8U-16/103-117	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.
8U-16/117-131	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.
8U-16/131-148	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.
8U-16/148-158	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	MS	n.d.

Table 3h-3. Summary data for auger hole 9U-21.

Sample #	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Chemistry (<2mm) completed	Magnetic properties (<2mm) completed (see Table 6)	Magnetic properties (<63-Microns) completed
9U-21/0-5	0.99	6.78	68.82	26.16	5.03	n.d.	MS, ARM, IRM	n.d.
9U-21/5-25	0.99	8.60	61.62	32.32	6.06	n.d.	MS, ARM, IRM	n.d.
9U-21/25-70	0.99	12.40	73.80	21.90	4.31	n.d.	MS, ARM, IRM	n.d.
9U-21/70-90	0.99	11.93	68.39	26.61	4.99	n.d.	MS, ARM, IRM	n.d.
9U-21/90-115	0.99	9.48	75.77	19.40	4.83	n.d.	MS, ARM, IRM	n.d.
9U-21/115-128	0.99	13.44	76.70	18.75	4.55	n.d.	MS, ARM, IRM	n.d.
9U-21/128-148	0.99	10.65	74.92	20.37	4.72	n.d.	MS, ARM, IRM	n.d.
9U-21/148-168	0.99	7.45	70.74	23.05	6.21	n.d.	MS, ARM, IRM	n.d.
9U-21/168-201	0.99	6.68	77.99	17.40	4.61	n.d.	MS, ARM, IRM	n.d.
9U-21/210-225	0.99	8.73	75.20	19.83	4.97	n.d.	MS, ARM, IRM	n.d.
9U-21/225-250	0.99	8.16	79.83	17.60	2.57	n.d.	MS, ARM, IRM	n.d.
9U-21/250-300	0.99	6.45	84.60	13.49	1.91	n.d.	MS, ARM, IRM	n.d.
9U-21/300-345	0.99	8.85	82.65	15.31	2.04	n.d.	MS, ARM, IRM	n.d.
9U-21/345-375	0.99	10.98	82.79	13.55	3.66	n.d.	MS, ARM, IRM	n.d.
9U-21/375-440	0.99	10.03	84.58	13.44	1.98	n.d.	MS, ARM, IRM	n.d.

Table 4. Particle size data

This table contains high-resolution particle-size data obtained using a laser particle size analyzer. In most cases, the particle size is displayed in accordance to the Wentworth scale (Wentworth, 1922); however, in a few instances the USDA scale (Soil Survey Staff, 1975) was used.

Values are reported as volume percent. Each value corresponds to the volume percent of the sample that has a grain size falling within that range.

Table 4a-1. Particle size data for the 00U-29 transect.

	Microns	00U-29A			00U-29B			00U-29C			00U-29D			00U-29E		
		0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		354	297	0.02	0.02	0.03	0.02	0.02	0.01	0.03	0.00	0.02	0.02	0.01	0.02	0.00
		297	250	1.09	1.01	1.36	0.90	0.86	0.72	1.31	0.08	0.90	0.79	0.72	1.07	0.08
	Fine	250	210	2.69	2.63	2.73	1.88	1.97	1.71	2.59	1.71	2.02	1.83	1.79	2.12	1.61
		210	177	4.33	4.28	4.16	3.24	3.56	3.13	4.28	3.50	3.60	3.31	3.34	3.55	3.17
		177	149	6.40	6.36	5.85	5.02	5.68	5.07	6.32	5.62	5.68	5.30	5.50	5.37	5.02
		149	125	8.63	8.63	7.63	7.12	8.22	7.45	8.53	8.17	8.13	7.71	8.18	7.48	7.20
	Very fine	125	105	10.15	10.15	8.80	8.77	10.17	9.41	9.95	10.22	10.01	9.62	10.38	9.06	8.88
		105	88	10.98	10.96	9.45	9.91	11.39	10.78	10.58	11.56	11.20	10.89	11.89	10.08	9.99
		88	74	9.87	9.84	8.62	9.30	10.40	10.08	9.38	10.63	10.24	10.09	11.01	9.31	9.77
		74	63	8.12	8.07	7.24	7.97	8.59	8.53	7.60	8.85	8.47	8.48	9.16	7.84	8.00
	Coarse	63	53	7.32	7.24	6.71	7.46	7.66	7.81	6.76	7.95	7.58	7.71	8.15	7.20	7.34
		53	44	6.12	6.06	5.87	6.54	6.31	6.62	5.66	6.57	6.26	6.51	6.65	6.18	6.35
		44	37	4.16	4.15	4.24	4.70	4.26	4.58	3.93	4.42	4.21	4.50	4.41	4.36	4.55
	Medium	37	31.2	2.91	2.94	3.19	3.50	2.98	3.28	2.86	3.06	2.92	3.22	3.02	3.19	3.38
		31.2	26.3	2.01	2.42	2.63	2.63	2.11	2.35	2.12	2.12	2.03	2.31	2.07	2.36	2.53
		26.3	22.1	1.45	1.54	1.90	2.03	1.54	1.73	1.62	1.50	1.46	1.70	1.45	1.80	1.94
		22.1	18.6	1.07	1.16	1.50	1.58	1.16	1.28	1.26	1.09	1.07	1.27	1.03	1.39	1.51
	Silt	18.6	15.6	0.89	0.96	1.30	1.35	0.97	1.05	1.07	0.89	0.89	1.04	0.83	1.18	1.27
		15.6	13.1	0.78	0.84	1.15	1.19	0.85	0.90	0.93	0.78	0.79	0.90	0.72	1.04	1.11
		13.1	11	0.74	0.77	1.07	1.11	0.80	0.84	0.85	0.75	0.76	0.83	0.67	0.97	1.03
	Fine	11	9.3	0.69	0.70	0.98	1.02	0.74	0.78	0.78	0.71	0.72	0.77	0.63	0.90	0.94
		9.3	7.8	0.69	0.69	0.98	1.02	0.75	0.79	0.78	0.72	0.74	0.78	0.64	0.92	0.95
		7.8	6.6	0.62	0.62	0.89	0.92	0.68	0.73	0.71	0.66	0.68	0.71	0.57	0.85	0.87
		6.6	5.5	0.63	0.63	0.93	0.95	0.70	0.76	0.75	0.69	0.71	0.74	0.59	0.90	0.92
	Very fine	5.5	4.6	0.57	0.56	0.86	0.85	0.63	0.71	0.70	0.63	0.66	0.68	0.53	0.83	0.85
		4.6	3.9	0.49	0.48	0.75	0.72	0.53	0.62	0.61	0.54	0.57	0.58	0.44	0.73	0.75
	Coarse	3.9	3.3	0.46	0.46	0.72	0.68	0.51	0.60	0.60	0.52	0.56	0.57	0.42	0.72	0.73
		3.3	2.8	0.44	0.44	0.68	0.64	0.49	0.58	0.58	0.49	0.54	0.54	0.41	0.69	0.71
		2.8	2.3	0.52	0.52	0.79	0.73	0.57	0.69	0.69	0.58	0.65	0.64	0.48	0.82	0.84
		2.3	1.95	0.42	0.43	0.64	0.58	0.46	0.57	0.57	0.48	0.53	0.53	0.40	0.67	0.69
	Medium	1.95	1.64	0.43	0.43	0.63	0.57	0.46	0.57	0.57	0.47	0.54	0.53	0.40	0.66	0.69
		1.64	1.38	0.41	0.42	0.60	0.54	0.44	0.55	0.54	0.45	0.52	0.51	0.39	0.63	0.66
		1.38	1.16	0.38	0.39	0.55	0.49	0.40	0.50	0.49	0.41	0.47	0.46	0.35	0.57	0.60
		1.16	0.98	0.33	0.34	0.48	0.42	0.33	0.43	0.42	0.35	0.41	0.40	0.30	0.50	0.53
	Clay	0.98	0.82	0.32	0.34	0.47	0.41	0.32	0.43	0.42	0.34	0.41	0.40	0.29	0.49	0.53
		0.82	0.69	0.29	0.33	0.42	0.39	0.32	0.43	0.41	0.33	0.40	0.40	0.29	0.47	0.52
		0.69	0.58	0.30	0.34	0.43	0.41	0.35	0.46	0.44	0.35	0.42	0.43	0.31	0.49	0.54
		0.58	0.49	0.32	0.37	0.44	0.44	0.38	0.50	0.47	0.38	0.45	0.46	0.34	0.51	0.57
	Very fine	<0.49		1.98	1.82	2.55	2.04	1.44	1.96	1.87	1.46	1.84	1.85	1.24	2.01	2.42

Table 4a-2. Particle size data for the 00U-30 transect—Continued.

	Microns	00U-30D			00U-30E			00U-30F			00U-30G			00U-30H		
		0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.73	0.16	0.00	0.43	1.31	2.11	0.00	0.00	0.00	0.00	0.00	0.00
Silt	Very fine	354	297	1.27	2.81	1.68	0.52	2.34	3.23	4.20	0.03	0.07	0.70	0.03	0.03	0.48
		297	250	3.30	4.80	3.30	2.31	4.24	4.91	6.11	1.66	1.96	2.49	1.63	1.63	2.03
	Fine	250	210	5.46	6.94	5.42	4.15	6.27	6.73	8.11	3.23	3.75	4.33	3.50	3.14	3.62
		210	177	7.60	8.73	7.54	5.88	7.99	8.23	9.27	4.85	5.58	6.03	5.42	4.71	5.12
		177	149	9.69	10.15	9.79	7.73	9.43	9.39	9.99	6.70	7.60	7.82	7.67	6.50	6.78
		149	125	11.32	10.94	11.79	9.35	10.40	10.09	9.63	8.57	9.50	9.35	9.89	8.34	8.32
		125	105	10.79	9.97	11.50	10.01	9.76	9.36	8.46	9.73	10.48	9.94	11.13	9.45	9.13
	Very fine	105	88	9.66	8.70	10.44	9.46	8.84	8.43	7.34	9.71	10.06	9.41	10.78	9.97	8.89
		88	74	7.97	7.05	8.63	8.26	7.45	7.01	5.88	8.94	8.88	8.29	9.53	8.95	8.03
		74	63	5.97	5.18	6.37	6.58	5.70	5.45	4.31	7.49	7.12	6.69	7.59	7.41	6.62
Clay	Coarse	63	53	4.96	4.19	5.10	5.79	4.80	4.63	3.53	6.88	6.26	5.99	6.57	6.77	6.04
		53	44	3.94	3.19	3.80	4.80	3.78	3.71	2.78	5.93	5.16	5.07	5.28	5.82	5.20
		44	37	2.66	2.05	2.36	3.34	2.47	2.48	1.88	3.41	3.51	3.58	3.48	4.12	3.74
		37	31.2	1.93	1.42	1.55	2.45	1.71	1.75	1.39	3.11	2.50	2.65	2.39	3.01	2.81
	Medium	31.2	26.3	1.46	1.05	1.06	1.85	1.22	1.27	1.08	2.30	1.81	1.99	1.66	2.21	2.15
		26.3	22.1	1.15	0.85	0.77	1.45	0.92	0.97	0.89	1.74	1.37	1.53	1.19	1.65	1.70
		22.1	18.6	0.92	0.71	0.60	1.16	0.73	0.77	0.73	1.32	1.05	1.18	0.87	1.24	1.35
	Fine	18.6	15.6	0.79	0.65	0.53	1.00	0.64	0.67	0.64	1.08	0.89	0.98	0.71	1.01	1.16
		15.6	13.1	0.68	0.59	0.49	0.88	0.58	0.61	0.56	0.92	0.79	0.83	0.62	0.86	1.03
	Very fine	13.1	11	0.61	0.54	0.47	0.80	0.55	0.58	0.51	0.83	0.74	0.75	0.58	0.79	0.95
		11	9.3	0.53	0.49	0.43	0.72	0.50	0.55	0.46	0.75	0.68	0.67	0.53	0.72	0.88
		9.3	7.8	0.52	0.49	0.43	0.72	0.51	0.58	0.46	0.76	0.69	0.67	0.54	0.73	0.89
	Very fine	7.8	6.6	0.46	0.45	0.39	0.66	0.46	0.54	0.42	0.69	0.63	0.62	0.50	0.68	0.82
		6.6	5.5	0.48	0.48	0.41	0.70	0.49	0.59	0.45	0.71	0.66	0.65	0.53	0.72	0.88
		5.5	4.6	0.45	0.45	0.38	0.67	0.46	0.57	0.44	0.65	0.62	0.61	0.50	0.68	0.83
		4.6	3.9	0.40	0.41	0.33	0.60	0.41	0.52	0.40	0.56	0.54	0.53	0.45	0.60	0.74
	Coarse	3.9	3.3	0.39	0.40	0.33	0.59	0.48	0.44	0.39	0.54	0.53	0.52	0.45	0.59	0.73
		3.3	2.8	0.37	0.39	0.32	0.58	0.46	0.43	0.38	0.51	0.51	0.50	0.44	0.57	0.70
		2.8	2.3	0.44	0.45	0.38	0.69	0.47	0.60	0.45	0.58	0.60	0.58	0.54	0.67	0.83
		2.3	1.95	0.35	0.37	0.32	0.56	0.38	0.49	0.37	0.47	0.49	0.47	0.45	0.55	0.68
	Medium	1.95	1.64	0.35	0.37	0.31	0.56	0.39	0.50	0.38	0.46	0.48	0.47	0.45	0.56	0.68
		1.64	1.38	0.34	0.34	0.30	0.53	0.37	0.49	0.36	0.44	0.46	0.45	0.43	0.53	0.64
		1.38	1.16	0.31	0.32	0.27	0.49	0.35	0.47	0.34	0.40	0.42	0.41	0.40	0.49	0.59
		1.16	0.98	0.27	0.28	0.23	0.43	0.32	0.44	0.32	0.34	0.37	0.36	0.34	0.43	0.52
		0.98	0.82	0.27	0.27	0.23	0.43	0.31	0.44	0.32	0.34	0.36	0.35	0.34	0.43	0.51
		0.82	0.69	0.26	0.25	0.23	0.40	0.28	0.53	0.29	0.32	0.34	0.33	0.33	0.41	0.48
	Fine	0.69	0.58	0.28	0.25	0.25	0.41	0.29	0.03	0.31	0.33	0.36	0.34	0.35	0.43	0.49
		0.58	0.49	0.30	0.26	0.27	0.43	0.30	0.00	0.32	0.36	0.38	0.36	0.38	0.46	0.51
	Very fine	<0.49		1.15	2.07	0.88	2.06	2.67	0.00	3.41	1.59	1.82	1.51	1.53	2.19	2.49

Table 4a-2. Particle size data for the 00U-30 transect—Continued.

		Microns	00U-30M											
			0-10 cm	10-30 cm	30-47 cm	47-61 cm	61-74 cm	74-89 cm	89-106 cm	106-118 cm	118-131 cm	131-144 cm		
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Medium	595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		500	420	0.00	0.00	0.00	0.70	0.00	0.12	0.00	0.00	0.00	0.00	0.00
		420	354	0.37	0.98	1.13	2.44	1.20	1.75	0.55	0.00	0.00	0.00	0.00
Silt	Fine	354	297	2.47	3.54	2.71	4.24	3.01	4.24	2.16	0.00	0.00	0.68	0.00
		297	250	3.20	3.77	4.01	5.89	4.61	6.08	3.73	1.71	3.02	2.29	0.00
		250	210	4.70	5.17	5.59	7.63	6.29	8.00	5.37	3.15	4.55	3.95	0.00
		210	177	6.03	6.37	6.83	8.61	7.48	9.12	6.66	4.48	5.90	5.47	0.00
	Very fine	177	149	7.43	7.49	7.90	9.25	8.42	9.83	7.79	5.89	7.29	7.08	0.00
		149	125	8.63	8.46	8.73	9.05	8.99	9.52	8.64	7.25	8.43	8.58	0.00
		125	105	9.14	8.38	8.45	8.13	8.43	8.40	8.33	8.03	8.86	9.40	0.00
	Very fine	105	88	8.73	8.10	8.00	7.23	7.73	7.31	7.83	8.41	8.44	9.14	0.00
		88	74	7.78	7.34	7.11	5.98	6.27	5.86	6.90	7.62	7.52	8.26	0.00
		74	63	6.34	6.05	5.78	4.53	5.28	4.30	5.56	6.41	6.15	6.80	0.00
Clay	Coarse	63	53	5.70	5.52	5.21	3.85	4.68	3.52	4.99	6.03	5.58	6.15	0.00
		53	44	4.79	4.75	4.46	3.13	3.96	2.76	4.27	5.41	4.79	5.20	0.00
		44	37	3.31	3.38	3.17	2.18	2.83	1.86	3.07	4.04	3.42	3.60	0.00
		37	31.2	2.35	2.50	2.35	1.63	2.14	1.37	2.33	3.15	2.55	2.58	0.00
	Medium	31.2	26.3	1.68	1.85	1.75	1.27	1.65	1.08	1.81	2.49	1.94	1.86	0.00
		26.3	22.1	1.24	1.40	1.33	1.03	1.32	0.90	1.46	2.02	1.53	1.40	0.00
		22.1	18.6	0.94	1.06	1.01	0.84	1.04	0.77	1.18	1.64	1.23	1.08	0.00
	Fine	18.6	15.6	0.81	0.88	0.83	0.74	0.88	0.70	1.03	1.43	1.08	0.94	0.00
		15.6	13.1	0.74	0.76	0.71	0.65	0.75	0.63	0.90	1.27	0.96	0.85	0.00
		13.1	11	0.72	0.70	0.65	0.59	0.67	0.58	0.82	1.16	0.89	0.81	0.00
Clay	Very fine	11	9.3	0.70	0.65	0.59	0.54	0.59	0.53	0.74	1.05	0.80	0.75	0.00
		9.3	7.8	0.73	0.66	0.60	0.54	0.58	0.53	0.74	1.03	0.79	0.75	0.00
		7.8	6.6	0.69	0.61	0.55	0.49	0.53	0.49	0.67	0.93	0.71	0.69	0.00
		6.6	5.5	0.75	0.64	0.59	0.52	0.56	0.53	0.71	0.95	0.73	0.71	0.00
	Coarse	5.5	4.6	0.71	0.60	0.55	0.49	0.53	0.51	0.67	0.88	0.68	0.67	0.00
		4.6	3.9	0.64	0.53	0.49	0.44	0.48	0.47	0.59	0.76	0.59	0.59	0.00
		3.9	3.3	0.63	0.52	0.49	0.44	0.47	0.47	0.58	0.74	0.57	0.58	0.00
	Medium	3.3	2.8	0.61	0.50	0.47	0.42	0.46	0.46	0.56	0.70	0.55	0.56	0.00
		2.8	2.3	0.71	0.58	0.55	0.49	0.54	0.55	0.66	0.81	0.63	0.66	0.00
		2.3	1.95	0.58	0.47	0.45	0.40	0.45	0.45	0.54	0.65	0.52	0.54	0.00
Very fine	1.95	1.64	0.58	0.48	0.46	0.41	0.46	0.46	0.55	0.66	0.52	0.55	0.00	
	1.64	1.38	0.54	0.46	0.44	0.39	0.44	0.43	0.52	0.62	0.49	0.52	0.00	
	1.38	1.16	0.50	0.43	0.42	0.36	0.42	0.41	0.49	0.58	0.46	0.49	0.00	
	1.16	0.98	0.44	0.39	0.38	0.33	0.38	0.37	0.44	0.52	0.42	0.44	0.00	
	0.98	0.82	0.43	0.39	0.38	0.32	0.38	0.37	0.44	0.52	0.42	0.43	0.00	
Very fine	0.82	0.69	0.37	0.35	0.34	0.29	0.34	0.34	0.44	0.47	0.38	0.39	0.00	
	0.69	0.58	0.37	0.37	0.35	0.29	0.35	0.35	0.41	0.48	0.38	0.39	0.00	
	0.58	0.49	0.37	0.38	0.36	0.30	0.36	0.37	0.43	0.49	0.40	0.41	0.00	
	<0.49		3.25	3.62	3.73	3.01	3.68	3.45	4.49	5.29	4.21	3.81	0.00	

Table 4a-3. Particle size data for soil pits VP-1 and VP-2. Data is displayed in accordance with the USDA scale.

			VP-1							VP-2						
Microns			A	Bwk	B1tk	Bt2k	B31tkb	B32tkb	Bkb	Ak	Bw	Bwk	Btk1b	Btk2b	Bkb	
			0-6 cm	6-19 cm	19-30 cm	30-55 cm	55-66 cm	66-78 cm	80-90 cm	0-5 cm	5-14 cm	14-44 cm	44-55 cm	55-85 cm	110-115 cm	
Sand	Very coarse	2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Coarse	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Medium	500	0.71	1.41	1.43	2.01	1.24	1.16	7.11	1.32	1.51	2.19	4.50	3.61	5.74	
	Fine	250	37.12	33.16	34.26	43.26	32.77	32.79	50.06	32.62	31.01	35.01	39.26	33.44	40.32	
	Very fine	100	32.98	27.84	29.94	29.91	29.42	30.02	27.00	30.86	27.55	28.68	24.93	24.38	27.57	
Silt	Coarse	50	13.71	12.74	14.13	10.43	15.41	15.70	7.82	16.51	14.46	14.41	11.27	14.25	12.02	
	Medium	20	3.57	4.60	4.08	2.99	5.06	4.95	1.85	4.77	5.00	4.37	4.08	5.25	2.86	
	Fine	10	3.23	4.92	3.62	2.44	3.86	3.71	1.45	4.04	5.09	3.67	3.78	4.25	2.51	
	Very fine	5	3.34	6.17	4.27	2.74	4.03	3.84	1.53	4.09	6.49	4.01	4.58	4.80	2.68	
Clay	Coarse	2	1.88	3.56	2.71	1.88	2.51	2.40	1.08	2.12	3.65	2.45	2.66	2.94	1.82	
	Medium	1	1.45	2.41	2.23	1.70	2.16	2.06	1.04	1.51	2.29	2.04	1.94	2.47	1.54	
	Fine	<0.5	2.03	3.20	3.34	2.64	3.55	3.37	1.06	2.16	2.96	3.16	3.00	4.62	2.94	

Table 4a-4. Particle size data for arroyo exposure sites 8U-13 and 8U-14. Data is displayed in accordance with the USDA scale.

Microns			8U-13					8U-14					
			0-5 cm	35 cm	45-65 cm	70 cm	90 cm	130 cm	15 cm	60 cm	75 cm	135 cm	
Sand	Very coarse	2000	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	500	0.00	0.23	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Medium	500	250	4.99	22.62	28.51	6.48	11.12	16.38	12.58	9.47	12.42	18.86
	Fine	250	100	43.29	51.96	50.89	29.85	37.58	43.64	52.85	52.79	51.26	60.52
	Very fine	100	50	27.98	14.30	10.57	19.87	24.64	16.93	21.21	23.75	21.16	12.30
Silt	Coarse	50	20	11.30	3.92	2.02	13.77	14.69	7.03	4.48	6.36	6.46	2.14
	Medium	20	10	2.77	1.75	1.24	6.34	4.30	5.02	1.54	2.68	3.28	2.18
	Fine	10	5	2.30	1.47	1.12	5.83	2.96	5.00	1.42	1.91	2.39	1.64
	Very fine	5	2	2.63	1.92	1.51	6.67	2.74	3.93	1.87	1.76	1.89	1.43
Clay	Coarse	2	1	1.59	1.33	0.90	3.44	1.48	1.46	1.27	0.97	0.86	0.69
	Medium	1	0.5	1.18	0.50	0.67	2.26	0.51	0.62	0.98	0.31	0.28	0.24
	Fine	<0.49		1.97	0.00	1.37	5.50	0.00	0.00	1.80	0.00	0.00	0.00

Table 4a-5. Particle size data for auger hole 8U-10.

	Microns	8U-10															
		0-22 cm	22-36 cm	36-47 cm	47-58 cm	58-65 cm	65-74 cm	74-83 cm	83-90 cm	90-99 cm	99-112 cm	112-121 cm	121-131 cm	131-142 cm	142-154 cm	154-165 cm	165-175 cm
Sand	Very coarse	2000	1680	1414	1189	1000	841	707	595	500	420	354	297	250	210	177	149
	Coarse	1000	841	707	595	500	420	354	297	250	210	177	149	125	105	88	74
	Medium	500	420	354	297	250	210	177	149	125	105	88	74	63	53	44	37
	Fine	250	210	177	149	125	105	88	74	63	53	44	37	31.2	26.3	22.1	18.6
	Very fine	125	105	88	74	63	53	44	37	31.2	26.3	22.1	18.6	15.6	13.1	11	9.3
		63	53	44	37	31.2	26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6
		53	44	37	31.2	26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9
		44	37	31.2	26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3
		37	31.2	26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3	2.8
		31.2	26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3	2.8	2.3
Silt	Coarse	63	53	44	37	31.2	26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6
	Medium	53	44	37	31.2	26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9
	Fine	44	37	31.2	26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3
		37	31.2	26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3	2.8
		31.2	26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3	2.8	2.3
		26.3	22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3	2.8	2.3	1.95
		22.1	18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3	2.8	2.3	1.95	1.64
		18.6	15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3	2.8	2.3	1.95	1.64	1.38
		15.6	13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3	2.8	2.3	1.95	1.64	1.38	1.16
		13.1	11	9.3	7.8	6.6	5.5	4.6	3.9	3.3	2.8	2.3	1.95	1.64	1.38	1.16	0.98
Clay	Very fine	7.8	6.6	5.5	4.6	3.9	3.3	2.8	2.3	1.95	1.64	1.38	1.16	0.98	0.82	0.69	0.58
	Coarse	6.6	5.5	4.6	3.9	3.3	2.8	2.3	1.95	1.64	1.38	1.16	0.98	0.82	0.69	0.58	0.49
	Medium	5.5	4.6	3.9	3.3	2.8	2.3	1.95	1.64	1.38	1.16	0.98	0.82	0.69	0.58	0.49	>0.49
		4.6	3.9	3.3	2.8	2.3	1.95	1.64	1.38	1.16	0.98	0.82	0.69	0.58	0.49	>0.49	
		3.9	3.3	2.8	2.3	1.95	1.64	1.38	1.16	0.98	0.82	0.69	0.58	0.49	>0.49		
		3.3	2.8	2.3	1.95	1.64	1.38	1.16	0.98	0.82	0.69	0.58	0.49	>0.49			
		2.8	2.3	1.95	1.64	1.38	1.16	0.98	0.82	0.69	0.58	0.49	>0.49				
		2.3	1.95	1.64	1.38	1.16	0.98	0.82	0.69	0.58	0.49	>0.49					
		1.95	1.64	1.38	1.16	0.98	0.82	0.69	0.58	0.49	>0.49						
		1.64	1.38	1.16	0.98	0.82	0.69	0.58	0.49	>0.49							

		Microns	8U-10													
			175-184 cm	184-197 cm	197-209 cm	209-220 cm	220-230 cm	230-241 cm	241-249 cm	249-261 cm	261-270 cm	270-274 cm	274-284 cm			
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Coarse	1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Medium	707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		500	420	0.00	0.00	0.00	0.02	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.93	
		420	354	0.00	0.00	1.03	1.58	1.90	1.08	1.46	1.32	1.74	1.32	1.74	3.49	
Fine	354	297	1.52	1.72	2.91	3.84	4.43	3.99	3.90	4.08	3.17	4.62	6.19	8.63		
	297	250	3.28	3.42	5.84	6.67	6.78	6.78	6.09	6.78	5.61	7.20	8.63	10.76		
	250	210	5.14	5.25	6.41	7.79	8.84	9.49	8.36	9.33	8.13	9.67	10.76	11.69		
	210	177	6.73	6.79	7.73	9.00	10.08	11.11	9.74	10.95	9.89	11.15	11.69	11.36		
	177	149	8.21	8.18	8.83	9.84	10.80	11.99	10.64	11.88	11.15	11.48	11.36	10.07		
	149	125	9.49	9.22	9.55	9.64	10.25	11.29	10.29	11.18	10.92	9.00	8.29	6.45		
Silt	Very fine	125	105	9.01	8.87	8.88	8.57	8.74	8.86	9.30	9.50	9.00	8.29	6.45	4.52	
		105	88	8.29	8.17	7.92	7.46	7.26	7.59	7.61	7.28	7.99	7.28	6.45	4.52	
		88	74	7.03	6.94	6.53	5.95	5.49	5.51	5.90	5.37	6.06	5.29	4.52	2.85	
	Coarse	74	63	5.39	5.34	4.88	4.32	3.77	3.59	4.14	3.49	4.14	3.46	2.85	1.98	
		63	53	4.54	4.52	4.04	3.48	2.86	2.57	3.21	2.48	3.11	2.48	1.98	1.30	
		53	44	3.61	3.61	3.18	2.67	2.06	1.71	2.35	1.65	2.19	1.67	1.30	0.76	
	Medium	44	37	2.41	2.42	2.12	1.75	1.29	0.98	1.47	0.95	1.32	0.98	0.76	0.54	
		37	31.2	1.74	1.75	1.54	1.27	0.93	0.67	1.03	0.67	0.92	0.54	0.54	0.43	
		31.2	26.3	1.34	1.34	1.18	0.99	0.75	0.55	0.80	0.57	0.74	0.57	0.46	0.45	
		26.3	22.1	1.13	1.13	0.98	0.84	0.68	0.54	0.70	0.58	0.69	0.55	0.45	0.45	
Clay	Fine	22.1	18.6	1.01	0.86	0.74	0.69	0.61	0.55	0.64	0.64	0.70	0.55	0.43	0.41	
		18.6	15.6	0.98	0.98	0.81	0.69	0.61	0.55	0.64	0.64	0.70	0.55	0.43	0.41	
		15.6	13.1	0.95	0.97	0.78	0.65	0.58	0.54	0.63	0.63	0.69	0.53	0.41	0.39	
	Very fine	13.1	11	0.95	0.97	0.76	0.									

Table 4a-6. Particle size data for auger hole 8U-11.

		Microns	8U-11													
			0-22 cm	22-38 cm	38-50 cm	50-62 cm	62-71 cm	71-86 cm	86-98 cm	98-109 cm	109-118 cm	118-131 cm	131-139 cm	139-151 cm	151-161 cm	161-172 cm
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Medium	595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		500	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	1.68	0.94
Silt	Fine	354	297	0.41	2.15	0.00	1.13	1.53	0.84	1.63	1.94	1.88	3.67	4.30	3.41	4.89
		297	250	2.44	4.53	0.00	3.39	3.15	2.76	3.75	4.19	3.99	5.88	6.64	6.23	7.82
		250	210	4.50	7.07	0.64	5.74	4.87	4.74	6.01	6.58	6.25	8.24	8.99	9.16	10.52
		210	177	6.43	9.26	2.47	7.87	6.40	6.57	8.03	8.61	8.18	9.91	10.49	11.31	11.83
	Very fine	177	149	8.41	11.18	4.20	9.85	7.99	8.44	9.89	10.33	9.87	11.26	11.51	12.99	11.63
		149	125	10.10	12.43	6.10	11.34	9.23	9.94	11.23	11.37	10.98	11.28	11.17	12.79	10.11
		125	105	10.79	11.43	7.66	10.73	9.53	10.30	10.50	10.33	10.14	9.99	9.72	10.85	7.86
	Coarse	105	88	10.08	9.91	8.78	9.57	8.80	9.37	9.23	8.79	8.83	8.41	8.20	8.55	5.64
		88	74	8.69	7.84	8.74	7.79	7.51	7.80	7.41	6.79	7.05	6.36	6.25	5.90	3.69
		74	63	6.79	5.53	7.29	5.65	5.87	5.90	5.34	4.69	5.09	4.36	4.28	3.65	2.28
Clay	Coarse	63	53	5.79	4.19	6.84	4.43	5.01	4.94	4.22	3.54	4.05	3.32	3.20	2.48	1.63
		53	44	4.54	2.87	6.04	3.19	4.23	3.92	3.13	2.46	3.05	2.41	2.22	1.57	1.17
		44	37	2.87	1.59	4.37	1.88	2.98	2.64	1.96	1.43	1.96	1.52	1.29	0.85	0.79
		37	31.2	1.86	0.92	3.25	1.19	2.24	1.93	1.34	0.91	1.38	1.01	0.83	0.53	0.66
	Medium	31.2	26.3	1.21	0.58	2.41	0.82	1.74	1.51	0.99	0.64	1.05	0.89	0.58	0.43	0.64
		26.3	22.1	0.84	0.45	1.81	0.67	1.42	1.28	0.82	0.55	0.88	0.81	0.47	0.44	0.65
		22.1	18.6	0.63	0.40	1.36	0.61	1.17	1.12	0.71	0.53	0.78	0.76	0.41	0.49	0.64
	Fine	18.6	15.6	0.56	0.41	1.13	0.62	1.03	1.05	0.68	0.58	0.74	0.76	0.39	0.53	0.62
		15.6	13.1	0.54	0.40	0.99	0.61	0.92	0.97	0.64	0.62	0.70	0.73	0.37	0.53	0.58
		13.1	11	0.54	0.38	0.94	0.59	0.84	0.90	0.61	0.67	0.67	0.70	0.34	0.51	0.54
Clay	Coarse	11	9.3	0.52	0.34	0.90	0.53	0.76	0.81	0.57	0.68	0.63	0.62	0.31	0.44	0.50
		9.3	7.8	0.53	0.32	0.96	0.51	0.75	0.79	0.58	0.75	0.64	0.59	0.30	0.42	0.52
		7.8	6.6	0.48	0.27	0.94	0.43	0.68	0.70	0.55	0.74	0.60	0.50	0.27	0.35	0.51
		6.6	5.5	0.50	0.27	1.05	0.44	0.72	0.71	0.60	0.83	0.65	0.48	0.29	0.34	0.59
	Medium	5.5	4.6	0.47	0.25	1.05	0.40	0.69	0.65	0.59	0.82	0.63	0.50	0.28	0.30	0.60
		4.6	3.9	0.41	0.23	0.98	0.37	0.62	0.56	0.55	0.75	0.57	0.32	0.25	0.25	0.58
		3.9	3.3	0.41	0.23	1.01	0.38	0.62	0.55	0.56	0.74	0.57	0.28	0.26	0.24	0.61
	Fine	3.3	2.8	0.40	0.23	1.02	0.40	0.61	0.53	0.56	0.72	0.56	0.25	0.26	0.22	0.64
		2.8	2.3	0.49	0.29	1.26	0.52	0.73	0.63	0.67	0.84	0.68	0.27	0.32	0.26	0.81
		2.3	1.95	0.41	0.25	1.07	0.47	0.61	0.52	0.56	0.69	0.56	0.21	0.27	0.22	0.71
Clay	Coarse	1.95	1.64	0.43	0.26	1.12	0.52	0.63	0.54	0.57	0.68	0.58	0.21	0.28	0.22	0.74
		1.64	1.38	0.42	0.26	1.01	0.54	0.62	0.53	0.55	0.65	0.56	0.20	0.28	0.23	0.75
		1.38	1.16	0.41	0.26	1.06	0.54	0.59	0.51	0.51	0.60	0.53	0.19	0.27	0.22	0.71
		1.16	0.98	0.39	0.24	0.98	0.51	0.53	0.47	0.46	0.53	0.47	0.17	0.25	0.21	0.64
	Medium	0.98	0.82	0.40	0.24	1.00	0.53	0.53	0.49	0.46	0.52	0.48	0.18	0.26	0.23	0.67
		0.82	0.69	0.38	0.23	0.96	0.51	0.50	0.48	0.44	0.49	0.45	0.18	0.25	0.25	0.68
		0.69	0.58	0.40	0.24	1.00	0.53	0.51	0.51	0.45	0.50	0.47	0.20	0.27	0.29	0.72
	Fine	0.58	0.49	0.43	0.25	1.04	0.55	0.52	0.54	0.47	0.52	0.49	0.22	0.29	0.32	0.75
		<0.49		4.13	1.82	6.48	3.64	2.26	2.58	2.20	2.41	2.41	0.89	1.73	1.19	2.42
		Very fine														

Table 4a-7. Particle size data for auger hole 8U-12. n.d. designates samples that were not analyzed.

		8U-12													
Microns		0-13 cm	13-27 cm	27-37 cm	37-48 cm	48-60 cm	60-71 cm	71-83 cm	83-96 cm	96-106 cm	106-116 cm	116-128 cm	128-137 cm	137-147 cm	
Sand	Very coarse	2000	1680	8.53	0.00	0.00	0.00	11.13	9.99	0.00	0.00	9.05	8.85	0.00	
		1680	1414	7.12	0.00	0.00	0.00	8.56	0.00	0.00	0.00	10.42	9.88	0.00	
		1414	1189	10.54	0.00	0.00	0.00	11.16	10.81	0.00	0.00	7.75	7.38	0.00	
		1189	1000	5.27	0.00	0.00	0.00	7.79	6.76	0.00	0.00	11.10	10.04	0.00	
		1000	841	10.31	0.00	0.00	0.00	9.98	9.86	0.00	0.00	6.13	5.75	0.00	
		841	707	9.58	0.00	0.00	0.00	8.66	8.61	0.00	0.00	4.70	4.33	0.00	
		707	595	3.24	0.00	0.00	0.00	5.31	4.62	0.00	0.00	10.08	8.82	0.00	
		595	500	8.17	0.00	0.00	0.00	6.79	6.96	0.00	0.00	3.36	3.00	0.00	
		500	420	1.29	0.00	0.00	0.00	2.94	2.61	0.00	0.20	3.06	8.33	6.90	1.06
		420	354	6.24	6.11	0.00	0.00	4.77	5.01	0.00	1.53	5.03	2.27	1.92	3.27
Sand	Medium	354	297	5.19	5.08	0.83	1.43	3.67	4.11	0.51	3.15	7.30	1.79	1.41	5.62
		297	250	4.01	3.96	2.53	3.00	2.88	2.62	3.12	1.84	4.61	8.89	1.43	7.61
		250	210	0.00	0.22	4.30	4.67	4.66	0.57	0.57	10.05	5.66	4.29	9.19	9.19
		210	177	2.56	2.60	5.92	6.13	6.20	1.58	2.01	4.46	6.84	9.87	1.04	9.74
		177	149	1.82	1.39	7.69	7.57	7.63	1.59	1.90	5.78	7.54	9.17	2.19	5.13
		149	125	1.72	1.85	9.40	8.73	8.71	1.07	1.43	7.02	8.01	8.48	0.85	8.72
		125	105	1.20	1.39	10.31	9.10	8.96	0.81	1.12	7.64	7.32	7.03	0.46	7.57
		105	88	0.90	1.14	10.02	8.57	8.34	0.72	0.98	7.85	6.19	0.66	0.41	6.39
		88	74	0.73	0.98	9.05	7.54	7.24	0.68	0.90	7.06	6.19	0.38	0.50	5.00
		74	63	0.00	0.00	7.44	6.08	5.78	0.00	0.00	5.89	4.98	3.30	1.60	3.62
Silt	Coarse	63	53	0.68	0.94	6.70	5.45	5.13	0.69	0.90	5.51	4.49	2.99	0.54	2.95
		53	44	0.66	0.92	5.62	4.61	4.30	0.68	0.87	4.97	3.89	2.41	0.49	2.33
		44	37	0.66	0.92	3.84	3.25	3.02	0.66	0.84	3.78	2.85	1.66	0.47	1.59
		37	31.2	0.64	0.88	2.69	2.40	2.22	0.61	0.77	3.04	2.21	1.23	0.44	1.18
		31.2	26.3	0.68	0.91	1.87	1.81	1.68	0.61	0.76	2.49	1.76	0.94	0.65	0.93
		26.3	22.1	0.64	0.84	1.31	1.43	1.31	0.55	0.67	2.11	1.46	0.74	0.43	0.77
		22.1	18.6	0.69	0.88	0.92	1.14	1.05	0.56	0.67	1.78	1.21	0.58	0.46	0.91
		18.6	15.6	0.66	0.80	0.72	1.00	0.91	0.50	0.59	1.58	1.08	0.47	0.44	0.99
		15.6	13.1	0.59	0.68	0.59	0.90	0.82	0.43	0.48	1.41	0.97	0.38	0.39	0.54
		13.1	11	0.58	0.63	0.52	0.84	0.78	0.39	0.44	1.31	0.91	0.32	0.37	1.04
Clay	Fine	11	9.3	0.63	0.77	0.46	0.79	0.74	0.38	0.41	1.20	0.84	0.26	0.40	1.27
		9.3	7.8	0.55	0.57	0.44	0.79	0.78	0.35	0.39	1.22	0.87	0.23	0.35	1.05
		7.8	6.6	0.47	0.39	0.72	0.72	0.75	0.29	0.31	1.13	0.82	0.19	0.33	1.05
		6.6	5.5	0.48	0.44	0.39	0.77	0.83	0.28	0.30	1.21	0.89	0.18	0.33	1.06
		5.5	4.6	0.44	0.40	0.35	0.73	0.83	0.26	0.27	1.16	0.86	0.15	0.31	1.00
		4.6	3.9	0.40	0.36	0.31	0.66	0.77	0.24	0.25	1.04	0.78	0.13	0.30	0.93
		3.9	3.3	0.34	0.35	0.30	0.65	0.79	0.21	0.22	1.03	0.78	0.13	0.28	0.71
		3.3	2.8	0.30	0.30	0.30	0.63	0.79	0.22	0.22	0.99	0.75	0.12	0.28	0.81
		2.8	2.3	0.35	0.30	0.36	0.74	0.95	0.22	0.22	1.16	0.87	0.15	0.28	0.83
		2.3	1.95	0.32	0.32	0.30	0.60	0.79	0.21	0.21	0.94	0.70	0.13	0.27	0.72
Clay	Coarse	1.95	1.64	0.31	0.30	0.31	0.60	0.80	0.20	0.20	0.93	0.69	0.14	0.26	0.73
		1.64	1.38	n.d	0.31	0.31	0.56	0.76	n.d	n.d	0.87	0.64	0.15	0.72	0.64
		1.38	1.16	n.d	0.29	0.29	0.52	0.71	n.d	n.d	0.81	0.59	0.15	n.d	0.42
		1.16	0.98	n.d	0.27	0.27	0.46	0.63	n.d	n.d	0.71	0.52	0.14	n.d	0.37
		0.98	0.82	n.d	0.27	0.27	0.45	0.62	n.d	n.d	0.70	0.50	0.14	n.d	0.37
		0.82	0.69	n.d	0.24	0.24	0.40	0.55	n.d	n.d	0.63	0.44	0.13	n.d	0.33
		0.69	0.58	n.d	0.25	0.25	0.39	0.54	n.d	n.d	0.63	0.43	0.13	n.d	0.34
		0.58	0.49	n.d	0.25	0.25	0.40	0.54	n.d	n.d	0.65	0.43	0.14	n.d	0.35
		<0.49		n.d	1.96	3.52	4.03	n.d	n.d	n.d	3.79	3.11	0.94	n.d	2.21

Table 4a-7. Particle size data for auger hole 8U-12. n.d. designates samples that were not analyzed—Continued.

	Microns	8U-12													
		147-158 cm	158-170 cm	170-180 cm	180-191 cm	191-203 cm	203-216 cm	216-227 cm	227-239 cm	239-251 cm	251-262 cm	262-273 cm	273-279 cm		
Sand	Very coarse	2000	1680	0.00	10.59	10.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	10.72	10.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	9.55	9.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	9.63	9.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	8.03	7.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	6.43	6.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	7.36	7.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	4.73	4.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	4.80	5.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		420	354	1.72	3.21	3.18	1.31	0.54	0.57	1.31	1.05	0.41	0.26	0.90	0.90
Silt		354	297	4.36	2.47	2.48	3.54	2.39	2.37	3.82	3.25	2.67	2.69	3.29	3.29
		297	250	6.67	1.87	1.89	5.54	4.20	4.13	5.93	5.30	7.77	8.37	8.06	8.06
		250	210	8.90	1.88	2.39	7.52	6.13	5.95	8.01	7.43	9.90	10.86	10.04	10.04
		210	177	10.20	1.28	1.29	8.78	7.81	7.29	7.81	8.84	10.94	12.16	10.95	10.95
		177	149	11.03	2.11	2.49	9.74	9.42	8.36	10.23	9.87	10.82	12.05	10.72	10.72
		149	125	10.70	1.02	1.03	9.68	10.71	9.00	10.09	9.77	9.81	10.82	9.61	9.61
		125	105	9.42	0.89	0.89	8.66	10.26	8.28	9.01	8.71	8.31	8.99	8.02	8.02
		105	88	8.12	0.83	0.83	7.48	9.30	7.27	7.85	7.59	6.67	6.98	6.33	6.33
		88	74	6.44	0.77	0.77	5.86	7.71	5.87	6.26	6.05	4.86	4.85	4.49	4.49
		74	63	4.67	0.00	0.24	4.15	5.71	4.30	4.55	4.38	3.20	3.01	2.87	2.87
Clay	Coarse	63	53	3.77	0.74	0.73	3.28	4.63	3.49	3.66	3.54	2.34	2.03	2.00	2.00
		53	44	2.90	0.68	0.67	2.49	3.50	2.67	2.79	2.71	1.61	1.25	1.28	1.28
		44	37	1.89	0.63	0.61	1.64	2.21	1.74	1.81	1.78	0.96	0.67	0.70	0.70
		37	31.2	1.32	0.57	0.55	1.22	1.50	1.24	1.27	1.28	0.65	0.44	0.45	0.45
	Medium	31.2	26.3	0.97	0.57	0.54	1.00	1.07	0.97	0.94	0.99	0.51	0.37	0.35	0.35
		26.3	22.1	0.75	0.53	0.50	0.90	0.82	0.85	0.75	0.84	0.45	0.39	0.32	0.32
		22.1	18.6	0.58	0.58	0.55	0.83	0.67	0.79	0.62	0.74	0.41	0.42	0.33	0.33
		18.6	15.6	0.48	0.58	0.56	0.81	0.61	0.81	0.57	0.72	0.41	0.46	0.35	0.35
		15.6	13.1	0.39	0.54	0.54	0.77	0.56	0.85	0.54	0.70	0.40	0.46	0.37	0.37
		13.1	11	0.33	0.56	0.58	0.74	0.54	0.90	0.52	0.70	0.41	0.46	0.41	0.41
Clay	Fine	11	9.3	0.27	0.70	0.77	0.69	0.70	0.50	0.68	0.51	0.41	0.43	0.43	0.43
		9.3	7.8	0.24	0.57	0.61	0.70	0.52	1.05	0.53	0.72	0.45	0.43	0.51	0.51
		7.8	6.6	0.21	0.58	0.67	0.66	0.48	1.05	0.50	0.70	0.46	0.39	0.53	0.53
		6.6	5.5	0.21	0.59	0.69	0.72	0.52	1.21	0.55	0.77	0.54	0.41	0.64	0.64
		5.5	4.6	0.19	0.57	0.67	0.71	0.50	1.21	0.53	0.76	0.55	0.38	0.67	0.67
		4.6	3.9	0.17	0.52	0.63	0.67	0.46	1.13	0.47	0.70	0.53	0.33	0.64	0.64
		3.9	3.3	0.17	0.48	0.55	0.69	0.46	1.14	0.47	0.70	0.54	0.31	0.65	0.65
		3.3	2.8	0.17	0.47	0.56	0.69	0.46	1.13	0.45	0.69	0.54	0.29	0.64	0.64
		2.8	2.3	0.20	0.47	0.56	0.84	0.56	1.34	0.53	0.81	0.64	0.32	0.75	0.75
		2.3	1.95	0.18	0.46	0.54	0.70	0.46	1.09	0.44	0.66	0.52	0.25	0.60	0.60
Clay	Coarse	1.95	1.64	0.19	0.45	0.53	0.70	0.46	1.08	0.44	0.66	0.53	0.24	0.60	0.60
		1.64	1.38	0.19	n.d	n.d	0.67	0.45	1.02	0.42	0.62	0.50	0.22	0.56	0.56
		1.38	1.16	n.d	n.d	n.d	0.62	0.41	0.94	0.40	0.56	0.47	0.21	0.51	0.51
		1.16	0.98	0.17	n.d	n.d	0.54	0.36	0.84	0.35	0.50	0.42	0.19	0.46	0.46
		0.98	0.82	0.17	n.d	n.d	0.54	0.37	0.84	0.36	0.49	0.42	0.19	0.45	0.45
		0.82	0.69	0.17	n.d	n.d	0.52	0.37	0.81	0.35	0.45	0.39	0.17	0.41	0.41
		0.69	0.58	0.17	n.d	n.d	0.54	0.40	0.83	0.38	0.46	0.39	0.18	0.41	0.41
		0.58	0.49	0.18	n.d	n.d	0.56	0.42	0.85	0.41	0.47	0.39	0.19	0.41	0.41
		<0.49		0.99	n.d	n.d	2.34	1.57	3.84	1.96	2.41	2.47	1.20	2.53	2.53

Table 4a-7. Particle size data for auger hole 8U-12. n.d. designates samples that were not analyzed—Continued.

	Microns	8U-12				
		279-290 cm	290-299 cm	299-310 cm	310-317 cm	
Sand	Very coarse	2000	1680	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00
		841	707	0.00	0.00	0.00
		707	595	0.00	0.00	0.00
		595	500	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00
		420	354	0.02	0.34	1.52
Silt		354	297	2.26	2.47	4.23
		297	250	4.65	4.64	6.83
	Fine	250	210	7.17	6.92	9.23
		210	177	9.19	8.75	10.50
		177	149	10.91	10.40	11.01
		149	125	11.05	10.77	10.08
	Very fine	125	105	9.70	9.85	8.16
		105	88	8.05	8.63	6.34
		88	74	6.05	6.88	4.42
		74	63	4.18	5.01	2.77
Clay	Coarse	63	53	3.27	4.07	1.88
		53	44	2.48	3.16	1.15
		44	37	1.68	2.11	0.60
		37	31.2	1.30	1.54	0.39
	Medium	31.2	26.3	1.11	1.20	0.34
		26.3	22.1	1.04	0.99	0.38
		22.1	18.6	0.97	0.84	0.43
		18.6	15.6	0.94	0.76	0.50
	Fine	15.6	13.1	0.88	0.68	0.55
		13.1	11	0.84	0.63	0.59
		11	9.3	0.77	0.57	0.60
		9.3	7.8	0.78	0.58	0.67
	Very fine	7.8	6.6	0.73	0.54	0.67
		6.6	5.5	0.79	0.58	0.77
		5.5	4.6	0.76	0.55	0.79
		4.6	3.9	0.68	0.50	0.75
	Coarse	3.9	3.3	0.66	0.49	0.79
		3.3	2.8	0.63	0.47	0.81
		2.8	2.3	0.72	0.55	1.01
		2.3	1.95	0.56	0.44	0.86
	Medium	1.95	1.64	0.54	0.43	0.90
		1.64	1.38	0.50	0.40	0.88
		1.38	1.16	0.44	0.36	0.85
		1.16	0.98	0.37	0.31	0.78
	Fine	0.98	0.82	0.37	0.31	0.78
		0.82	0.69	0.36	0.30	0.73
		0.69	0.58	0.39	0.32	0.72
		0.58	0.49	0.43	0.34	0.72
	Very fine	<0.49		1.77	1.36	4.05
						3.60

22-NU

	Microns	90-22															
		0-15 cm	15-27 cm	27-41 cm	41-53 cm	53-67 cm	67-75 cm	75-87 cm	87-97 cm	97-107 cm	107-116 cm	116-124 cm	124-136 cm	136-146 cm	146-156 cm	156-165 cm	165-178 cm
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Silt	Very fine	354	297	0.02	0.01	0.01	0.61	0.82	1.01	0.95	1.29	0.78	1.74	1.55	2.21	1.08	0.91
		297	250	1.31	0.34	0.71	1.33	0.85	2.36	2.99	2.97	3.62	3.10	4.00	3.65	4.62	3.77
	Fine	250	210	2.93	0.87	1.78	2.09	2.16	3.95	4.97	5.07	6.05	5.49	6.38	5.86	7.17	6.97
		210	177	4.50	1.36	2.79	2.77	3.39	5.41	7.69	7.00	8.21	7.69	8.42	7.79	9.18	8.12
		177	149	6.13	1.88	3.86	3.49	4.70	6.91	8.40	8.92	10.15	9.74	10.14	9.47	10.75	12.80
		149	125	7.94	2.52	5.02	4.20	6.04	8.16	9.71	10.45	11.51	11.29	11.24	10.62	11.57	14.33
		125	105	9.21	3.25	5.94	4.66	6.94	8.65	9.52	10.05	10.74	10.70	10.31	9.90	10.38	12.46
	Very fine	105	88	9.90	4.14	6.67	5.04	7.46	8.16	8.69	9.04	9.41	9.49	8.93	8.74	8.83	9.74
		88	74	8.98	4.95	6.79	5.01	7.17	7.16	7.34	7.39	7.52	7.66	7.08	6.88	6.71	7.64
		74	63	7.51	5.36	6.06	4.76	6.01	5.77	5.58	5.40	5.37	5.53	5.02	5.19	4.82	4.05
Clay	Coarse	63	53	6.94	6.48	6.18	5.01	5.74	5.17	4.64	4.31	4.17	4.36	3.87	4.18	3.67	2.60
		53	44	6.05	7.34	6.13	5.23	5.31	4.42	3.59	3.21	2.98	3.20	2.76	3.19	2.58	1.46
		44	37	4.34	6.71	5.13	4.65	4.19	3.22	2.33	2.02	1.78	1.97	1.65	2.10	1.52	0.66
		37	31.2	3.23	6.33	4.49	4.33	3.54	2.53	1.64	1.41	1.18	1.34	1.11	1.58	1.01	0.34
	Medium	31.2	26.3	2.43	5.82	3.96	4.05	3.12	2.01	1.26	1.11	0.88	1.01	0.86	1.34	0.78	0.22
		26.3	22.1	1.88	5.22	3.54	3.84	2.91	1.86	1.11	1.02	0.78	0.89	0.81	1.29	0.72	0.42
		22.1	18.6	1.48	4.39	3.01	3.56	2.75	1.69	1.07	1.04	0.76	0.84	0.84	1.28	0.70	0.49
		18.6	15.6	1.26	3.71	2.82	3.43	2.75	1.65	1.16	1.16	0.79	0.87	0.93	1.33	0.73	0.59
	Fine	15.6	13.1	1.11	3.05	2.53	3.25	2.70	1.59	1.24	1.26	0.80	0.87	0.98	1.32	0.72	0.63
		13.1	11	1.03	2.58	2.33	3.14	2.65	1.56	1.33	1.36	0.80	0.87	1.01	1.28	0.71	0.66
Very fine		11	9.3	0.94	2.19	2.09	2.92	2.40	1.47	1.33	1.37	0.75	0.83	0.98	1.16	0.66	0.64
		9.3	7.8	0.95	2.11	2.05	2.93	2.40	1.49	1.42	1.45	0.76	0.84	1.01	1.13	0.67	0.66
		7.8	6.6	0.87	1.90	1.82	2.60	2.06	1.36	1.32	1.35	0.70	0.78	0.92	0.97	0.62	0.63
		6.6	5.5	0.92	1.98	1.82	2.58	1.97	1.40	1.38	1.40	0.74	0.83	0.96	0.95	0.67	0.69
		5.5	4.6	0.87	1.83	1.61	2.21	1.63	1.28	1.25	1.25	0.70	0.78	0.88	0.83	0.64	0.68
		4.6	3.9	0.78	1.57	1.32	1.75	1.25	1.08	1.04	1.03	0.63	0.70	0.75	0.68	0.58	0.62
		3.9	3.3	0.76	1.45	1.17	1.48	1.05	0.99	0.95	0.92	0.62	0.68	0.70	0.61	0.58	0.61
		3.3	2.8	0.72	1.29	1.01	1.21	0.87	0.88	0.83	0.79	0.59	0.65	0.63	0.54	0.55	0.58
		2.8	2.3	0.83	1.37	1.05	1.17	0.86	0.93	0.87	0.82	0.67	0.74	0.68	0.57	0.62	0.65
		2.3	1.95	0.65	1.00	0.75	0.80	0.61	0.62	0.63	0.59	0.53	0.58	0.51	0.42	0.49	0.50
Medium		1.95	1.64	0.63	0.91	0.68	0.69	0.54	0.62	0.58	0.53	0.51	0.56	0.47	0.39	0.47	0.47
		1.64	1.38	0.57	0.79	0.59	0.58	0.47	0.54	0.50	0.45	0.47	0.52	0.41	0.34	0.42	0.42
		1.38	1.16	0.50	0.68	0.50	0.49	0.40	0.46	0.43	0.39	0.42	0.46	0.36	0.29	0.37	0.36
		1.16	0.98	0.43	0.57	0.42	0.41	0.33	0.38	0.36	0.32	0.36	0.40	0.30	0.25	0.32	0.30
		0.98	0.82	0.40	0.53	0.39	0.37	0.31	0.35	0.34	0.30	0.34	0.38	0.28	0.23	0.30	0.28
		0.82	0.69	0.35	0.45	0.34	0.32	0.27	0.30	0.28	0.26	0.29	0.33	0.24	0.20	0.25	0.24
		0.69	0.58	0.33	0.43	0.33	0.30	0.26	0.28	0.27	0.25	0.28	0.32	0.23	0.20	0.24	0.24
		0.58	0.49	0.31	0.42	0.33	0.30	0.27	0.28	0.26	0.25	0.27	0.32	0.22	0.21	0.24	0.23
		<0.49		0.00	2.26	1.90	2.38	1.62	2.01	1.58	1.16	1.58	1.58	1.44	1.29	1.79	1.11
																	1.68

Table 4a-8. Particle size data for auger hole 9U-22—Continued.

Microns		9U-22				
		335-343	343-354	354-364	364-372	372-383
		cm	cm	cm	cm	cm
Sand	Very coarse	2000	1680	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00
		841	707	0.00	0.00	0.00
		707	595	0.00	0.00	0.00
		595	500	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00
		420	354	0.00	0.00	0.56
Silt	Fine	354	297	1.26	1.60	1.55
		297	250	3.35	3.68	3.93
		250	210	5.53	5.88	5.84
		210	177	7.47	7.81	7.80
		177	149	9.24	9.56	9.26
		149	125	10.55	10.81	10.85
	Very fine	125	105	9.99	10.14	10.15
		105	88	8.98	8.99	8.91
		88	74	7.43	7.30	6.67
		74	63	5.54	5.31	5.14
Clay	Coarse	63	53	4.55	4.22	4.05
		53	44	3.52	3.12	2.99
		44	37	2.33	1.93	1.88
		37	31.2	1.70	1.31	1.31
	Medium	31.2	26.3	1.36	0.98	1.02
		26.3	22.1	1.21	0.85	0.91
		22.1	18.6	1.14	0.82	0.88
		18.6	15.6	1.14	0.86	0.91
	Fine	15.6	13.1	1.13	0.90	0.93
		13.1	11	1.12	0.95	0.94
	Very fine	11	9.3	1.05	0.94	0.91
		9.3	7.8	1.07	1.01	0.96
		7.8	6.6	0.97	0.96	0.91
		6.6	5.5	0.98	1.03	0.98
		5.5	4.6	0.87	0.97	0.93
	Coarse	4.6	3.9	0.72	0.84	0.83
		3.9	3.3	0.64	0.79	0.80
		3.3	2.8	0.56	0.71	0.75
		2.8	2.3	0.57	0.77	0.84
		2.3	1.95	0.42	0.58	0.65
	Medium	1.95	1.64	0.38	0.53	0.62
		1.64	1.38	0.33	0.47	0.55
		1.38	1.16	0.29	0.40	0.48
		1.16	0.98	0.25	0.34	0.41
	Fine	0.98	0.82	0.24	0.32	0.38
		0.82	0.69	0.21	0.27	0.34
		0.69	0.58	0.21	0.27	0.33
		0.58	0.49	0.22	0.26	0.33
	Very fine	<0.49		1.48	1.56	1.63
					1.88	1.58

Table 4a-9. Particle size data for auger hole 9U-23—Continued.

		9U-23													
	Microns	182-192 cm	192-201 cm	201-208 cm	208-218 cm	218-228 cm	228-236 cm	236-248 cm	248-260 cm	260-270 cm	270-280 cm	280-290 cm	290-298 cm		
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Medium		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		500	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	
		420	354	0.00	0.13	0.45	0.85	1.12	1.19	1.34	1.24	1.59	2.79	2.79	
		354	297	1.18	1.67	1.53	3.49	2.89	3.34	3.57	3.74	4.09	5.51	5.51	
		297	250	3.05	3.65	3.69	5.24	5.26	5.40	5.78	5.91	5.78	6.28	7.96	
Fine		250	210	5.24	5.96	6.22	7.15	7.91	7.80	8.14	8.04	8.42	10.12	10.12	
		210	177	7.42	8.10	8.56	8.69	9.91	9.74	9.64	9.57	9.73	11.17	11.17	
		177	149	9.62	9.98	10.64	9.94	11.46	10.28	10.74	10.71	10.57	11.02	11.02	
		149	125	11.31	11.25	12.05	10.08	11.32	10.28	10.55	10.55	10.22	10.00	10.00	
		125	105	10.61	10.31	11.01	9.22	9.88	9.94	9.31	9.36	8.92	8.51	8.51	
		105	88	9.32	8.91	9.41	8.27	8.33	8.50	8.17	8.01	7.60	6.91	6.91	
Very fine		88	74	7.43	7.03	7.30	6.75	6.28	6.50	6.23	6.35	5.89	5.08	5.08	
		74	63	5.21	4.92	5.00	4.98	4.19	4.38	4.49	4.45	4.10	3.36	3.36	
		63	53	3.88	3.68	3.66	4.04	3.01	3.17	3.45	3.41	3.12	2.45	2.45	
		53	44	2.58	2.49	2.40	3.09	1.97	2.07	2.48	2.41	2.21	1.69	1.69	
		44	37	1.39	1.39	1.28	2.02	1.09	1.11	1.53	1.43	1.33	1.02	1.02	
		37	31.2	0.82	0.89	0.75	1.46	0.70	0.66	1.07	0.86	0.95	0.91	0.73	
Silt		31.2	26.3	0.59	0.69	0.52	1.16	0.53	0.47	0.87	0.73	0.72	0.62	0.62	
		26.3	22.1	0.60	0.72	0.48	1.02	0.52	0.43	0.81	0.66	0.67	0.59	0.59	
		22.1	18.6	0.99	1.14	0.77	0.92	0.80	0.70	0.78	0.66	0.67	0.58	0.58	
		18.6	15.6	1.17	1.30	0.85	0.88	0.83	0.76	0.79	0.67	0.71	0.59	0.59	
		15.6	13.1	1.37	1.45	0.95	0.83	0.87	0.83	0.77	0.69	0.74	0.72	0.58	
		13.1	11	1.53	1.55	1.03	0.77	0.88	0.89	0.76	0.69	0.77	0.73	0.57	
Fine		11	9.3	1.57	1.53	1.05	0.69	0.85	0.90	0.66	0.76	0.69	0.54	0.54	
		9.3	7.8	1.68	1.58	1.13	0.68	0.89	0.96	0.67	0.81	0.71	0.57	0.57	
		7.8	6.6	1.57	1.42	1.08	0.61	0.84	0.91	0.62	0.78	0.65	0.54	0.54	
		6.6	5.5	1.62	1.41	1.15	0.64	0.91	0.98	0.63	0.85	0.69	0.59	0.59	
		5.5	4.6	1.44	1.22	1.07	0.61	0.86	0.91	0.62	0.81	0.65	0.58	0.58	
		4.6	3.9	1.17	0.98	0.92	0.55	0.77	0.79	0.54	0.55	0.72	0.53	0.53	
Clay		3.9	3.3	1.02	0.85	0.85	0.55	0.74	0.73	0.54	0.70	0.56	0.52	0.52	
		3.3	2.8	0.86	0.71	0.76	0.53	0.69	0.66	0.51	0.64	0.53	0.50	0.50	
		2.8	2.3	0.85	0.72	0.80	0.61	0.76	0.71	0.57	0.71	0.60	0.57	0.57	
		2.3	1.95	0.59	0.51	0.59	0.49	0.59	0.53	0.45	0.54	0.47	0.45	0.45	
		1.95	1.64	0.52	0.45	0.54	0.49	0.55	0.49	0.43	0.47	0.51	0.45	0.44	
		1.64	1.38	0.45	0.40	0.47	0.46	0.50	0.44	0.39	0.40	0.46	0.41	0.41	
Medium		1.38	1.16	0.38	0.35	0.41	0.42	0.45	0.39	0.36	0.41	0.37	0.38	0.38	
		1.16	0.98	0.33	0.28	0.36	0.38	0.40	0.34	0.31	0.36	0.31	0.35	0.35	
		0.98	0.82	0.31	0.35	0.34	0.38	0.38	0.33	0.29	0.37	0.30	0.30	0.34	
		0.82	0.69	0.33	0.04	0.38	0.44	0.43	0.37	0.25	0.42	0.35	0.26	0.39	
		0.69	0.58	0.02	0.00	0.02	0.03	0.02	0.02	0.25	0.02	0.02	0.26	0.02	
		0.58	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.25	0.00	0.00	
Very fine	<0.49		0.00	0.00	0.00	0.00	0.00	0.00	2.03	0.00	2.06	0.00	0.00		

Table 4a-10. Particle size data for auger hole 00U-27—Continued.

Microns		000-27										
		221-233 cm	233-242 cm	242-252 cm	242-265 cm	265-274 cm	274-283 cm	283-291 cm	291-301 cm	301-313 cm	313-324 cm	
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Coarse	1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Silt	Medium	595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		500	420	0.55	0.10	0.82	0.00	0.39	0.87	0.00	0.00	
		420	354	2.13	1.65	2.69	1.36	2.11	2.29	1.18	0.96	
	Fine	354	297	3.81	3.84	4.58	3.58	4.10	3.97	2.95	2.62	
		297	250	5.35	5.78	6.31	5.56	5.92	5.78	4.51	4.13	
		250	210	7.00	7.70	7.95	7.61	7.87	7.73	6.22	5.71	
	Very fine	210	177	8.18	8.92	8.85	8.99	9.18	9.12	7.54	6.87	
177		149	9.21	9.83	9.48	10.02	10.17	10.31	8.67	7.80		
149		125	9.36	9.73	9.25	9.87	10.00	10.32	9.40	8.37		
Clay	Coarse	125	105	8.61	8.65	8.21	8.71	8.83	9.09	8.72	7.76	
		105	88	7.74	7.49	7.15	7.48	7.60	7.65	7.79	6.95	
		88	74	6.37	5.95	5.73	5.87	5.98	5.85	6.49	5.83	
	Medium	74	63	4.76	4.33	4.20	4.19	4.27	4.08	4.94	4.48	
		63	53	3.95	3.53	3.44	3.34	3.39	3.19	4.20	3.86	
		53	44	3.13	2.77	2.70	2.56	2.57	2.40	3.42	3.22	
	Fine	44	37	2.12	1.90	1.83	1.73	1.69	1.58	2.39	2.33	
37		31.2	1.57	1.44	1.37	1.32	1.24	1.18	1.82	1.86		
31.2		26.3	1.24	1.18	1.01	1.11	1.00	0.97	1.48	1.60		
Very fine	Coarse	26.3	22.1	1.04	1.03	0.94	1.01	0.89	0.87	1.28	1.47	
		22.1	18.6	0.90	0.91	0.83	0.93	0.80	0.80	1.13	1.37	
		18.6	15.6	0.83	0.85	0.78	0.90	0.76	0.76	1.05	1.35	
	Medium	15.6	13.1	0.76	0.79	0.72	0.85	0.71	0.71	0.97	1.31	
		13.1	11	0.71	0.75	0.68	0.81	0.67	0.67	0.92	1.30	
		11	9.3	0.65	0.69	0.63	0.74	0.61	0.61	0.85	1.23	
	Fine	9.3	7.8	0.65	0.70	0.64	0.75	0.61	0.62	0.85	1.27	
7.8		6.6	0.60	0.65	0.59	0.70	0.56	0.57	0.78	1.19		
6.6		5.5	0.64	0.70	0.63	0.75	0.60	0.61	0.83	1.27		
Coarse	Medium	5.5	4.6	0.61	0.66	0.60	0.71	0.57	0.58	0.78	1.20	
		4.6	3.9	0.54	0.58	0.54	0.64	0.52	0.52	0.69	1.05	
		3.9	3.3	0.53	0.56	0.52	0.62	0.51	0.51	0.67	1.01	
	Fine	3.3	2.8	0.51	0.54	0.50	0.59	0.49	0.48	0.63	0.94	
		2.8	2.3	0.59	0.62	0.57	0.67	0.56	0.56	0.71	1.05	
		2.3	1.95	0.47	0.49	0.46	0.53	0.44	0.44	0.56	0.82	
	Very fine	1.95	1.64	0.48	0.48	0.45	0.52	0.44	0.43	0.55	0.78	
1.64		1.38	0.44	0.45	0.42	0.48	0.40	0.41	0.51	0.70		
1.38		1.16	0.41	0.40	0.38	0.44	0.37	0.37	0.46	0.63		
Very fine	Coarse	1.16	0.98	0.36	0.35	0.33	0.38	0.32	0.31	0.40	0.54	
		0.98	0.82	0.35	0.34	0.32	0.37	0.31	0.31	0.39	0.52	
		0.82	0.69	0.33	0.32	0.29	0.34	0.28	0.30	0.35	0.47	
	Medium	0.69	0.58	0.34	0.34	0.30	0.35	0.29	0.33	0.36	0.49	
		0.58	0.49	0.36	0.37	0.32	0.37	0.30	0.36	0.37	0.51	
		<0.49		1.88	1.67	1.90	2.28	1.72	1.43	2.24	3.20	1.88

Table 4b-1. Particle size data for the 01U-1 transect.

	Microns	01U-1A			01U-1B			01U-1C			01U-1D			01U-1E			01U-1F		
		0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.13	1.46	0.23	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.01	0.00	0.00	0.00	0.99	0.00	0.00	0.35	0.83	2.02	1.94	0.00	0.00	0.00
		420	354	0.00	0.00	0.65	0.00	0.00	0.12	2.06	0.00	0.48	1.29	1.56	2.71	3.92	0.92	0.79	0.51
Silt		354	297	0.16	1.13	1.58	0.19	1.95	1.17	0.04	1.22	0.00	0.00	2.56	3.72	6.06	2.45	2.97	2.62
		297	250	1.52	2.56	2.68	1.24	3.09	2.78	2.03	2.41	5.59	3.37	3.71	4.81	7.94	3.84	5.07	4.71
	Fine	250	210	2.90	4.53	4.12	2.31	4.56	4.54	3.88	4.02	7.79	4.74	5.17	6.14	9.67	5.54	7.31	6.94
		210	177	4.75	6.60	5.67	3.73	6.08	6.42	5.82	5.71	9.60	6.15	6.65	7.35	10.58	7.16	9.22	8.86
		177	149	7.12	8.88	7.60	5.56	7.89	8.57	8.01	7.76	11.31	7.85	8.43	8.48	10.73	8.92	11.06	10.73
		149	125	9.84	10.93	9.69	7.70	9.89	10.69	10.11	9.89	11.71	9.78	10.42	9.34	10.19	10.68	11.73	11.50
		125	105	11.84	11.73	11.14	9.36	10.50	11.94	11.26	11.26	10.67	10.39	10.94	9.59	9.08	10.93	11.12	11.03
	Very fine	105	88	11.99	10.94	11.20	10.52	10.61	11.55	10.89	11.13	9.31	10.14	10.93	9.35	7.74	10.71	10.01	10.16
		88	74	10.95	9.37	10.27	9.92	9.74	10.19	9.70	10.05	7.30	9.72	9.88	8.17	5.99	9.58	8.18	8.37
		74	63	8.81	7.25	8.30	8.59	7.83	7.96	7.81	8.05	5.11	7.40	7.76	6.28	4.15	7.53	5.86	6.09
Clay	Coarse	63	53	7.54	6.11	7.05	8.15	6.64	6.59	6.85	6.87	3.88	6.70	6.35	5.09	3.12	6.25	4.49	4.76
		53	44	5.85	4.75	5.35	7.23	5.07	4.86	5.56	5.31	2.69	5.12	4.58	3.69	2.14	4.62	3.12	3.38
		44	37	3.67	3.03	3.21	5.22	3.09	2.83	3.67	3.30	1.52	3.09	2.60	2.12	1.19	2.68	1.74	1.95
		37	31.2	2.35	1.98	1.95	3.83	1.90	1.64	2.47	2.09	0.90	1.88	1.47	1.22	0.68	1.55	1.00	1.16
	Medium	31.2	26.3	1.48	1.29	1.15	2.75	1.14	0.91	1.64	1.30	0.55	1.10	0.79	0.68	0.40	0.85	0.58	0.70
		26.3	22.1	0.93	0.85	0.67	1.94	0.68	0.50	1.09	0.81	0.36	0.63	0.39	0.37	0.26	0.44	0.36	0.45
		22.1	18.6	0.59	0.58	0.39	1.32	0.42	0.28	0.72	0.52	0.27	0.36	0.19	0.21	0.19	0.22	0.27	0.34
		18.6	15.6	0.43	0.45	0.29	0.94	0.31	0.23	0.53	0.39	0.24	0.26	0.14	0.17	0.17	0.16	0.26	0.32
	Fine	15.6	13.1	0.36	0.38	0.27	0.68	0.29	0.24	0.43	0.35	0.23	0.24	0.15	0.18	0.17	0.17	0.26	0.32
		13.1	11	0.35	0.35	0.29	0.55	0.31	0.27	0.38	0.35	0.22	0.26	0.19	0.21	0.17	0.20	0.27	0.33
Clay		11	9.3	0.34	0.34	0.31	0.46	0.31	0.28	0.36	0.35	0.20	0.45	0.36	0.22	0.16	0.22	0.26	0.32
		9.3	7.8	0.36	0.35	0.34	0.46	0.33	0.29	0.37	0.37	0.19	0.45	0.36	0.30	0.15	0.23	0.26	0.33
	Very fine	7.8	6.6	0.34	0.33	0.32	0.42	0.31	0.26	0.35	0.35	0.17	0.42	0.32	0.29	0.13	0.21	0.23	0.29
		6.6	5.5	0.36	0.36	0.34	0.45	0.33	0.27	0.38	0.38	0.18	0.45	0.32	0.30	0.13	0.21	0.23	0.29
		5.5	4.6	0.34	0.35	0.31	0.43	0.31	0.24	0.37	0.36	0.17	0.44	0.29	0.28	0.12	0.19	0.20	0.26
		4.6	3.9	0.30	0.32	0.27	0.39	0.28	0.22	0.33	0.32	0.15	0.41	0.26	0.25	0.11	0.16	0.18	0.22
	Coarse	3.9	3.3	0.30	0.32	0.28	0.39	0.29	0.22	0.34	0.32	0.15	0.41	0.26	0.25	0.15	0.15	0.18	0.21
		3.3	2.8	0.31	0.32	0.28	0.38	0.29	0.23	0.34	0.33	0.16	0.41	0.26	0.26	0.15	0.17	0.18	0.20
		2.8	2.3	0.38	0.38	0.35	0.47	0.37	0.30	0.41	0.41	0.20	0.50	0.32	0.32	0.20	0.22	0.21	0.24
		2.3	1.95	0.32	0.31	0.30	0.40	0.32	0.27	0.35	0.35	0.17	0.41	0.27	0.28	0.18	0.20	0.18	0.20
Clay	Medium	1.95	1.64	0.33	0.31	0.31	0.41	0.34	0.28	0.35	0.36	0.18	0.42	0.27	0.30	0.20	0.21	0.19	0.20
		1.64	1.38	0.33	0.30	0.31	0.40	0.33	0.28	0.34	0.35	0.18	0.40	0.26	0.29	0.20	0.22	0.18	0.19
		1.38	1.16	0.29	0.28	0.29	0.37	0.30	0.26	0.32	0.31	0.17	0.37	0.24	0.27	0.19	0.21	0.17	0.18
		1.16	0.98	0.25	0.24	0.24	0.32	0.26	0.23	0.28	0.27	0.15	0.31	0.20	0.24	0.17	0.18	0.15	0.15
	Fine	0.98	0.82	0.25	0.23	0.25	0.31	0.26	0.23	0.27	0.27	0.15	0.30	0.19	0.24	0.20	0.19	0.16	0.15
		0.82	0.69	0.24	0.21	0.24	0.29	0.25	0.22	0.24	0.26	0.15	0.27	0.19	0.23	0.17	0.18	0.15	0.14
		0.69	0.58	0.26	0.21	0.27	0.30	0.26	0.24	0.25	0.28	0.17	0.27	0.20	0.24	0.21	0.19	0.16	0.15
		0.58	0.49	0.28	0.22	0.29	0.31	0.28	0.26	0.25	0.31	0.18	0.29	0.21	0.26	0.20	0.21	0.18	0.17
	Very fine	<0.49		0.99	0.93	1.18	1.33	1.21	1.27	1.23	1.17	0.75	1.45	0.79	1.20	0.86	1.09	0.83	0.86

Table 4b-2. Particle size data for the 04U transect.

	Microns		04U-21		04U-22		04U-23		04U-24		
			0-10 cm	10-30 cm	0-10 cm	10-30 cm	0-10 cm	10-30 cm	0-10 cm	10-30 cm	
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		500	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.89
Medium	354	297	0.52	0.03	2.97	2.93	0.02	0.01	0.01	2.55	
	297	250	1.94	1.52	1.84	4.56	1.16	0.86	0.73	4.52	
	250	210	3.39	3.17	3.42	6.30	2.37	2.26	2.09	6.83	
	210	177	4.74	4.85	4.90	7.59	3.55	3.58	3.35	8.76	
	177	149	6.12	6.73	6.42	8.69	4.78	4.99	4.70	10.54	
Fine	149	125	7.27	8.53	7.73	9.43	5.96	6.36	6.06	10.92	
	125	105	7.67	9.48	8.22	8.87	6.60	7.11	6.94	9.79	
	105	88	7.60	9.26	7.79	8.07	6.84	7.38	7.46	8.31	
	88	74	6.74	8.29	6.88	6.84	6.27	6.70	7.23	6.42	
	74	63	5.61	6.83	5.61	5.29	5.32	5.69	6.19	4.58	
Silt	Coarse	63	53	5.32	6.25	5.15	4.51	5.16	5.49	6.06	3.69
		53	44	4.97	5.46	4.58	3.62	4.91	5.17	5.78	2.87
		44	37	3.99	4.03	3.49	2.43	4.03	4.17	4.67	1.96
		37	31.2	3.41	3.14	2.84	1.74	3.54	3.56	3.96	1.49
		31.2	26.3	2.97	2.49	2.39	1.28	3.20	3.11	3.39	1.23
	Medium	26.3	22.1	2.62	2.03	2.08	1.01	2.96	2.77	2.95	1.08
		22.1	18.6	2.25	1.64	1.79	0.82	2.67	2.41	2.51	0.96
		18.6	15.6	1.98	1.19	1.39	0.75	2.49	2.17	2.21	0.89
		15.6	13.1	1.70	1.18	1.45	0.70	2.26	1.92	1.91	0.80
		13.1	11	1.50	1.03	1.35	0.70	2.08	1.74	1.70	0.74
Fine	11	9.3	1.30	0.89	1.23	0.68	1.85	1.55	1.47	0.66	
	9.3	7.8	1.25	0.85	1.25	0.71	1.80	1.54	1.42	0.66	
	7.8	6.6	1.12	0.76	1.17	0.68	1.61	1.41	1.25	0.61	
	6.6	5.5	1.16	0.79	1.26	0.74	1.65	1.50	1.29	0.65	
	5.5	4.6	1.09	0.74	1.22	0.72	1.53	1.42	1.19	0.63	
Clay	Very fine	4.6	3.9	0.96	0.66	1.10	0.65	1.33	1.27	1.05	0.57
		3.9	3.3	0.93	0.64	1.09	0.65	1.27	1.24	1.01	0.57
		3.3	2.8	0.87	0.61	1.03	0.62	1.18	1.16	0.95	0.54
		2.8	2.3	0.98	0.70	1.17	0.71	1.32	1.31	1.07	0.62
		2.3	1.95	0.77	0.56	0.93	0.57	1.02	1.02	0.84	0.49
	Coarse	1.95	1.64	0.75	0.56	0.91	0.58	1.00	1.00	0.83	0.48
		1.64	1.38	0.71	0.54	0.86	0.56	0.93	0.93	0.77	0.46
		1.38	1.16	0.66	0.50	0.80	0.53	0.85	0.86	0.72	0.43
		1.16	0.98	0.58	0.44	0.70	0.47	0.75	0.75	0.64	0.37
		0.98	0.82	0.57	0.43	0.68	0.48	0.72	0.73	0.62	0.36
Fine	0.82	0.69	0.51	0.40	0.63	0.46	0.64	0.65	0.55	0.34	
	0.69	0.58	0.50	0.40	0.62	0.46	0.62	0.62	0.53	0.34	
	0.58	0.49	0.49	0.40	0.62	0.47	0.61	0.60	0.51	0.34	
	<0.49		2.50	1.81	2.87	2.02	3.16	3.03	3.40	1.09	
	Very fine										

Table 4c-1. Particle size data for auger hole 00U-38. This auger hole anchors the 00U-39 transect.

Microns		00U-38													
		0-10 cm	10-30 cm	30-44 cm	44-57 cm	57-74 cm	74-96 cm	96-115 cm	115-140 cm	140-156 cm	156-185 cm	185-207 cm	207-229 cm	229-242 cm	
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		500	420	0.25	0.00	0.00	0.00	0.00	0.05	0.96	0.27	0.00	0.00	0.00	0.00
		420	354	2.69	0.99	0.20	0.36	0.67	1.03	3.21	2.52	1.28	1.40	1.78	2.07
Silt	Medium	354	297	5.71	3.89	2.65	2.82	3.01	3.75	4.91	5.28	4.36	4.41	5.38	4.41
		297	250	8.43	7.11	5.77	5.33	5.87	6.36	7.44	7.60	7.46	7.37	8.31	8.31
		250	210	10.78	10.66	9.30	7.93	8.96	9.07	9.71	9.77	10.00	10.78	10.56	11.15
		210	177	11.84	12.95	11.95	9.72	11.14	10.85	10.93	10.88	11.14	13.18	13.00	12.91
		177	149	11.46	14.08	13.71	10.93	12.54	11.98	10.87	10.82	11.06	13.74	14.09	13.13
	Fine	149	125	10.09	12.75	12.97	10.56	11.91	11.43	9.86	9.88	10.08	12.71	13.49	12.05
		125	105	8.30	9.99	10.60	9.08	9.93	9.68	8.37	8.46	8.62	10.84	11.30	10.22
		105	88	6.48	7.45	8.28	7.62	8.00	7.96	6.76	6.92	7.05	8.55	8.33	8.06
		88	74	4.55	4.87	5.70	5.81	5.76	5.90	4.92	5.16	5.24	5.78	5.36	5.63
		74	63	2.87	2.77	3.43	3.98	3.66	3.90	3.23	3.49	3.53	3.44	3.16	3.47
Clay	Coarse	63	53	2.00	1.63	2.17	3.03	2.50	2.80	2.34	2.65	2.14	2.19	2.09	2.28
		53	44	1.34	0.82	1.21	2.22	1.56	1.85	1.61	1.96	1.86	1.14	1.15	1.31
		44	37	0.84	0.32	0.55	1.47	0.82	1.04	0.98	1.31	1.14	0.46	0.45	0.60
		37	31.2	0.65	0.16	0.30	1.17	0.51	0.69	0.71	1.03	0.79	0.20	0.18	0.29
		31.2	26.3	0.58	0.12	0.22	1.08	0.39	0.55	0.60	0.90	0.60	0.10	0.08	0.17
	Medium	26.3	22.1	0.56	0.26	0.22	1.08	0.35	0.51	0.56	0.85	0.50	0.09	0.07	0.14
		22.1	18.6	0.52	0.28	0.39	1.06	0.39	0.49	0.53	0.80	0.43	0.19	0.15	0.14
		18.6	15.6	0.48	0.30	0.39	1.06	0.62	0.48	0.51	0.76	0.40	0.19	0.16	0.14
		15.6	13.1	0.42	0.29	0.38	1.01	0.59	0.45	0.49	0.69	0.36	0.19	0.15	0.14
		13.1	11	0.39	0.27	0.35	0.94	0.59	0.42	0.47	0.62	0.34	0.17	0.13	0.11
Clay	Fine	11	9.3	0.35	0.25	0.32	0.83	0.56	0.37	0.44	0.54	0.32	0.14	0.10	0.09
		9.3	7.8	0.36	0.27	0.33	0.79	0.58	0.38	0.47	0.51	0.34	0.13	0.09	0.07
		7.8	6.6	0.35	0.27	0.32	0.69	0.55	0.35	0.46	0.45	0.33	0.12	0.07	0.07
		6.6	5.5	0.40	0.31	0.37	0.69	0.60	0.39	0.52	0.46	0.37	0.13	0.08	0.07
		5.5	4.6	0.41	0.34	0.39	0.63	0.58	0.39	0.52	0.42	0.37	0.13	0.08	0.07
	Coarse	4.6	3.9	0.38	0.33	0.37	0.54	0.53	0.37	0.48	0.37	0.34	0.12	0.08	0.08
		3.9	3.3	0.39	0.35	0.39	0.51	0.51	0.38	0.49	0.35	0.35	0.13	0.09	0.08
		3.3	2.8	0.37	0.35	0.39	0.46	0.48	0.37	0.48	0.34	0.34	0.13	0.09	0.09
		2.8	2.3	0.43	0.42	0.47	0.51	0.53	0.43	0.55	0.39	0.40	0.17	0.12	0.11
		2.3	1.95	0.35	0.34	0.38	0.40	0.40	0.35	0.44	0.32	0.32	0.14	0.11	0.09
Clay	Medium	1.95	1.64	0.34	0.35	0.38	0.38	0.38	0.34	0.44	0.32	0.32	0.15	0.11	0.10
		1.64	1.38	0.31	0.32	0.36	0.34	0.34	0.32	0.40	0.32	0.30	0.15	0.11	0.10
		1.38	1.16	0.28	0.30	0.33	0.31	0.30	0.29	0.37	0.31	0.28	0.14	0.11	0.10
		1.16	0.98	0.25	0.27	0.30	0.27	0.25	0.26	0.33	0.28	0.26	0.13	0.11	0.09
		0.98	0.82	0.24	0.27	0.29	0.27	0.24	0.26	0.34	0.40	0.25	0.14	0.11	0.10
	Fine	0.82	0.69	0.22	0.24	0.27	0.24	0.21	0.24	0.32	0.05	0.24	0.13	0.11	0.01
		0.69	0.58	0.23	0.25	0.28	0.25	0.21	0.25	0.35	0.00	0.25	0.13	0.11	0.01
		0.58	0.49	0.25	0.27	0.30	0.28	0.23	0.28	0.40	0.00	0.27	0.14	0.12	0.11
		<0.49		2.89	2.54	3.04	3.37	2.66	2.82	4.35	0.00	2.75	1.11	1.04	0.41
		Very fine													

Table 4c-2. Particle size data for transect 00U-39.

	Microns	00U-39A			00U-39B			00U-39C			00U-39D			00U-39E			00U-39F		
		0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm
Sand	Very coarse	2000	1680		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	707		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00
		707	595		0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.00	0.00
		595	500		0.00	0.00	0.00	0.25	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.00	0.00
	Medium	500	420		0.33	1.71	1.45	2.01	1.13	3.77	1.83	0.41	3.20	1.46	0.49	0.26	0.00	0.00	0.00
		420	354		3.14	5.29	4.87	3.81	3.39	5.52	3.64	2.54	5.02	4.23	3.48	3.08	2.01	0.04	1.85
Silt		354	297		6.58	8.80	8.37	6.39	6.04	7.53	5.59	5.05	7.18	7.55	7.05	6.59	4.47	1.81	3.08
		297	250		9.70	11.73	11.54	9.00	8.76	8.89	7.29	7.33	8.98	10.90	10.28	9.77	6.71	3.70	4.20
	Fine	250	210		12.50	13.98	14.05	11.69	11.30	9.78	8.72	9.58	10.38	13.89	13.33	12.69	9.30	5.73	5.42
		210	177		13.87	13.78	14.07	12.86	12.57	9.36	9.22	10.98	10.35	14.54	14.20	14.19	11.40	7.58	6.25
		177	149		13.57	12.20	12.66	12.94	12.38	8.44	8.94	11.26	9.62	13.65	13.47	13.97	12.79	9.34	6.97
		149	125		11.95	10.45	10.89	12.31	10.91	7.47	8.08	10.48	8.81	11.98	12.15	12.27	12.18	10.66	7.51
	Very fine	125	105		9.65	7.96	8.12	9.72	8.59	5.99	6.90	8.95	7.41	8.79	9.48	9.70	10.15	10.06	7.30
		105	88		7.17	5.59	5.46	6.63	6.26	4.60	5.74	7.08	5.96	5.58	6.60	6.93	8.12	8.96	7.03
		88	74		4.66	3.43	3.21	3.89	4.17	3.33	4.53	4.96	4.37	3.03	3.95	4.28	5.72	7.38	6.45
		74	63		2.64	1.85	1.70	2.06	2.58	2.34	3.41	3.11	2.85	1.48	2.08	2.33	3.49	5.56	5.51
Clay	Coarse	63	53		1.57	1.03	0.97	1.20	1.81	1.99	3.05	2.12	2.08	0.78	1.16	1.34	2.20	4.70	5.34
		53	44		0.78	0.48	0.46	0.62	1.21	1.83	2.81	1.32	1.40	0.34	0.53	0.65	1.17	3.86	5.04
		44	37		0.27	0.16	0.16	0.24	0.73	1.60	2.33	0.70	0.81	0.11	0.18	0.22	0.46	2.76	4.04
	Medium	37	31.2		0.01	0.08	0.07	0.01	0.53	1.56	2.09	0.45	0.52	0.04	0.07	0.09	0.19	2.16	3.37
		31.2	26.3		0.01	0.01	0.02	0.07	0.45	1.55	1.91	0.40	0.39	0.04	0.00	0.01	0.10	1.79	2.83
		26.3	22.1		0.00	0.00	0.04	0.10	0.42	1.51	1.72	0.46	0.34	0.06	0.00	0.00	0.23	1.55	2.37
		22.1	18.6		0.00	0.00	0.06	0.13	0.38	1.35	1.47	0.55	0.33	0.07	0.00	0.00	0.28	1.32	1.91
		18.6	15.6		0.00	0.00	0.08	0.15	0.35	1.19	1.25	0.66	0.35	0.07	0.00	0.00	0.35	1.15	1.57
	Fine	15.6	13.1		0.00	0.00	0.08	0.14	0.30	0.99	1.02	0.74	0.36	0.06	0.00	0.00	0.39	0.96	1.27
		13.1	11		0.00	0.00	0.08	0.12	0.27	0.81	0.84	0.80	0.39	0.04	0.00	0.00	0.41	0.81	1.05
		11	9.3		0.00	0.00	0.06	0.01	0.24	0.65	0.68	0.80	0.39	0.03	0.00	0.00	0.40	0.66	0.85
		9.3	7.8		0.00	0.00	0.06	0.09	0.24	0.57	0.62	0.84	0.44	0.02	0.00	0.00	0.42	0.59	0.77
	Very fine	7.8	6.6		0.00	0.02	0.03	0.09	0.23	0.47	0.53	0.78	0.44	0.01	0.00	0.00	0.40	0.49	0.64
		6.6	5.5		0.02	0.02	0.04	0.11	0.27	0.45	0.52	0.81	0.49	0.02	0.03	0.03	0.44	0.49	0.62
		5.5	4.6		0.03	0.03	0.05	0.13	0.28	0.40	0.46	0.73	0.48	0.03	0.04	0.05	0.43	0.44	0.54
		4.6	3.9		0.04	0.04	0.05	0.14	0.26	0.33	0.39	0.61	0.44	0.04	0.05	0.06	0.39	0.38	0.44
	Coarse	3.9	3.3		0.05	0.05	0.06	0.16	0.27	0.30	0.36	0.56	0.43	0.05	0.06	0.07	0.38	0.37	0.40
		3.3	2.8		0.05	0.05	0.06	0.17	0.27	0.28	0.32	0.50	0.40	0.05	0.06	0.07	0.36	0.35	0.36
		2.8	2.3		0.07	0.07	0.08	0.21	0.33	0.31	0.35	0.54	0.45	0.06	0.08	0.09	0.41	0.41	0.40
		2.3	1.95		0.07	0.06	0.07	0.18	0.27	0.24	0.27	0.41	0.35	0.06	0.07	0.08	0.32	0.33	0.31

Table 4c-2. Particle size data for transect 00U-39—Continued.

	Microns		00U-39M			00U-39N			00U-39O			
			0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	841	707	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.14	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	500	0.65	0.99	0.43	0.00	0.00	0.00	0.00	0.00	0.00
		500	420	1.23	1.58	1.72	0.00	0.00	0.00	1.12	1.14	0.17
		420	354	2.08	2.24	2.78	0.00	0.00	0.78	3.58	3.45	1.53
Silt	Medium	354	297	3.25	3.02	4.11	1.27	1.04	2.08	6.03	5.69	3.20
		297	250	4.47	3.71	5.28	3.01	2.80	3.28	8.17	7.68	4.73
		250	210	5.92	4.58	6.45	5.09	4.70	4.81	9.99	9.39	6.34
		210	177	7.22	5.44	7.21	7.26	6.80	6.37	10.81	10.20	7.50
		177	149	8.80	6.74	8.05	9.72	9.15	8.16	10.77	10.25	8.49
	Fine	149	125	9.83	8.01	8.55	12.16	11.48	9.99	10.06	9.61	9.19
		125	105	9.87	8.91	8.46	12.16	11.61	10.24	8.85	8.36	8.69
		105	88	9.49	9.43	8.26	11.15	10.90	9.94	7.44	6.87	7.98
		88	74	8.13	8.95	7.45	9.02	9.19	8.78	5.66	5.01	6.81
		74	63	6.14	7.44	6.06	6.32	6.30	6.84	3.86	3.46	5.28
Clay	Coarse	63	53	4.97	6.55	5.36	4.69	5.39	5.71	2.86	2.63	4.50
		53	44	3.71	5.24	4.39	3.16	3.90	4.36	1.94	1.91	3.59
		44	37	2.28	3.39	2.94	1.73	2.31	2.71	1.07	1.21	2.37
		37	31.2	1.47	2.26	2.03	0.99	1.43	1.74	0.63	0.87	1.64
		31.2	26.3	0.96	1.51	1.40	0.58	0.91	1.13	0.39	0.69	1.16
	Medium	26.3	22.1	0.67	1.02	0.97	0.42	0.64	0.78	0.29	0.60	0.88
		22.1	18.6	0.50	0.70	0.68	0.39	0.51	0.58	0.26	0.55	0.71
		18.6	15.6	0.43	0.54	0.52	0.44	0.50	0.53	0.26	0.53	0.65
		15.6	13.1	0.40	0.47	0.43	0.50	0.51	0.52	0.27	0.51	0.63
		13.1	11	0.39	0.44	0.39	0.54	0.52	0.53	0.27	0.51	0.63
Very fine	Fine	11	9.3	0.37	0.41	0.36	0.54	0.51	0.53	0.27	0.49	0.62
		9.3	7.8	0.38	0.41	0.36	0.56	0.54	0.56	0.28	0.52	0.66
		7.8	6.6	0.35	0.37	0.33	0.53	0.50	0.53	0.26	0.51	0.64
		6.6	5.5	0.37	0.37	0.34	0.58	0.54	0.57	0.29	0.57	0.70
		5.5	4.6	0.35	0.33	0.32	0.57	0.52	0.54	0.29	0.56	0.68
	Coarse	4.6	3.9	0.31	0.29	0.28	0.52	0.47	0.49	0.26	0.51	0.62
		3.9	3.3	0.32	0.28	0.27	0.53	0.47	0.49	0.26	0.50	0.62
		3.3	2.8	0.32	0.27	0.26	0.51	0.46	0.49	0.26	0.47	0.60
		2.8	2.3	0.39	0.33	0.32	0.59	0.53	0.58	0.30	0.54	0.70
		2.3	1.95	0.33	0.28	0.27	0.46	0.43	0.48	0.24	0.41	0.56
Very coarse	Medium	1.95	1.64	0.33	0.29	0.27	0.43	0.41	0.47	0.23	0.39	0.56
		1.64	1.38	0.32	0.28	0.27	0.39	0.37	0.44	0.22	0.35	0.51
		1.38	1.16	0.29	0.26	0.25	0.33	0.33	0.40	0.20	0.30	0.47
		1.16	0.98	0.25	0.22	0.22	0.27	0.27	0.35	0.18	0.26	0.42
		0.98	0.82	0.25	0.23	0.22	0.26	0.27	0.34	0.17	0.26	0.41
	Fine	0.82	0.69	0.25	0.22	0.21	0.25	0.26	0.32	0.16	0.25	0.37
		0.69	0.58	0.28	0.25	0.22	0.27	0.28	0.34	0.16	0.27	0.38
		0.58	0.49	0.31	0.27	0.24	0.31	0.32	0.37	0.17	0.30	0.41
		<0.49		1.24	1.13	1.09	1.39	1.46	1.87	1.25	1.36	3.42

Table 4c-3. Particle size data for auger hole 00U-40. This auger hole anchors the 00U-39 transect.

	Microns	00U-40																	
		0-10 cm	10-30 cm	30-48 cm	48-64 cm	64-82 cm	82-102 cm	102-121 cm	121-142 cm	142-154 cm	154-168 cm	168-183 cm	183-193 cm	193-204 cm	204-217 cm				
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
	Medium	500	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
		420	354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Silt		354	297	0.05	0.03	1.07	0.04	0.01	0.02	3.39	6.70	6.65	7.28	7.81	7.52				
		297	250	2.36	1.58	2.93	1.95	0.92	1.32	4.81	8.98	9.01	8.66	9.49	10.01				
		250	210	4.10	3.32	4.87	3.85	2.62	2.95	6.09	11.19	10.37	11.39	11.81	11.75				
		210	177	5.88	5.01	6.61	5.71	4.20	4.53	6.84	12.12	10.72	11.65	11.90	11.93				
		177	149	7.77	6.81	8.30	7.69	5.89	6.09	7.53	11.99	10.41	11.05	11.08	11.12				
		149	125	9.49	8.51	9.58	9.54	7.57	7.32	7.84	12.07	9.79	10.28	10.12	10.15				
		125	105	10.09	9.33	9.82	10.30	8.54	7.60	7.61	10.80	8.47	8.64	8.42	8.39				
		105	88	9.25	8.82	8.85	9.52	7.21	7.31	7.31	9.24	6.98	6.82	6.62	6.52				
		88	74	7.71	7.64	7.33	7.97	7.79	5.99	6.52	7.01	5.21	5.14	4.81	4.66				
		74	63	5.83	6.01	5.52	6.03	6.31	4.64	5.31	4.70	3.52	3.70	3.05	2.93				
Clay	Coarse	63	53	4.87	5.20	4.58	5.03	5.69	4.09	4.80	2.61	2.26	2.82	2.11	1.98				
		53	44	3.84	4.24	3.56	3.96	4.91	3.56	4.12	1.80	1.41	2.02	1.33	1.18				
		44	37	2.57	2.90	2.32	2.64	3.59	2.74	2.96	1.11	1.03	1.21	0.69	0.56				
		37	31.2	1.86	2.14	1.63	1.90	2.80	2.35	2.23	0.58	0.64	0.77	0.38	0.25				
		31.2	26.3	1.44	1.67	1.23	1.48	2.28	2.17	1.72	0.32	0.42	0.51	0.23	0.15				
		26.3	22.1	1.22	1.42	1.04	1.26	1.97	2.12	1.37	0.22	0.31	0.36	0.17	0.11				
		22.1	18.6	1.01	1.27	0.94	1.14	1.73	2.07	1.11	0.21	0.25	0.19	0.26	0.14				
		18.6	15.6	1.08	1.25	0.94	1.12	1.64	2.01	0.98	0.23	0.22	0.17	0.21	0.13				
		15.6	13.1	1.06	1.25	0.95	1.10	1.56	2.08	0.90	0.23	0.19	0.15	0.17	0.13				
		13.1	11	1.07	1.27	0.97	1.11	1.52	2.09	0.86	0.23	0.17	0.12	0.15	0.12				
Clay	Fine	11	9.3	1.04	1.25	0.95	1.07	1.43	2.02	0.82	0.21	0.15	0.09	0.13	0.11				
		9.3	7.8	1.01	1.33	1.01	1.12	1.48	2.14	0.86	0.20	0.15	0.12	0.10	0.07				
		7.8	6.6	1.05	1.29	0.97	1.06	1.37	2.04	0.81	0.17	0.13	0.09	0.06	0.11				
		6.6	5.5	1.15	1.41	1.06	1.15	1.45	2.21	0.87	0.18	0.14	0.10	0.06	0.13				
		5.5	4.6	1.12	1.37	1.04	1.11	1.35	2.10	0.83	0.18	0.14	0.10	0.06	0.13				
		4.6	3.9	1.01	1.23	0.94	0.99	1.17	1.84	0.74	0.17	0.13	0.07	0.06	0.13				
		3.9	3.3	0.99	1.19	0.93	0.96	1.11	1.74	0.71	0.18	0.14	0.08	0.11	0.13				
		3.3	2.8	0.94	1.11	0.88	0.90	1.02	1.56	0.67	0.18	0.14	0.08	0.11	0.13				
		2.8	2.3	1.06	1.24	0.99	1.01	1.12	1.66	0.76	0.23	0.18	0.10	0.07	0.16				
		2.3	1.95	0.81	0.94	0.77	0.77	0.84	1.19	0.59	0.19	0.15	0.09	0.12	0.14				
Clay	Coarse	1.95	1.64	0.76	0.87	0.73	0.72	0.78	1.06	0.57	0.20	0.16	0.13	0.12	0.09				
		1.64	1.38	0.68	0.75	0.64	0.63	0.69	0.88	0.52	0.20	0.16	0.13	0.13	0.10				
		1.38	1.16	0.58	0.64	0.56	0.54	0.59	0.72	0.46	0.19	0.16	0.13	0.13	0.10				
		1.16	0.98	0.49	0.53	0.48	0.45	0.49	0.58	0.40	0.18	0.15	0.12	0.10	0.13				
		0.98	0.82	0.48	0.50	0.46	0.44	0.48	0.52	0.39	0.18	0.15	0.13	0.13	0.11				
		0.82	0.69	0.45	0.45	0.42	0.41	0.44	0.44	0.36	0.17	0.15	0.13	0.13	0.10				
		0.69	0.58	0.49	0.48	0.44	0.45	0.47	0.44	0.37	0.18	0.15	0.14	0.14	0.11				
		0.58	0.49	0.54	0.52	0.47	0.49	0.52	0.47	0.39	0.19	0.16	0.16	0.12	0.14				
		<0.49		2.66	3.27	3.26	2.42	2.82	3.37	2.35	1.09	1.00	0.69	0.85	1.06				
	Very fine																		

Table 4d-1. Particle size data for transect 00U-35.

	Microns	00U-35A			00U-35B			00U-35C			00U-35D		
		0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm
Sand	Very coarse	2000	1680	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.18	0.00	0.58	0.00	0.16	0.05	0.00	0.70	0.26	0.11
		420	354	2.31	1.24	2.83	2.55	2.77	1.67	0.99	2.77	2.08	1.81
Silt		354	297	4.97	3.25	5.37	5.57	5.01	4.00	2.99	5.51	4.29	3.96
		297	250	7.38	5.04	7.66	8.27	7.02	6.05	4.84	7.55	6.29	5.90
	Fine	250	210	9.51	6.92	9.62	10.48	8.77	8.06	6.76	9.28	8.09	7.72
		210	177	10.51	8.28	10.41	11.17	9.63	9.29	8.12	10.06	9.03	8.74
		177	149	10.55	9.55	10.31	10.68	9.83	10.26	9.42	10.20	9.67	9.49
		149	125	9.99	10.15	9.65	9.53	9.57	10.42	10.11	9.94	9.66	9.59
		125	105	8.97	9.86	8.58	8.04	8.88	9.72	9.98	9.20	8.97	8.96
	Very fine	105	88	7.78	9.37	7.41	6.57	8.01	8.89	9.58	8.23	8.24	8.27
		88	74	6.14	8.06	5.85	4.91	6.61	7.35	8.25	6.66	6.98	7.02
		74	63	4.33	6.13	4.17	3.33	4.89	5.33	6.24	4.75	5.33	5.36
Clay	Coarse	63	53	3.33	5.01	3.26	2.52	3.94	4.23	5.03	3.64	4.45	4.47
		53	44	2.37	3.76	2.39	1.81	2.92	3.04	3.69	2.52	3.44	3.48
		44	37	1.41	2.31	1.47	1.13	1.76	1.78	2.20	1.41	2.18	2.23
		37	31.2	0.89	1.47	0.97	0.79	1.09	1.08	1.36	0.81	1.43	1.50
	Medium	31.2	26.3	0.59	0.95	0.67	0.61	0.68	0.67	0.85	0.46	0.94	1.02
		26.3	22.1	0.43	0.63	0.50	0.54	0.44	0.44	0.55	0.27	0.64	0.73
		22.1	18.6	0.34	0.45	0.40	0.51	0.31	0.33	0.40	0.18	0.45	0.54
		18.6	15.6	0.32	0.38	0.37	0.52	0.28	0.30	0.36	0.17	0.37	0.46
	Fine	15.6	13.1	0.32	0.35	0.36	0.54	0.28	0.31	0.36	0.18	0.34	0.42
		13.1	11	0.33	0.35	0.36	0.57	0.29	0.32	0.38	0.20	0.33	0.41
	Very fine	11	9.3	0.33	0.34	0.36	0.57	0.29	0.31	0.38	0.20	0.32	0.40
		9.3	7.8	0.36	0.36	0.38	0.62	0.32	0.33	0.41	0.21	0.34	0.42
		7.8	6.6	0.35	0.34	0.37	0.60	0.30	0.31	0.38	0.20	0.32	0.39
		6.6	5.5	0.39	0.36	0.40	0.66	0.33	0.33	0.41	0.21	0.34	0.43
		5.5	4.6	0.38	0.35	0.39	0.63	0.32	0.31	0.38	0.20	0.32	0.41
		4.6	3.9	0.35	0.31	0.35	0.55	0.29	0.28	0.35	0.19	0.29	0.37
	Coarse	3.9	3.3	0.36	0.31	0.35	0.53	0.30	0.29	0.35	0.19	0.29	0.37
		3.3	2.8	0.35	0.30	0.30	0.50	0.30	0.29	0.35	0.20	0.30	0.36
		2.8	2.3	0.42	0.37	0.40	0.55	0.36	0.35	0.43	0.25	0.35	0.45
		2.3	1.95	0.34	0.30	0.32	0.42	0.30	0.30	0.35	0.21	0.30	0.37
	Medium	1.95	1.64	0.34	0.31	0.32	0.40	0.31	0.30	0.35	0.22	0.30	0.36
		1.64	1.38	0.32	0.29	0.30	0.36	0.29	0.29	0.34	0.22	0.29	0.35
		1.38	1.16	0.29	0.27	0.27	0.31	0.27	0.27	0.31	0.20	0.27	0.33
		1.16	0.98	0.25	0.23	0.23	0.26	0.24	0.24	0.28	0.18	0.24	0.29
	Fine	0.98	0.82	0.25	0.23	0.23	0.25	0.23	0.24	0.27	0.18	0.24	0.29
		0.82	0.69	0.24	0.22	0.22	0.23	0.21	0.22	0.26	0.17	0.22	0.27
		0.69	0.58	0.26	0.24	0.24	0.24	0.21	0.23	0.28	0.18	0.23	0.29
		0.58	0.49	0.28	0.25	0.24	0.26	0.22	0.25	0.30	0.19	0.24	0.31
	Very fine	<0.49		1.23	1.12	1.14	1.26	1.25	1.24	1.37	0.94	1.18	1.60

Table 4d-2. Particle size data for auger hole 00U-36. This auger hole anchors the 00U-35 transect.

	Microns		00U-36									
			0-10 cm	10-30 cm	30-46 cm	46-68 cm	68-86 cm	86-97 cm	97-108 cm	108-120 cm	120-130 cm	
Sand	Very coarse	2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Coarse	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		420	1.16	0.00	1.12	0.00	0.17	0.00	0.97	0.00	1.19	
Silt	Medium	354	3.91	0.00	3.63	1.61	1.98	1.08	3.06	0.97	3.60	
		297	6.73	0.00	6.16	4.08	4.21	2.82	5.13	2.84	5.95	
		250	9.24	0.13	8.41	6.37	6.23	4.36	6.99	4.55	8.05	
		210	11.14	2.30	10.08	8.46	8.07	5.96	8.55	6.34	9.70	
		177	11.51	4.08	10.40	9.58	9.08	7.21	9.19	7.66	10.19	
	Fine	149	10.82	6.10	9.85	10.26	9.78	8.40	9.20	8.82	9.84	
		125	9.58	8.27	8.86	10.11	9.76	9.49	8.79	9.76	8.99	
		105	8.06	9.79	7.63	9.19	9.01	9.35	8.02	9.43	7.82	
		88	6.61	10.55	6.48	8.23	8.19	8.92	7.19	8.82	6.65	
		74	5.00	9.47	5.15	6.74	6.82	7.82	5.99	7.63	5.27	
Clay	Coarse	74	3.43	7.79	3.78	4.96	5.01	6.12	4.57	5.94	3.85	
		63	2.59	7.02	3.11	3.97	4.15	5.19	3.87	5.07	3.16	
		53	1.83	5.94	2.45	2.95	3.12	4.07	3.12	4.06	2.49	
		44	1.08	4.14	1.63	1.81	1.93	2.63	2.10	2.70	1.67	
		37	0.68	3.01	1.15	1.16	1.24	1.78	1.50	1.90	1.20	
	Medium	31.2	0.45	2.21	0.83	0.77	0.82	1.24	1.01	1.37	0.89	
		26.3	0.31	1.69	0.62	0.55	0.58	0.92	0.84	1.03	0.70	
		22.1	0.24	1.31	0.48	0.42	0.44	0.73	0.65	0.80	0.55	
		18.6	0.21	1.11	0.41	0.38	0.40	0.66	0.56	0.68	0.47	
		15.6	0.20	0.98	0.37	0.37	0.39	0.63	0.50	0.59	0.41	
	Fine	13.1	0.20	0.92	0.36	0.38	0.39	0.61	0.46	0.54	0.38	
		11	0.20	0.84	0.35	0.37	0.38	0.58	0.42	0.49	0.35	
		9.3	0.22	0.85	0.37	0.39	0.40	0.58	0.42	0.49	0.36	
		7.8	0.21	0.78	0.36	0.37	0.38	0.53	0.39	0.45	0.34	
		6.6	0.24	0.81	0.39	0.40	0.41	0.56	0.41	0.47	0.36	
	Very fine	5.5	0.24	0.75	0.37	0.39	0.40	0.52	0.39	0.45	0.36	
		4.6	0.22	0.66	0.34	0.36	0.36	0.47	0.35	0.41	0.33	
		3.9	0.23	0.64	0.33	0.35	0.36	0.46	0.34	0.40	0.32	
		3.3	0.23	0.62	0.32	0.34	0.35	0.44	0.32	0.38	0.31	
		2.8	0.28	0.72	0.38	0.39	0.41	0.51	0.37	0.44	0.36	
	Coarse	2.3	0.24	0.59	0.31	0.31	0.33	0.41	0.31	0.35	0.29	
		1.95	0.24	0.58	0.31	0.32	0.34	0.42	0.31	0.36	0.30	
		1.64	0.24	0.55	0.30	0.31	0.33	0.41	0.30	0.36	0.29	
		1.38	0.22	0.51	0.28	0.30	0.32	0.39	0.30	0.34	0.28	
		1.16	0.20	0.44	0.25	0.28	0.29	0.36	0.27	0.32	0.26	
	Medium	0.98	0.19	0.43	0.24	0.28	0.29	0.36	0.28	0.32	0.26	
		0.82	0.18	0.40	0.22	0.26	0.27	0.34	0.26	0.31	0.24	
		0.69	0.18	0.42	0.23	0.26	0.28	0.34	0.26	0.32	0.23	
		0.58	0.19	0.46	0.24	0.26	0.28	0.35	0.26	0.32	0.23	
		<0.49	1.08	2.15	1.49	1.73	1.96	2.01	1.74	1.53	1.57	

[illegible]

Table 4e-1. Particle size data for the GP transect.

	Microns	GP-A			GP-B			GP-C			GP-D			GP-E			GP-F		
		0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.48	0.80	1.78	0.84	0.84	0.60
		420	354	1.79	2.97	1.92	1.34	1.56	1.45	0.27	0.91	1.01	1.46	2.86	2.41	3.21	3.42	2.54	2.11
Silt		354	297	4.67	5.23	4.68	3.39	4.05	4.28	2.73	2.67	2.72	4.09	5.65	4.38	5.24	5.55	4.64	4.14
		297	250	7.24	7.66	7.09	6.02	6.57	6.90	5.25	4.90	4.79	6.49	8.19	6.55	7.34	7.50	7.01	6.51
	Fine	250	210	9.92	10.29	9.67	8.83	9.28	9.77	7.93	7.66	7.40	9.16	10.63	8.94	9.60	9.56	9.60	9.21
		210	177	11.98	12.30	11.93	11.16	11.50	11.85	10.22	10.20	9.84	11.16	12.04	10.82	11.27	10.85	11.62	11.53
		177	149	12.77	13.11	13.05	13.03	13.25	13.35	12.29	12.74	12.33	12.73	12.10	11.74	11.91	11.12	12.49	12.76
		149	125	12.28	12.44	12.80	12.92	13.01	12.86	12.61	13.54	13.15	12.51	11.00	11.51	11.26	10.43	11.96	12.57
	Very fine	125	105	10.78	10.28	11.11	11.09	10.92	10.73	11.31	12.22	11.93	10.71	9.22	10.14	9.43	9.09	10.08	10.82
		105	88	8.68	7.43	8.52	8.99	8.48	8.42	9.64	10.02	9.93	8.65	7.21	8.17	7.15	7.45	7.64	8.26
		88	74	6.08	4.63	5.58	6.40	5.75	5.79	7.24	7.03	7.14	6.17	5.03	5.81	4.80	5.46	5.11	5.49
	Coarse	74	63	3.70	2.63	3.24	4.00	3.50	3.51	4.77	4.36	4.52	3.91	3.15	3.73	2.95	3.56	3.13	3.31
Clay		63	53	2.38	1.68	2.08	2.67	2.35	2.28	3.36	2.99	3.14	2.70	2.15	2.65	2.06	2.51	2.17	2.25
		53	44	1.32	1.00	1.22	1.55	1.47	1.30	2.11	1.93	2.02	1.69	1.34	1.78	1.38	1.62	1.45	1.46
		44	37	0.54	0.50	0.58	0.70	0.76	0.57	1.06	1.04	1.08	0.87	0.72	1.02	0.82	0.86	0.85	0.83
		37	31.2	0.22	0.30	0.31	0.33	0.46	0.26	0.57	0.62	0.62	0.50	0.45	0.67	0.59	0.52	0.59	0.55
	Medium	31.2	26.3	0.12	0.27	0.24	0.21	0.35	0.17	0.36	0.42	0.39	0.36	0.36	0.51	0.52	0.38	0.49	0.45
		26.3	22.1	0.14	0.31	0.28	0.22	0.35	0.18	0.32	0.36	0.32	0.33	0.35	0.46	0.51	0.35	0.47	0.44
		22.1	18.6	0.19	0.34	0.33	0.27	0.36	0.23	0.34	0.36	0.32	0.34	0.34	0.44	0.50	0.36	0.46	0.44
		18.6	15.6	0.23	0.34	0.35	0.32	0.38	0.27	0.37	0.38	0.34	0.36	0.44	0.44	0.49	0.38	0.44	0.44
	Fine	15.6	13.1	0.25	0.31	0.33	0.33	0.35	0.27	0.38	0.36	0.34	0.34	0.32	0.41	0.44	0.37	0.40	0.39
		13.1	11	0.24	0.26	0.30	0.31	0.31	0.26	0.35	0.33	0.33	0.31	0.30	0.38	0.39	0.36	0.35	0.35
Clay		11	9.3	0.20	0.22	0.24	0.28	0.27	0.24	0.31	0.29	0.30	0.26	0.27	0.33	0.34	0.33	0.30	0.29
		9.3	7.8	0.19	0.20	0.22	0.27	0.25	0.23	0.29	0.27	0.30	0.25	0.27	0.33	0.33	0.33	0.29	0.27
	Very fine	7.8	6.6	0.17	0.18	0.19	0.25	0.22	0.22	0.25	0.23	0.27	0.22	0.25	0.30	0.29	0.30	0.27	0.24
		6.6	5.5	0.19	0.20	0.21	0.27	0.23	0.25	0.26	0.25	0.30	0.23	0.28	0.32	0.32	0.33	0.29	0.26
		5.5	4.6	0.19	0.20	0.20	0.28	0.23	0.26	0.25	0.24	0.30	0.23	0.28	0.31	0.31	0.32	0.28	0.25
		4.6	3.9	0.19	0.19	0.19	0.27	0.22	0.25	0.24	0.22	0.28	0.21	0.26	0.28	0.28	0.30	0.26	0.23
	Coarse	3.9	3.3	0.20	0.19	0.20	0.28	0.22	0.27	0.25	0.22	0.30	0.22	0.27	0.29	0.28	0.31	0.26	0.23
		3.3	2.8	0.21	0.19	0.20	0.29	0.22	0.27	0.26	0.23	0.30	0.22	0.27	0.28	0.27	0.31	0.26	0.23
		2.8	2.3	0.25	0.23	0.24	0.35	0.27	0.33	0.32	0.28	0.38	0.27	0.32	0.34	0.32	0.37	0.31	0.28
		2.3	1.95	0.21	0.19	0.20	0.30	0.23	0.27	0.28	0.23	0.32	0.23	0.27	0.28	0.27	0.31	0.26	0.23
Clay		1.95	1.64	0.22	0.20	0.21	0.31	0.24	0.28	0.29	0.24	0.32	0.24	0.27	0.29	0.27	0.31	0.26	0.24
		1.64	1.38	0.21	0.20	0.21	0.30	0.24	0.27	0.28	0.24	0.32	0.23	0.27	0.29	0.27	0.30	0.26	0.24
		1.38	1.16	0.20	0.18	0.20	0.28	0.23	0.25	0.28	0.23	0.30	0.22	0.25	0.27	0.25	0.29	0.24	0.22
		1.16	0.98	0.18	0.16	0.17	0.26	0.20	0.22	0.26	0.20	0.26	0.20	0.23	0.24	0.21	0.26	0.21	0.19
	Medium	0.98	0.82	0.18	0.16	0.18	0.26	0.21	0.22	0.26	0.20	0.26	0.21	0.23	0.25	0.22	0.23	0.22	0.20
		0.82	0.69	0.17	0.17	0.18	0.25	0.22	0.20	0.25	0.21	0.26	0.20	0.24	0.25	0.23	0.24	0.23	0.21
		0.69	0.58	0.17	0.18	0.19	0.26	0.24	0.20	0.27	0.23	0.28	0.21	0.25	0.27	0.25	0.25	0.26	0.23
		0.58	0.49	0.17	0.19	0.21	0.27	0.27	0.20	0.28	0.25	0.30	0.23	0.27	0.29	0.28	0.26	0.29	0.26
		<0.49		0.99	0.56	0.76	1.57	1.02	0.89	1.67	0.73	1.00	1.10	1.14	1.08	0.94	1.77	0.95	0.82
	Very fine																		

Table 4f-1. Particle size data for the 00U-41 transect.

	Microns	00U-41A		00U-41B			00U-41C			00U-41D			00U-41E		
		0-10 cm	10-25 cm	0-10 cm	10-25 cm	25-45 cm	0-10 cm	10-20 cm	20-30 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00	0.04	0.55	0.00	0.02	0.00	0.00	0.00
		707	595	0.00	0.00	0.32	1.72	0.99	0.30	1.28	0.00	0.34	0.01	0.00	0.00
		595	500	0.60	0.00	2.12	3.33	1.96	1.91	2.13	0.39	1.29	0.94	0.00	0.52
	Medium	500	420	2.43	1.06	3.92	4.99	3.44	3.50	3.43	1.69	2.07	2.00	0.35	1.86
		420	354	4.61	3.36	6.11	6.63	5.39	5.42	5.07	2.82	2.95	3.22	1.17	2.83
Silt		354	297	7.70	5.66	8.88	8.63	8.00	8.09	7.35	4.23	4.05	4.82	2.27	4.00
		297	250	10.56	7.85	11.21	10.07	10.46	10.62	9.48	5.47	5.02	6.31	3.63	4.98
	Fine	250	210	12.99	9.97	12.76	11.06	12.47	12.67	11.68	6.75	6.11	7.86	5.37	5.98
		210	177	13.32	11.23	12.11	10.61	12.63	12.72	12.40	7.60	7.02	9.02	7.18	6.66
		177	149	12.43	11.47	11.28	10.20	12.65	12.54	12.00	8.44	7.93	9.80	9.30	7.47
		149	125	11.04	10.80	9.65	9.21	11.28	11.12	10.95	8.70	8.69	10.08	11.50	7.92
		125	105	8.45	9.50	7.22	7.34	8.26	8.24	8.48	8.23	8.90	9.62	11.72	7.76
	Very fine	105	88	5.80	7.93	4.96	5.34	5.19	5.33	5.85	7.67	8.76	8.69	11.15	7.43
		88	74	3.53	6.00	3.06	3.43	2.80	2.96	3.53	6.61	7.82	7.07	9.52	6.47
		74	63	1.98	4.10	1.71	1.97	1.37	1.48	1.92	5.19	6.22	5.09	7.07	5.05
Clay	Coarse	63	53	1.21	3.09	1.03	1.22	0.73	0.78	1.12	4.53	5.35	3.94	5.50	4.30
		53	44	0.65	2.15	0.55	0.66	0.33	0.35	0.56	3.76	4.21	2.76	3.81	3.41
		44	37	0.26	1.25	0.32	0.24	0.11	0.11	0.20	2.62	2.69	1.55	2.11	2.25
		37	31.2	0.12	0.77	0.14	0.13	0.04	0.05	0.08	1.93	1.75	0.89	1.19	1.58
	Medium	31.2	26.3	0.08	0.50	0.09	0.12	0.04	0.04	0.06	1.45	1.12	0.51	0.65	1.17
		26.3	22.1	0.09	0.35	0.09	0.12	0.05	0.06	0.07	1.13	0.71	0.29	0.35	0.96
		22.1	18.6	0.09	0.26	0.01	0.12	0.06	0.08	0.09	0.89	0.45	0.19	0.21	0.85
		18.6	15.6	0.09	0.20	0.01	0.11	0.07	0.08	0.09	0.75	0.33	0.16	0.18	0.86
	Fine	15.6	13.1	0.08	0.16	0.08	0.09	0.06	0.07	0.08	0.65	0.27	0.17	0.20	0.90
		13.1	11	0.07	0.12	0.06	0.07	0.05	0.05	0.06	0.58	0.25	0.18	0.23	0.96
Clay		11	9.3	0.05	0.09	0.04	0.06	0.03	0.04	0.04	0.52	0.25	0.18	0.24	0.97
		9.3	7.8	0.05	0.08	0.03	0.06	0.02	0.03	0.03	0.51	0.27	0.19	0.25	1.05
	Very fine	7.8	6.6	0.05	0.06	0.03	0.06	0.01	0.02	0.03	0.46	0.26	0.18	0.24	1.01
		6.6	5.5	0.06	0.06	0.04	0.07	0.02	0.03	0.03	0.48	0.28	0.20	0.25	1.10
		5.5	4.6	0.07	0.06	0.04	0.08	0.03	0.04	0.04	0.44	0.27	0.19	0.24	1.05
		4.6	3.9	0.07	0.06	0.05	0.08	0.03	0.05	0.05	0.38	0.24	0.18	0.22	0.93
	Coarse	3.9	3.3	0.07	0.06	0.05	0.08	0.04	0.05	0.05	0.37	0.24	0.19	0.22	0.88
		3.3	2.8	0.08	0.06	0.06	0.08	0.04	0.05	0.05	0.35	0.24	0.19	0.23	0.81
		2.8	2.3	0.09	0.08	0.07	0.01	0.05	0.07	0.07	0.40	0.29	0.24	0.28	0.89
		2.3	1.95	0.08	0.08	0.06	0.08	0.04	0.06	0.06	0.32	0.25	0.21	0.24	0.66
Clay	Medium	1.95	1.64	0.09	0.09	0.09	0.09	0.05	0.06	0.07	0.32	0.26	0.22	0.25	0.60
		1.64	1.38	0.09	0.09	0.09	0.09	0.06	0.07	0.08	0.31	0.25	0.22	0.25	0.52
		1.38	1.16	0.09	0.01	0.08	0.09	0.06	0.07	0.08	0.28	0.24	0.21	0.23	0.43
		1.16	0.98	0.09	0.01	0.08	0.09	0.06	0.07	0.08	0.25	0.21	0.18	0.20	0.34
		0.98	0.82	0.09	0.10	0.08	0.09	0.06	0.08	0.08	0.25	0.21	0.19	0.21	0.31
		0.82	0.69	0.01	0.10	0.09	0.01	0.07	0.08	0.08	0.24	0.21	0.19	0.22	0.26
	Fine	0.69	0.58	0.11	0.11	0.09	0.11	0.08	0.09	0.09	0.25	0.23	0.21	0.24	0.26
		0.58	0.49	0.12	0.11	0.01	0.12	0.09	0.01	0.01	0.27	0.26	0.24	0.28	0.27
	Very fine	<0.49		0.39	0.75	0.44	0.62	0.29	0.39	0.47	1.53	1.25	1.13	1.08	1.45

Table 4f-1. Particle size data for the 00U-41 transect—Continued.

Microns		00U-41F			00U-41G			00U-41H1			00U-41H2		
		0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm	0-10 cm	10-30 cm	30-50 cm
Sand	Very coarse	2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sand		500	0.00	0.42	0.42	1.00	0.00	3.83	0.00	0.58	0.20	0.54	1.43
	Medium	420	0.00	2.11	1.84	1.91	0.00	5.08	0.57	0.41	1.29	1.04	3.07
		420	0.99	3.73	3.09	3.27	1.07	6.02	1.72	2.25	2.38	1.72	4.99
		354	2.58	5.82	4.54	5.20	2.82	6.90	3.20	4.36	3.91	2.81	7.48
		297	4.44	7.77	5.77	7.17	4.89	7.11	4.94	6.29	5.57	4.19	9.67
		250	6.74	9.70	6.88	9.29	7.43	7.20	7.03	8.41	7.50	6.04	11.69
	Fine	210	8.98	10.93	7.49	11.00	9.84	6.85	8.99	10.12	9.19	7.99	12.20
		177	11.62	11.41	8.06	12.01	12.59	6.71	11.34	11.64	11.17	10.45	11.83
		149	13.09	11.02	8.20	12.26	13.88	6.58	12.58	11.80	12.01	12.03	11.01
		125	12.84	9.78	7.76	11.16	13.13	6.12	12.21	10.65	11.54	12.18	8.91
Silt	Very fine	105	11.51	8.04	7.26	9.03	11.16	5.60	10.87	9.20	10.16	11.39	6.46
		88	8.79	5.84	6.27	6.17	7.99	4.73	8.26	7.05	7.68	9.06	4.07
		74	5.76	3.76	4.89	3.61	4.93	3.62	5.40	4.73	5.01	4.61	2.30
	Coarse	63	3.94	2.61	4.19	2.23	3.22	3.04	3.74	3.37	3.44	3.05	1.40
		53	2.40	1.63	3.33	1.20	1.88	2.36	2.32	2.11	2.10	1.82	2.60
		44	1.16	0.81	2.16	0.50	0.88	1.51	1.16	1.01	1.03	0.86	1.26
		37	0.56	0.42	1.45	0.20	0.40	1.00	0.58	0.47	0.51	0.40	0.13
	Medium	31.2	0.25	0.22	0.99	0.07	0.17	0.67	0.27	0.22	0.24	0.18	0.27
		26.3	0.11	0.14	0.71	0.05	0.09	0.48	0.14	0.15	0.13	0.11	0.12
		22.1	0.09	0.12	0.56	0.06	0.01	0.38	0.12	0.17	0.12	0.12	0.09
Clay		18.6	0.12	0.14	0.52	0.08	0.13	0.36	0.16	0.23	0.16	0.16	0.13
		15.6	0.15	0.14	0.51	0.01	0.16	0.37	0.19	0.28	0.19	0.20	0.18
	Fine	13.1	0.17	0.15	0.53	0.01	0.16	0.40	0.21	0.31	0.21	0.21	0.21
		11	0.16	0.14	0.53	0.08	0.14	0.41	0.20	0.30	0.20	0.20	0.21
		9.3	0.16	0.14	0.57	0.07	0.13	0.45	0.19	0.30	0.19	0.19	0.21
	Very fine	7.8	0.14	0.12	0.55	0.05	0.11	0.44	0.17	0.28	0.17	0.17	0.19
		6.6	0.14	0.13	0.60	0.05	0.11	0.49	0.17	0.30	0.17	0.18	0.19
		5.5	0.14	0.13	0.59	0.05	0.11	0.48	0.16	0.28	0.16	0.18	0.19
		4.6	0.13	0.13	0.54	0.06	0.11	0.44	0.15	0.26	0.14	0.17	0.18
		3.9	0.14	0.13	0.54	0.07	0.12	0.44	0.16	0.25	0.15	0.18	0.19
Clay	Coarse	3.3	0.15	0.14	0.52	0.08	0.12	0.42	0.17	0.24	0.15	0.19	0.20
		2.8	0.20	0.17	0.61	0.10	0.16	0.50	0.21	0.28	0.19	0.23	0.26
		2.3	0.17	0.15	0.50	0.09	0.14	0.40	0.18	0.22	0.16	0.19	0.23
		1.95	0.18	0.15	0.50	0.01	0.15	0.39	0.19	0.21	0.17	0.20	0.23
	Medium	1.64	0.18	0.16	0.46	0.10	0.15	0.36	0.19	0.19	0.17	0.20	0.23
		1.38	0.17	0.15	0.43	0.10	0.14	0.33	0.18	0.17	0.16	0.18	0.21
		1.16	0.15	0.13	0.38	0.09	0.13	0.29	0.15	0.15	0.14	0.16	0.19
		0.98	0.16	0.14	0.38	0.01	0.13	0.28	0.16	0.14	0.14	0.16	0.20
	Fine	0.82	0.17	0.14	0.35	0.10	0.14	0.26	0.17	0.13	0.15	0.17	0.20
		0.69	0.19	0.16	0.38	0.12	0.17	0.27	0.19	0.13	0.18	0.19	0.22
Very fine		0.58	0.21	0.17	0.42	0.13	0.19	0.29	0.22	0.13	0.20	0.22	0.24
		<0.49	0.76	0.74	3.75	0.49	0.64	1.99	0.78	0.84	0.76	0.74	0.95

Table 4f-2. Particle size data for auger hole 00U-42. This auger hole anchors the 00U-41 transect.

	Microns	00U-42											
		0-10 cm	10-30 cm	30-50 cm	50-63 cm	63-74 cm	74-87 cm	87-95 cm	95-106 cm	106-119 cm	119-125 cm	125-133 cm	
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Coarse	1000	841	0.00	0.00	0.00	0.24	0.23	0.00	0.00	0.00	0.00	
		841	707	0.00	0.00	0.00	1.37	1.23	0.00	0.00	0.00	0.00	
		707	595	0.86	0.29	0.00	2.17	1.86	0.00	0.00	0.19	0.00	
		595	500	2.20	2.07	1.12	2.71	2.24	0.02	0.00	1.04	0.00	
	Medium	500	420	3.85	3.99	3.96	3.70	2.53	0.44	0.00	1.77	0.53	
		420	354	6.06	6.21	5.97	5.77	2.66	1.13	0.00	2.48	1.57	
Silt		354	297	8.85	9.07	8.43	8.25	2.92	2.01	1.35	3.30	2.58	
		297	250	11.18	11.44	10.46	10.31	3.21	3.12	3.61	3.85	3.60	
	Fine	250	210	12.73	13.04	12.18	12.04	4.24	4.66	6.06	4.39	4.82	
		210	177	12.22	12.49	12.20	12.08	4.87	6.46	8.71	4.86	6.05	
		177	149	11.67	11.81	11.24	11.17	5.98	8.81	11.55	5.72	7.64	
		149	125	10.23	10.16	10.05	10.06	7.31	11.58	14.00	6.86	9.52	
		125	105	7.68	7.44	8.02	8.15	9.45	12.34	13.37	7.79	10.18	
		105	88	4.85	4.85	5.91	6.15	10.31	12.16	11.65	8.61	10.35	
	Very fine	88	74	2.93	2.75	3.82	4.09	9.90	10.54	8.99	8.67	9.52	
		74	63	1.50	1.40	2.17	2.40	8.05	7.77	6.01	7.72	7.72	
Clay	Coarse	63	53	0.83	0.76	1.29	1.49	6.65	5.94	4.26	7.33	6.70	
		53	44	0.39	0.34	0.65	0.78	4.87	4.04	2.72	6.35	5.33	
		44	37	0.13	0.11	0.24	0.31	3.12	2.22	1.38	4.38	3.44	
		37	31.2	0.05	0.05	0.09	0.12	1.87	1.25	0.71	3.04	2.25	
	Medium	31.2	26.3	0.04	0.05	0.06	0.07	1.05	0.68	0.36	2.04	1.45	
		26.3	22.1	0.05	0.06	0.07	0.07	0.55	0.36	0.22	1.35	0.92	
		22.1	18.6	0.06	0.07	0.09	0.08	0.26	0.21	0.21	0.87	0.58	
		18.6	15.6	0.06	0.07	0.10	0.09	0.14	0.18	0.25	0.60	0.40	
	Fine	15.6	13.1	0.06	0.06	0.09	0.09	0.12	0.21	0.28	0.46	0.31	
		13.1	11	0.05	0.05	0.08	0.07	0.15	0.23	0.28	0.41	0.27	
Clay		11	9.3	0.03	0.03	0.06	0.05	0.18	0.22	0.25	0.39	0.24	
		9.3	7.8	0.02	0.03	0.04	0.04	0.21	0.22	0.23	0.40	0.24	
	Very fine	7.8	6.6	0.02	0.03	0.04	0.03	0.20	0.19	0.19	0.37	0.21	
		6.6	5.5	0.03	0.03	0.04	0.04	0.20	0.18	0.19	0.38	0.21	
		5.5	4.6	0.03	0.04	0.05	0.04	0.17	0.15	0.17	0.33	0.19	
		4.6	3.9	0.04	0.05	0.05	0.04	0.14	0.13	0.15	0.27	0.16	
	Coarse	3.9	3.3	0.04	0.05	0.06	0.05	0.13	0.13	0.16	0.25	0.16	
		3.3	2.8	0.04	0.05	0.06	0.05	0.13	0.13	0.16	0.23	0.15	
		2.8	2.3	0.05	0.06	0.07	0.07	0.18	0.16	0.20	0.27	0.19	
		2.3	1.95	0.05	0.06	0.07	0.06	0.16	0.14	0.17	0.23	0.17	
Clay	Medium	1.95	1.64	0.06	0.06	0.07	0.07	0.17	0.15	0.17	0.23	0.18	
		1.64	1.38	0.06	0.07	0.08	0.07	0.18	0.16	0.17	0.23	0.18	
		1.38	1.16	0.06	0.07	0.08	0.08	0.17	0.15	0.16	0.22	0.18	
		1.16	0.98	0.06	0.07	0.08	0.08	0.16	0.13	0.14	0.20	0.16	
		0.98	0.82	0.07	0.07	0.08	0.08	0.16	0.14	0.15	0.20	0.17	
		0.82	0.69	0.07	0.07	0.08	0.08	0.16	0.15	0.16	0.20	0.17	
	Fine	0.69	0.58	0.08	0.08	0.08	0.08	0.18	0.17	0.17	0.21	0.19	
		0.58	0.49	0.09	0.09	0.09	0.09	0.20	0.20	0.19	0.23	0.21	
	Very fine	>0.49		0.30	0.35	0.56	0.59	0.89	0.79	0.88	1.07	0.95	

Table 4f-3. Particle size data for auger hole 00U-43. This auger hole anchors the 00U-41 transect.

		00U-43										
	Microns	0-10 cm	10-25 cm	25-34 cm	34-48 cm	48-55 cm	55-64 cm	64-76 cm	76-86 cm	86-96 cm	96-108 cm	108-114 cm
Sand	Very coarse	2000	1680									
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.35	0.13	0.06	0.00	0.00	0.00	0.00	0.13
	Medium	500	420	0.69	1.59	1.15	1.05	1.39	0.12	0.84	1.00	1.63
		420	354	1.45	3.36	2.38	2.67	4.01	0.82	2.58	2.65	3.54
Silt		354	297	2.83	5.92	3.69	4.27	6.50	1.77	4.30	4.14	5.56
		297	250	4.45	8.58	4.84	5.74	8.76	2.61	5.87	5.46	7.32
	Fine	250	210	6.43	11.27	5.97	7.23	10.76	3.41	7.43	6.51	8.78
		210	177	8.30	13.06	6.72	8.25	11.65	4.07	8.42	6.87	9.38
		177	149	10.52	13.56	7.57	9.32	11.54	4.96	9.32	7.01	9.33
		149	125	11.87	12.52	8.14	9.80	10.57	6.12	9.53	6.80	8.80
	Very fine	125	105	11.77	10.30	8.18	9.45	8.95	7.26	9.00	6.23	7.90
		105	88	10.95	9.04	7.15	8.89	7.14	8.12	8.37	5.72	6.92
		88	74	8.89	6.96	4.40	7.60	5.13	8.38	7.15	4.99	5.61
		74	63	6.27	5.66	2.44	5.82	3.32	7.76	5.51	4.06	4.18
Clay	Coarse	63	53	4.73	3.43	1.50	4.84	2.37	7.81	4.67	3.76	3.47
		53	44	3.27	2.93	0.82	3.72	1.57	7.34	3.68	3.44	2.76
		44	37	1.84	1.63	0.34	2.33	0.88	5.53	2.38	2.74	1.86
		37	31.2	1.07	0.93	0.68	1.50	0.54	4.18	1.61	2.37	1.35
	Medium	31.2	26.3	0.61	0.53	0.38	0.96	0.37	3.07	1.01	2.16	1.04
		26.3	22.1	0.35	0.33	0.25	0.62	0.29	2.22	0.79	2.06	0.85
		22.1	18.6	0.23	0.25	0.20	0.41	0.25	1.55	0.61	1.96	0.72
		18.6	15.6	0.20	0.25	0.21	0.32	0.24	1.15	0.53	1.93	0.67
	Fine	15.6	13.1	0.19	0.28	0.23	0.27	0.22	0.90	0.49	1.84	0.62
		13.1	11	0.18	0.31	0.24	0.26	0.20	0.78	0.46	1.75	0.59
		11	9.3	0.16	0.32	0.23	0.24	0.18	0.71	0.43	1.57	0.54
		9.3	7.8	0.16	0.34	0.24	0.25	0.18	0.73	0.42	1.51	0.53
	Very fine	7.8	6.6	0.13	0.33	0.22	0.23	0.17	0.68	0.36	1.28	0.47
		6.6	5.5	0.13	0.35	0.24	0.24	0.18	0.70	0.35	1.23	0.47
		5.5	4.6	0.12	0.34	0.23	0.22	0.17	0.63	0.30	1.04	0.42
		4.6	3.9	0.11	0.31	0.21	0.19	0.15	0.53	0.24	0.82	0.35
	Coarse	3.9	3.3	0.11	0.31	0.21	0.18	0.15	0.48	0.22	0.72	0.32
		3.3	2.8	0.12	0.30	0.22	0.18	0.15	0.44	0.19	0.61	0.29
		2.8	2.3	0.15	0.36	0.26	0.22	0.17	0.42	0.17	0.61	0.32
		2.3	1.95	0.13	0.29	0.22	0.18	0.14	0.39	0.17	0.44	0.24
	Medium	1.95	1.64	0.14	0.29	0.22	0.19	0.14	0.38	0.17	0.39	0.23
		1.64	1.38	0.15	0.28	0.22	0.19	0.14	0.36	0.16	0.33	0.21
		1.38	1.16	0.14	0.25	0.20	0.18	0.13	0.33	0.15	0.27	0.19
		1.16	0.98	0.13	0.22	0.18	0.16	0.12	0.29	0.14	0.22	0.17
	Fine	0.98	0.82	0.13	0.22	0.21	0.17	0.12	0.29	0.14	0.20	0.17
		0.82	0.69	0.14	0.22	0.20	0.17	0.12	0.28	0.13	0.17	0.15
		0.69	0.58	0.16	0.24	0.21	0.19	0.13	0.30	0.14	0.18	0.16
		0.58	0.49	0.18	0.26	0.24	0.21	0.14	0.33	0.16	0.21	0.17
	Very fine	<0.49		0.70	1.12	1.05	1.09	0.68	1.76	1.30	2.75	1.62

Table 4g-1. Particle size data for auger hole 8U-18—Continued.

	Microns	8U-18																			
		187-198	197-212	212-228	228-241	241-254	254-266	266-280	280-290	290-298	298-309	309-322	322-333	333-344	344-355	355-367	367-378	378-391	391-400		
Sand	Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	
		1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	
		1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	
		841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	
Sand	Coarse	707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	
	Medium	500	420	0.00	0.16	0.49	1.01	0.75	0.50	0.00	0.16	0.11	0.00	0.00	0.00	0.68	0.17	1.16	1.31	cm	
		420	354	0.82	2.74	1.71	2.17	3.18	2.87	0.45	2.00	1.80	0.93	0.40	0.58	2.49	1.49	3.39	4.06	cm	
		354	297	2.51	5.86	4.71	4.68	5.83	5.63	2.70	4.30	3.94	2.67	1.86	2.17	4.40	3.10	5.52	6.86	cm	
		297	250	4.07	8.66	7.41	7.78	8.21	8.11	4.96	6.39	5.88	4.24	3.30	3.71	6.12	4.55	7.15	9.01	cm	
Sand	Fine	250	210	5.53	10.96	9.92	8.90	7.78	10.10	7.33	8.33	7.70	5.70	4.83	5.34	7.63	5.79	8.36	10.43	cm	
		210	177	6.48	11.79	11.30	9.79	10.57	11.08	9.22	9.42	8.81	6.62	6.19	6.77	8.37	6.50	8.62	10.41	cm	
		177	149	7.24	11.33	11.49	10.18	10.37	10.23	10.98	10.18	9.74	7.33	7.67	8.20	8.87	7.12	8.41	9.53	cm	
		149	125	7.78	10.01	10.79	9.78	9.47	9.08	11.61	10.06	9.98	7.77	9.21	9.52	8.78	7.71	7.93	8.22	cm	
		125	105	7.45	8.28	9.50	8.73	8.15	7.57	8.66	11.00	9.43	7.31	9.49	9.44	8.07	7.67	7.19	6.72	cm	
	Very fine	105	88	6.98	6.51	7.90	7.73	6.71	6.07	7.17	9.95	8.04	8.75	9.30	8.93	7.33	7.53	6.48	5.38	cm	
Silt	Very fine	88	74	6.11	4.62	5.86	6.34	5.01	4.88	4.44	5.36	7.97	5.80	8.25	7.69	6.14	6.91	5.50	4.04	cm	
		74	63	4.90	2.95	3.87	4.73	3.39	3.55	2.98	3.61	4.66	5.57	4.61	5.88	4.68	5.76	4.33	2.84	cm	
	Coarse	63	53	4.37	2.08	2.79	3.89	2.53	2.24	2.66	4.24	3.68	4.13	5.48	4.87	3.93	5.28	3.83	2.30	cm	
		53	44	3.73	1.38	1.86	3.00	1.81	1.65	1.82	2.93	2.72	3.44	3.60	4.29	3.75	3.10	4.54	3.23	cm	
		44	37	2.70	0.82	1.04	1.92	1.14	1.10	1.05	1.67	1.68	2.12	2.72	2.77	2.40	2.04	3.21	2.28	cm	
		37	31.2	2.11	0.59	0.66	1.30	0.85	0.88	0.68	1.00	1.12	1.35	2.26	1.88	1.66	1.43	2.34	1.68	cm	
Silt	Medium	31.2	26.3	1.73	0.52	0.49	0.92	0.74	0.51	0.63	0.80	0.88	1.99	1.32	1.22	1.04	1.72	1.25	0.89	cm	
		26.3	22.1	1.52	0.53	0.45	0.71	0.52	0.44	0.45	0.63	0.60	1.86	1.00	1.01	0.83	1.31	0.97	0.79	cm	
		22.1	18.6	1.36	0.56	0.45	0.59	0.76	0.82	0.43	0.37	0.55	1.73	0.83	0.92	0.71	1.04	0.78	0.71	cm	
		18.6	15.6	1.32	0.59	0.48	0.55	0.80	0.85	0.45	0.37	0.53	1.69	0.81	0.93	0.68	0.94	0.70	0.67	cm	
	Fine	15.6	13.1	1.28	0.60	0.49	0.53	0.80	0.92	0.45	0.37	0.52	1.61	0.83	0.94	0.69	0.92	0.68	0.63	cm	
		13.1	11	1.27	0.59	0.48	0.52	0.78	0.88	0.45	0.37	0.53	1.53	0.90	0.97	0.73	0.95	0.71	0.62	cm	
Clay	Fine	11	9.3	1.22	0.55	0.45	0.49	0.72	0.80	0.75	0.43	0.36	1.39	0.93	0.94	0.74	0.97	0.73	0.60	cm	
		9.3	7.8	1.28	0.55	0.44	0.49	0.70	0.78	0.75	0.36	0.37	1.36	1.02	0.99	0.81	1.07	0.80	0.63	cm	
	Very fine	7.8	6.6	1.22	0.51	0.40	0.44	0.62	0.69	0.68	0.42	0.34	1.21	1.00	0.94	0.79	1.04	0.79	0.61	cm	
		6.6	5.5	1.33	0.53	0.41	0.46	0.63	0.69	0.71	0.46	0.35	1.22	1.01	1.01	0.87	1.13	0.87	0.67	cm	
		5.5	4.6	1.29	0.50	0.38	0.42	0.58	0.62	0.66	0.45	0.35	1.11	1.04	0.96	0.84	1.06	0.84	0.66	cm	
		4.6	3.9	1.17	0.44	0.34	0.37	0.50	0.52	0.57	0.41	0.31	0.95	0.90	0.85	0.75	0.92	0.74	0.59	cm	
Clay	Coarse	3.9	3.3	1.15	0.43	0.33	0.36	0.47	0.49	0.55	0.40	0.32	0.89	0.85	0.81	0.71	0.85	0.71	0.58	cm	
		3.3	2.8	1.09	0.41	0.31	0.34	0.44	0.45	0.51	0.38	0.32	0.82	0.77	0.75	0.65	0.76	0.65	0.55	cm	
		2.8	2.3	1.23	0.46	0.36	0.40	0.50	0.57	0.43	0.35	0.38	0.91	0.82	0.83	0.70	0.81	0.72	0.62	cm	
		2.3	1.95	0.95	0.36	0.29	0.33	0.39	0.40	0.44	0.33	0.31	0.70	0.61	0.63	0.52	0.59	0.55	0.49	cm	
	Medium	1.95	1.64	0.90	0.35	0.28	0.33	0.38	0.38	0.42	0.31	0.28	0.67	0.55	0.58	0.48	0.54	0.51	0.46	cm	
		1.64	1.38	0.79	0.31	0.26	0.32	0.35	0.38	0.28	0.26	0.35	0.61	0.47	0.50	0.41	0.47	0.46	0.42	cm	
Clay	Fine	1.38	1.16	0.68	0.28	0.24	0.30	0.31	0.32	0.34	0.25	0.26	0.54	0.40	0.43	0.35	0.40	0.40	0.37	cm	
		1.16	0.98	0.56	0.24	0.21	0.28	0.27	0.28	0.29	0.21	0.20	0.47	0.32	0.35	0.29	0.33	0.35	0.31	cm	
		0.98	0.82	0.50	0.23	0.20	0.28	0.26	0.27	0.19	0.19	0.23	0.44	0.30	0.32	0.26	0.29	0.33	0.29	cm	
		0.82	0.69	0.40	0.20	0.18	0.33	0.23	0.24	0.17	0.18	0.20	0.39	0.26	0.27	0.22	0.24	0.35	0.25	cm	
		0.69	0.58	0.37	0.20	0.18	0.02	0.23	0.24	0.16	0.18	0.19	0.38	0.25	0.27	0.21	0.23	0.02	0.24	cm	
	Very fine	0.58	0.49	0.35	0.20	0.19	0.00	0.23	0.24	0.17	0.19	0.19	0.39	0.26	0.27	0.21	0.23	0.00	0.23	cm	
Clay		<0.49		2.33	1.06	0.91	0.00	1.39	1.69	1.47	1.08	1.06	2.76	1.11	1.40	1.46	1.53	0.00	1.77	cm	

Table 4g-2. Particle size data for auger hole 8U-20—Continued.

Microns		8U-20																			
		207-218	218-230	230-240	240-251	251-261	261-272	272-282	282-290	290-298	298-311	311-321	321-335	335-346	346-358	358-370	370-380	380-389	389-400		
Very coarse	2000	1680	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
	1680	1414	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
	1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
	1189	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
Coarse	1000	841	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
	841	707	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
	707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
	595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
Sand	500	420	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
	420	354	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
	354	297	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	cm	cm
	297	250	1.10	0.42	0.11	0.15	0.04	0.03	0.03	0.01	0.03	0.01	0.34	0.29	0.03	0.05	0.00	0.00	0.00	cm	cm
			2.29	0.68	0.22	0.25	0.82	0.75	0.29	0.11	0.53	0.13	0.53	0.42	0.31	0.74	0.79	0.05	0.04	cm	cm
Fine	210	177	3.46	0.93	0.31	0.31	1.79	1.71	0.68	0.45	1.00	0.43	0.72	0.57	0.96	1.12	1.87	0.81	1.11	cm	cm
	177	149	4.65	1.09	0.37	0.36	2.80	2.70	1.02	0.73	1.52	0.69	0.85	0.71	1.51	1.61	2.98	1.96	3.29	cm	cm
	149	125	5.70	1.23	0.44	0.46	3.96	3.85	1.41	1.06	2.14	0.98	1.03	0.88	2.23	2.11	4.17	3.55	5.79	cm	cm
			6.15	1.34	0.52	0.64	5.08	4.99	1.83	1.43	2.81	1.30	1.26	1.09	3.00	2.57	5.28	5.40	8.45	cm	cm
			6.21	1.53	0.67	0.95	6.09	6.10	2.38	1.93	3.51	1.71	1.61	1.39	3.81	3.09	6.17	7.23	10.56	cm	cm
Very fine	105	88	5.69	1.78	0.86	1.34	6.50	6.69	2.88	2.41	3.95	2.07	1.99	1.71	4.31	3.36	6.31	8.18	10.68	cm	cm
	88	74	4.76	2.01	1.03	1.67	6.01	6.40	3.14	2.69	3.94	2.24	2.26	1.95	4.29	3.26	5.56	7.66	8.36	cm	cm
	74	63	4.58	2.65	1.39	2.26	5.83	6.46	3.77	3.29	4.27	2.67	2.86	2.50	4.66	3.48	5.21	7.21	7.19	cm	cm
			4.36	3.50	1.86	2.89	5.52	6.40	4.37	3.88	4.41	3.08	3.50	3.14	4.82	3.59	4.75	6.53	5.66	cm	cm
			3.61	3.84	2.06	3.01	4.36	5.29	4.19	3.81	3.82	2.99	3.56	3.30	4.21	3.21	3.68	4.88	3.64	cm	cm
Coarse	37	31.2	3.22	4.27	2.33	3.14	3.58	4.53	4.09	3.84	3.53	3.03	3.69	3.56	3.89	3.08	3.06	3.77	2.46	cm	cm
			2.96	4.52	2.62	3.24	3.00	3.90	4.03	3.86	3.34	3.14	3.77	3.83	3.66	3.06	2.67	2.95	1.74	cm	cm
			2.81	4.75	2.95	3.33	2.60	3.40	4.02	3.92	3.29	3.40	3.90	4.04	3.53	3.16	2.50	2.41	1.37	cm	cm
			2.63	4.77	3.21	3.32	2.30	2.94	3.92	3.89	3.23	3.60	3.91	4.12	3.34	3.26	2.40	2.05	1.31	cm	cm
			2.56	4.83	3.59	3.50	2.23	2.69	3.96	3.98	3.23	3.95	4.06	4.28	3.30	3.31	2.50	1.93	1.73	cm	cm
Silt	15.6	13.1	2.47	4.70	3.96	3.63	2.22	2.48	3.93	4.00	3.47	4.23	4.12	4.30	3.21	3.71	2.59	2.12	1.84	cm	cm
	13.1	11	2.42	4.55	4.39	3.83	2.32	2.38	3.98	4.08	3.64	4.54	4.25	4.33	3.19	3.94	2.72	2.42	2.04	cm	cm
	11	9.3	2.31	4.22	4.60	3.91	2.36	2.25	3.89	4.01	3.67	4.62	4.22	4.17	3.07	3.98	2.73	2.43	2.12	cm	cm
			2.40	4.25	5.16	4.35	2.60	2.33	4.12	4.28	3.97	5.03	4.53	4.37	3.23	4.29	2.95	2.66	2.31	cm	cm
			2.25	3.85	5.13	4.33	2.55	2.18	3.90	4.10	3.81	4.83	4.35	4.12	3.07	4.10	2.83	2.58	2.21	cm	cm
Very fine	7.8	6.6	2.39	3.98	5.69	4.86	2.80	2.31	4.17	4.44	4.09	5.18	4.69	4.41	3.32	4.39	3.06	2.78	2.33	cm	cm
	6.6	5.5	2.22	3.63	5.48	4.76	2.67	2.13	3.89	4.20	3.81	4.81	4.40	4.17	3.17	4.07	2.88	2.58	2.11	cm	cm
	5.5	4.6	1.92	3.09	4.82	4.27	2.34	1.82	3.34	3.66	3.26	4.10	3.80	3.65	2.80	3.48	2.49	2.19	1.74	cm	cm
	4.6	3.9	1.79	2.86	4.54	4.12	2.21	1.69	3.09	3.43	2.99	3.76	3.51	3.47	2.67	3.21	2.33	1.99	1.55	cm	cm
			1.61	2.55	4.07	3.78	1.99	1.50	2.74	3.07	2.61	3.30	3.10	3.16	2.45	2.83	2.08	1.73	1.32	cm	cm
Clay	3.3	2.8	1.72	2.71	4.31	4.11	2.14	1.59	2.88	3.25	2.70	3.43	3.23	3.42	2.66	2.96	2.20	1.76	1.34	cm	cm
	2.8	2.3	1.26	1.98	3.11	3.03	1.57	1.16	2.07	2.34	1.91	2.44	2.30	2.53	1.97	2.12	1.58	1.23	0.92	cm	cm
	2.3	1.95	1.14	1.79	2.78	2.75	1.42	1.05	1.84	2.09	1.68	2.15	2.03	2.31	1.80	1.88	1.40	1.05	0.78	cm	cm
			0.98	1.51	2.32	2.32	1.20	0.89	1.53	1.73	1.38	1.78	1.67	1.96	1.53	1.56	1.16	0.85	0.63	cm	cm
			0.82	1.26	1.92	1.94	1.00	0.75	1.26	1.42	1.13	1.45	1.36	1.64	1.29	1.50	0.95	0.68	0.50	cm	cm
Fine	1.16	0.98	0.67	1.01	1.54	1.55	0.80	0.61	1.00	1.13	0.89	1.15	1.07	1.33	1.05	1.01	0.76	0.53	0.38	cm	cm
			0.60	0.90	1.37	1.37	0.71	0.54	0.86	0.99	0.78	1.00	0.94	1.18	0.94	0.88	0.67	0.46	0.34	cm	cm
			0.50	0.74	1.11	1.11	0.58	0.45	0.68	0.78	0.62	0.79	0.75	0.96	0.78	0.70	0.55	0.38	0.28	cm	cm
			0.69	0.58	0.48	1.05	0.55	0.42	0.62	0.72	0.58	0.73	0.70	0.88	0.73	0.65	0.53	0.37	0.28	cm	cm
			0.58	0.49	1.04	1.04	0.54	0.42	0.59	0.69	0.57	0.70	0.69	0.85	0.72	0.63	0.53	0.39	0.29	cm	cm
Very fine	<0.49		2.84	4.87	7.10	7.06	2.98	2.26	3.64	4.32	3.79	4.59	4.47	5.03	4.52	4.09	3.09	2.28	1.33	cm	cm

Table 4h-1. Particle size data for arroyo exposure site 9U-21. Data is displayed in accordance with the USDA scale.

		Microns		9U-21														
				0-5 cm	5-25 cm	25-70 cm	70-90 cm	90-115 cm	115-128 cm	128-148 cm	148-168 cm	168-210 cm	210-225 cm	225-250 cm	250-300 cm	300-345 cm	345-375 cm	375-440 cm
Sand	Very coarse	2000	1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Coarse	1000	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Medium	500	250	3.07	5.70	11.29	5.97	7.21	6.77	7.25	3.28	3.90	6.32	7.75	8.04	11.29	10.18	13.71
	Fine	250	100	37.37	33.06	40.95	36.71	44.13	44.92	43.28	39.83	44.23	42.98	46.20	51.29	48.76	48.82	49.02
	Very fine	100	50	28.38	22.86	21.56	25.72	24.43	25.02	24.39	27.64	29.86	25.90	25.88	25.26	22.61	23.79	21.84
Silt	Coarse	50	20	12.06	18.49	12.92	16.07	10.19	9.39	9.69	11.06	9.76	9.80	8.86	6.80	7.73	7.02	6.87
	Medium	20	10	5.04	7.07	4.34	5.11	3.50	3.54	3.76	3.93	2.59	3.64	3.24	2.46	2.91	2.40	2.39
	Fine	10	5	4.80	3.56	2.34	2.79	2.70	2.85	3.31	3.78	2.38	3.12	2.69	2.01	2.27	1.98	1.97
	Very fine	5	2	4.26	3.20	2.30	2.65	3.01	2.98	3.60	4.29	2.67	3.26	2.82	2.23	2.40	2.15	2.21
Clay	Coarse	2	1	1.91	1.80	1.33	1.52	1.72	1.61	1.76	2.13	1.55	1.64	1.63	1.41	1.35	1.19	1.32
	Medium	2	1	1.91	1.80	1.33	1.52	1.72	1.61	1.76	2.13	1.55	1.64	1.63	1.41	1.35	1.19	1.32
	Fine	1	0.5	1.22	1.37	1.00	1.13	1.18	1.12	1.13	1.35	1.09	1.10	0.95	0.50	0.68	0.86	0.66
	Very fine	<0.5		1.89	2.88	1.97	2.34	1.92	1.81	1.83	2.73	1.97	2.23	0	0	0	1.61	0

Table 5. Geochemical data

This table contains geochemical data obtained by ICP-AES (Inductively coupled plasma – atomic emission spectrometry) and ICP-MS (Inductively coupled plasma – mass spectrometry) techniques (Lichte et al., 1987). All analyses were performed at the USGS Geologic Division geochemistry lab in Denver, CO and are reported in either parts per million (ppm) or percent (%).

Table 5a-1a. ICP-AES data for the 00U-30 transect.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U30A/0-10	1.74	2.55	0.609	1.12	0.431	0.0778	0.0162	0.0558	112	8.22
00U30A/10-30	1.98	8.95	0.621	1.36	1.72	0.0467	0.0273	0.0469	87.4	7.36
00U30A/30-40	1.82	6.70	0.564	1.24	1.66	0.0509	0.0202	0.0442	96.4	7.62
00U30B/0-10	2.30	1.04	0.843	1.42	0.427	0.157	0.0193	0.0964	175	10.9
00U30B/ 10-30	1.90	1.36	0.726	1.21	0.313	0.124	0.0130	0.0630	136	7.72
00U30B/ 30-50	1.85	2.45	0.593	1.18	0.463	0.110	0.0140	0.0476	117	7.85
00U30C/0-10	2.53	2.70	0.913	1.53	0.418	0.173	0.0241	0.101	163	12.1
00U30C/10-30	2.43	2.22	0.906	1.54	0.343	0.180	0.0183	0.0999	167	11.1
00U30C/30-46	2.61	1.92	0.846	1.60	0.328	0.177	0.0165	0.106	153	12.5
00U30C/46-62	1.90	2.16	0.670	1.18	0.347	0.105	0.0143	0.0568	96.7	8.06
00U30C/62-81	1.83	2.60	0.800	1.28	0.440	0.109	0.0173	0.0668	111	8.76
00U30C/81-93	1.68	2.19	0.589	1.10	0.416	0.0992	0.0141	0.0466	97.8	6.31
00U30C/93-104	1.89	2.54	0.637	1.21	0.459	0.142	0.0175	0.0567	114	7.74
00U30C/104-118	2.08	2.55	0.792	1.31	0.503	0.177	0.0187	0.0710	140	8.63
00U30C/118-128	2.23	2.65	0.810	1.37	0.569	0.211	0.0208	0.0748	146	10.1
00U30C/128-142	2.72	3.31	1.04	1.62	0.751	0.282	0.0282	0.111	198	12.6
00U30D/0-10	2.24	0.679	0.846	1.45	0.360	0.171	0.0226	0.0976	190	10.1
00U30D/10-30	2.23	0.911	0.898	1.38	0.343	0.174	0.0178	0.0810	216	9.19
00U30D/30-50	2.18	1.84	0.799	1.34	0.353	0.172	0.0179	0.0777	174	8.83
00U30E/0-10	2.58	0.818	0.990	1.59	0.446	0.209	0.0327	0.114	264	11.9
00U30E/10-30	2.55	1.61	0.920	1.50	0.396	0.216	0.0223	0.0943	231	11.2
00U30E/30-50	2.40	2.10	0.837	1.43	0.344	0.197	0.0180	0.0886	173	10.5
00U30F/0-10	2.80	0.844	1.02	1.69	0.492	0.255	0.0417	0.135	301	13.8
00U30F/10-30	2.39	1.70	0.886	1.44	0.358	0.207	0.0206	0.0912	209	11.4
00U30F/30-50	2.38	1.94	0.844	1.41	0.340	0.196	0.0178	0.0857	171	9.95
00U30G/0-10	3.15	1.20	1.14	1.85	0.586	0.296	0.0566	0.161	356	15.0
00U30G/10-30	3.05	1.27	1.10	1.81	0.515	0.271	0.0348	0.144	315	14.7
00U30G/30-50	3.03	1.82	1.05	1.81	0.431	0.264	0.0234	0.134	235	14.3
00U30H/0-10	3.07	0.880	1.16	1.79	0.521	0.280	0.0496	0.151	317	15.7
00U30H/10-30	2.97	1.53	1.16	1.64	0.422	0.264	0.0201	0.120	252	12.6
00U30H/30-50	2.88	1.32	1.14	1.55	0.350	0.237	0.0148	0.110	167	13.1
00U30I/0-10	3.01	0.833	1.07	1.81	0.513	0.294	0.0565	0.147	332	15.2
00U30I/10-30	3.04	1.56	1.13	1.71	0.417	0.284	0.0222	0.118	259	13.2
00U30I/30-50	3.02	1.63	1.07	1.67	0.397	0.274	0.0192	0.115	202	12.9
00U30J/0-10	3.77	3.13	1.41	1.90	0.828	0.437	0.0490	0.175	311	19.1
00U30J/10-30	3.12	1.68	1.18	1.71	0.428	0.228	0.0166	0.148	186	14.8
00U30J/30-50	3.17	0.587	1.19	1.82	0.528	0.290	0.0493	0.153	364	15.7
00U30K/0-10	2.97	1.09	1.11	1.78	0.555	0.289	0.0555	0.138	339	15.3
00U30K/10-30	3.08	1.96	1.07	1.69	0.412	0.284	0.0165	0.117	240	13.7
00U30K/30-50	2.96	1.32	1.06	1.59	0.356	0.258	0.0138	0.122	187	12.9
00U30L/0-10	3.18	0.877	1.22	1.86	0.571	0.303	0.0607	0.165	386	15.3
00U30L/10-30	2.94	1.58	1.02	1.62	0.403	0.252	0.0170	0.108	248	12.9
00U30L/30-50	2.55	1.29	0.915	1.51	0.322	0.233	0.0138	0.101	174	11.5

Table 5a-1a. ICP-AES data for the 00U-30 transect—Continued.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U30M/0-10	3.09	1.04	1.18	1.82	0.560	0.300	0.0502	0.170	328	15.0
00U30M/10-30	3.18	2.06	1.16	1.85	0.502	0.306	0.0271	0.159	321	15.7
00U30M/30-47	3.16	1.88	1.18	1.85	0.475	0.298	0.0252	0.148	274	15.0
00U30M/47-61	2.68	1.41	0.959	1.57	0.342	0.260	0.0183	0.108	185	11.2
00U30M/61-74	2.70	1.18	1.03	1.54	0.342	0.254	0.0183	0.110	182	11.9
00U30M/74-89	2.76	0.762	1.13	1.51	0.397	0.216	0.0189	0.126	199	12.6
00U30M/89-106	3.47	0.583	1.30	1.68	0.510	0.361	0.0227	0.138	242	15.6
00U30M/106-118	3.86	3.46	1.46	1.91	0.879	0.453	0.0496	0.178	309	18.7
00U30M/118-131	3.17	4.11	1.12	1.60	0.725	0.390	0.0364	0.118	224	13.3
00U30M/131-144	3.30	3.61	1.15	1.81	0.748	0.398	0.0376	0.141	249	16.2

Table 5a-1b. ICP-MS for the 00U-30 transect.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
00U30A/0-10	<2	19200	4.0	239	0.54	< 0.06	28200	0.06	17.0	1.8	40.6	1.3
00U30A/10-30	<2	19000	3.8	291	0.88	< 0.06	81000	0.05	18.1	1.6	28.4	1.5
00U30A/30-40	<2	17800	3.4	264	0.83	< 0.06	61200	0.04	15.9	1.6	33.1	1.4
00U30B/0-10	<2	26300	2.9	311	0.68	< 0.06	12100	0.08	23.3	2.5	52.2	1.8
00U30B/ 10-30	<2	19400	2.7	260	0.74	< 0.06	12800	0.05	16.6	1.8	47.4	1.5
00U30B/ 30-50	<2	18500	3	256	0.64	0.06	23100	0.07	15	1.7	31.9	1.3
00U30C/0-10	<2	28300	3.5	330	0.89	< 0.06	30000	0.08	25.3	2.9	53.4	2.0
00U30C/10-30	<2	27500	3.5	338	0.86	< 0.06	25500	0.06	24.6	2.8	57.0	1.9
00U30C/30-46	<2	30100	3.7	355	0.85	< 0.06	22200	0.05	25.6	3.1	31.2	2.1
00U30C/46-62	<2	18800	2.4	263	0.62	< 0.06	20200	0.05	15.9	2	29.3	1.5
00U30C/62-81	<2	22000	2.8	299	0.62	< 0.06	30300	0.05	18.7	2.4	61.0	1.5
00U30C/81-93	<2	16300	2.2	249	0.47	< 0.06	20500	0.04	13.2	1.6	29.4	1.2
00U30C/93-104	<2	18800	2.6	270	0.72	< 0.06	23600	0.05	16.1	1.9	25.5	1.4
00U30C/104-118	<2	20700	3.1	322	0.72	< 0.06	23800	0.05	18.8	2.2	40.5	1.6
00U30C/118-128	<2	22100	2.9	328	0.73	< 0.06	24200	0.05	19.7	2.3	35.7	1.6
00U30C/128-142	<2	31100	3.6	409	0.96	< 0.06	37300	0.08	27.8	3.4	52.7	2.0
00U30D/0-10	<2	26400	2.5	330	0.68	< 0.06	8000	0.08	23.3	2.5	51.6	1.7
00U30D/10-30	<2	22400	2.5	299	0.79	< 0.06	8450	0.06	19.8	2.3	50	1.8
00U30D/30-50	<2	22000	2.5	302	0.74	< 0.06	17400	0.06	20.4	2.1	40	1.7
00U30E/0-10	<2	31500	3.0	364	0.79	< 0.06	9860	0.11	27.2	3.1	63.1	2.1
00U30E/10-30	<2	26000	2.8	330	0.86	0.06	15300	0.14	24.9	2.6	36.6	2.1
00U30E/30-50	<2	24500	2.7	317	0.88	0.06	20000	0.06	26.4	2.4	34.2	2
00U30F/0-10	<2	35000	3.1	398	1.3	< 0.06	10300	0.14	30.9	3.4	48.8	2.4
00U30F/10-30	<2	24500	2.7	322	0.82	0.06	16100	0.08	23.5	2.4	41.6	1.9
00U30F/30-50	<2	24300	2.5	318	0.8	< 0.06	18900	0.05	22.8	2.4	35.6	1.9
00U30G/0-10	<2	38300	3.6	422	1.2	< 0.06	13900	0.16	34.6	3.8	50.4	2.7
00U30G/10-30	<2	37100	3.2	407	0.96	< 0.06	15200	0.10	34.0	3.8	45.0	2.6
00U30G/30-50	<2	37600	3.2	404	0.91	< 0.06	22000	0.07	32.2	3.8	43.3	2.6
00U30H/0-10	<2	38900	3.2	402	1.2	< 0.06	10600	0.12	37.0	4.0	48.8	2.7
00U30H/10-30	<2	29500	3.3	364	0.85	0.09	14900	0.07	27.1	3.3	57	2.3
00U30H/30-50	<2	28900	3.4	354	0.9	0.08	13000	0.04	26.3	3.4	55.9	2.2
00U30I/0-10	<2	37000	3.1	419	0.87	< 0.06	9970	0.14	33.8	3.6	44.8	2.5
00U30I/10-30	<2	29900	3	374	0.87	0.08	15100	0.08	28.2	3.4	54.3	2.4
00U30I/30-50	<2	30200	3.1	375	0.9	0.08	16000	0.06	28.2	3.4	39.8	2.4
00U30J/0-10	<2	46100	4.3	477	1.2	< 0.06	39800	0.11	42.5	5.7	48.1	3.1
00U30J/10-30	<2	38700	3.4	387	1.0	< 0.06	22500	0.06	34.3	4.4	53.5	2.8
00U30J/30-50	<2	40700	3.5	424	1.2	< 0.06	7210	0.14	37.3	4.3	44.3	2.8
00U30K/0-10	<2	37400	3.0	420	0.96	< 0.06	13200	0.17	33.8	3.8	51.2	2.5
00U30K/10-30	<2	30100	3.1	372	0.82	0.08	18900	0.06	29.4	3.4	38.2	2.4
00U30K/30-50	<2	30400	3.1	379	0.86	0.08	13200	0.04	28.8	3.5	36.2	2.4
00U30L/0-10	<2	40000	3.3	429	0.84	< 0.06	10700	0.17	36.0	4.3	54.9	2.7
00U30L/10-30	<2	29000	2.8	354	0.8	0.08	15200	0.08	27.9	3.2	34.5	2.3
00U30L/30-50	<2	26100	2.7	338	0.76	0.07	12500	0.05	24.8	2.8	32.7	2.1
00U30M/0-10	<2	39300	3.4	426	0.99	< 0.06	12700	0.16	38.4	4.0	56.2	2.6
00U30M/10-30	<2	39800	3.5	422	0.73	< 0.06	24700	0.12	34.7	4.3	46.4	2.7
00U30M/30-47	<2	40100	3.3	428	1.0	< 0.06	22800	0.08	35.2	4.3	55.1	2.7
00U30M/47-61	<2	27600	2.6	364	0.83	0.08	13600	0.05	26	3	33.9	2.2
00U30M/61-74	<2	27900	2.8	360	0.76	0.08	11300	0.05	25.9	3.2	39.6	2.2
00U30M/74-89	<2	36200	3.4	376	0.97	< 0.06	9510	0.04	30.3	4.3	58.7	2.5
00U30M/89-106	<2	34700	3.6	406	1	0.1	5760	0.04	32.6	4.2	44.1	2.7
00U30M/106-118	<2	47800	4.5	471	0.93	< 0.06	40800	0.10	43.6	5.7	49.2	3.2
00U30M/118-131	<2	30900	4.1	460	0.92	0.08	40200	0.09	27.9	3.7	37.4	2.4
00U30M/131-144	<2	41200	4.4	468	1.1	< 0.06	43000	0.09	36.1	4.6	42.3	2.7

Table 5a-1b. ICP-MS for the 00U-30 transect—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
00U30A/0-10	22.1	5920	3.6	12400	9.4	9.5	4840	129	0.42	839	1.1	5.2
00U30A/10-30	13.4	5480	3.8	12900	9.5	8.2	17800	75.8	0.37	390	0.81	4.6
00U30A/30-40	9.6	4980	3.4	12300	8.7	8.4	17600	83.1	0.37	453	0.53	4.8
00U30B/0-10	19.4	8440	4.8	16800	13.1	12.8	5130	203	0.49	1820	2.2	7.3
00U30B/ 10-30	9.3	6440	3.5	12900	9.3	10.3	3450	116	0.6	1320	0.78	6
00U30B/ 30-50	9.8	5230	3.2	12500	8.3	9.9	5110	101	0.5	1310	0.65	4.8
00U30C/0-10	14.4	9150	5.2	17200	14.4	13.8	4900	194	0.49	1930	2.5	9.4
00U30C/10-30	12.5	9310	5.2	18000	13.6	13.9	4220	194	0.53	2140	1.9	8.1
00U30C/30-46	9.0	8670	5.6	18900	14.6	14.5	4100	190	0.30	2130	2.7	7.3
00U30C/46-62	7.3	5880	3.5	12500	9	10.1	3830	81	0.39	1120	0.73	5.2
00U30C/62-81	11.6	8230	4.1	15000	10.7	10.6	5310	137	0.58	1280	1.7	7.6
00U30C/81-93	6.5	5070	3	11600	7.4	9.1	4590	81.6	0.39	1060	0.32	4.5
00U30C/93-104	8.8	5620	3.5	12600	9	10.5	5070	97.1	0.38	1480	0.58	5
00U30C/104-118	14.8	7120	3.9	13600	10.4	11.6	5620	121	0.6	1820	0.25	6.2
00U30C/118-128	10.8	7230	4.2	14000	11.1	12.4	6510	124	0.59	2120	0.86	6.2
00U30C/128-142	27.9	10500	5.8	18200	15.9	15.2	8500	236	0.60	3250	2.6	8.9
00U30D/0-10	19.2	81900	4.8	17800	13.2	12.8	4650	229	0.56	2140	2.8	7.7
00U30D/10-30	11.3	7920	4.2	14400	11	12.6	3890	199	0.69	1860	1.4	7.2
00U30D/30-50	10.5	7240	4.1	14300	11.3	12.3	3960	153	0.56	1840	0.73	6.3
00U30E/0-10	24.2	10400	5.9	20000	15.3	15.1	5730	297	0.59	2670	3.3	9.0
00U30E/10-30	10.7	8600	5	16200	13.8	14.7	4550	221	0.52	2350	1	7.3
00U30E/30-50	10.4	7630	4.5	15400	12.6	13.8	3860	152	0.5	2110	0.99	6.3
00U30F/0-10	19.8	10900	6.4	21600	17.6	16.6	6370	342	0.51	3220	4.1	9.0
00U30F/10-30	13.1	8280	4.6	15500	12.8	13.3	4010	198	0.58	2200	1.1	7.2
00U30F/30-50	10.4	7680	4.6	15300	12.4	13.2	3790	149	0.49	2110	1.4	6.6
00U30G/0-10	32.5	12900	7.0	22400	20.1	18.3	7090	406	0.54	3640	4.8	10.1
00U30G/10-30	33.4	12600	6.9	22500	19.1	18.0	6500	353	0.48	3420	4.9	9.8
00U30G/30-50	31.6	12300	7.0	22500	18.1	18.0	5580	266	0.43	3370	3.6	9.2
00U30H/0-10	34.6	13300	7.2	22700	21.0	18.4	6730	355	0.47	3640	4.5	10.2
00U30H/10-30	13.3	11200	5.9	17400	15	16.5	4310	247	0.79	2630	1.6	9.3
00U30H/30-50	13.4	11200	5.9	16700	14.6	16.2	3660	157	0.79	2420	1.7	9.1
00U30I/0-10	25.5	12300	6.8	22800	19.0	17.4	6590	371	0.48	3800	4.5	9.4
00U30I/10-30	13.5	11200	6	18000	15.9	17	4410	260	0.76	2820	1.7	9.4
00U30I/30-50	11.8	10500	6.1	18000	15.8	17	4150	201	0.59	2790	1.7	8
00U30J/0-10	27.7	16900	8.9	22900	24.7	22.6	10600	353	0.54	5670	4.1	12.9
00U30J/10-30	19.7	13800	7.3	21500	19.5	18.8	5870	244	0.50	3130	3.8	11.0
00U30J/30-50	17.6	14000	7.7	23400	21.2	19.4	7040	420	0.50	3920	5.8	10.8
00U30K/0-10	22.4	12900	6.8	22500	19.3	17.6	7280	380	0.51	3780	4.5	9.9
00U30K/10-30	11.7	10500	6	17600	16.3	17.3	4240	242	0.55	2760	1.8	8.2
00U30K/30-50	11.4	10400	6	17400	15.7	17	3730	189	0.5	2660	1.6	7.8
00U30L/0-10	15.9	14200	7.5	23400	20.6	19.0	7310	438	0.55	4020	5.3	11.0
00U30L/10-30	11.7	9880	5.9	17100	15.4	17.1	4220	247	0.48	2510	1.2	7.9
00U30L/30-50	10	8790	5.2	15900	13.7	15	3340	162	0.47	2300	1.3	6.9
00U30M/0-10	32.7	13800	7.1	23100	21.8	18.6	7470	382	0.55	4030	4.7	11.0
00U30M/10-30	16.8	13500	7.3	23000	19.7	18.7	6660	367	0.41	4060	4.1	10.5
00U30M/30-47	16.0	13800	7.4	22900	20.0	18.8	6280	320	0.56	3950	4.3	10.5
00U30M/47-61	11	9260	5.5	16600	14.5	15.7	3520	184	0.46	2580	1.5	7.2
00U30M/61-74	11.2	9970	5.6	16200	14.4	15.8	3510	184	0.54	2490	2	7.6
00U30M/74-89	14.5	13200	6.8	19600	17.1	17.4	5520	263	0.54	2990	4.4	10.8
00U30M/89-106	12.9	12700	7.2	17900	18.2	19.6	5250	239	0.62	3570	3.2	10.3
00U30M/106-118	27.0	17000	9.1	22800	25.0	22.3	11000	349	0.50	5860	5.0	13.1
00U30M/118-131	13.2	11100	6.3	16600	15.5	17.9	7530	224	0.58	3730	1.2	8.6
00U30M/131-144	27.5	13800	7.7	22000	20.5	19.5	9660	292	0.47	5270	2.5	10.7

Table 5a-1b. ICP-MS for the 00U-30 transect—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U30A/0-10	175	7.59	31.9	0.2	1.8	66.1	2.27	812	0.18	0.58	11.1	7.5	26.4
00U30A/10-30	264	5.06	30.9	0.1	2.1	198	2.58	472	0.2	0.55	12	5.1	14
00U30A/30-40	202	4.92	29.5	0.2	1.8	162	2.36	467	0.19	0.52	10.7	5.1	13.4
00U30B/0-10	219	10.4	43.4	0.24	2.7	63.5	3.62	1420	0.24	0.78	16.5	10.2	26.5
00U30B/ 10-30	124	6.68	33.5	0.2	1.8	44.7	2.76	574	0.22	0.61	10.9	6	13.2
00U30B/ 30-50	153	6.52	31.8	0.2	1.7	55.2	2.56	478	0.23	0.56	10.6	5.4	26.6
00U30C/0-10	258	9.78	45.8	0.26	3.0	80.5	3.79	1490	0.27	0.87	19.8	11.6	22.7
00U30C/10-30	192	9.28	47.0	0.25	2.9	82.6	3.60	1410	0.26	0.80	19.4	10.6	35.4
00U30C/30-46	174	9.99	49.7	0.22	3.1	86.4	3.71	1520	0.28	0.80	22.1	11.0	20.0
00U30C/46-62	146	6.86	34	0.2	2	56	2.65	539	0.23	0.58	13.6	5.8	14.1
00U30C/62-81	193	8.23	39.4	0.2	2.2	79.3	2.77	986	0.22	0.63	14.4	8.2	14.4
00U30C/81-93	140	6.37	31.3	0.2	1.6	53.1	2.16	436	0.21	0.53	10.5	4.9	11.6
00U30C/93-104	167	6.87	33.8	0.2	1.9	64.7	2.73	572	0.23	0.7	13.7	6	13.9
00U30C/104-118	177	7.39	36.7	0.2	2.2	72.8	3.18	641	0.25	0.77	16	6.8	16.8
00U30C/118-128	206	7.62	38.1	0.22	2.4	80.7	3.39	688	0.26	0.84	17	7.2	17.9
00U30C/128-142	312	10.5	48.5	0.26	3.4	120	4.22	1580	0.27	0.97	24.9	12.3	24.9
00U30D/0-10	262	11.0	45.6	0.27	2.6	61.0	3.45	1430	0.24	0.80	16.3	10.3	19.8
00U30D/10-30	171	7.8	39.2	0.26	2.3	47.9	3.34	764	0.27	0.74	14.2	7.4	17.4
00U30D/30-50	180	7.5	38.7	0.22	2.3	54.3	3.33	710	0.27	0.75	14.2	7.4	16.3
00U30E/0-10	395	11.0	52.1	0.32	3.3	71.2	4.03	1740	0.28	0.89	20.5	12.7	27.8
00U30E/10-30	230	8.6	44.2	0.25	2.8	57.9	4.12	896	0.3	0.86	17.4	8.8	20.6
00U30E/30-50	182	7.93	41.8	0.23	2.6	62.7	3.76	874	0.28	0.82	17	8.4	18.8
00U30F/0-10	512	12.7	56.4	0.33	3.8	79.1	4.58	2120	0.31	1.07	24.0	14.7	29.2
00U30F/10-30	198	8.08	42.3	0.24	2.6	57.8	3.83	845	0.28	0.82	16.4	8.4	19.6
00U30F/30-50	192	7.95	42	0.26	2.5	62.6	3.74	817	0.28	0.77	16.2	8.1	18.8
00U30G/0-10	680	13.8	60.9	0.37	4.2	89.4	5.06	2310	0.34	1.17	26.5	16.1	34.1
00U30G/10-30	420	12.0	59.1	0.32	4.2	88.0	5.01	2230	0.31	1.10	26.6	15.0	32.6
00U30G/30-50	280	12.0	58.6	0.31	4.1	93.8	4.75	2080	0.33	1.10	27.4	14.4	30.9
00U30H/0-10	610	13.7	60.8	0.37	4.4	84.8	5.53	2350	0.35	1.23	28.1	16.7	41.1
00U30H/10-30	198	9.52	51.8	0.32	3.5	69.7	4.34	1200	0.34	0.99	22.2	10.6	24.2
00U30H/30-50	146	9.59	50.5	0.31	3.4	68.1	4.4	1080	0.34	0.92	22.5	9.6	25.7
00U30I/0-10	679	13.3	59.7	0.35	4.1	82.7	4.98	2200	0.33	1.11	25.6	15.3	31.8
00U30I/10-30	222	9.83	53	0.33	3.6	70.1	4.67	1190	0.35	1.02	22.4	10.9	24.4
00U30I/30-50	195	9.82	52.8	0.29	3.5	75.3	4.76	1170	0.34	1.02	23.1	10.7	25.9
00U30J/0-10	548	14.7	66.8	0.36	5.6	146	6.31	2580	0.40	1.48	41.0	19.5	39.9
00U30J/10-30	206	11.9	60.4	0.33	4.6	96.0	5.14	2200	0.34	1.09	29.4	15.6	30.9
00U30J/30-50	631	13.4	63.9	0.38	4.5	84.5	5.75	2520	0.36	1.28	29.4	17.5	35.2
00U30K/0-10	684	13.3	60.6	0.38	4.1	90.0	4.94	2250	0.33	1.13	25.8	15.8	33.2
00U30K/10-30	161	9.68	52.8	0.31	3.5	72	4.85	1170	0.35	1	23.2	10.7	24.4
00U30K/30-50	142	9.78	52.8	0.29	3.5	72.8	4.85	1200	0.35	0.98	23.5	10.3	25.4
00U30L/0-10	762	13.7	63.0	0.42	4.6	90.7	5.45	2480	0.37	1.22	28.8	16.9	33.7
00U30L/10-30	161	9.41	51.7	0.28	3.4	65.8	4.58	1040	0.34	0.95	22	10	24.4
00U30L/30-50	142	8.91	48	0.24	2.9	64.5	4.13	1010	0.31	0.9	19.9	9	22.9
00U30M/0-10	654	14.4	61.5	0.39	4.4	88.1	5.55	2500	0.35	1.28	27.6	17.1	39.9
00U30M/10-30	332	12.6	63.9	0.37	4.6	98.6	5.15	2390	0.34	1.20	30.0	16.4	30.3
00U30M/30-47	310	13.2	63.8	0.35	4.5	103	5.10	2420	0.35	1.16	29.6	16.1	30.1
00U30M/47-61	178	10	50.1	0.27	3.1	71.4	4.31	1040	0.32	0.9	21.2	9.4	23.5
00U30M/61-74	189	9.36	49.8	0.28	3.2	72.3	4.47	1090	0.33	0.91	22.1	9.5	23.6
00U30M/74-89	236	11.7	55.6	0.36	4.0	87.7	4.54	1910	0.31	0.96	28.0	13.9	26.7
00U30M/89-106	232	11.3	55.2	0.38	4.3	81.1	5.62	1410	0.38	1.19	30.2	12.4	30.4
00U30M/106-118	584	14.4	66.3	0.43	5.8	145	6.46	2730	0.40	1.47	41.4	19.8	40.2
00U30M/118-131	359	9.91	51.2	0.31	3.9	127	4.68	1170	0.35	1.26	27.7	11.2	26.9
00U30M/131-144	429	12.6	61.9	0.30	4.6	137	5.16	2120	0.35	1.39	34.9	16.1	33.2

Table 5a-2a. ICP-AES data for the VP-1 soil pit.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
VP1/0-6	3.28	0.513	1.16	1.95	0.481	0.386	0.0600	0.151	354	15.9
VP1/6-19	3.94	1.35	1.37	2.16	0.585	0.403	0.0324	0.175	396	18.4
VP1/19-30	3.71	1.94	1.32	2.04	0.515	0.386	0.0194	0.173	300	18.0
VP1/30-55	3.76	1.26	1.42	1.94	0.513	0.372	0.0172	0.166	238	18.3
VP1/55-66	3.75	2.56	1.31	1.88	0.611	0.446	0.0259	0.165	228	17.7
VP1/66-78	3.17	6.33	1.12	1.69	0.729	0.442	0.0385	0.138	230	14.6
VP1/80-90	2.96	5.75	0.911	1.59	0.758	0.422	0.0300	0.119	197	12.6

Table 5a-2b. ICP-MS data for soil pit VP-1.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
VP1/0-6	0.22	31900	3.2	402	0.87	0.1	4800	0.17	31	3.2	42.6	2.4
VP1/6-19	<0.05	37400	3.8	437	1.2	0.09	12500	0.12	39.1	4.2	49.3	3.1
VP1/19-30	<0.05	36500	3.8	434	1.1	0.08	18600	0.08	38	4.1	46	3
VP1/30-55	<0.05	38600	4.2	446	1.1	0.09	12500	0.07	38.1	4.6	46	3.1
VP1/55-66	<0.05	38000	4.0	460	1.2	0.09	25000	0.07	37.6	4.6	43.5	2.9
VP1/66-78	<0.05	33500	3.9	440	0.98	0.07	62400	0.11	33.8	4.1	34	2.5
VP1/80-90	<0.05	30100	3.7	522	0.93	0.06	58400	0.09	27.8	3.6	23.3	2.3

Table 5a-2b. ICP-MS data for soil pit VP-1—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
VP1/0-6	11.9	11200	6.2	19400	17.3	16.9	5060	328	0.53	3340	7.2	8.3
VP1/6-19	13.9	13400	7.6	20700	21.1	21.3	6060	376	0.55	3360	7.6	10.7
VP1/19-30	13.5	12900	7.4	20200	19.9	20.3	5350	284	0.46	3370	6.1	10.2
VP1/30-55	14.1	13900	7.8	20000	20.2	20.9	5360	225	0.52	3340	7.3	11.1
VP1/55-66	14.1	13700	7.6	19000	19.8	20.5	6660	229	0.47	3940	6.9	11
VP1/66-78	12.1	11700	6.6	16700	17.9	18.9	7760	233	0.39	3810	4.3	10.5
VP1/80-90	22.1	9860	5.9	16100	14.9	18.2	8550	206	0.26	3790	3.1	9

Table 5a-2b. ICP-MS data for soil pit VP-1—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
VP1/0-6	640	12.8	66.6	0.41	3.8	64.3	5.42	1680	0.35	1.27	24.5	12	29.8
VP1/6-19	333	12.1	74.9	0.44	5	79.2	6.4	2000	0.4	1.38	31.9	14	33.4
VP1/19-30	205	11.6	74	0.4	4.9	84.2	5.86	1950	0.41	1.32	31.7	13.3	30.4
VP1/30-55	181	12.3	75.9	0.41	5.1	85.5	6.12	2010	0.42	1.27	35.1	13.9	32.8
VP1/55-66	276	12.1	72.2	0.4	5	110	5.9	1970	0.41	1.3	36.6	14	31.9
VP1/66-78	422	10.4	62.9	0.34	4.6	135	5.36	1700	0.35	1.24	32.6	12.4	28.3
VP1/80-90	322	9.87	59.4	0.27	3.9	157	4.37	1450	0.33	1.24	30.6	10.7	26.8

Table 5a-3a. ICP-AES data for soil pit VP-2.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
VP2/0-5	3.45	1.04	1.20	1.97	0.611	0.410	0.0773	0.171	407	15.7
VP2/5-14	3.73	0.592	1.33	2.06	0.572	0.392	0.0621	0.189	456	18.0
VP2/14-44	3.59	1.60	1.19	2.00	0.520	0.377	0.0323	0.181	341	16.2
VP2/44-55	3.58	2.42	1.21	1.93	0.514	0.346	0.0312	0.164	288	16.4
VP2/55-85	3.92	1.40	1.27	1.99	0.462	0.380	0.0224	0.171	247	16.5
VP2/110-115	3.12	3.99	1.06	1.67	0.640	0.392	0.0338	0.128	216	13.1

Table 5a-3b. ICP-MS data for soil pit VP-2.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
VP2/0-5	<0.05	35200	3.4	456	0.96	0.11	10200	0.23	35.9	3.6	46.9	2.7
VP2/5-14	<0.05	38300	3.5	459	1.0	0.08	5840	0.2	39.9	4	41.3	3.1
VP2/14-44	<0.05	36800	3.8	450	1.1	0.08	15600	0.12	36.7	3.8	43.2	2.9
VP2/44-55	<0.05	36400	3.8	443	1.2	0.08	23500	0.12	35.5	3.9	41.8	2.9
VP2/55-85	<0.05	38900	4.4	455	1.1	0.08	13600	0.07	38.9	4.3	44.7	3.1
VP2/110-115	<0.05	31900	3.3	430	0.97	0.07	39800	0.1	29.6	3.6	34.4	2.6

Table 5a-3b. ICP-MS data for soil pit VP-2—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
VP2/0-5	12.8	12300	6.9	20400	19.1	19	6820	403	0.54	3830	8.2	9.3
VP2/5-14	12.8	13200	7.6	21400	21	20.9	6040	445	0.52	3580	8.3	9.9
VP2/14-44	12.9	12400	7.3	20600	19.4	20.4	5760	348	0.44	3360	9.2	9.6
VP2/44-55	13.4	12400	7.2	19500	18.5	20	5390	281	0.43	3030	8.1	9.7
VP2/55-85	12.9	13100	7.8	20000	20	21.2	5070	244	0.48	3390	8.6	9.9
VP2/110-115	15.2	10900	6.2	16800	15.4	18.4	6770	216	0.38	3470	6	9.3

Table 5a-3b. ICP-MS data for soil pit VP-2—Continued.

Sample #	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
VP2/0-5	14.1	72.5	0.43	4.3	81.3	5.78	2010	0.39	1.38	28.3	13.3	32.8
VP2/5-14	12.2	76	0.45	4.9	77.4	6.37	2160	0.4	1.42	31.4	14.8	35.2
VP2/14-44	11.2	73.8	0.43	4.6	84.8	5.85	2170	0.38	1.35	29.8	14.3	33.2
VP2/44-55	10.9	71.6	0.37	4.6	90.9	5.57	1930	0.37	1.23	29.4	12.9	33.2
VP2/55-85	11.9	74.3	0.4	4.8	94.2	6.32	1930	0.41	1.27	32.7	13.1	31.3
VP2/110-115	10.4	63.1	0.36	4	136	4.8	1500	0.34	1.17	27.8	11	28.3

Table 5a-4a. ICP-AES data for the 8U-10 auger hole.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
8U-10/0-22	3.01	1.87	1.00	1.80	0.607	0.423	0.0604	0.171	444	17.5
8U-10/22-36	3.81	1.70	1.29	2.11	0.548	0.400	0.0321	0.154	344	17.8
8U-10/36-47	4.00	1.88	1.42	2.12	0.509	0.417	0.0240	0.196	292	18.7
8U-10/47-58	4.26	1.52	1.48	2.09	0.556	0.440	0.0229	0.205	296	20.2
8U-10/58-65	4.40	1.53	1.63	2.11	0.618	0.490	0.0242	0.217	303	22.0
8U-10/65-74	4.14	3.13	1.44	2.02	0.714	0.498	0.0336	0.180	295	21.0
8U-10/74-83	3.90	5.30	1.32	1.96	0.821	0.506	0.0399	0.169	286	19.4
8U-10/83-90	3.80	4.09	1.27	1.94	0.787	0.497	0.0358	0.177	283	17.8
8U-10/90-99	3.66	4.02	1.18	1.94	0.781	0.494	0.0343	0.166	271	17.2
8U-10/99-112	3.27	3.98	1.06	1.85	0.822	0.440	0.0316	0.154	236	15.2
8U-10/112-121	3.16	4.30	1.07	1.81	0.858	0.404	0.0312	0.132	228	14.7
8U-10/121-131	3.01	3.85	0.984	1.68	0.858	0.349	0.0291	0.104	203	13.8
8U-10/131-142	2.98	3.98	0.967	1.77	0.869	0.346	0.0295	0.128	193	13.4
8U-10/142-154	2.89	3.20	0.881	1.73	0.816	0.337	0.0281	0.104	193	13.1
8U-10/154-165	3.06	2.76	1.01	1.80	0.806	0.359	0.0302	0.109	210	13.2
8U-10/165-175	3.32	3.02	1.01	1.84	0.767	0.347	0.0307	0.110	221	13.4
8U-10/175-184	3.32	2.69	0.961	1.83	0.723	0.340	0.0290	0.106	222	13.6
8U-10/184-197	3.35	2.12	0.972	1.86	0.614	0.347	0.0261	0.112	224	14.5
8U-10/197-209	3.03	1.96	0.965	1.77	0.539	0.315	0.0236	0.112	199	12.6
8U-10/209-220	2.77	2.74	0.753	1.69	0.526	0.270	0.0222	0.0873	169	11.2
8U-10/220-230	2.46	3.21	0.633	1.58	0.509	0.217	0.0219	0.0693	141	10.6
8U-10/230-241	2.22	3.66	0.520	1.49	0.491	0.170	0.0201	0.0575	113	8.67
8U-10/241-249	2.57	2.94	0.704	1.59	0.548	0.233	0.0227	0.0838	161	10.7
8U-10/249-261	2.14	4.31	0.489	1.45	0.478	0.160	0.0188	0.0637	104	8.0
8U-10/261-270	2.46	3.35	0.625	1.58	0.516	0.212	0.0228	0.0735	142	10.1
8U-10/270-274	2.20	2.96	0.650	1.47	0.480	0.178	0.0206	0.0616	128	9.16
8U-10/274-284	2.01	2.92	0.657	1.39	0.485	0.152	0.0177	0.0536	119	8.50

Table 5a-4b. ICP-MS data for auger hole 8U-10.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
8U-10/0-22	0.47	36200	4	438	1.1	0.1	7670	0.18	35.6	3.9	43.1	2.9
8U-10/22-36	0.34	35100	3.6	414	1.1	0.09	15400	0.11	36	3.9	40.4	2.8
8U-10/36-47	0.3	37200	4.3	442	1.2	0.11	17200	0.08	36.9	4.5	42.8	2.9
8U-10/47-58	0.26	40300	4.8	464	1.3	0.11	14100	0.07	41.3	5	35.7	3.2
8U-10/58-65	0.34	40500	5	472	1.3	0.11	13600	0.08	43.2	5.2	45.5	3.3
8U-10/65-74	0.23	39200	4.1	464	1.3	0.11	29400	0.09	41.3	4.8	30.6	3.1
8U-10/74-83	0.17	36400	3.9	465	1.2	0.09	49200	0.11	37.8	4.4	29.4	2.8
8U-10/83-90	0.11	35900	3.9	446	1.2	0.09	39100	0.11	36.5	4.3	27.8	2.8
8U-10/90-99	0.09	34200	4.1	453	1.1	0.09	37700	0.1	35	4	25	2.6
8U-10/99-112	0.07	31700	3.6	420	1	0.08	36500	0.09	31.6	3.5	22.4	2.4
8U-10/112-121	0.05	30700	4.2	434	1	0.07	40000	0.09	29.3	3.4	35.3	2.4
8U-10/121-131	<0.05	29300	3.7	448	0.97	0.06	37300	0.08	25.9	3.1	35.1	2.2
8U-10/131-142	<0.05	28200	3.7	391	0.9	0.06	36100	0.07	25.5	2.9	35.2	2.2
8U-10/142-154	0.15	28200	3.6	389	0.94	0.06	29600	0.06	25.9	2.8	23.3	2.2
8U-10/154-165	0.07	29800	4	411	0.89	0.06	25700	0.07	25	2.9	38.8	2.3
8U-10/165-175	0.09	31400	4	409	0.92	0.06	28300	0.08	27	3	33.8	2.4
8U-10/175-184	0.39	31700	3.9	389	0.96	0.08	25700	0.07	25.1	3	24.4	2.4
8U-10/184-197	0.25	31800	3.8	400	0.96	0.07	20200	0.08	27	3.1	24.1	2.5
8U-10/197-209	0.21	27900	3.6	375	0.89	0.06	18300	0.07	25.2	2.8	38.5	2.2
8U-10/209-220	0.13	25700	3	350	0.72	0.06	25400	0.06	20.4	2.5	18.8	2
8U-10/220-230	0.1	22500	2.8	314	0.7	0.04	29700	0.06	18.8	2	18.1	1.7
8U-10/230-241	0.07	20400	2.4	294	0.61	0.04	34100	0.06	16.2	1.7	16.4	1.5
8U-10/241-249	0.08	23800	2.9	323	0.73	0.05	27700	0.06	20.9	2.2	19.9	1.8
8U-10/249-261	0.05	20000	2.1	298	0.63	0.04	41200	0.05	15.6	1.7	15.4	1.5
8U-10/261-270	0.09	22900	2.5	326	0.68	0.04	31700	0.06	19.1	2	18.9	1.7
8U-10/270-274	0.06	20300	2.5	290	0.62	0.04	27500	0.06	16.6	1.8	36.6	1.5
8U-10/274-284	<0.05	18300	2.2	277	0.57	0.03	26900	0.05	15.9	1.7	44.2	1.4

Table 5a-4b. ICP-MS data for auger hole 8U-10—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
8U-10/0-22	12.2	12600	7.4	20800	19.3	19.8	6080	406	0.62	3600	7.3	9.7
8U-10/22-36	12.4	12300	7.1	19900	19.4	19.4	5570	313	0.54	3370	6.3	9.5
8U-10/36-47	13.6	13400	7.4	20000	19.8	20.2	5120	263	0.55	3530	6.9	10.1
8U-10/47-58	14	14400	8.3	20200	22.1	21.8	5860	277	0.48	3840	7.3	11.2
8U-10/58-65	15.3	15300	8.7	19600	23.6	22.2	6300	271	0.58	4150	8.8	12.3
8U-10/65-74	13	13900	8	19100	24.4	21.3	7160	272	0.43	4240	3.5	11
8U-10/74-83	12.7	12900	7.4	18100	20.5	20	8100	268	0.43	4090	2.8	10.7
8U-10/83-90	10.8	12400	7.2	18400	19.9	20.2	7990	264	0.38	4220	2.5	10.4
8U-10/90-99	9.9	11700	6.9	18500	18.9	19.8	7950	257	0.36	4100	< 2	9.6
8U-10/99-112	10.8	10300	6.3	17000	17	18.7	8340	218	0.32	3620	< 2	9
8U-10/112-121	9.6	10600	6.2	17000	15.7	18	8790	216	0.44	3300	< 2	9
8U-10/121-131	8.9	9740	5.7	16600	14.1	17	8880	192	0.48	3020	< 2	8.2
8U-10/131-142	8.4	9340	5.5	16100	14	16.5	8740	180	0.56	2760	< 2	8
8U-10/142-154	7.2	8620	5.6	16300	14	16.3	8300	182	0.46	2810	5.4	7.1
8U-10/154-165	9.2	9790	5.8	17200	13.5	17.2	8140	197	0.62	2970	2.7	8.1
8U-10/165-175	8.9	9920	6	17400	14.8	17.8	7680	206	0.56	2890	3.7	8.3
8U-10/175-184	8.3	9250	6	17700	13.9	17.3	7140	204	0.5	2790	2.5	8.3
8U-10/184-197	23	9430	6.2	18100	14.7	17.9	6170	210	0.46	2850	2.8	7.9
8U-10/197-209	10.3	9300	5.6	16900	13.8	16.5	5460	182	0.61	2610	3.6	7.9
8U-10/209-220	7	6630	5	16000	11.5	14.6	5210	155	0.33	2160	< 2	6.5
8U-10/220-230	6.3	5500	4.4	14500	10.7	12.6	5070	122	0.28	1730	< 2	5.8
8U-10/230-241	5	4600	3.8	13700	9	11.3	5050	99	0.22	1380	< 2	5.2
8U-10/241-249	7.7	6730	4.6	15100	11.6	13.4	5540	148	0.35	1950	< 2	6.4
8U-10/249-261	5.2	4440	3.7	13800	8.7	11	4960	91.9	0.22	1320	< 2	5.4
8U-10/261-270	5.8	5580	4.4	15100	10.8	12.8	5320	133	0.26	1740	2.3	6.2
8U-10/270-274	6.7	5710	3.8	13900	9.3	11.2	4900	114	0.4	1460	< 2	6.5
8U-10/274-284	7.3	5790	3.5	13000	8.9	10.2	4930	104	0.47	1230	< 2	6.5

Table 5a-4b. ICP-MS data for auger hole 8U-10—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
8U-10/0-22	629	12.1	74.3	0.43	4.6	77.3	5.92	1750	0.39	1.32	28.6	12.8	33.3
8U-10/22-36	333	11.7	71.1	0.38	4.4	77.1	5.93	1660	0.39	1.23	29	12.8	30.8
8U-10/36-47	250	12.1	74.3	0.42	5	84.4	6.21	2150	0.41	1.44	33.2	14.4	33
8U-10/47-58	247	13.1	78	0.46	5.5	90.3	6.86	2240	0.42	1.6	37.7	16.3	36.8
8U-10/58-65	246	236	78	0.66	5.4	99	7.37	2340	0.44	1.68	38.9	17.5	37.7
8U-10/65-74	353	13.1	73.9	0.38	5.4	115	6.76	1920	0.42	1.49	37.5	15.5	35.7
8U-10/74-83	408	11.8	69.6	0.35	4.9	132	6.31	1810	0.39	1.57	35.3	14.1	32.4
8U-10/83-90	355	11.8	68.7	0.34	4.8	122	6.1	1890	0.38	1.57	34.3	14	33.1
8U-10/90-99	345	11.4	69.3	0.32	4.5	127	5.82	1790	0.38	1.48	32.7	13.4	29.8
8U-10/99-112	306	10.7	62.2	0.3	4.1	131	5.26	1630	0.35	1.42	29.5	12	27.3
8U-10/112-121	312	10.2	60.6	0.29	3.9	136	5.03	1420	0.33	1.32	28.2	10.9	24.7
8U-10/121-131	305	9.46	58.3	0.24	3.4	132	4.18	1120	0.31	1.17	25.5	9.5	22.3
8U-10/131-142	293	9.29	55.8	0.26	3.4	126	4.21	1350	0.3	1.24	23.4	9.8	22.3
8U-10/142-154	293	9.33	56.6	0.28	3.3	114	4.22	1170	0.3	1.15	22.5	9.2	21.2
8U-10/154-165	320	9.65	59.3	0.32	3.4	116	4.06	1220	0.31	1.15	23.3	9.4	22.8
8U-10/165-175	320	11.2	61	0.36	3.6	120	4.44	1250	0.33	1.21	24.2	9.9	23.6
8U-10/175-184	310	9.63	61.4	0.29	3.6	112	4.06	1210	0.33	1.14	24	9.3	23.7
8U-10/184-197	271	9.78	62.1	0.32	3.6	89.8	4.36	1290	0.33	1.26	24.4	9.5	26.8
8U-10/197-209	244	9.4	58.4	0.31	3.2	86.4	4.22	1190	0.32	1.21	21.4	9.1	22.4
8U-10/209-220	225	8.7	54.8	0.23	3	84.6	3.29	944	0.28	0.98	18.7	7.6	19
8U-10/220-230	216	7.62	48.4	0.2	2.5	78	3.02	768	0.25	0.86	15.4	6.6	15.3
8U-10/230-241	200	6.91	44.1	0.2	2.1	76.6	2.61	636	0.23	0.72	13.1	5.4	12.5
8U-10/241-249	230	8.19	50.7	0.22	2.6	79.7	3.36	955	0.26	0.93	17	7.5	16.8
8U-10/249-261	194	6.82	44	0.2	2	86.6	2.45	740	0.22	0.77	12.4	6.2	13
8U-10/261-270	241	7.69	49.4	0.2	2.4	84.6	2.94	831	0.25	0.84	15.4	6.9	15.6
8U-10/270-274	201	7.01	44.6	0.2	2.1	70.8	2.76	691	0.22	0.72	13.4	5.8	12.7
8U-10/274-284	183	6.78	42.5	0.2	1.9	65.6	2.59	606	0.22	0.67	11.7	5.4	11.5

Table 5a-5a. ICP-AES data for auger hole 8U-11.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
8U-11/0-22	3.06	0.612	1.06	1.85	0.429	0.314	0.0317	0.119	279	14.3
8U-11/22-38	3.47	2.01	1.15	2.00	0.474	0.366	0.0205	0.142	277	16.4
8U-11/38-50	3.51	1.21	1.20	1.85	0.455	0.340	0.0141	0.138	202	17.0
8U-11/50-62	3.60	1.56	1.32	1.95	0.443	0.357	0.0156	0.145	224	17.8
8U-11/62-71	3.33	2.20	1.23	1.74	0.521	0.380	0.0186	0.139	192	16.8
8U-11/71-86	3.11	4.23	1.02	1.66	0.618	0.409	0.0289	0.132	183	15.3
8U-11/86-98	3.01	4.47	0.963	1.64	0.655	0.416	0.0308	0.136	187	14.4
8U-11/98-109	2.68	4.26	0.859	1.52	0.677	0.367	0.0289	0.101	178	12.9
8U-11/109-118	2.87	3.96	0.872	1.64	0.709	0.416	0.0301	0.0957	187	12.7
8U-11/118-131	2.59	3.03	0.884	1.53	0.689	0.368	0.0252	0.0870	168	11.7
8U-11/131-139	2.39	2.51	0.818	1.45	0.654	0.315	0.0228	0.0797	156	10.5
8U-11/139-151	2.22	2.41	0.754	1.39	0.603	0.272	0.0202	0.0720	140	9.00
8U-11/151-161	1.79	1.62	0.594	1.23	0.474	0.175	0.0139	0.0488	104	< 8
8U-11/161-172	2.49	2.14	0.838	1.51	0.626	0.342	0.0221	0.0928	164	9.24
8U-11/172-183	2.67	1.97	0.902	1.61	0.649	0.372	0.0254	0.100	184	11.8
8U-11/183-196	3.24	1.91	1.15	1.90	0.792	0.548	0.0383	0.153	264	15.0
8U-11/196-210	3.24	2.04	1.12	1.81	0.740	0.453	0.0351	0.154	234	14.6
8U-11/210-224	2.88	2.74	0.890	1.70	0.638	0.422	0.0303	0.111	195	12.3
8U-11/224-237	2.90	2.32	0.954	1.73	0.586	0.423	0.0281	0.109	198	12.3
8U-11/237-251	2.96	2.04	0.962	1.78	0.561	0.435	0.0291	0.124	209	12.3
8U-11/251-265	2.91	1.61	0.963	1.75	0.526	0.410	0.0272	0.115	208	12.8
8U-11/265-278	3.01	1.90	1.02	1.76	0.534	0.422	0.0289	0.128	220	12.4

Table 5a-5b. ICP-MS data for auger hole 8U-11.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
8U-11/0-22	0.16	29900	2.9	380	0.85	0.07	5850	0.09	28.6	3	39.3	2.3
8U-11/22-38	0.12	32000	3.1	391	0.99	0.08	18300	0.08	32.9	3.4	37.1	2.5
8U-11/38-50	0.17	33100	3.4	387	1	0.08	11100	0.04	32.6	4	28.1	2.6
8U-11/50-62	0.12	33400	3.4	390	0.98	0.09	14200	0.05	34.2	4	49.5	2.6
8U-11/62-71	0.15	32400	3.5	400	1	0.08	21200	0.05	31.4	3.9	41.8	2.4
8U-11/71-86	0.11	29700	3.1	392	0.9	0.07	41400	0.07	29.8	3.5	23.3	2.2
8U-11/86-98	0.11	28400	3.2	394	0.84	0.07	43100	0.08	29.2	3.4	24.1	2
8U-11/98-109	0.06	25700	3.1	454	0.76	0.06	41400	0.07	23.7	3	19.4	1.9
8U-11/109-118	0.32	25800	3.6	402	0.78	0.08	36500	0.08	22.5	2.9	19.6	1.9
8U-11/118-131	0.19	23400	3	360	0.67	0.06	27600	0.06	21.9	2.6	32	1.8
8U-11/131-139	0.17	21800	2.8	331	0.63	0.05	23000	0.06	18.8	2.4	34.2	1.7
8U-11/139-151	0.15	20300	2.3	321	0.61	0.05	22200	0.05	16.4	2.1	33.9	1.6
8U-11/151-161	0.09	16300	2	262	0.48	0.04	15000	0.04	12.2	1.7	33.6	1.3
8U-11/161-172	0.13	23300	2.6	334	0.69	0.05	20000	0.06	19.4	2.5	35.6	1.8
8U-11/172-183	0.1	25000	2.8	353	0.72	0.06	18300	0.06	22.5	2.6	34.2	1.9
8U-11/183-196	0.17	32600	3.8	441	0.93	0.08	18300	0.08	30.4	3.5	37.7	2.4
8U-11/196-210	0.16	30400	3.6	408	0.92	0.08	19100	0.08	28.4	3.4	39.8	2.4
8U-11/210-224	0.08	27000	3.1	378	0.83	0.07	25800	0.08	27.5	2.9	22.8	2
8U-11/224-237	0.1	27300	3.2	386	0.81	0.06	21800	0.07	22.7	2.9	36	2.1
8U-11/237-251	0.11	29200	3.2	414	0.79	0.07	19900	0.07	25.8	3	36.9	2.2
8U-11/251-265	0.13	28600	3.2	398	0.92	0.07	15600	0.07	24.5	2.9	33.9	2.1
8U-11/265-278	0.17	29800	3.4	400	0.83	0.07	18600	0.09	26.5	3.1	37.9	2.3

Table 5a-5b. ICP-MS data for auger hole 8U-11—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
8U-11/0-22	10.6	10400	5.9	18600	15.9	15.9	4560	261	0.44	2750	5.2	7.7
8U-11/22-38	11.4	11200	6.5	18800	18.2	17.7	4920	258	0.41	3030	3.4	8.7
8U-11/38-50	10.8	11500	6.7	17700	18.3	17.9	4670	188	0.34	2850	5.5	9
8U-11/50-62	12.7	12600	6.8	18300	18.7	18	4540	206	0.55	2920	4.4	9.6
8U-11/62-71	12.2	12200	6.7	17300	17.7	17.5	5330	181	0.49	3250	3.9	9.8
8U-11/71-86	9.8	10300	6	16300	16.4	16.6	6460	176	0.3	3520	2.1	8.7
8U-11/86-98	8.8	9870	5.6	16000	16.3	16.6	7000	184	0.32	3560	2	8.3
8U-11/98-109	8.4	8490	5	14900	13.5	15.6	7140	169	0.27	3240	< 2	7.4
8U-11/109-118	7.4	8400	5.2	15000	12.7	15.7	7190	173	0.37	3370	< 2	7.4
8U-11/118-131	8.2	8290	4.8	14000	12.3	14.3	6900	153	0.46	2970	< 2	7
8U-11/131-139	9.3	7710	4.4	13500	10.5	13.6	6610	141	0.5	2610	2.4	6.7
8U-11/139-151	8.7	7120	4.1	13100	9.1	12.8	6210	121	0.48	2300	2.8	6.3
8U-11/151-161	6.7	5080	3.2	11600	7	10.7	4850	88.6	0.41	1430	< 2	5.3
8U-11/161-172	9.1	8110	4.6	14500	10.9	14	6500	153	0.5	2860	3	7
8U-11/172-183	8.5	8610	5	15300	12.4	14.9	6610	168	0.5	3140	2.6	7.3
8U-11/183-196	10.6	11400	6.5	18700	17	18.2	8310	250	0.6	4720	4.7	8.6
8U-11/196-210	11.3	10900	6.1	17300	15.9	18	7610	216	0.62	3840	4.6	8.8
8U-11/210-224	8.4	8730	5.3	16400	13.7	15.9	6750	183	0.38	3580	2.2	7.3
8U-11/224-237	9.3	9430	5.3	16700	12.8	15.8	6150	187	0.49	3590	2.4	7.8
8U-11/237-251	9.9	9850	5.7	17900	14.7	16.4	6110	202	0.48	3850	3	7.9
8U-11/251-265	9.2	9480	5.6	17700	13.8	16.5	5560	197	0.48	3640	3.8	7.7
8U-11/265-278	10.2	10200	5.9	17800	14.9	17.6	5690	211	0.53	3780	5	8.9

Table 5a-5b. ICP-MS data for auger hole 8U-11—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
8U-11/0-22	335	10.6	63.5	0.35	3.5	60.2	4.85	1360	0.33	1.06	22.6	10.1	25.2
8U-11/22-38	204	10.8	67	0.34	4.1	71.4	5.51	1500	0.36	1.19	26.5	11.3	26.8
8U-11/38-50	137	11.2	66.2	0.34	4.3	71.9	5.71	1470	0.37	1.07	29.2	11.8	27.8
8U-11/50-62	155	11.2	67.7	0.37	4.3	72.8	5.66	1620	0.37	1.18	28.4	11.6	28.9
8U-11/62-71	190	10.8	63.6	0.35	4.4	85	5.14	1540	0.35	1.15	29.6	12	28.2
8U-11/71-86	299	10.2	58.9	0.3	3.9	111	4.9	1460	0.33	1.16	27.5	11.1	25
8U-11/86-98	313	9.79	56.7	0.26	3.8	117	4.95	1500	0.32	1.25	26.4	11	24.5
8U-11/98-109	291	8.97	52.9	0.24	3.2	123	4.36	1100	0.28	1.05	24.4	8.9	21.5
8U-11/109-118	304	9.01	55.2	0.26	3.2	121	3.69	1030	0.28	1.01	25.5	8.2	20.9
8U-11/118-131	258	8.67	51.6	0.24	3	112	3.73	976	0.26	1.01	21.5	7.9	18.6
8U-11/131-139	237	8.32	48.9	0.26	2.6	91.4	3.21	868	0.26	0.88	18.9	6.8	17.5
8U-11/139-151	210	7.8	47	0.24	2.4	88.2	2.84	776	0.24	0.82	16.6	6.2	16.3
8U-11/151-161	145	7.33	41.4	0.2	1.7	59.5	2.03	528	0.21	0.57	11.2	4.6	11.9
8U-11/161-172	228	8.5	52.1	0.28	2.8	107	3.33	994	0.27	0.92	18.9	7.4	18.5
8U-11/172-183	263	9.08	54.9	0.29	3	83.1	3.83	1080	0.29	1.07	20.8	8.3	19.7
8U-11/183-196	404	11	68.2	0.38	4.1	111	5.32	1740	0.36	1.48	28.7	12.1	26.8
8U-11/196-210	360	10.5	63.6	0.37	3.9	121	4.97	1690	0.34	1.41	26.6	11.4	27
8U-11/210-224	321	9.62	58.9	0.3	3.4	90.2	4.33	1230	0.32	1.15	22.3	9.2	22
8U-11/224-237	296	9.49	59.4	0.31	3.3	83	3.92	1210	0.31	1.12	22.8	9	21.2
8U-11/237-251	316	10.1	62.8	0.35	3.5	85.5	4.45	1420	0.34	1.25	24.3	10.2	22.6
8U-11/251-265	288	10.1	62.2	0.33	3.4	80.9	4.18	1360	0.33	1.15	23.2	9.6	22.9
8U-11/265-278	313	10.3	63.6	0.35	3.6	91.7	4.66	1460	0.34	1.28	24.4	10.3	23.9

Table 5a-6a. ICP-AES data for auger hole 8U-12.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
8U-12/0-13	3	0.792	1.1	1.69	0.473	0.256	0.0366	0.13	317	13.6
8U-12/13-27	3.02	1.99	1.09	1.69	0.453	0.25	0.0223	0.122	269	13.4
8U-12/27-37	2.89	1.91	1.07	1.65	0.414	0.259	0.0221	0.118	238	12.4
8U-12/37-48	2.72	1.7	1.03	1.54	0.372	0.224	0.0184	0.109	187	11.8
8U-12/48-60	2.58	1.35	0.994	1.44	0.35	0.19	0.0179	0.0985	166	10.6
8U-12/60-71	2.3	1.3	0.852	1.33	0.344	0.164	0.0166	0.0841	137	10.6
8U-12/71-83	2.74	2.23	1.06	1.48	0.524	0.251	0.0253	0.111	184	12.5
8U-12/83-96	3.11	3.78	1.16	1.56	0.67	0.316	0.0335	0.126	218	14.1
8U-12/96-106	2.85	3.99	1.03	1.48	0.624	0.28	0.0283	0.106	201	12.7
8U-12/106-116	2.13	3.08	0.759	1.26	0.512	0.182	0.0207	0.0708	135	8.99
8U-12/116-128	1.91	3.37	0.713	1.19	0.52	0.168	0.0211	0.0664	130	8.71
8U-12/128-137	1.88	2.42	0.76	1.2	0.466	0.163	0.0188	0.0634	127	7.62
8U-12/137-147	1.92	2.17	0.849	1.13	0.468	0.157	0.0204	0.0718	136	8.18
8U-12/147-158	1.9	1.85	0.711	1.15	0.458	0.17	0.0184	0.0606	124	7.93
8U-12/158-170	2.1	2.03	0.758	1.24	0.511	0.211	0.0196	0.0719	133	8.16
8U-12/170-180	2.28	2.04	0.882	1.33	0.547	0.244	0.0234	0.0879	150	9.34
8U-12/180-191	2.76	1.96	1.03	1.5	0.69	0.33	0.0291	0.114	206	11.2
8U-12/191-203	2.77	2.17	1.05	1.52	0.69	0.331	0.027	0.104	196	11.6
8U-12/203-216	2.82	2.62	1.01	1.54	0.676	0.327	0.0278	0.101	186	11.3
8U-12/216-227	2.65	2.44	0.944	1.44	0.621	0.298	0.0266	0.0974	181	11.2
8U-12/227-239	2.24	2.2	0.816	1.36	0.516	0.22	0.0222	0.0778	154	8.83
8U-12/239-251	2.27	2.68	0.796	1.42	0.688	0.164	0.0211	0.066	152	8.8
8U-12/251-262	2.28	2.61	0.708	1.42	0.61	0.162	0.0202	0.0603	142	8.92
8U-12/262-273	1.98	2.23	0.777	1.33	0.509	0.137	0.0172	0.0561	129	8.34
8U-12/273-279	1.94	3.56	0.703	1.25	0.727	0.133	0.0188	0.0448	147	8.72
8U-12/279-290	2.08	3.91	0.618	1.33	0.625	0.125	0.0182	0.0468	124	7.41
8U-12/290-299	2.08	3.09	0.656	1.35	0.539	0.15	0.0172	0.0574	122	7.4
8U-12/299-310	1.86	2.63	0.64	1.27	0.532	0.132	0.0173	0.0486	114	7.84
8U-12/310-317	1.89	2.9	0.652	1.28	0.53	0.127	0.0176	0.0501	120	7.34

Table 5a-6b. ICP-MS data for auger hole 8U-12.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
8U-12/0-13	<2	31700	3.3	386	0.82	0.06	8280	0.31	34	3.5	47.2	2.5
8U-12/13-27	<2	30600	2.8	387	0.87	< 0.06	19700	0.14	31	3.5	44.8	2.5
8U-12/27-37	<2	29800	3	393	0.86	< 0.06	19300	0.18	32.3	3.4	48	2.4
8U-12/37-48	<2	27800	2.8	375	0.86	< 0.06	17100	0.09	28.1	3.3	49.1	2.2
8U-12/48-60	<2	26700	3	356	0.74	< 0.06	13900	0.05	27.3	3.2	51	2.2
8U-12/60-71	<2	24300	2.8	335	0.73	< 0.06	13600	0.08	26.5	2.8	39.8	2
8U-12/71-83	<2	28900	3.5	386	0.88	< 0.06	23500	0.08	31.2	3.6	37.3	2.2
8U-12/83-96	<2	32900	4	418	0.93	0.06	39800	0.1	33.4	4.1	43.1	2.5
8U-12/96-106	<2	30200	4.1	393	0.85	< 0.06	41900	0.1	31.2	3.7	22.8	2.3
8U-12/106-116	<2	21900	2.9	347	0.66	< 0.06	31500	0.12	22.5	2.5	25.2	1.6
8U-12/116-128	<2	20600	2.6	326	0.62	< 0.06	34900	0.08	21.1	2.4	34.2	1.5
8U-12/128-137	<2	20300	2.2	313	0.6	< 0.06	24800	0.06	18.8	2.3	47.2	1.6
8U-12/137-147	<2	20900	2.5	305	0.6	0.1	24400	0.14	20	2.4	61.3	1.6
8U-12/147-158	<2	21200	2.3	303	0.61	< 0.06	20900	0.05	18.9	2.2	41.4	1.6
8U-12/158-170	<2	22900	2.4	312	0.69	< 0.06	21900	0.06	20.4	2.4	40.1	1.7
8U-12/170-180	<2	22100	2.8	329	0.68	0.06	20300	0.06	23.3	2.5	52.8	1.8
8U-12/1180-191	<2	27900	3.6	403	0.88	0.07	20000	0.07	28.9	3.2	33.3	2.1
8U-12/191-203	<2	28800	3.5	418	0.82	0.07	23400	0.09	27.3	3.2	55.3	2.2
8U-12/203-216	<2	28300	3.3	378	0.89	0.07	27300	0.08	27	3.1	49.2	2.1
8U-12/216-227	<2	27400	3.4	361	0.85	0.07	25800	0.08	26.2	3	40.9	2.1
8U-12/227-239	<2	22700	3	322	0.7	< 0.06	22800	0.11	22.2	2.4	48.1	1.7
8U-12/239-251	<2	23600	3.1	320	0.75	< 0.06	28400	0.17	20.5	2.3	49.4	1.7
8U-12/251-262	<2	23300	3	306	0.7	< 0.06	27100	0.08	18.7	2.1	36.3	1.7
8U-12/262-273	<2	21000	2.8	288	0.69	< 0.06	23200	0.04	16.8	2	60.8	1.5
8U-12/273-279	<2	21000	3	298	0.7	< 0.06	38900	0.06	17.2	2.2	41.4	1.5
8U-12/279-290	<2	22200	3.2	293	0.72	< 0.06	41700	0.05	17.1	2	32.6	1.6
8U-12/290-299	<2	22600	3.1	300	0.74	< 0.06	33100	0.38	18.6	2	36.4	1.6
8U-12/299-310	<2	19900	2.9	275	0.72	< 0.06	27600	0.05	16.7	1.9	42.4	1.4
8U-12/310-317	<2	20300	2.9	277	0.68	< 0.06	30600	0.11	16.5	1.9	44	1.5

Table 5a-6b. ICP-MS data for auger hole 8U-12—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
8U-12/0-13	11.7	11500	6.6	18200	17.9	17.5	5290	336	0.46	2720	4.5	9.6
8U-12/13-27	12.2	11100	6.4	17200	16.2	16.1	4890	281	0.4	2520	5.4	9.2
8U-12/27-37	13.1	11000	6.1	17000	16.7	16	4520	249	0.42	2660	4.2	8.8
8U-12/37-48	11.7	10500	5.7	16000	14.6	14.7	4020	194	0.4	2290	4.3	8.5
8U-12/48-60	11.4	10400	5.5	15200	14.2	14.6	3900	174	0.44	1980	4.5	8.5
8U-12/60-71	9.6	8920	5.1	14300	14.1	13.6	3820	145	0.32	1740	4.2	7.4
8U-12/71-83	11.6	11100	6	15900	16.4	16.9	5780	195	0.43	2680	5.1	8.7
8U-12/83-96	11.4	12400	6.6	16500	17.4	19.6	7580	236	0.39	3340	5.5	9.4
8U-12/96-106	10	11100	6	15600	16.2	18.1	7000	216	0.32	2920	5.3	8.4
8U-12/106-116	7.8	7790	4.4	12900	11.8	14	5720	140	0.26	1850	3.2	6.1
8U-12/116-128	7.6	7460	4	12400	11	13.8	5840	138	0.28	1760	3.1	5.8
8U-12/128-137	8.3	7810	4	12600	10	13	5180	133	0.38	1700	2.8	6.4
8U-12/137-147	9.9	8780	4.1	12900	10.4	13.9	5280	142	0.5	1770	2.8	7.4
8U-12/147-158	8	7530	4.1	13200	10.1	14.4	5250	134	0.38	1900	3	6.1
8U-12/158-170	8.2	8100	4.4	13700	10.8	15.1	5920	143	2.2	2300	3.8	6.3
8U-12/170-180	10.1	8730	4.6	13300	12.3	12.2	5700	150	0.67	2350	4.5	7
8U-12/180-191	10.7	10400	5.7	15800	15.2	15.7	7250	212	0.63	3370	5.2	8
8U-12/191-203	11.3	10900	5.8	16500	14.4	16.8	7620	211	0.73	3460	4.7	8.6
8U-12/203-216	10.9	10400	5.6	16000	14.6	16.4	7470	198	0.69	3310	4.2	8.2
8U-12/216-227	10.2	9730	5.5	15400	13.9	16.3	6890	189	0.6	3100	4.4	7.6
8U-12/227-239	9.3	8350	4.5	14200	11.9	13.7	5680	160	0.56	2240	3.1	6.9
8U-12/239-251	8.4	8100	4.4	15200	10.6	13.2	7470	159	0.55	1730	3.1	6.6
8U-12/251-262	7	7130	4.3	15000	9.9	13.5	6670	147	0.41	1640	4.7	5.8
8U-12/262-273	8.9	7840	3.9	14000	8.7	12.4	5600	135	0.59	1390	2.3	6.5
8U-12/273-279	7.2	7260	3.9	13800	9.2	12.9	8200	156	0.41	1410	2.5	6
8U-12/279-290	6.4	6350	4	14400	9.1	13.3	6910	132	0.33	1280	2.3	5.4
8U-12/290-299	7.1	6740	4.1	14700	10.1	13.9	6050	132	0.36	1590	2.6	5.6
8U-12/299-310	7.2	6540	3.7	13500	8.8	12.6	5940	122	0.41	1340	3.2	5.5
8U-12/310-317	7.2	6650	3.7	13600	8.7	12.7	5960	126	0.46	1310	2.2	6

Table 5a-6b. ICP-MS data for auger hole 8U-12—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
8U-12/0-13	377	10.9	57.8	0.3	3.7	69.9	3.23	1390	0.3	1.09	24.7	11.4	30.8
8U-12/13-27	225	10.4	57.9	0.29	3.6	79.6	3.45	1170	0.31	0.88	24.5	10.6	28
8U-12/27-37	223	10.3	56.8	0.28	3.5	81.2	3.62	1130	0.3	0.96	24.4	10.4	24.8
8U-12/37-48	188	9.91	53.4	0.27	3.1	80.4	3.33	1170	0.28	0.87	22.7	9.5	24.3
8U-12/48-60	182	9.61	50.5	0.27	3.1	74.9	3.26	1080	0.27	0.87	21.8	9	22.6
8U-12/60-71	174	8.93	46	0.26	2.7	71.2	3.12	999	0.25	0.82	20.4	8.5	20.4
8U-12/71-83	266	10.1	51	0.3	3.5	98.3	3.82	1350	0.28	1.13	26.7	11.4	24.6
8U-12/83-96	357	10.8	53.8	0.3	4.2	120	4.04	1480	0.31	1.17	32.3	11.8	32.2
8U-12/96-106	304	10.4	51	0.25	3.7	114	3.61	1290	0.28	1.26	29.3	11.1	27.6
8U-12/106-116	227	8.28	41.7	0.2	2.4	91	2.54	743	0.22	0.8	19.9	6.9	19.2
8U-12/116-128	220	7.79	39.6	0.21	2.3	100	2.32	759	0.21	0.84	19	6.8	15.5
8U-12/128-137	200	7.85	40.4	0.2	2.1	84.6	2.08	679	0.21	0.78	16.6	7	17.4
8U-12/137-147	207	7.87	39.8	0.21	2.2	82.5	2.19	698	0.21	0.82	17.3	6.4	20.9
8U-12/147-158	202	7.75	40.3	0.2	2.2	80.6	2.06	738	0.2	0.82	16.9	6.6	16.7
8U-12/158-170	212	8.34	41.7	0.23	2.4	91.9	2.27	834	0.22	0.82	18.6	6.9	20.3
8U-12/170-180	199	8.85	42.7	0.27	2.5	92.7	2.18	1100	0.28	0.98	18.3	7.9	17.9
8U-12/1180-191	275	10.3	49.7	0.33	3.4	114	3.64	1520	0.3	1.3	24.7	10.5	24.6
8U-12/191-203	293	10.3	50.5	0.35	3.5	114	3.56	1420	0.31	1.24	24.7	10	28.8
8U-12/203-216	287	10	48.7	0.32	3.4	103	3.57	1330	0.29	1.26	23.6	9.7	22.4
8U-12/216-227	281	9.68	47.2	0.29	3.2	100	3.17	1250	0.28	1.18	23.8	9.2	23.9
8U-12/227-239	223	8.36	42	0.26	2.5	83.6	2.45	974	0.24	0.96	17.8	7.3	17.2
8U-12/239-251	218	8.14	42.1	0.22	2.4	87.3	2.11	889	0.24	0.87	16.2	6.6	17.1
8U-12/251-262	197	8.03	40.7	0.22	2.3	78.7	1.98	733	0.23	0.75	15.4	6	17.2
8U-12/262-273	178	7.33	37.7	0.21	2	71	1.82	616	0.22	0.68	13.2	5.4	13.3
8U-12/273-279	209	7.37	37.1	0.2	2.1	87.4	1.66	681	0.21	0.74	14.2	6.3	15.1
8U-12/279-290	192	6.94	37.2	0.2	2	94.5	1.62	647	0.2	0.74	13.7	5.6	12.9
8U-12/290-299	183	7.48	38.8	0.2	2.1	87.4	1.77	787	0.22	0.81	14.7	6.4	15.6
8U-12/299-310	178	7.06	34.9	0.2	1.9	73.4	1.7	725	0.2	0.85	13.4	5.7	16
8U-12/310-317	183	6.96	35.5	0.2	1.9	74.2	1.62	689	0.2	0.68	13.2	5.5	12.4

Table 5a-7a. ICP-AES data for auger hole 00U-27.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U-27/0-10	2.91	0.507	1.04	1.77	0.441	0.329	0.0667	0.131	336	14.3
00U-27/10-30	3.26	1.51	1.16	1.87	0.514	0.34	0.0352	0.13	341	16.6
00U-27/30-50	3.12	1.69	1.06	1.83	0.451	0.32	0.029	0.129	258	14.9
00U-27/50-65	3.39	1.59	1.2	1.89	0.516	0.381	0.0336	0.144	308	16.7
00U-27/65-84	3.32	1.13	1.21	1.81	0.434	0.386	0.0236	0.151	271	16.5
00U-27/84-100	3.34	0.801	1.43	1.65	0.554	0.378	0.0294	0.168	312	19.3
00U-27/100-116	3.44	0.848	1.44	1.67	0.646	0.41	0.0326	0.157	295	19
00U-27/116-128	3.51	1.7	1.32	1.77	0.696	0.446	0.0446	0.151	291	16.5
00U-27/128-141	3.48	4.17	1.2	1.78	0.736	0.481	0.0485	0.132	266	16.5
00U-27/141-156	3.04	4.01	1.05	1.66	0.637	0.395	0.0388	0.12	223	13.7
00U-27/156-168	2.68	4.22	0.937	1.51	0.652	0.334	0.0385	0.109	191	12
00U-27/168-179	2.74	4.62	0.885	1.55	0.674	0.335	0.0347	0.0976	180	11.3
00U-27/179-194	2.51	4.65	0.868	1.48	0.711	0.284	0.0353	0.0862	153	10.6
00U-27/194-208	2.36	3.55	0.793	1.42	0.708	0.254	0.0288	0.0747	156	9.89
00U-27/208-221	2.54	3.39	0.822	1.47	0.666	0.239	0.0288	0.0802	163	10.8
00U-27/221-233	2.53	3.63	0.857	1.44	0.63	0.232	0.0293	0.0842	172	11.4
00U-27/233-242	2.42	3.46	0.783	1.4	0.561	0.208	0.0275	0.08	163	10.4
00U-27/242-252	2.45	3.76	0.765	1.44	0.593	0.21	0.0257	0.0728	162	10.8
00U-27/252-265	2.43	3.25	0.747	1.46	0.555	0.196	0.0253	0.0729	154	9.64
00U-27/265-274	2.29	2.79	0.785	1.38	0.529	0.194	0.0238	0.0851	159	9.38
00U-27/274-283	2.25	2.31	0.763	1.38	0.489	0.184	0.0216	0.0882	159	9.49
00U-27/283-291	2.94	2.29	0.898	1.69	0.536	0.265	0.0263	0.12	199	11.9
00U-27/291-301	2.85	2.52	1.02	1.48	0.693	0.24	0.0252	0.11	237	12.2
00U-27/301-313	3.29	3.09	1.07	1.65	0.73	0.258	0.0286	0.124	246	13.3
00U-27/313-324	2.91	2.26	0.932	1.63	0.543	0.244	0.027	0.121	197	12

Table 5a-7b. ICP-MS data for auger hole 00U-27.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
00U-27/0-10	<2	28800	2.8	425	0.74	0.1	4930	0.22	34.2	3.1	37.8	2.4
00U-27/10-30	<2	32500	3.1	428	0.9	0.08	14800	0.15	35.6	3.8	37.6	2.9
00U-27/30-50	<2	29800	2.9	410	0.84	0.08	15800	0.11	33.9	3.3	34.3	2.6
00U-27/50-65	<2	33400	3.6	456	0.9	0.08	15400	0.13	35.8	3.7	38.5	2.9
00U-27/65-84	<2	35700	3.5	466	0.93	0.09	11800	0.1	37.8	4	38.2	2.9
00U-27/84-100	<2	39500	4.2	458	1.1	0.1	9260	0.09	44.3	5.1	44.9	3.3
00U-27/100-116	<2	39300	3.8	493	1.1	0.1	9600	0.07	41.3	5.5	42.3	3.2
00U-27/116-128	<2	36700	4.2	490	1	0.1	17400	0.1	37.3	4.5	33.7	3
00U-27/128-141	<2	34100	4.4	502	0.99	0.09	40100	0.12	33	4.4	31.4	2.7
00U-27/141-156	<2	29900	3.8	442	0.95	0.08	39600	0.1	30.9	3.6	33.5	2.4
00U-27/156-168	<2	28100	3.4	428	0.83	0.07	44000	0.09	28.6	3.2	30	2.2
00U-27/168-179	<2	27700	3.4	413	0.87	0.07	46700	0.09	25.6	3.1	27	2.2
00U-27/179-194	<2	26700	3.3	399	0.82	0.06	48900	0.06	24.9	2.8	46.1	2
00U-27/194-208	<2	26200	2.7	380	0.73	< 0.06	39900	0.08	20.8	2.6	31.8	1.9
00U-27/208-221	<2	27800	3.3	367	0.94	0.06	36700	0.08	26.1	2.8	30.1	2.1
00U-27/221-233	<2	29000	3.2	371	0.89	0.07	41200	0.08	27.4	3	31.3	2.3
00U-27/233-242	<2	26900	3.3	347	0.81	0.06	37500	0.08	24.6	2.8	28.7	2.1
00U-27/242-252	<2	26700	3.1	347	0.93	< 0.06	40400	0.08	23	2.6	27.7	2.2
00U-27/252-265	<2	25200	3	350	0.78	< 0.06	33300	0.07	20.6	2.4	30	2.1
00U-27/265-274	<2	24500	3	340	0.72	< 0.06	29600	0.07	23.2	2.5	36.6	2
00U-27/274-283	<2	24000	2.8	338	0.78	< 0.06	23800	0.07	22.2	2.4	37.3	2
00U-27/283-291	<2	28300	3	369	0.89	0.06	21600	0.08	27	2.9	35.8	2.4
00U-27/291-301	<2	33200	3.7	404	0.99	0.07	28600	0.1	28.6	3.4	33.5	2.8
00U-27/301-313	<2	33800	3.5	408	1	0.07	30400	0.1	28.8	3.6	35.2	3
00U-27/313-324	<2	29600	3.2	392	0.87	0.06	22300	0.09	28.1	3	35.1	2.5

Table 5a-7b. ICP-MS data for auger hole 00U-27—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
00U-27/0-10	11	10200	6.2	17300	18	11.7	4510	333	0.54	3100	7.8	7.9
00U-27/10-30	12.5	11600	6.9	18400	19	14.5	5180	343	0.54	3200	6.8	9.7
00U-27/30-50	11	10400	6.3	17300	17.4	13	4440	246	0.49	2910	5.9	8.2
00U-27/50-65	12.1	11800	7.2	18400	19.2	15.7	5230	306	0.52	3560	6.3	9.2
00U-27/65-84	12.9	12400	7.4	19400	19.6	16.5	4560	277	0.52	3930	8.1	9.1
00U-27/84-100	15	15000	8.4	19800	22.5	19.9	5930	328	0.6	4260	11	10.9
00U-27/100-116	14.8	14700	8.4	19200	22.1	19.5	6810	304	0.56	4480	9.1	11.2
00U-27/116-128	16	13400	7.8	18500	20	18.3	7280	298	0.54	4440	6.8	10.6
00U-27/128-141	17.7	12300	7.2	17600	17.6	18	7740	275	0.61	4400	5.9	10.9
00U-27/141-156	14.8	10900	6.2	16500	17.6	16.7	6870	234	0.53	3660	5.5	8.4
00U-27/156-168	13	9710	5.8	15900	15.3	16.6	7010	198	0.47	3380	4.3	7.8
00U-27/168-179	13.2	9230	5.5	15800	13.7	16.4	7290	188	0.42	3210	5.4	7.3
00U-27/179-194	11.9	9370	5.2	15900	13	15.9	8080	167	0.53	2860	4.9	7.5
00U-27/194-208	11.4	8260	5.1	15900	11.2	16.1	8000	162	0.44	2680	3.4	6.6
00U-27/208-221	13.4	8820	5.4	16100	14.2	17.1	7590	178	0.47	2510	3.5	7.3
00U-27/221-233	15.3	9110	5.6	16400	14.6	17.4	7260	188	0.51	2510	4.2	7.7
00U-27/233-242	12.4	8340	5.1	15400	13.1	15.9	6300	176	0.5	2170	4	7.2
00U-27/242-252	10.2	8000	5.2	15700	12.3	15.8	6580	173	0.46	2150	2.8	7
00U-27/252-265	12.1	7680	4.8	15000	10.9	14.8	5990	162	0.47	1910	2.9	6.8
00U-27/265-274	10.9	8080	4.8	14900	12.3	14.5	5690	166	0.52	1970	2.8	7.1
00U-27/274-283	10.8	7770	4.7	14800	11.8	13.8	5240	161	0.54	1850	3.7	7
00U-27/283-291	11	9170	5.6	16200	13.8	15.4	5790	207	0.6	2410	3.5	8.4
00U-27/291-301	17.1	10400	6.6	17300	15.4	18.3	7400	245	0.75	2660	3.6	9.2
00U-27/301-313	17	10800	6.8	17000	15.7	19.1	7640	248	0.83	2550	5	9.6
00U-27/313-324	12.5	9550	6	16600	15.3	16.2	5810	206	0.75	2370	4.7	8.3

Table 5a-7b. ICP-MS data for auger hole 00U-27—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U-27/0-10	628	12.4	59.2	0.4	3.2	69.8	4.29	1500	0.34	1.24	23.1	11.8	28.4
00U-27/10-30	332	11.4	64.2	0.4	3.9	85.3	4.97	1880	0.36	1.3	27.6	13.2	29.7
00U-27/30-50	263	10.6	60	0.35	3.4	85.6	4.18	1570	0.33	1.15	24.7	11.4	27.6
00U-27/50-65	318	11.2	64	0.38	3.8	100	4.6	1530	0.36	1.2	28.4	12	30.3
00U-27/65-84	222	13.4	65.2	0.39	3.9	103	5.13	1780	0.38	1.22	30	11.4	35.6
00U-27/84-100	289	13.3	66.6	0.46	5	106	6.48	2310	0.39	1.5	36.6	15.3	39.2
00U-27/100-116	345	13.3	64.9	0.46	5	112	6.42	2080	0.39	1.52	38.8	14.6	37.1
00U-27/116-128	430	12.9	62.9	0.42	4.6	127	4.86	1890	0.38	1.46	34.4	12.9	34.3
00U-27/128-141	495	17	58.3	0.4	4.3	143	4.57	1570	0.35	1.5	33.7	12.1	32.1
00U-27/141-156	410	11.8	52.1	0.37	3.8	134	4.21	1580	0.32	1.42	28.9	11.2	28
00U-27/156-168	374	11.6	48.6	0.31	3.4	139	3.62	1420	0.29	1.3	26	10.5	23.8
00U-27/168-179	342	11.9	48.3	0.32	3.3	147	3.43	1410	0.28	1.16	25	10.3	24
00U-27/179-194	348	13.9	46.1	0.35	3	170	3.12	1220	0.27	1	22	8.7	23.6
00U-27/194-208	300	10.3	44.8	0.27	2.8	155	2.62	905	0.26	0.86	20.8	7.2	19.4
00U-27/208-221	309	10.2	46.6	0.29	3.1	156	3.22	1350	0.27	1.1	22.2	8.9	22.4
00U-27/221-233	294	11	48.2	0.3	3.3	141	3.52	1480	0.27	1.24	23.4	9.6	24.7
00U-27/233-242	253	10.1	46.3	0.27	2.9	114	2.83	1190	0.26	1.11	20.2	8.6	20.4
00U-27/242-252	262	9.36	46.2	0.24	2.8	120	2.66	918	0.26	1.07	20.3	7.7	19.6
00U-27/252-265	247	9.32	45	0.23	2.5	109	2.26	810	0.25	1.02	18.3	7	18.4
00U-27/265-274	243	9.16	44.8	0.24	2.6	104	2.53	964	0.25	1.03	18.9	7.6	19.8
00U-27/274-283	206	9.95	45.5	0.24	2.4	94.1	2.46	1040	0.24	1.03	17.9	7.8	17.9
00U-27/283-291	240	11	50.6	0.28	3	104	2.92	1050	0.28	1.12	22	8.5	27.3
00U-27/291-301	272	11.6	54.1	0.3	3.6	139	3.19	1020	0.31	1.21	25.9	9.1	28.9
00U-27/301-313	268	12.4	54.8	0.31	3.8	148	3.34	1490	0.3	1.39	26.7	10.5	28.4
00U-27/313-324	245	11.3	52.4	0.3	3.2	113	3.39	1280	0.29	1.27	22.3	9.6	26.7

Table 5b-1a. ICP-AES data for the 01U-1 transect.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
01U-1A/0-10	2.94	3.32	1.27	1.89	1.08	0.395	0.0392	0.117	395	14.6
01U-1A/10-30	2.37	2.58	1.01	1.58	0.836	0.309	0.0256	0.0906	302	10.3
01U-1A/30-50	2.75	2.96	1.20	1.61	0.699	0.326	0.0288	0.0989	343	12.6
01U-1B/0-10	4.10	4.24	1.66	2.15	1.39	0.421	0.0447	0.162	484	16.8
01U-1B/10-30	3.40	2.78	1.49	1.77	0.950	0.343	0.0359	0.150	396	14.7
01U-1B/30-50	2.75	2.38	1.22	1.52	0.616	0.309	0.0262	0.102	319	12.4
01U-1C/0-10	3.16	3.29	1.34	1.81	1.10	0.341	0.0345	0.143	386	13.2
01U-1C/10-30	2.88	3.72	1.25	1.60	0.932	0.322	0.0294	0.124	437	13.4
01U-1C/30-50	2.58	5.28	1.22	1.62	0.838	0.288	0.0249	0.110	358	12.6
01U-1D/0-10	3.85	3.95	1.63	2.15	1.34	0.394	0.0420	0.168	488	15.6
01U-1D/10-30	3.02	3.42	1.29	1.82	1.12	0.371	0.0323	0.142	394	14.1
01U-1D/30-50	2.87	3.20	1.36	1.68	0.812	0.335	0.0318	0.139	389	13.7
01U-1E/0-10	2.76	2.98	1.22	1.62	0.798	0.331	0.0416	0.103	378	13.5
01U-1E/10-30	3.10	3.55	1.36	1.75	0.761	0.340	0.0335	0.147	398	14.6
01U-1E/30-50	2.26	9.45	1.15	1.39	0.794	0.243	0.0269	0.0972	288	11.9
01U-1F/0-10	2.63	3.80	1.17	1.55	0.786	0.294	0.0340	0.118	387	13.1
01U-1F/10-30	2.19	6.18	0.956	1.47	0.940	0.257	0.0241	0.0837	302	11.0
01U-1F/30-50	2.32	8.04	1.06	1.55	1.50	0.292	0.0276	0.0797	310	11.5

Table 5b-1b. ICP-MS data for the 01U-1 transect.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
01U-1A/0-10	0.04	29700	4	478	0.76	0.08	33700	0.08	33	4.1	61	2.1
01U-1A/10-30	0.04	26400	3.9	449	0.7	0.07	30200	0.06	27.8	3.6	59	1.9
01U-1A/30-50	0.05	28500	4.2	439	0.86	0.08	33400	0.09	33.6	4.3	65.4	2.2
01U-1B/0-10	0.07	42200	6.2	480	1.3	0.12	45100	0.11	40.8	6.4	51.2	3.4
01U-1B/10-30	0.08	36200	5.4	452	1.2	0.12	31900	0.11	39	5.6	57.6	3.1
01U-1B/30-50	0.06	30800	4.1	431	0.95	0.08	28400	0.08	33.9	4.4	61.3	2.4
01U-1C/0-10	0.08	33700	5.6	472	0.95	0.1	37700	0.1	35.8	5.2	58.3	2.8
01U-1C/10-30	0.08	33300	5.3	466	1	0.1	44700	0.12	37.9	5.2	51.5	2.6
01U-1C/30-50	0.08	24800	4.4	570	0.72	0.07	54400	0.07	29.6	4	62.5	1.9
01U-1D/0-10	0.07	35900	5.9	457	1.1	0.1	38300	0.08	36.9	5.5	50.8	2.9
01U-1D/10-30	0.08	31600	5.1	455	0.96	0.09	37100	0.08	34	4.8	53.6	2.5
01U-1D/30-50	0.08	31000	4.7	436	0.9	0.09	34400	0.09	36.7	4.5	62.8	2.3
01U-1E/0-10	0.06	30400	3.9	424	0.8	0.09	32800	0.12	33.3	4.1	55.2	2.1
01U-1E/10-30	0.07	31500	4.5	434	0.86	0.09	36600	0.1	37.6	4.5	52.6	2.4
01U-1E/30-50	0.05	21400	7.2	444	0.65	0.06	94800	0.07	28.4	3.8	54.8	1.7
01U-1F/0-10	0.09	25600	4.5	420	0.72	0.09	41100	0.13	34.8	4.1	55.5	2
01U-1F/10-30	0.05	22500	4.7	440	0.59	0.06	66400	0.06	25.2	3.9	56.7	1.6
01U-1F/30-50	0.07	23400	6	612	0.66	0.05	81100	0.06	25	3.8	52.6	1.5

Table 5b-1b. ICP-MS data for the 01U-1 transect—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
01U-1A/0-10	15.2	12000	6.4	19300	17.3	18.3	11400	385	0.68	3930	< 2	10.5
01U-1A/10-30	13.9	11000	5.7	18500	15	16.9	9860	327	0.61	3450	< 2	9.2
01U-1A/30-50	16.6	13000	6.4	18500	18.2	18.6	8240	375	0.74	3600	< 2	11
01U-1B/0-10	19.8	17000	9.4	23500	21.8	28.5	14700	506	0.59	4240	2	14.8
01U-1B/10-30	23	16000	8.5	20900	20.7	25.8	11300	433	0.72	3950	2.2	13.6
01U-1B/30-50	16.6	14000	6.9	18100	17.9	19.3	7460	353	0.76	3650	< 2	11.4
01U-1C/0-10	20.8	15000	7.9	21300	19.5	23.3	12400	432	0.63	3810	2.5	12.6
01U-1C/10-30	17.4	14000	7.5	19400	21	22	11500	502	0.65	3840	2.1	12.6
01U-1C/30-50	14.6	12000	5.6	16800	15.6	17.3	8780	347	0.7	2890	2.6	10.5
01U-1D/0-10	17.3	15000	8.1	21300	19.8	24.7	13500	451	0.57	3840	2	12.9
01U-1D/10-30	23	13000	7.2	19800	18.6	21.4	12800	410	0.57	3900	2.1	11.7
01U-1D/30-50	17.7	14000	6.9	17900	19.4	19.3	9110	396	0.73	3620	2	11.4
01U-1E/0-10	15	12000	6.4	17100	18.2	17.6	9290	384	0.61	3940	< 2	10.2
01U-1E/10-30	15.7	13000	7	18100	20	19.8	8440	395	0.64	3770	1.9	11
01U-1E/30-50	12.4	11000	4.9	13200	15.3	15.4	8300	277	0.61	2500	< 2	10.3
01U-1F/0-10	14.2	12000	6	16800	19	16.8	8170	406	2	3280	3.6	10.3
01U-1F/10-30	13.6	10000	4.9	15600	13.4	16.5	10700	314	0.63	2900	< 2	10.1
01U-1F/30-50	13.8	10000	4.7	15000	13.4	18.5	15900	302	2.3	3040	2.3	11.7

Table 5b-1b. ICP-MS data for the 01U-1 transect—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
01U-1A/0-10	340	12	62.1	0.34	4.2	182	4.7	1300	0.4	1.2	25.1	11.4	25.6
01U-1A/10-30	250	10.8	59.1	0.31	3.6	162	4	1200	0.4	1.1	21.4	10	21
01U-1A/30-50	280	11.8	59	0.34	4.2	146	5	1300	0.4	1.3	26.1	11.7	28.9
01U-1B/0-10	420	14.4	76.8	0.44	6.6	254	6.1	2000	0.5	1.5	41.7	15.8	40.3
01U-1B/10-30	360	14	69.8	0.42	5.7	183	6.1	1900	0.4	1.6	37.3	15	37.3
01U-1B/30-50	270	11.8	61	0.37	4.5	133	5.2	1300	0.4	1.3	27.8	11.8	28.4
01U-1C/0-10	320	13.8	69.1	0.42	5.4	216	5.4	1900	0.4	1.4	34	14.1	34.1
01U-1C/10-30	310	13.7	65.5	0.38	5.2	206	5.6	1700	0.4	1.6	32.8	15.6	31.2
01U-1C/30-50	200	10.6	53.2	0.34	3.7	210	4.5	1300	0.3	1.2	24.5	11.4	22.3
01U-1D/0-10	340	13.4	71.3	0.41	5.5	216	5.6	1800	0.4	1.4	34.2	14.1	34.1
01U-1D/10-30	280	13.1	66.2	0.38	5	202	5.1	1700	0.4	1.4	29.8	13.5	30
01U-1D/30-50	280	12.2	61.5	0.39	4.4	157	5.6	1600	0.4	1.5	28.5	13.8	28.6
01U-1E/0-10	380	12.9	60.1	0.35	3.9	146	5	1300	0.4	1.3	25.9	12.2	27.4
01U-1E/10-30	280	12.2	61.4	0.34	4.6	144	5.6	1600	0.4	1.5	28.1	14.2	30.4
01U-1E/30-50	220	9	45.5	0.27	3.2	264	4	1100	0.3	1.3	23.3	10.8	19.5
01U-1F/0-10	310	12.1	55.4	0.35	3.9	165	5.2	1500	0.3	1.4	25.5	14.1	28.3
01U-1F/10-30	220	9.8	48.1	0.28	3.2	268	3.6	1100	0.3	1	20	10.2	20.5
01U-1F/30-50	260	9.5	46.3	0.31	3.1	498	3.7	1000	0.3	1.1	21.3	9.8	18.5

Table 5b-2a. ICP-AES data for the 04U transect.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
04U-21A/0-10	3.52	3.67	1.22	1.98	1.15	0.403	0.0396	0.113	409	13.9
04U-21B/10-30	3.18	3.2	1.05	1.92	0.952	0.386	0.0329	0.0955	354	13
04U-22A/0-10	3.64	3.54	1.31	2.03	1.12	0.359	0.0374	0.112	406	15
04U-22B/10-30	3.03	3.44	1.12	1.74	0.778	0.328	0.0294	0.102	396	14.2
04U-23A/0-10	3.91	4.12	1.4	2.13	1.28	0.41	0.0392	0.128	445	16
04U-23B/10-30	3.75	3.81	1.37	2.02	1.23	0.405	0.0398	0.126	428	17.2
04U-24A/0-10	3.62	3.99	1.26	2.04	1.24	0.419	0.0385	0.157	416	14.5
04U-24B/10-30	2.56	2.61	0.892	1.65	0.778	0.295	0.025	0.0854	304	10.4

Table 5b-2b. ICP-MS data for the 04U transect.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
04U-21A/0-10	<2	37300	5	456	1.1	0.09	39400	0.11	31.4	4.8	33.1	2.7
04U-21B/10-30	<2	33500	4.4	449	0.92	0.08	34100	0.08	28.4	4	31.6	2.2
04U-22A/0-10	<2	39100	10.7	460	1.3	0.09	38300	0.1	31.9	5.1	33.7	2.9
04U-22B/10-30	<2	33400	17.9	459	1.1	0.08	37600	0.1	31.6	4.4	27.9	2.4
04U-23A/0-10	<2	42400	5.9	491	1.4	0.14	44200	0.04	34.1	5.7	36	3.2
04U-23B/10-30	<2	40300	5.4	500	1.2	0.1	40300	0.09	34.9	5.3	36.5	3
04U-24A/0-10	<2	38900	5.1	480	1.2	0.09	42600	0.09	34.1	5.2	34.5	2.8
04U-24B/10-30	<2	28000	3.9	473	0.77	0.06	28000	0.06	23.5	3.3	33.1	1.9

Table 5b-2b. ICP-MS data for the 04U transect—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
4U-21A/0-10	14.4	12900	7.2	22000	16.7	24.4	12800	448	0.36	4290	4.4	9.9
4U-21B/10-30	15.5	11000	6.3	20900	15.1	21.2	10900	386	0.32	4100	3.4	18.1
4U-22A/0-10	14.6	13900	7.6	22500	17	27	12900	444	0.37	3900	3.9	10.9
4U-22B/10-30	12.8	11900	6.5	19700	16.7	21.4	8840	437	0.45	3640	3.6	20
4U-23A/0-10	20.2	15000	8.2	23500	17.8	28.4	14500	490	0.4	4390	4	12
4U-23B/10-30	19.4	14300	8	22000	18.5	27.1	13600	460	0.38	4340	4.2	12.5
4U-24A/0-10	16.9	13500	7.5	22200	17.5	25.1	13900	462	0.31	4500	3.7	10.9
4U-24B/10-30	11.8	9440	5.3	18300	12.4	17.9	8830	332	0.33	3210	3	7.8

Table 5b-2b. ICP-MS data for the 04U transect—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
4U-21A/0-10	420	12.7	63.2	0.39	5.2	194	3.58	1480	0.39	1.15	33.3	12.1	30.2
4U-21B/10-30	340	11.8	58.8	0.33	4.4	166	3.24	1250	0.36	1.05	27.6	10.7	24.7
4U-22A/0-10	398	12.5	64.6	0.36	5.5	200	3.8	1460	0.4	1.19	36.1	12	32.1
4U-22B/10-30	308	11.4	56.3	0.32	4.5	152	3.8	1200	0.34	1.45	30.3	11.6	27.9
4U-23A/0-10	409	13	69.5	0.41	6.1	232	4.24	1450	0.43	1.17	37.8	12.9	34.1
4U-23B/10-30	410	12.7	67.6	0.37	5.5	224	4.08	1610	0.42	1.31	36.6	13	33
4U-24A/0-10	400	11.9	66.6	0.35	5.4	222	3.79	1540	0.4	1.09	33.6	12.4	30.6
4U-24B/10-30	264	9.9	55	0.3	3.3	150	2.42	971	0.32	0.94	22.4	8.8	20.1

Table 5c-1a. ICP-AES data for auger hole 00U-38.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U-38/0-10	1.61	1.60	0.557	1.25	0.348	0.0659	0.0189	0.0410	92.0	6.89
00U-38/10-30	1.61	1.63	0.874	1.28	0.340	0.0688	0.0165	0.0455	101	7.08
00U-38/30-44	1.64	1.68	0.747	1.29	0.348	0.0694	0.0156	0.0488	99.4	6.57
00U-38/44-57	1.46	1.56	0.524	1.16	0.300	0.0650	0.0148	0.0323	78.3	4.83
00U-38/57-74	1.50	1.73	0.744	1.18	0.316	0.0686	0.0146	0.0324	94.4	5.48
00U-38/74-96	1.53	1.76	0.554	1.20	0.330	0.0765	0.0156	0.0350	87.1	5.77
00U-38/96-115	1.73	2.19	0.567	1.31	0.382	0.0944	0.0193	0.0447	101	6.66
00U-38/115-140	1.80	2.27	0.584	1.35	0.392	0.105	0.0198	0.0432	109	7.84
00U-38/140-156	1.86	2.50	1.02	1.43	0.446	0.114	0.0222	0.0728	132	8.38
00U-38/156-185	1.62	2.29	0.519	1.30	0.405	0.0962	0.0156	0.0324	86.6	5.92
00U-38/185-207	1.64	2.31	0.468	1.29	0.433	0.109	0.0161	0.0336	88.6	5.76
00U-38/207-229	1.66	2.40	0.482	1.29	0.434	0.104	0.0166	0.0307	92.8	5.77
00U-38/227-242	1.66	2.54	0.483	1.28	0.469	0.102	0.0170	0.0282	96.2	6.56

Table 5c-1b. ICP-MS data for auger hole 00U38.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)
00U-38/0-10	<2	20200	1.4	284	0.60	< 0.06	19400	0.06	15.6
00U-38/10-30	<2	20400	1.7	300	0.64	< 0.06	19700	0.04	14.7
00U-38/30-44	<2	21100	1.7	299	0.53	< 0.06	20600	0.04	14.0
00U-38/44-57	<2	14800	1.4	257	0.43	< 0.06	15000	0.03	10.6
00U-38/57-74	<2	15200	1.6	266	0.5	< 0.06	16800	0.03	11.4
00U-38/74-96	<2	15900	1.3	278	0.5	< 0.06	17400	0.03	12.2
00U-38/96-115	<2	18200	1.2	301	0.57	< 0.06	22100	0.04	13.7
00U-38/115-140	<2	18800	1.3	302	0.67	< 0.06	22400	0.04	16.2
00U-38/140-156	<2	24000	2.2	334	0.86	< 0.06	31000	0.05	17.6
00U-38/156-185	<2	16500	1.4	293	0.47	< 0.06	22200	0.03	11.2
00U-38/185-207	<2	16600	1.2	302	0.57	< 0.06	22800	0.04	11.4
00U-38/207-229	<2	16600	1.4	304	0.54	< 0.06	23300	0.04	12.3
00U-38/227-242	<2	16900	1.2	299	0.54	< 0.06	25100	0.04	13.5

Table 5c-1b. ICP-MS data for auger hole 00U38—Continued.

Sample #	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)
00U-38/0-10	1.6	28.9	1.1	10.5	5850	3.4	15600	8.9	9.7	4710
00U-38/10-30	2.0	105	1.0	19.4	9580	3.4	15600	8.3	10.0	4610
00U-38/30-44	1.9	81.7	1.1	16.6	8300	3.7	16200	7.8	10.4	4790
00U-38/44-57	1.2	37.5	0.91	6.2	4800	2.7	12100	6.2	9.3	3060
00U-38/57-74	1.5	74.3	0.95	10.7	6900	2.7	12500	6.5	9.4	3280
00U-38/74-96	1.4	40.2	0.98	6.9	5130	2.9	13000	7	9.6	3420
00U-38/96-115	1.6	32.7	1.1	6.5	5250	3.3	14400	7.7	10.6	3970
00U-38/115-140	1.7	32.5	1.2	6.8	5560	3.4	14500	9	10.8	4100
00U-38/140-156	2.6	124	1.2	16.7	11200	4.1	18100	9.9	11.4	6060
00U-38/156-185	1.4	32.7	1	6.8	4820	2.9	13600	6.6	9.8	4200
00U-38/185-207	1.3	20	1	6.1	4130	3	13600	6.6	9.7	4510
00U-38/207-229	1.5	27.5	0.98	7	4610	3	13600	6.9	9.8	4450
00U-38/227-242	1.5	26.4	1	6.4	4550	3	13800	6.7	9.9	4850

Table 5c-1b. ICP-MS data for auger hole 00U38—Continued.

Sample #	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	Rb (ppm)
00U-38/0-10	115	0.22	838	0.93	3.8	230	8.64	38.8
00U-38/10-30	132	0.85	888	0.86	8.3	201	8.23	38.0
00U-38/30-44	131	0.65	935	0.97	7.1	200	8.81	38.5
00U-38/44-57	69.8	0.43	638	0.1	3.7	145	6.33	30.9
00U-38/57-74	84.1	0.85	698	< 0.1	6	149	6.42	32.1
00U-38/74-96	79.8	0.48	792	< 0.1	4.2	160	6.26	33
00U-38/96-115	93.8	0.38	958	0.25	4.1	201	7	37.1
00U-38/115-140	102	0.37	1030	0.4	4.4	201	7.19	37.3
00U-38/140-156	172	0.95	1510	1.3	9.8	273	8.69	43.0
00U-38/156-185	79.3	0.35	951	< 0.1	3.7	158	6.67	35.5
00U-38/185-207	80.7	0.23	1090	< 0.1	3	175	6.81	35.4
00U-38/207-229	84.1	0.31	1080	0.27	3.4	172	6.81	35.2
00U-38/227-242	88.3	0.32	1010	0.1	3.4	174	6.8	35.9

Table 5c-1b. ICP-MS data for auger hole 00U38—Continued.

Sample #	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U-38/0-10	0.09	1.6	53.8	2.13	665	0.20	0.48	10.9	6.4	10.9
00U-38/10-30	0.2	1.7	59.1	2.28	709	0.18	0.49	9.4	6.7	11.4
00U-38/30-44	0.2	1.7	59.8	2.13	716	0.20	0.54	8.4	6.6	11.3
00U-38/44-57	0.1	1.1	43.9	1.76	311	0.2	0.38	7.1	4	7.9
00U-38/57-74	0.2	1.2	42.8	1.94	348	0.2	0.42	7.1	4.2	8.4
00U-38/74-96	0.1	1.3	45.9	1.9	373	0.2	0.48	7.4	4.6	10.3
00U-38/96-115	0.2	1.6	56.5	2.2	448	0.23	0.53	9.2	5.2	10.3
00U-38/115-140	0.1	1.6	57.6	2.97	514	0.23	0.53	10	5.3	10.8
00U-38/140-156	0.26	2.0	81.7	2.52	1010	0.22	0.62	11.0	8.7	14.9
00U-38/156-185	0.1	1.3	59.1	1.84	351	0.22	0.45	8.6	4.4	8.8
00U-38/185-207	0.1	1.3	61.2	1.9	347	0.22	0.42	8.3	4.2	10.2
00U-38/207-229	0.1	1.3	60	2.18	340	0.22	0.45	8.2	4.1	9.2
00U-38/227-242	0.1	1.4	62.5	1.94	313	0.22	0.45	7.7	4.4	9.6

Table 5c-2a. ICP-AES data for the 00U-39 transect.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U-39/A-0-10	1.66	1.74	0.746	1.39	0.365	0.0740	0.0152	0.0442	98.7	7.33
00U-39A/10-30	1.45	1.64	0.532	1.27	0.317	0.0695	0.0119	0.0261	79.5	5.22
00U-39A/30-50	1.67	1.76	0.616	1.31	0.377	0.0744	0.0150	0.0321	95.4	6.42
00U-39/B-0-10	1.80	1.69	0.964	1.52	0.352	0.0887	0.0173	0.0455	109	7.45
00U-39/B-10-30	1.72	1.68	0.737	1.48	0.330	0.0874	0.0149	0.0414	94.8	6.73
00U-39/B-30-50	1.92	2.27	0.681	1.62	0.358	0.103	0.0154	0.0444	99.7	7.07
00U-39/C-0-10	1.82	1.82	0.682	1.52	0.362	0.0981	0.0180	0.0437	103	7.73
00U-39C/10-30	1.72	2.20	0.544	1.44	0.347	0.0938	0.0138	0.0329	92.8	6.01
00U-39C/30-50	1.77	2.21	0.516	1.39	0.360	0.0930	0.0147	0.0395	93.5	6.89
00U-39/D-0-10	1.72	1.64	0.729	1.52	0.338	0.0842	0.0168	0.0417	101	7.07
00U-39D/10-30	1.70	2.06	0.578	1.38	0.334	0.0914	0.0171	0.0461	98.0	7.94
00U-39D/30-50	1.68	2.01	0.522	1.36	0.333	0.0907	0.0158	0.0359	95.4	7.11
00U-39-E-0-10	1.87	1.82	0.659	1.54	0.391	0.0980	0.0228	0.0482	118	7.90
00U-39E/10-30	1.85	2.17	0.656	1.41	0.370	0.0976	0.0188	0.0510	118	6.82
00U-39E/30-50	1.76	2.18	0.625	1.37	0.363	0.0910	0.0163	0.0465	110	6.99
00U-39/F-0-10	1.77	1.76	0.692	1.46	0.379	0.0842	0.0219	0.0500	113	7.95
00U-39/F-10-30	1.78	1.78	0.663	1.46	0.371	0.0855	0.0206	0.0534	113	7.73
00U-39/F-30-50	2.22	2.42	0.826	1.66	0.462	0.129	0.0247	0.0810	158	9.74
00U-39/G-0-10	1.89	1.84	0.727	1.51	0.389	0.0959	0.0256	0.0611	129	7.83
00U-39G/10-30	2.07	2.35	0.654	1.49	0.404	0.129	0.0236	0.0626	141	9.21
00U-39G/30-50	2.08	2.46	0.610	1.50	0.407	0.128	0.0212	0.0614	135	9.74
00U-39-H-0-10	1.80	1.79	0.679	1.49	0.380	0.103	0.0276	0.0542	123	7.81
00U-39H/10-30	2.14	2.22	0.744	1.53	0.410	0.133	0.0255	0.0735	156	9.60
00U-39H/30-50	2.23	2.84	0.666	1.57	0.416	0.144	0.0215	0.0651	145	8.06
00U-39/I-1-10	2.09	1.93	0.728	1.61	0.420	0.129	0.0312	0.0663	149	9.58
00U-39I/10-30	2.53	2.81	0.828	1.73	0.460	0.164	0.0256	0.0820	181	10.1
00U-39I/30-50	2.41	3.18	0.792	1.64	0.428	0.147	0.0180	0.0779	155	9.45
00U-39/J-0-10	2.00	1.79	0.753	1.60	0.372	0.118	0.0297	0.0662	133	9.68
00U-39J/10-30	2.21	2.46	0.821	1.61	0.411	0.150	0.0242	0.0731	159	9.80
00U-39J/30-50	2.13	2.62	0.713	1.59	0.417	0.148	0.0210	0.0688	154	9.54
00U-39/K-0-10	2.40	2.20	0.887	1.74	0.478	0.164	0.0361	0.0908	182	12.9
00U-39/K-10-30	2.74	3.10	0.970	1.86	0.519	0.193	0.0286	0.109	208	13.5
00U-39/K-30-50	2.77	3.55	0.952	1.87	0.537	0.192	0.0275	0.109	193	14.9
00U-39/L-0-10	2.34	2.15	0.844	1.78	0.436	0.161	0.0350	0.0852	164	12.0
00U-39L/10-30	2.38	2.79	0.766	1.64	0.454	0.167	0.0246	0.0786	178	9.49
00U-39L/30-50	2.44	3.26	0.809	1.65	0.430	0.172	0.0173	0.0759	160	9.60
00U-39/M-0-10	2.80	2.95	0.998	1.88	0.553	0.192	0.0388	0.110	212	15.4
00U-39M/10-30	2.17	2.96	0.766	1.64	0.399	0.163	0.0188	0.0754	148	9.00
00U-39M/30-50	2.05	3.09	0.740	1.56	0.381	0.139	0.0177	0.0677	123	8.15
00U-39/N-0-10	2.75	3.22	0.846	1.94	0.772	0.151	0.0343	0.0898	171	12.7
00U-39/N-10-30	2.69	3.35	0.888	1.91	0.727	0.171	0.0294	0.0990	181	14.2
00U-39/N-30-50	2.89	3.80	1.00	1.88	0.592	0.208	0.0329	0.116	224	16.0
00U-39/O-0-10	2.76	3.51	0.878	1.90	0.887	0.132	0.0283	0.0885	172	12.3
00U-39O/10-30	2.39	3.41	0.731	1.71	0.870	0.125	0.0203	0.0606	162	8.29
00U-39O/30-50	2.93	3.12	1.05	1.78	0.589	0.185	0.0275	0.105	218	11.2

Table 5c-2b. ICP-MS data for the 00U-39 transect.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)
00U-39/A-0-10	< 2	21500	1.6	328	0.55	< 0.06	21300	0.04	15.2	1.8	71.5	1.1	22.0
00U-39A/10-30	<2	14800	1.2	293	0.47	< 0.06	16100	0.04	10.9	1.2	38.3	0.92	5.9
00U-39A/30-50	<2	16900	1.5	301	0.52	< 0.06	17400	0.04	11.9	1.5	37.8	1.1	5.9
00U-39/B-0-10	< 2	23300	1.6	368	0.62	< 0.06	20900	0.04	16.1	2.0	114	1.2	17.6
00U-39/B-10-30	< 2	22100	1.5	360	0.51	< 0.06	20600	0.03	14.6	1.7	77.3	1.1	12.6
00U-39/B-30-50	< 2	24700	1.6	386	0.74	< 0.06	27900	0.04	16.1	2.0	59.3	1.2	11.8
00U-39/C-0-10	< 2	23800	1.3	358	0.56	< 0.06	22300	0.05	16.0	1.8	63.3	1.2	13.0
00U-39C/10-30	<2	17500	1.2	323	0.5	< 0.06	21200	0.04	12.8	1.6	36.3	1.1	6.7
00U-39C/30-50	<2	18100	1.6	317	0.55	< 0.06	21900	0.04	13.5	1.5	26	1.1	5.2
00U-39/D-0-10	< 2	22400	1.2	357	0.52	< 0.06	20200	0.06	14.7	1.8	71.1	1.1	11.4
00U-39D/10-30	<2	17500	1.5	311	0.5	< 0.06	20000	0.04	12.8	1.5	37.2	1.1	6.7
00U-39D/30-50	<2	17400	1.2	314	0.53	< 0.06	19600	0.04	12.7	1.4	29	1.1	5.8
00U-39-E-0-10	< 2	24400	1.3	364	0.70	< 0.06	22300	0.06	17.2	1.9	59.1	1.2	15.0
00U-39E/10-30	<2	18800	1.8	321	0.65	< 0.06	21300	0.05	15.5	1.7	41.8	1.2	7.7
00U-39E/30-50	<2	17900	1.7	313	0.53	< 0.06	21400	0.04	14.8	1.6	43	1.1	7.1
00U-39/F-0-10	< 2	23300	1.6	351	0.51	< 0.06	22200	0.06	17.5	1.8	64.4	1.2	15.0
00U-39/F-10-30	< 2	23200	1.6	345	0.63	< 0.06	22200	0.05	17.3	1.8	58.6	1.2	12.4
00U-39/F-30-50	< 2	29400	2.3	386	0.91	< 0.06	30500	0.07	21.6	2.6	65.5	1.6	15.0
00U-39/G-0-10	< 2	24400	1.6	353	0.68	< 0.06	22800	0.07	17.1	2.0	63.2	1.2	11.7
00U-39G/10-30	<2	21300	1.8	331	0.65	< 0.06	22900	0.05	17.6	1.9	28.4	1.4	7
00U-39G/30-50	<2	21200	1.6	340	0.68	< 0.06	24500	0.06	17.1	1.9	23.6	1.4	6.6
00U-39-H-0-10	< 2	23100	1.5	352	0.49	< 0.06	22000	0.06	16.8	1.9	61.2	1.2	11.2
00U-39H/10-30	<2	22300	2	344	0.72	< 0.06	22100	0.07	18.1	2.1	39.1	1.5	8.6
00U-39H/30-50	<2	23300	2.1	356	0.84	< 0.06	27900	0.06	18.2	2.1	25.2	1.6	7.4
00U-39/I-1-10	< 2	26800	1.7	374	0.71	< 0.06	24100	0.08	21.2	2.2	52.8	1.4	17.4
00U-39I/10-30	<2	25900	2.6	358	0.86	< 0.06	29600	0.08	25.4	2.6	16.7	1.8	8.7
00U-39I/30-50	<2	25500	2.8	361	0.77	< 0.06	34600	0.07	21.8	2.6	21.1	1.7	8.4
00U-39/J-0-10	< 2	21300	1.6	348	0.47	< 0.06	18600	0.07	17.3	1.8	53.8	1.3	13.6
00U-39J/10-30	<2	23200	2.4	349	0.85	< 0.06	26500	0.07	21.7	2.3	22.6	1.6	14
00U-39J/30-50	<2	23200	2.2	356	0.82	< 0.06	28800	0.06	22.1	2.2	15.1	1.5	10.3
00U-39/K-0-10	< 2	26800	1.9	383	0.92	< 0.06	23600	0.08	23.8	2.4	52.7	1.7	10.6
00U-39/K-10-30	< 2	29500	2.4	393	0.75	< 0.06	32300	0.08	26.3	2.8	47.4	2.0	14.8
00U-39/K-30-50	< 2	30500	2.5	404	1.1	< 0.06	38000	0.07	27.1	2.9	44.3	2.0	15.9
00U-39/L-0-10	< 2	25400	1.7	369	0.96	< 0.06	22500	0.08	22.6	2.2	54.1	1.5	9.2
00U-39L/10-30	<2	25100	2.6	358	0.91	< 0.06	30600	0.08	21.4	2.4	20.3	1.7	7.7
00U-39L/30-50	<2	26400	2.8	367	0.86	< 0.06	36100	0.07	23.8	2.6	20.2	1.8	8.4
00U-39/M-0-10	< 2	32000	2.6	408	0.93	< 0.06	32500	0.10	28.8	3.0	44.0	2.1	14.3
00U-39M/10-30	<2	23800	2.6	357	0.76	< 0.06	32000	0.06	25.4	2.4	19.8	1.6	7.7
00U-39M/30-50	<2	10600	2.2	86.9	0.57	< 0.06	33800	0.06	19.2	2.1	23.2	1	5.9
00U-39/N-0-10	< 2	30600	2.2	379	0.90	< 0.06	34300	0.09	22.9	2.5	46.6	1.8	11.6
00U-39/N-10-30	< 2	30600	2.4	382	1.1	< 0.06	36500	0.07	26.0	2.7	49.0	1.8	9.9
00U-39/N-30-50	< 2	33400	2.5	412	0.99	< 0.06	42100	0.10	29.4	3.2	41.5	2.2	17.0
00U-39/O-0-10	< 2	31500	2.2	373	1.1	< 0.06	38400	0.06	24.4	2.7	51.9	1.8	9.3
00U-39O/10-30	<2	11000	1.9	58.6	0.77	< 0.06	36500	0.06	17.7	2.3	24.1	1.1	4.4
00U-39O/30-50	<2	31200	3.4	364	1.1	< 0.06	33900	0.09	28	3.3	34.8	2.1	10.8

Table 5c-2b. ICP-MS data for the 00U-39 transect—Continued.

Sample #	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	Rb (ppm)
00U-39/A-0-10	8180	3.4	17400	8.6	8.7	4920	126	0.54	989	0.93	6.0	189	9.83	44.0
00U-39A/10-30	5010	2.6	13400	6.3	7.5	3310	72.3	0.43	699	< 0.1	3.6	129	7.85	37.3
00U-39A/30-50	5560	2.9	14200	6.8	9	3940	86.3	0.45	774	< 0.1	3.9	148	8.05	39.3
00U-39/B-0-10	10500	3.7	19400	9.2	9.0	4790	141	0.87	1180	0.77	8.7	214	11.5	50.1
00U-39/B-10-30	8140	3.6	18800	8.3	9.0	4530	125	0.57	1160	1.0	6.3	184	10.3	48.5
00U-39/B-30-50	7600	4.0	20300	9.0	9.3	4900	132	0.49	1360	0.90	5.6	188	11.1	53.2
00U-39/C-0-10	7730	3.8	19300	9.1	9.3	4980	136	0.49	1330	1.2	5.9	225	10.8	48.6
00U-39C/10-30	4990	3	15100	7.4	8.9	3590	84.2	0.39	934	0.2	3.8	138	8.14	40.6
00U-39C/30-50	4720	3.2	15100	7.7	9.5	3710	86	0.28	941	0.2	3.5	150	7.91	41
00U-39/D-0-10	8110	3.6	19400	8.3	8.9	4700	132	0.55	1140	0.97	6.1	216	10.8	49.1
00U-39D/10-30	5410	3.2	14600	7.4	9.8	3490	89.8	0.41	920	0.2	4.2	166	7.62	39.4
00U-39D/30-50	4970	3.1	14600	7.4	9.5	3480	87.3	0.3	908	0.2	3.6	163	7.76	39.2
00U-39-E-0-10	7420	3.8	19700	9.9	10.1	5400	156	0.47	1320	1.2	6.0	281	10.9	48.5
00U-39E/10-30	6140	3.4	15100	9	10.6	3790	106	0.48	986	0.64	4.8	192	7.91	41.1
00U-39E/30-50	5770	3.2	14700	8.4	9.8	3730	98.3	0.5	930	0.32	4.7	163	7.87	39.9
00U-39/F-0-10	7790	3.8	19100	9.7	10.0	5320	149	0.49	1150	1.0	6.1	283	10.2	46.8
00U-39/F-10-30	7460	3.8	19000	9.8	10.3	5130	150	0.47	1180	0.88	5.8	257	9.75	46.4
00U-39/F-30-50	9440	5.1	21600	12.4	12.7	6410	213	0.52	1800	1.7	7.4	308	10.6	53.5
00U-39/G-0-10	8100	4.1	19200	9.7	11.2	5280	170	0.50	1270	1.3	6.6	328	9.89	46.3
00U-39G/10-30	6120	3.9	15900	10	11.9	4150	130	0.35	1290	0.74	4.6	234	8.07	43
00U-39G/30-50	5720	3.9	16000	9.8	12.1	4240	124	0.28	1270	0.74	4.2	215	8.12	42.6
00U-39-H-0-10	7640	3.9	19400	9.6	10.8	5280	162	0.52	1380	1.3	6.0	355	10.1	44.7
00U-39H/10-30	7090	4.1	16500	10.2	12.9	4250	146	0.45	1340	0.79	5.6	265	8.52	44
00U-39H/30-50	6510	4.3	16900	10.4	13.4	4360	137	0.31	1470	0.6	4.8	218	8.5	44.8
00U-39/I-1-10	8280	4.5	20900	11.9	12.4	5840	200	0.41	1760	1.5	6.7	394	11.2	49.0
00U-39I/10-30	8520	5.1	17600	13.3	14.6	5140	189	0.32	1620	0.96	6.2	277	8.92	49.3
00U-39I/30-50	8160	4.8	17300	11.9	13.8	4720	160	0.26	1530	0.99	5.8	183	8.86	47.6
00U-39/J-0-10	7550	3.8	17400	9.6	11.9	4100	141	0.50	1310	2.1	5.8	318	9.94	44.6
00U-39J/10-30	8450	4.6	16900	11.4	12.6	4540	168	0.44	1550	0.65	6	258	8.58	46.5
00U-39J/30-50	7330	4.5	17100	11.7	12.1	4600	158	0.25	1580	0.48	4.9	212	8.63	46.4
00U-39/K-0-10	9160	4.8	19100	13.4	14.9	5420	194	0.53	1840	3.1	6.9	404	11.1	49.7
00U-39/K-10-30	9860	5.3	19800	14.7	16.5	5800	216	0.46	2130	3.5	7.7	313	10.7	52.1
00U-39/K-30-50	9830	5.5	20300	14.7	16.9	6080	208	0.42	2140	3.5	7.4	305	11.0	53.4
00U-39/L-0-10	8540	4.3	18800	12.6	14.0	4830	174	0.48	1770	2.8	6.5	394	10.6	47.6
00U-39L/10-30	7750	4.8	17300	11.5	13.8	5080	184	0.23	1800	0.69	5.6	260	8.75	47.1
00U-39L/30-50	8490	5.2	17900	12.8	14.3	4850	167	0.28	1880	0.96	6	201	8.99	48.9
00U-39/M-0-10	10400	5.6	20800	16.1	16.9	6330	229	0.42	2220	3.7	7.7	444	12.0	55.5
00U-39M/10-30	7900	4.7	17300	13.2	12.7	4610	147	0.32	1760	0.62	5.4	196	9.09	48.1
00U-39M/30-50	6730	2.8	4330	10.2	6.3	4310	116	0.23	156	< 0.1	5.2	162	3.4	14.8
00U-39/N-0-10	8820	5.2	21100	12.7	15.5	8770	185	0.42	1690	3.0	6.9	388	10.8	51.7
00U-39/N-10-30	9310	5.2	21200	14.4	15.6	8360	196	0.39	1960	3.1	7.2	328	10.1	50.2
00U-39/N-30-50	10600	5.8	21100	16.4	17.8	6960	243	0.39	2450	3.7	8.2	384	10.9	55.2
00U-39/O-0-10	9320	5.3	21200	13.4	15.1	10400	188	0.45	1520	2.7	7.3	329	10.3	51.0
00U-39O/10-30	6310	3	4040	9.3	6.8	9900	162	0.2	80.6	< 0.1	5.3	205	3.2	12.8
00U-39O/30-50	10900	6.1	19300	14.9	16.8	6740	225	0.49	2000	1.1	8.2	298	9.4	51.9

Table 5c-2b. ICP-MS data for the 00U-39 transect—Continued.

Sample #	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U-39/A-0-10	0.1	1.7	57.5	2.48	675	0.23	0.52	11.0	6.7	13.6
00U-39A/10-30	0.1	1.1	41	1.97	276	0.23	0.38	7.2	3.7	7.7
00U-39A/30-50	0.1	1.3	43.4	2.06	332	0.25	0.44	8.9	4.1	8.8
00U-39/B-0-10	0.2	1.7	62.5	2.49	719	0.26	0.54	10.4	7.1	11.5
00U-39/B-10-30	0.1	1.6	62.7	2.28	648	0.24	0.51	10.2	6.5	9.6
00U-39/B-30-50	0.1	1.8	75.3	2.53	720	0.27	0.55	11.9	7.0	10.8
00U-39/C-0-10	0.1	1.8	64.5	2.43	775	0.25	0.56	11.1	7.0	13.0
00U-39C/10-30	0.1	1.3	52.3	2.21	340	0.25	0.45	8.4	4.4	8.7
00U-39C/30-50	0.1	1.4	54.6	2.36	431	0.25	0.51	9	5.3	9.5
00U-39/D-0-10	0.1	1.6	59.6	2.26	657	0.24	0.51	10.1	6.8	10.1
00U-39D/10-30	0.1	1.5	49.3	2.15	470	0.24	0.51	8.9	5.4	9.3
00U-39D/30-50	0.1	1.4	49.4	2.23	362	0.24	0.47	9.2	4.6	10.7
00U-39-E-0-10	0.1	2.0	64.0	2.49	810	0.24	0.55	10.3	7.8	13.9
00U-39E/10-30	0.2	1.6	52.8	2.56	530	0.25	0.63	10.1	5.9	11.5
00U-39E/30-50	0.2	1.5	50.5	2.54	555	0.25	0.58	9	5.7	10.6
00U-39/F-0-10	0.1	1.8	60.7	2.57	780	0.24	0.56	10.4	7.6	14.9
00U-39/F-10-30	0.1	1.9	62.0	2.50	806	0.23	0.56	10.2	7.9	12.9
00U-39/F-30-50	0.20	2.7	80.4	3.08	1250	0.26	0.68	15.4	10.4	17.3
00U-39/G-0-10	0.1	2.0	64.9	2.41	901	0.22	0.54	11.1	8.0	14.3
00U-39G/10-30	0.2	2	58.9	2.86	658	0.26	1.17	12.5	6.8	13.1
00U-39G/30-50	0.2	2.1	61.6	2.92	684	0.26	0.69	12	7.1	13.2
00U-39-H-0-10	0.2	2.0	64.3	2.35	860	0.22	0.57	10.4	7.8	14.8
00U-39H/10-30	0.2	2.2	60.4	3.03	769	0.28	0.71	13.1	7.8	15
00U-39H/30-50	0.2	2.4	70.5	3.09	744	0.28	0.72	14.8	7.5	14.7
00U-39/I-1-10	0.2	2.5	73.4	2.98	1100	0.24	0.67	14.0	9.5	19.9
00U-39I/10-30	0.22	2.9	78.5	3.79	789	0.3	0.81	17.7	8.8	19.4
00U-39I/30-50	0.2	2.9	86.4	3.41	743	0.3	0.72	17.8	8.2	18.3
00U-39/J-0-10	0.21	1.9	60.5	2.40	929	0.25	0.64	11.2	8.3	14.4
00U-39J/10-30	0.2	2.6	73.1	3.47	695	0.28	0.73	15.8	8	18
00U-39J/30-50	0.2	2.4	75.4	3.44	684	0.29	0.71	15.7	7.8	16.1
00U-39/K-0-10	0.26	2.6	73.9	3.58	1340	0.29	0.90	16.4	11.3	17.8
00U-39/K-10-30	0.27	3.2	88.8	4.06	1500	0.29	0.96	19.0	12.2	20.1
00U-39/K-30-50	0.26	3.1	101	4.09	1450	0.30	0.96	20.2	12.0	20.9
00U-39/L-0-10	0.22	2.4	69.6	3.48	1220	0.26	0.80	14.0	10.0	16.0
00U-39L/10-30	0.2	2.7	80.2	3.38	751	0.3	0.69	16	8	18.4
00U-39L/30-50	0.2	2.9	92.9	3.84	817	0.31	0.8	18.8	8.4	17.9
00U-39/M-0-10	0.28	3.4	90.5	4.38	1580	0.32	1.02	21.7	12.8	22.5
00U-39M/10-30	0.2	2.6	82.6	3.97	733	0.3	0.79	17.4	8.1	16.2
00U-39M/30-50	0.09	3.5	59.3	2.9	197	0.1	0.4	13.1	5.5	13.1
00U-39/N-0-10	0.24	2.8	92.4	3.30	1250	0.28	0.80	15.8	10.7	17.7
00U-39/N-10-30	0.25	2.9	95.7	3.98	1380	0.28	0.92	17.5	11.8	17.4
00U-39/N-30-50	0.29	3.6	107	4.33	1650	0.31	1.04	22.4	13.6	23.7
00U-39/O-0-10	0.20	2.9	92.8	3.64	1280	0.28	0.82	16.2	10.8	18.1
00U-39O/10-30	0.06	3.3	57.4	2.9	171	<0.08	0.36	11.1	5.4	14.6
00U-39O/30-50	0.22	3.6	94.2	4.38	1000	0.32	0.9	22.6	10.3	25.6

Table 5c-3a. ICP-AES data for auger hole 00U-40.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U-40/0-10	3.98	4.42	1.26	2.26	0.992	0.203	0.0426	0.149	253	17.2
00U-40/10-30	4.28	5.10	1.29	2.42	0.998	0.217	0.0372	0.144	240	17.3
00U-40/30-48	3.78	4.55	1.16	2.20	0.920	0.207	0.0339	0.130	220	17.0
00U-40/48-64	3.27	4.06	0.990	1.92	0.879	0.188	0.0276	0.101	190	10.2
00U-40/64-82	3.92	4.96	1.20	2.15	1.13	0.270	0.0318	0.133	228	13.3
00U-40/82-102	4.31	5.62	1.40	2.22	1.27	0.284	0.0393	0.163	237	18.4
00U-40/102-121	3.49	3.42	1.19	2.09	0.899	0.299	0.0391	0.144	247	17.2
00U-40/121-142	2.26	2.01	0.865	1.59	0.439	0.184	0.0189	0.0830	166	8.81
00U-40/142-154	2.14	2.03	0.748	1.54	0.398	0.164	0.0171	0.0691	130	7.50
00U-40/154-168	1.96	2.62	0.677	1.50	0.391	0.147	0.0160	0.0567	108	7.14
00U-40/168-183	1.62	2.49	0.545	1.38	0.312	0.112	0.0118	0.0408	77.6	6.36
00U-40/183-193	1.81	3.54	0.633	1.39	0.413	0.133	0.0140	0.0478	91.5	5.93
00U-40/192-204	1.60	12.3	0.548	1.16	0.670	0.171	0.0130	0.0389	77.2	5.06
00U-40/204-217	1.62	9.36	0.500	1.24	0.863	0.200	0.00897	0.0330	96.1	5.62

Table 5c-3b. ICP-MS data for auger hole 00U-40.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)
00U-40/0-10	<2	45800	3.5	407	1.6	< 0.06	49000	0.10	34.4
00U-40/10-30	<2	49500	4.1	441	1.7	< 0.06	56700	0.10	35.1
00U-40/30-48	<2	43000	3.3	420	1.3	< 0.06	49400	0.07	32.4
00U-40/48-64	<2	35500	3.7	379	1.3	< 0.06	45900	0.07	27.2
00U-40/64-82	<2	41100	4.1	386	1.6	< 0.06	54400	0.08	33.2
00U-40/82-102	<2	50100	4.5	434	1.7	< 0.06	62300	0.08	36.8
00U-40/102-121	<2	40100	3.4	437	1.4	< 0.06	37500	0.08	34.5
00U-40/121-142	<2	24800	2.4	353	0.8	< 0.06	21900	0.06	21.6
00U-40/142-154	<2	23400	2.3	338	0.85	< 0.06	22100	0.06	18.4
00U-40/154-168	<2	21600	2.2	336	0.66	< 0.06	28600	0.05	17.4
00U-40/168-183	<2	17500	1.6	320	0.45	< 0.06	27100	0.04	14.3
00U-40/183-193	<2	19900	2.9	323	0.64	< 0.06	39100	0.04	16.6
00U-40/192-204	<2	17000	3.3	345	0.49	< 0.06	141000	0.06	15.4
00U-40/204-217	<2	16900	2.3	361	0.56	< 0.06	104000	0.03	13.2

Table 5c-3b. ICP-MS data for auger hole 00U-40—Continued.

Sample #	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)
00U-40/0-10	4.1	61.4	2.9	13.0	13900	7.9	25400	19.1	23.1	11600
00U-40/10-30	4.5	62.7	3.0	13.6	14800	8.6	27300	19.7	25.1	12100
00U-40/30-48	3.8	49.9	2.6	16.6	12200	7.5	24400	18.0	21.7	10600
00U-40/48-64	3.4	18.5	2.2	10.4	10400	6.8	21400	14.3	18.8	10000
00U-40/64-82	4.2	30.8	2.6	12.8	12700	8	23100	17.3	22.3	12700
00U-40/82-102	4.8	61.5	3.2	12.7	15700	8.9	25100	20.2	26.8	14800
00U-40/102-121	3.9	51.5	2.5	9.3	12500	7.1	23900	19.2	21.4	10500
00U-40/121-142	2.5	25.7	1.7	8.5	8760	4.8	17400	11.4	13.4	5000
00U-40/142-154	2.2	16.5	1.6	6.9	7440	4.4	16700	9.8	11.8	4510
00U-40/154-168	2	20.8	1.4	6.6	7090	4.1	16300	9.3	11	4490
00U-40/168-183	1.5	23.5	1.1	5.1	5430	3.2	14900	7.7	8.8	3580
00U-40/183-193	1.9	19.8	1.3	7.6	6670	3.7	15300	8	10.3	4820
00U-40/192-204	2	10.4	1	5.6	5440	3.3	12000	8.4	8.8	7360
00U-40/204-217	1.9	15.4	0.81	5.5	4910	3.1	12900	7.2	7.6	9390

Table 5c-3b. ICP-MS data for auger hole 00U-40—Continued.

Sample #	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)
00U-40/0-10	283	0.51	2370	5.1	11.5	490	11.6	60.5	0.32	4.5
00U-40/10-30	280	0.50	2560	5.2	12.6	444	11.9	64.0	0.33	4.8
00U-40/30-48	239	0.40	2400	4.3	10.3	396	11.0	58.2	0.30	4.3
00U-40/48-64	204	0.33	2060	1.4	8.1	299	10.1	53.4	0.2	3.8
00U-40/64-82	244	0.36	2890	1.1	10	347	9.81	57.6	0.24	4.7
00U-40/82-102	266	0.54	3310	5.8	13.2	454	11.5	61.4	0.34	5.1
00U-40/102-121	267	0.49	3540	3.6	9.9	459	11.6	58.9	0.31	4.2
00U-40/121-142	171	0.44	2030	0.93	6.6	202	9.18	48.5	0.2	2.8
00U-40/142-154	126	0.24	1850	0.65	5.4	177	8.71	46.8	0.1	2.5
00U-40/154-168	108	0.3	1640	0.42	5.1	174	8.51	45.3	0.2	2.2
00U-40/168-183	74.4	0.24	1260	0.1	3.5	133	8.16	41.2	0.1	1.6
00U-40/183-193	102	0.31	1490	0.28	5	151	8.96	41.8	0.1	2
00U-40/192-204	79.6	0.2	1730	0.34	1.9	151	6.1	31.1	0.1	2
00U-40/204-217	93	0.2	2040	< 0.1	2.3	93.5	5.99	31.4	0.1	1.8

Table 5c-3b. ICP-MS data for auger hole 00U-40—Continued.

Sample #	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U-40/0-10	128	4.88	2080	0.34	1.11	26.3	15.1	27.5
00U-40/10-30	158	5.06	2220	0.36	1.20	29.1	15.9	30.3
00U-40/30-48	145	4.70	1880	0.31	1.08	25.5	14.1	26.3
00U-40/48-64	138	4.12	1020	0.32	0.86	22.7	9.7	24.5
00U-40/64-82	178	5.02	1290	0.35	1.1	29.6	11.9	29.3
00U-40/82-102	184	5.41	2310	0.36	1.33	34.4	16.0	33.0
00U-40/102-121	122	5.34	2030	0.33	1.34	28.1	15.2	26.2
00U-40/121-142	75.7	3.88	778	0.3	0.84	17.8	8	18
00U-40/142-154	75.4	2.9	647	0.3	0.65	15.6	6.4	15.7
00U-40/154-168	80.7	2.99	564	0.28	0.62	14.8	6.1	13.9
00U-40/168-183	67.7	2.31	385	0.26	0.54	11.2	4.7	12
00U-40/183-193	94	2.35	506	0.26	0.59	15	5.4	15.8
00U-40/192-204	218	2.48	443	0.19	0.62	15.3	5.5	10.2
00U-40/204-217	239	1.99	356	0.19	0.52	12.4	4.8	8.1

Table 5d-1a. ICP-AES data for the 00U-35 transect.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U-35A/0-10	1.66	2.72	0.689	0.982	0.277	0.120	0.0238	0.0600	131	7.64
00U-35A/10-30	1.55	2.95	0.715	0.931	0.254	0.116	0.0165	0.0558	117	7.05
00U-35A/30-50	1.55	3.12	0.693	0.934	0.261	0.117	0.0173	0.0552	116	7.81
00U-35B/0-10	1.32	1.40	0.631	0.871	0.188	0.100	0.0200	0.0472	107	5.24
00U-35B/10-30	1.64	2.16	0.656	0.973	0.252	0.119	0.0164	0.0602	122	7.72
00U-35B/30-50	1.64	2.52	0.660	0.982	0.236	0.116	0.0140	0.0590	106	7.14
00U-35C/0-10	1.54	1.89	0.757	0.973	0.253	0.115	0.0264	0.0590	138	7.92
00U-35C/10-30	1.72	2.24	0.766	1.04	0.279	0.134	0.0185	0.0644	138	8.02
00U-35C/30-50	1.72	2.52	0.832	1.05	0.273	0.136	0.0174	0.0656	126	8.08
00U-35D/0-10	1.65	1.75	0.831	1.05	0.269	0.129	0.0328	0.0659	152	7.68
00U-35D/10-30	2.01	2.22	0.859	1.22	0.330	0.162	0.0222	0.0812	172	9.79
00U-35D/30-50	1.93	2.43	0.803	1.14	0.318	0.149	0.0203	0.0754	158	9.88
00U-35E/0-10	2.43	2.14	0.957	1.43	0.436	0.191	0.0443	0.0942	230	11.9
00U-35E/10-30	2.43	2.75	0.969	1.42	0.419	0.195	0.0269	0.0897	216	11.4
00U-35E/30-50	2.07	3.18	0.764	1.22	0.324	0.161	0.0207	0.0710	141	9.57
00U-35F/0-10	3.52	2.88	1.32	1.86	0.672	0.278	0.0575	0.128	370	16.2
00U-35F/10-30	3.48	3.41	1.32	1.85	0.612	0.275	0.0322	0.127	316	15.5
00U-35F/30-50	3.25	3.14	1.28	1.68	0.563	0.247	0.0280	0.116	271	14.0
00U-35G/0-10	3.03	2.30	1.13	1.72	0.567	0.234	0.0548	0.115	317	13.3
00U-35G/10-30	3.12	2.85	1.21	1.71	0.550	0.246	0.0311	0.123	291	13.9
00U-35G/30-50	2.95	2.94	1.09	1.62	0.478	0.221	0.0254	0.106	220	12.5
00U-35H/0-10	4.20	2.89	1.48	2.04	0.846	0.318	0.0927	0.155	490	18.1
00U-35H/10-30	4.74	3.94	1.62	2.15	0.845	0.326	0.0543	0.168	446	19.0
00U-35H/30-50	4.52	3.17	1.55	1.98	0.732	0.291	0.0436	0.160	358	17.9

Table 5d-1b. ICP-MS data for the 00U-35 transect.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)
00U-35A/0-10	<2	17200	3.8	252	0.54	0.04	29900	0.08
00U-35A/10-30	<2	16100	4.1	247	0.54	0.03	32100	0.06
00U-35A/30-50	<2	15700	3.8	251	0.52	0.02	33900	0.06
00U-35B/0-10	<2	12600	3	217	0.42	0.03	14800	0.08
00U-35B/10-30	<2	16100	3.8	235	0.53	0.02	23100	0.06
00U-35B/30-50	<2	15800	3.6	240	0.59	0.02	26700	0.03
00U-35C/0-10	<2	15200	3.6	226	0.5	0.03	20200	0.08
00U-35C/10-30	<2	17000	4.2	251	0.54	0.02	24200	0.06
00U-35C/30-50	<2	16900	4.2	257	0.63	0.02	26800	0.06
00U-35D/0-10	<2	16100	3.4	249	0.53	0.04	18500	0.1
00U-35D/10-30	<2	19800	3.9	284	0.7	0.03	23000	0.08
00U-35D/30-50	<2	19300	3.8	280	0.69	0.04	26300	0.08
00U-35E/0-10	<2	23800	3.5	326	0.84	0.06	22400	0.14
00U-35E/10-30	<2	24000	3.9	332	0.87	0.05	29100	0.1
00U-35E/30-50	<2	20100	4.4	302	0.76	0.03	32600	0.08
00U-35F/0-10	<2	35100	4.4	399	1.2	0.17	29000	0.2
00U-35F/10-30	<2	34500	4.9	402	1.2	0.12	33600	0.14
00U-35F/30-50	<2	32700	5	386	1.1	0.11	31800	0.11
00U-35G/0-10	<2	29700	3.4	366	0.92	0.1	22400	0.18
00U-35G/10-30	<2	30800	3.9	379	1	0.1	28100	0.12
00U-35G/30-50	<2	29900	3.8	365	0.98	0.09	29700	0.09
00U-35H/0-10	<2	42900	4.5	438	1.4	0.15	29300	0.31
00U-35H/10-30	<2	47000	5.3	444	1.4	0.13	39300	0.22
00U-35H/30-50	<2	46000	5.2	428	1.4	0.13	31800	0.17

Table 5d-1b. ICP-MS data for the 00U-35 transect—Continued.

Sample #	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)
00U-35A/0-10	20.4	2.5	50.7	1.2	10.6	7400	3.8	10900
00U-35A/10-30	18.7	2.4	62	1.1	11.4	7600	3.5	10200
00U-35A/30-50	18.1	2.6	59.9	1.1	10.9	7500	3.6	10500
00U-35B/0-10	15	1.8	61.1	0.92	9.9	6700	2.9	9610
00U-35B/10-30	20	2.3	44.3	1.2	9.1	7100	3.7	10700
00U-35B/30-50	17.4	2.3	44.6	1.2	9	7000	3.6	10600
00U-35C/0-10	19.2	2.4	66.2	1.1	11	8100	3.4	10600
00U-35C/10-30	20.3	2.6	58.6	1.3	10.7	8400	3.9	11600
00U-35C/30-50	19.3	2.6	70.8	1.3	12.1	8900	3.8	11400
00U-35D/0-10	20.8	2.4	74.9	1.2	13	9000	3.7	11600
00U-35D/10-30	24.3	2.8	60.1	1.5	12.6	9400	4.5	13100
00U-35D/30-50	23.3	2.8	51.8	1.5	11.2	8700	4.3	12700
00U-35E/0-10	29.9	3.3	47.7	1.9	12.2	10000	5.4	15700
00U-35E/10-30	28.5	3.4	50.2	1.9	12.5	11000	5.5	15600
00U-35E/30-50	25.3	2.9	38.4	1.6	10	8300	4.6	13100
00U-35F/0-10	35.4	4.6	46.6	2.9	15.8	14000	7.6	19000
00U-35F/10-30	36.4	4.6	49	2.9	16	14000	7.5	18700
00U-35F/30-50	34.3	4.5	53.1	2.7	14.8	13000	7.2	17300
00U-35G/0-10	33.8	3.7	41.8	2.5	12.8	12000	6.4	17200
00U-35G/10-30	32.9	4	48.4	2.6	14.7	12000	6.8	17000
00U-35G/30-50	30.6	3.7	40.4	2.4	12.1	11000	6.3	16600
00U-35H/0-10	43	5.3	42.1	3.5	16.9	16000	9.1	21000
00U-35H/10-30	44.3	5.9	44.7	3.9	17.7	17000	10	22100
00U-35H/30-50	46.3	5.6	41.5	3.7	16.1	16000	9.8	20400

Table 5d-1b. ICP-MS data for the 00U-35 transect—Continued.

Sample #	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
00U-35A/0-10	11.2	11.6	2900	140	n.d.	1270	2.5	8.1
00U-35A/10-30	10.1	11	2650	122	n.d.	1250	2.5	8.4
00U-35A/30-50	9.9	11.2	2720	122	n.d.	1260	2.1	8.3
00U-35B/0-10	8.5	9.2	2040	112	n.d.	1130	< 2	7.1
00U-35B/10-30	10.6	11.2	2700	131	n.d.	1310	2.3	7.5
00U-35B/30-50	9.4	11.1	2520	111	n.d.	1260	2.4	7.5
00U-35C/0-10	10.6	10.6	2710	144	n.d.	1260	2	8.4
00U-35C/10-30	11	11.7	2970	147	n.d.	1490	2.3	8.6
00U-35C/30-50	10.6	11.8	2890	134	n.d.	1480	2.3	9.2
00U-35D/0-10	12.5	11.2	2870	163	n.d.	1430	2.5	8.8
00U-35D/10-30	13	13.3	3570	184	n.d.	1770	3.3	9.2
00U-35D/30-50	12.6	13.1	3390	168	n.d.	1680	2.9	8.7
00U-35E/0-10	16.1	15.3	5090	249	n.d.	2070	2.9	9.6
00U-35E/10-30	15.4	15.5	4930	234	n.d.	2180	3	10.5
00U-35E/30-50	13.7	13.4	3560	148	n.d.	1840	2.8	8.8
00U-35F/0-10	19.4	20.9	7270	388	n.d.	2880	4.6	12.5
00U-35F/10-30	20	21.3	6760	326	n.d.	2890	5.4	12.6
00U-35F/30-50	18.9	20.1	6190	280	n.d.	2680	4.5	12.2
00U-35G/0-10	16.9	18.2	6330	319	n.d.	2510	4	10.1
00U-35G/10-30	18.2	19.2	6000	298	n.d.	2650	4.5	11.2
00U-35G/30-50	16.9	18.1	5300	229	n.d.	2340	4.8	9.8
00U-35H/0-10	23.7	25.1	9170	510	n.d.	3340	8	13.1
00U-35H/10-30	27.4	28.7	9400	461	n.d.	3470	8.8	15
00U-35H/30-50	23	26.9	8080	372	n.d.	3070	6.6	14.3

Table 5d-1b. ICP-MS data for the 00U-35 transect—Continued.

Sample #	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U-35A/0-10	8.5	32.7	0.23	2.2	75.2	2.8	860	0.2	0.76	12.6	8.3	17.7
00U-35A/10-30	7.7	30.8	0.22	2	81.8	2.8	710	0.2	0.74	10.5	6.2	15.5
00U-35A/30-50	7.8	30.8	0.22	2	85.8	2.6	650	0.2	0.67	11.5	6.1	15
00U-35B/0-10	7.8	28.5	0.2	1.5	43.3	2.2	490	0.2	0.53	8.3	4.5	13.6
00U-35B/10-30	7.8	32.3	0.22	2	57.2	2.9	650	0.2	0.68	12.1	6.2	16.5
00U-35B/30-50	7.8	31.9	0.22	2	60.2	2.6	680	0.2	0.61	12	5.7	15.9
00U-35C/0-10	8.2	32	0.24	1.8	51.9	2.8	610	0.2	0.66	10.6	6.1	16.4
00U-35C/10-30	7.9	34.8	0.23	2.1	61.7	3.2	700	0.2	0.77	13.2	8.2	17.6
00U-35C/30-50	7.8	34.3	0.24	2.1	69.8	3	800	0.2	0.71	12.6	6.6	16.8
00U-35D/0-10	8.6	35.3	0.24	2	53.6	3.1	840	0.2	0.83	11.6	7.2	17.8
00U-35D/10-30	8.5	40.9	0.26	2.6	66.2	3.8	1100	0.2	0.88	15.8	8.4	20.4
00U-35D/30-50	8.4	39.4	0.22	2.5	70.1	3.5	1000	0.2	0.84	15.7	8.3	20.2
00U-35E/0-10	10.5	48.7	0.29	3.2	80.3	4.7	980	0.3	0.94	19.5	9.8	26.4
00U-35E/10-30	9.8	48.8	0.3	3.1	87.1	4.5	1000	0.3	0.9	19.6	9.5	24.5
00U-35E/30-50	9	41.8	0.24	2.5	89.9	3.7	750	0.3	0.88	16.8	7.8	20.2
00U-35F/0-10	13.1	58.9	0.31	4.7	98.6	5.8	1400	0.4	1.3	28.5	12.9	37.9
00U-35F/10-30	12.6	57.8	0.37	4.5	107	5.9	1500	0.4	1.3	28.2	12.7	35.7
00U-35F/30-50	12.1	55.9	0.35	4.2	112	5.4	1500	0.4	1.2	26.9	11.9	34.5
00U-35G/0-10	11.6	53.8	0.31	3.8	84.3	4.9	1200	0.4	1.1	22.7	10.8	31.1
00U-35G/10-30	11.1	54.6	0.32	4	96.8	5.2	1400	0.4	1.2	24.3	11.7	31.2
00U-35G/30-50	10.8	52.4	0.3	3.8	98.1	5.1	1400	0.4	1.2	23.8	11.4	29.1
00U-35H/0-10	14.4	67.9	0.44	5.5	116	7.3	2000	0.4	1.6	34	15.6	46.5
00U-35H/10-30	14	71.4	0.45	6.1	138	7.3	1900	0.5	1.6	38.8	15.5	49.7
00U-35H/30-50	13.7	67.9	0.4	5.8	136	7	2000	0.4	1.5	37.6	14.9	46.5

Table 5d-2a. ICP-AES data for auger hole 00U-36.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U-36/0-10	1.47	1.97	0.554	0.936	0.241	0.112	0.0245	0.0494	123	7.62
00U-36/10-30	1.74	2.64	0.607	1.05	0.289	0.136	0.0190	0.0570	134	7.58
00U-36/30-46	1.70	2.80	0.618	1.08	0.289	0.140	0.0184	0.0621	131	8.62
00U-36/46-68	1.72	2.68	0.661	1.11	0.270	0.139	0.0173	0.0715	124	7.55
00U-36/68-86	1.83	2.87	0.671	1.14	0.308	0.159	0.0188	0.0735	119	8.34
00U-36/86-97	2.74	4.84	0.964	1.50	0.517	0.304	0.0281	0.115	167	11.2
00U-36/97-108	2.06	5.45	0.778	1.15	0.483	0.243	0.0222	0.0889	133	9.33
00U-36/108-120	2.40	4.16	0.865	1.34	0.453	0.272	0.0242	0.0986	160	10.8
00U-36/120-130	2.30	4.20	0.821	1.28	0.466	0.282	0.0232	0.0968	146	10.4

Table 5d-2b. ICP-MS data for auger hole 00U-36—Continued.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)
00U-36/0-10	<2	14400	3.5	234	0.53	0.06	19200	0.08
00U-36/10-30	<2	16500	4.3	262	0.58	0.05	24900	0.06
00U-36/30-46	<2	16700	4.7	261	0.58	0.05	26500	0.07
00U-36/46-68	<2	18800	4.4	246	0.56	< 0.06	26800	0.06
00U-36/68-86	<2	19900	4.4	271	0.61	< 0.06	28600	0.05
00U-36/86-97	<2	28500	5	392	0.82	< 0.06	49000	0.07
00U-36/97-108	<2	21500	4.3	404	0.63	< 0.06	53900	0.07
00U-36/108-120	<2	23900	3.4	339	0.66	< 0.06	41000	0.07
00U-36/120-130	<2	24100	3.8	382	0.72	< 0.06	43300	0.06

Table 5d-2b. ICP-MS data for auger hole 00U-36—Continued.

Sample #	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)
00U-36/0-10	19.1	1.9	30.3	1.1	7.1	5600	3.2	9360
00U-36/10-30	18.8	2.4	25.1	1.3	7.5	6000	3.6	10200
00U-36/30-46	20.4	2.4	26	1.3	8.3	6100	3.7	10400
00U-36/46-68	16.8	2.4	35.8	1.2	8.7	6560	3.7	11300
00U-36/68-86	18.3	2.4	32.1	1.2	8.5	6720	3.8	11600
00U-36/86-97	27.1	3.5	31.7	1.8	13.2	9670	5.4	15400
00U-36/97-108	21.1	2.7	32.1	1.4	9.8	7680	4.1	11400
00U-36/108-120	25.8	3	31.8	1.6	10.6	8500	4.7	13200
00U-36/120-130	22.9	2.9	28.7	1.5	9.5	8240	4.7	13400

Table 5d-2b. ICP-MS data for auger hole 00U-36—Continued.

Sample #	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
00U-36/0-10	10.8	10	2480	123	nr	1240	2.2	6.1
00U-36/10-30	10.4	11.5	2970	128	nr	1530	2.7	7.1
00U-36/30-46	11.1	11.8	2980	128	nr	1540	2.5	7.1
00U-36/46-68	9.3	10.8	2950	124	0.45	1400	0.66	7.3
00U-36/68-86	10	11.8	3380	116	0.4	1600	0.99	6.6
00U-36/86-97	14.5	15.8	5600	162	0.47	3230	2	8.8
00U-36/97-108	11.5	13.8	5290	129	0.45	2540	1.3	6.7
00U-36/108-120	13.9	14.2	4980	152	0.44	2860	1.5	7
00U-36/120-130	12.3	14	5190	143	0.37	3010	0.76	6.9

Table 5d-2b. ICP-MS data for auger hole 00U-36—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U-36/0-10	220	8.2	29.4	0.2	1.6	50.3	2.7	600	0.2	0.68	9.8	5.9	15.7
00U-36/10-30	160	8.8	32.6	0.2	2	70	2.7	780	0.2	0.71	12.2	6.4	16.1
00U-36/30-46	160	8.6	32.5	0.2	2	72	2.9	800	0.2	0.74	12.4	6.5	16.6
00U-36/46-68	178	7.72	31.6	0.24	2.1	66.7	2.2	603	0.19	0.63	13	5.8	15.4
00U-36/68-86	202	7.88	33.4	0.21	2.1	79.9	2.62	651	0.22	0.7	14.2	6	17
00U-36/86-97	307	9.99	46.2	0.28	3.3	121	4.28	1030	0.3	1.02	25.6	9.2	25.3
00U-36/97-108	237	8.23	34	0.22	2.6	134	3.2	767	0.22	0.96	18.2	7.2	18.5
00U-36/108-120	256	8.54	40.1	0.25	2.8	99.5	3.96	889	0.25	1	23.3	8.1	21.3
00U-36/120-130	244	8.54	39.1	0.22	2.6	116	3.46	844	0.25	0.91	21.2	7.7	21

Table 5d-3a. ICP-AES data for auger hole 00U-37.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U-37/0-10	4.66	3.65	1.61	2.18	0.861	0.324	0.0744	0.163	486	18.5
00U-37/10-30	4.36	3.81	1.52	2.00	0.742	0.317	0.0470	0.158	387	19.3
00U-37/30-43	4.29	3.41	1.48	1.93	0.705	0.301	0.0438	0.157	361	16.8
00U-37/43-55	4.04	2.41	1.39	1.90	0.540	0.266	0.0239	0.154	243	15.0
00U-37/55-68	3.32	4.69	1.14	1.62	0.536	0.241	0.0316	0.121	164	12.8
00U-37/68-80	2.57	2.79	1.01	1.42	0.417	0.214	0.0229	0.0922	147	10.1
00U-37/80-94	2.39	2.38	0.960	1.36	0.412	0.220	0.0205	0.0957	149	10.2
00U-37/94-110	3.16	11.7	0.949	1.56	0.634	0.223	0.0292	0.102	153	11.7
00U-37/110-120	3.03	7.28	0.938	1.55	0.667	0.236	0.0263	0.100	149	11.8
00U-37/120-131	2.04	4.62	0.613	1.25	0.395	0.131	0.0214	0.0678	85.5	7.84
00U-37/131-139	2.13	4.56	0.655	1.33	0.400	0.143	0.0213	0.0729	104	8.11
00U-37/139-148	2.67	6.57	0.717	1.47	0.521	0.169	0.0221	0.0804	112	8.67
00U-37/148-155	2.75	4.30	0.880	1.48	0.490	0.183	0.0338	0.0967	192	10.3

Table 5d-3b. ICP-MS data for auger hole 00U-37.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)
00U-37/0-10	<2	44800	4.8	437	1.5	0.13	35000	0.27
00U-37/10-30	<2	43200	4.8	435	1.4	0.12	37400	0.19
00U-37/30-43	<2	42800	4.7	419	1.4	0.12	33000	0.17
00U-37/43-55	<2	40700	4.3	376	1.3	< 0.06	23700	0.09
00U-37/55-68	<2	32900	3.5	334	1	< 0.06	45600	0.11
00U-37/68-80	<2	26300	3.1	305	0.8	< 0.06	27600	0.06
00U-37/80-94	<2	24900	3.2	302	0.7	< 0.06	23600	0.06
00U-37/94-110	<2	31600	5.5	418	1	< 0.06	117000	0.13
00U-37/110-120	<2	29800	4.6	417	0.9	< 0.06	71700	0.08
00U-37/120-131	<2	21200	3.5	319	0.59	< 0.06	46700	0.06
00U-37/131-139	<2	22100	3.1	308	0.76	< 0.06	44800	0.06
00U-37/139-148	<2	26300	3.7	430	0.81	< 0.06	64500	0.08
00U-37/148-155	<2	28000	3.4	328	0.77	< 0.06	42900	0.11

Table 5d-3b. ICP-MS data for auger hole 00U-37—Continued.

Sample #	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)
00U-37/0-10	44.5	5.7	47.4	3.8	18.1	17000	9.8	21800
00U-37/10-30	42.2	5.5	52	3.5	17.3	16000	9.4	20500
00U-37/30-43	41.5	5.2	47.6	3.4	15.7	15000	9.1	19300
00U-37/43-55	34.8	4.8	36.7	2.9	13.7	13900	8	19100
00U-37/55-68	30	4	31.8	2.4	12.3	11400	6.4	15900
00U-37/68-80	22.5	3.2	50.6	1.8	11	10200	4.9	14500
00U-37/80-94	22.6	2.9	42.1	1.7	10.1	9460	4.8	14100
00U-37/94-110	26.2	3.2	27.4	2.2	8.4	9390	5.7	15400
00U-37/110-120	24.1	3.1	28.2	2	8.4	9060	5.5	15400
00U-37/120-131	17.2	1.8	24.2	1.3	6.2	6000	3.9	12900
00U-37/131-139	20.6	1.9	23.2	1.4	6.6	6300	4.1	13200
00U-37/139-148	19.2	2.4	22.8	1.6	6.4	7060	4.6	14500
00U-37/148-155	22.8	2.8	29.1	1.9	10.8	8690	5.2	15200

Table 5d-3b. ICP-MS data for auger hole 00U-37—Continued.

Sample #	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
00U-37/0-10	24.4	27.4	9470	491	nr	3440	9.2	14.8
00U-37/10-30	23.2	26	8260	401	nr	3470	6.9	14.5
00U-37/30-43	22.5	25.3	7820	354	nr	3240	6.6	13.5
00U-37/43-55	18.5	21.6	5900	235	0.49	2760	2.6	11.9
00U-37/55-68	16.4	18.3	5810	161	0.47	2420	1.5	9.3
00U-37/68-80	12.4	14.3	4660	145	0.62	2260	1	8.7
00U-37/80-94	12.4	13.6	4520	144	0.54	2300	1.4	8
00U-37/94-110	14.4	17.4	6560	150	0.38	2210	1.5	6.3
00U-37/110-120	13.1	18.1	7240	139	0.34	2450	1.6	6.8
00U-37/120-131	9.4	12.6	4320	83.2	0.2	1380	0.92	4.9
00U-37/131-139	11.3	13	4430	98.8	0.2	1480	0.98	5.3
00U-37/139-148	11.1	15.4	5630	107	0.21	1730	1.4	5.7
00U-37/148-155	12.6	15.8	5510	187	0.32	1910	1.2	7.3

Table 5d-3b. ICP-MS data for auger hole 00U-37—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U-37/0-10	690	14.1	69.7	0.45	5.9	126	7.4	1800	0.4	1.6	36.9	16.1	47.9
00U-37/10-30	450	13.2	66.4	0.42	5.5	132	7	1900	0.4	1.5	34.7	15	43.6
00U-37/30-43	410	13.1	65	0.41	5.1	131	6.7	1800	0.4	1.4	33.5	14.2	42.3
00U-37/43-55	255	11.1	60	0.33	5	104	5.4	1370	0.37	1.1	32.1	11.8	36.7
00U-37/55-68	336	9.39	49.2	0.29	4	106	4.51	1060	0.32	1.04	27.1	10.2	29.3
00U-37/68-80	252	8.46	43.1	0.26	3	78.6	3.63	781	0.27	0.82	20.4	7.8	24.3
00U-37/80-94	219	8.2	42	0.24	2.8	74.6	3.48	929	0.27	0.81	20	7.5	22.1
00U-37/94-110	308	8.14	44	0.28	3.7	218	4.06	955	0.28	0.94	24.5	9.5	21.9
00U-37/110-120	280	8.41	43.5	0.27	3.6	200	3.7	895	0.28	0.91	23.2	8.4	22.2
00U-37/120-131	226	6.92	35.5	0.2	2	130	2.64	589	0.22	0.67	15.4	6	13.6
00U-37/131-139	219	7.02	36.4	0.2	2.1	123	3.33	612	0.23	0.71	16.2	6.5	14.8
00U-37/139-148	229	7.41	40	0.21	2.9	177	2.85	724	0.24	0.72	18.5	6.8	17.2
00U-37/148-155	372	8.29	43.7	0.22	2.9	117	3.47	844	0.27	0.8	21.2	8.2	24.4

Table 5e-1a. ICP-AES data for the GP transect.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
GP-A/0-10	2.02	0.480	0.494	1.73	0.205	0.107	0.0205	0.0598	163	6.11
GP-A/10-30	1.98	0.528	0.509	1.70	0.196	0.0986	0.0170	0.0608	167	6.18
GP-A/30-50	1.97	0.722	0.492	1.70	0.185	0.0891	0.0143	0.0567	156	5.94
GP-B/0-10	2.36	0.361	0.642	1.80	0.268	0.127	0.0220	0.0745	189	8.23
GP-B/10-30	2.19	0.820	0.602	1.75	0.242	0.123	0.0167	0.0686	156	7.63
GP-B/30-50	1.87	1.64	0.394	1.64	0.175	0.0771	0.0131	0.0469	108	5.53
GP-C/0-10	2.16	0.162	0.601	1.72	0.226	0.129	0.0213	0.0710	180	7.47
GP-C/10-30	2.34	0.417	0.653	1.80	0.259	0.121	0.0188	0.0753	190	8.05
GP-C/30-50	2.18	0.941	0.584	1.78	0.240	0.124	0.0173	0.0716	157	7.34
GP-D/0-10	2.31	0.172	0.645	1.80	0.250	0.139	0.0230	0.0825	207	8.16
GP-D/10-30	2.26	0.391	0.634	1.80	0.252	0.129	0.0176	0.0710	190	7.81
GP-D/30-50	2.16	0.788	0.574	1.71	0.246	0.121	0.0170	0.0683	173	7.25
GP-E/0-10	2.21	0.184	0.622	1.83	0.229	0.148	0.0258	0.0748	185	7.42
GP-E/10-30	2.39	0.389	0.736	1.82	0.282	0.140	0.0218	0.0824	231	8.30
GP-E/30-50	2.22	0.740	0.553	1.77	0.253	0.126	0.0182	0.0683	186	7.36
GP-F/0-10	2.38	0.312	0.710	1.77	0.280	0.133	0.0274	0.0786	235	8.32
GP-F/10-30	2.26	0.765	0.635	1.77	0.266	0.124	0.0205	0.0689	195	7.69
GP-F/30-50	2.04	1.01	0.538	1.67	0.226	0.108	0.0171	0.0595	157	6.84
GP-G/0-10	2.40	0.377	0.648	1.81	0.291	0.138	0.0293	0.0814	214	8.69
GP-G/10-30	2.31	0.798	0.589	1.82	0.266	0.133	0.0206	0.0769	180	7.79
GP-G/30-50	2.20	1.05	0.582	1.78	0.247	0.119	0.0175	0.0662	156	7.40
GP-H/0-10	2.39	0.340	0.740	1.78	0.282	0.137	0.0254	0.0814	221	8.61
GP-H/10-30	2.40	0.915	0.619	1.87	0.288	0.145	0.0212	0.0709	188	7.89
GP-H/30-50	2.13	1.12	0.567	1.75	0.244	0.117	0.0172	0.0632	145	7.08
GP-I/0-10	2.40	0.431	0.709	1.86	0.304	0.154	0.0320	0.0916	225	8.57
GP-I/10-30	2.36	0.630	0.680	1.89	0.283	0.145	0.0240	0.0904	197	8.45
GP-I/30-50	2.32	0.920	0.676	1.84	0.292	0.140	0.0218	0.0857	188	8.71
GP-J/0-10	2.52	0.523	0.756	1.90	0.308	0.147	0.0298	0.0822	230	8.88
GP-J/10-30	2.45	0.897	0.653	1.91	0.309	0.150	0.0250	0.0826	201	8.90
GP-J/30-50	2.42	1.11	0.682	1.93	0.302	0.157	0.0249	0.0795	185	8.85
GP-K/0-10	2.85	0.212	0.888	2.06	0.330	0.214	0.0429	0.129	280	11.3
GP-K/10-30	2.66	0.341	0.828	1.95	0.316	0.184	0.0293	0.114	237	10.3
GP-K/30-50	2.64	0.749	0.785	2.00	0.321	0.194	0.0239	0.110	213	10.0

Table 5e-1b. ICP-MS data for the GP transect.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
GP-A/0-10	0.17	21200	6.48	329	0.79	< 0.06	4760	0.08	13.8	1.6	26.1	1.59
GP-A/10-30	0.15	20700	6.96	321	0.79	< 0.06	5300	0.07	13.8	1.6	30.8	1.59
GP-A/30-50	0.14	20500	8.64	310	0.83	< 0.06	7110	0.06	12.6	1.7	30.9	1.59
GP-B/0-10	0.16	24600	6	339	0.78	< 0.06	3580	0.08	18.7	2.1	22.9	2.014
GP-B/10-30	0.14	23100	4.68	339	0.71	< 0.06	8160	0.05	16.4	2	27.4	1.802
GP-B/30-50	0.1	19000	6.48	303	0.61	< 0.06	16400	0.05	13.3	1.5	16	1.484
GP-C/0-10	0.14	23100	3.84	342	0.59	< 0.06	1620	0.08	17.8	1.9	25.6	1.802
GP-C/10-30	0.15	24600	4.8	338	0.78	< 0.06	4160	0.06	18.3	2.2	25	2.014
GP-C/30-50	0.13	22800	4.56	336	0.73	< 0.06	9370	0.06	17.3	2	24.2	1.802
GP-D/0-10	0.2	24100	3.6	342	0.7	< 0.06	1700	0.08	18.5	2	21.5	1.908
GP-D/10-30	0.14	23600	3.6	340	0.71	< 0.06	3790	0.06	17.8	2.1	23.1	1.908
GP-D/30-50	0.14	22500	3.6	331	0.68	< 0.06	7760	0.06	16.3	1.9	20.2	1.802
GP-E/0-10	0.15	23300	2.4	354	0.7	< 0.06	1880	0.09	17.5	1.9	28	1.802
GP-E/10-30	0.15	25100	4.2	340	0.72	< 0.06	3740	0.08	19.2	2.4	30.2	2.014
GP-E/30-50	0.23	23100	4.32	333	0.63	< 0.06	7070	0.06	17.8	1.9	14.5	1.802
GP-F/0-10	0.14	24900	4.44	338	0.69	< 0.06	3010	0.09	19.1	2.4	28.5	2.014
GP-F/10-30	0.14	23600	5.28	333	0.74	< 0.06	7480	0.07	18.7	2.1	24.4	1.908
GP-F/30-50	0.11	21400	6	317	0.65	< 0.06	10200	0.06	15	1.8	23.6	1.696
GP-G/0-10	0.24	25600	3.6	343	0.76	< 0.06	3780	0.08	18.5	2.2	16.9	2.014
GP-G/10-30	0.2	23900	2.4	337	0.69	< 0.06	7710	0.05	17.3	1.9	16.6	1.908
GP-G/30-50	0.16	23300	2.4	336	0.62	< 0.06	10400	0.05	16.6	1.9	26	1.908
GP-H/0-10	0.19	25600	2.4	340	0.69	< 0.06	3310	0.08	19.9	2.3	30.8	2.12
GP-H/10-30	0.18	25400	2.4	357	0.73	< 0.06	8890	0.06	19	2.1	16.9	2.014
GP-H/30-50	0.13	22100	2.4	329	0.59	< 0.06	10900	0.04	16.4	1.8	25.5	1.696
GP-I/0-10	0.17	25600	2.4	354	0.74	< 0.06	4290	0.09	18.8	2.2	28.4	2.014
GP-I/10-30	0.15	24400	2.4	344	0.73	< 0.06	6030	0.07	18.4	2.1	30.8	1.908
GP-I/30-50	0.16	24600	2.4	342	0.71	< 0.06	9090	0.06	18.4	2.2	28.3	2.014
GP-J/0-10	0.18	26200	2.4	351	0.75	< 0.06	5040	0.1	21	2.4	32	2.12
GP-J/10-30	0.15	26600	2.4	364	0.81	< 0.06	9110	0.07	19.8	2.3	17.9	2.12
GP-J/30-50	0.15	26000	2.4	363	0.72	< 0.06	11100	0.06	19.4	2.2	28.9	2.014
GP-K/0-10	0.21	31300	2.4	395	0.79	< 0.06	2160	0.11	25.3	3	25.7	2.544
GP-K/10-30	0.2	28800	1.2	374	0.76	< 0.06	3370	0.08	23.6	2.7	27.8	2.332
GP-K/30-50	0.18	28200	1.2	372	0.69	< 0.06	7320	0.06	22.9	2.6	26.6	2.226

Table 5e-1b. ICP-MS data for the GP transect—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
GP-A/0-10	6.4	4970	3.7	17900	7.5	8.2	2230	158	0.28	1120	2.03	4.2
GP-A/10-30	7.2	5150	3.7	17400	7.6	8	2170	166	0.35	1290	1.75	4.2
GP-A/30-50	5.3	4900	3.6	17200	7	7.7	2020	151	0.31	941	1.54	4.3
GP-B/0-10	7.6	6510	4.5	18600	10.1	10.1	2950	186	0.3	1370	2.38	5
GP-B/10-30	6.7	6120	4.2	18100	8.8	9.2	2650	156	0.33	1270	2.03	5.1
GP-B/30-50	5.1	3920	3.4	16400	7.2	6.9	1840	99.4	0.2	836	< 2	3.7
GP-C/0-10	7.1	6130	4.1	18100	9.5	9.4	2470	180	0.3	2180	2.38	4.6
GP-C/10-30	6.8	6540	4.5	18500	9.9	9.9	2780	189	0.29	1490	2.24	5.2
GP-C/30-50	6.6	5890	4.1	18200	9	9	2520	154	0.28	1250	1.68	4.8
GP-D/0-10	7.4	6370	4.3	18300	9.9	10.1	2610	202	0.31	1420	3.43	4.8
GP-D/10-30	6.9	6270	4.3	18100	9.4	9.9	2650	188	0.29	1340	2.24	5.1
GP-D/30-50	6	5740	4	17400	8.7	9.5	2610	172	0.24	1340	2.1	4.5
GP-E/0-10	7.5	6170	4.2	18800	9.4	9.4	2420	184	0.33	1580	2.38	4.7
GP-E/10-30	8	7270	4.6	18500	10	10.5	2930	227	0.37	1380	2.45	6
GP-E/30-50	6.4	5450	4.1	18000	9.5	9.5	2600	183	0.2	1530	4.55	4.3
GP-F/0-10	8.5	7100	4.5	18000	10.1	10.8	2970	238	0.35	1340	2.31	5.8
GP-F/10-30	7.2	6390	4.3	18100	9.8	9.9	2830	193	0.29	1280	1.96	5.3
GP-F/30-50	7	5360	3.8	17300	8.1	8.5	2370	150	0.32	1130	1.61	4.5
GP-G/0-10	6.5	6540	4.6	19000	10	10.6	3120	218	0.24	1430	2.31	5
GP-G/10-30	6.2	5780	4.3	18600	9.2	9.6	2780	180	0.21	1330	2.1	4.6
GP-G/30-50	7.2	5970	4.1	18700	9	9.2	2630	153	0.28	1220	1.96	5
GP-H/0-10	8	7510	4.7	18700	10.5	10.9	3000	224	0.36	1530	2.66	5.8
GP-H/10-30	6.5	6190	4.5	19400	10.1	10.3	2950	188	0.2	1460	2.38	5.1
GP-H/30-50	6.7	5670	4	17800	8.8	8.9	2490	139	0.28	1160	1.75	5
GP-I/0-10	8.1	7060	4.6	19200	10	10.7	3150	227	0.34	1540	2.59	5.7
GP-I/10-30	7.8	6740	4.3	18900	9.8	9.9	2900	198	0.34	1400	2.31	5.6
GP-I/30-50	8.2	6700	4.4	18900	10	10.2	2980	188	0.37	1500	2.45	5.6
GP-J/0-10	9.3	7600	4.8	19200	11.3	11.1	3210	234	0.37	1590	2.73	6.3
GP-J/10-30	7.2	6620	4.8	20000	10.7	11.1	3180	206	0.21	1540	2.38	5.3
GP-J/30-50	7.8	6900	4.7	20100	10.3	10.7	3100	190	0.36	1570	2.45	5.9
GP-K/0-10	9.1	9330	5.7	21900	13.1	13.6	3480	290	0.37	2540	3.78	6.8
GP-K/10-30	8.6	8630	5.2	20700	12.5	12.1	3260	242	0.34	2050	3.29	6.6
GP-K/30-50	8.6	7890	5	20400	11.9	12.1	3290	219	0.36	1940	2.94	6.2

Table 5e-1b. ICP-MS data for the GP transect—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
GP-A/0-10	216	10.2	49.7	0.33	1.8	67.6	1.86	705	0.32	0.5	11.1	5.52	25.6
GP-A/10-30	238	9.78	48.3	0.49	1.8	71	1.94	2300	0.32	0.49	11	5.52	26.8
GP-A/30-50	149	9.21	47.5	0.35	1.8	80.4	1.7	642	0.32	0.48	10.4	5.04	22.7
GP-B/0-10	235	10.8	53.3	0.35	2.5	71.9	2.75	865	0.35	0.63	14.9	7.08	27.4
GP-B/10-30	171	9.17	51.3	0.3	2.2	71.6	2.26	801	0.33	0.6	13.3	6.36	22.5
GP-B/30-50	132	8.46	45.6	0.23	1.6	80.6	1.49	538	0.3	0.41	10.4	4.44	18.8
GP-C/0-10	228	10.5	50.9	0.31	2.2	63.6	2.79	853	0.33	0.65	13.5	6.6	24.1
GP-C/10-30	198	9.69	52.4	0.33	2.5	68.2	2.65	861	0.34	0.59	14.7	7.2	28.2
GP-C/30-50	172	9.43	51.3	0.37	2.1	73	2.33	788	0.34	0.57	13.4	6.48	21.4
GP-D/0-10	233	10.3	52.5	0.33	2.4	64.4	2.82	924	0.34	0.66	14.3	7.2	25.5
GP-D/10-30	190	9.37	52.2	0.29	2.4	64.9	2.68	847	0.34	0.6	13.8	7.08	23.7
GP-D/30-50	177	8.87	49.4	0.28	2.2	65.9	2.31	805	0.32	0.62	13.3	6.6	21.6
GP-E/0-10	276	10.4	52.2	0.3	2.2	63.7	2.66	876	0.34	0.62	12.9	7.2	23.9
GP-E/10-30	228	9.66	52.5	0.33	2.6	69.1	2.76	931	0.34	0.66	15.5	8.04	26.8
GP-E/30-50	188	9.1	50.8	0.28	2.3	68.9	2.47	832	0.32	0.63	13.8	6.96	23.4
GP-F/0-10	287	10.4	52.5	0.32	2.6	67.3	2.79	917	0.34	0.7	14.8	7.92	28
GP-F/10-30	214	9.48	51.1	0.31	2.4	70.2	2.63	848	0.33	0.64	14.3	6.96	24.5
GP-F/30-50	181	8.8	48.2	0.29	2	71.5	2.07	753	0.3	0.52	12.7	6	21.7
GP-G/0-10	320	10.5	53.1	0.29	2.7	69.1	2.61	908	0.35	0.66	15.7	7.8	26.4
GP-G/10-30	213	9.28	51.6	0.26	2.3	69.7	2.53	840	0.33	0.61	13.6	6.72	21.4
GP-G/30-50	186	9.17	51.7	0.28	2.2	74.3	2.26	846	0.33	0.55	13.6	6.36	20.2
GP-H/0-10	269	10.7	53.5	0.3	2.7	68.1	2.98	1000	0.34	0.67	15.6	7.92	25.5
GP-H/10-30	223	9.73	54.7	0.27	2.5	75.7	2.67	912	0.34	0.64	14.9	7.56	22
GP-H/30-50	178	8.84	49.5	0.26	2.1	74.3	2.26	808	0.32	0.52	12.2	6.24	19
GP-I/0-10	345	10.5	55	0.29	2.6	72	2.93	995	0.35	0.7	15.2	7.92	25
GP-I/10-30	251	9.49	52.9	0.27	2.5	72.2	2.65	942	0.33	0.62	14	7.44	22
GP-I/30-50	232	9.6	52.8	0.29	2.4	76.1	2.7	956	0.33	0.65	14.9	7.44	22.2
GP-J/0-10	314	10.7	54.5	0.31	2.8	72.6	3.11	990	0.35	0.72	15.7	8.28	25.8
GP-J/10-30	265	9.94	56.1	0.28	2.7	78.6	2.84	1030	0.35	0.64	16	7.8	24.2
GP-J/30-50	259	9.69	55.7	0.28	2.5	80.4	2.88	994	0.35	0.65	15.4	7.8	22.6
GP-K/0-10	465	11.9	61.6	0.35	3.4	77.4	3.97	1370	0.39	0.94	20.6	10.44	30.2
GP-K/10-30	314	10.2	58	0.31	3.2	69.6	3.61	1160	0.37	0.82	18.3	11.64	27
GP-K/30-50	258	9.86	56.5	0.28	2.9	71.8	3.33	1160	0.36	0.77	18.1	9.12	25.6

Table 5f-1a. ICP-AES data for the 00U-41 transect.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U-41A/0-10	2.26	2.42	1.05	1.43	0.610	0.399	0.0186	0.0714	232	11.8
00U-41A/10-25	2.05	2.52	0.782	1.34	0.614	0.374	0.0159	0.0551	230	7.76
00U-41B/0-10	2.37	2.27	0.911	1.50	0.477	0.434	0.0202	0.0799	195	11.9
00U-41B/10-25	3.50	3.82	1.34	2.00	0.703	0.709	0.0243	0.116	236	16.8
00U-41B/25-45	4.87	6.97	1.60	2.66	0.892	1.18	0.0267	0.143	288	22.4
00U-41C/0-10	3.60	1.96	1.30	2.19	0.632	0.773	0.0438	0.130	271	17.3
00U-41C/10-20	2.89	2.32	1.05	1.80	0.420	0.612	0.0209	0.0827	192	9.69
00U-41C/20-30	2.80	2.33	0.975	1.78	0.380	0.654	0.0204	0.0780	179	9.69
00U-41D/0-10	2.95	2.32	1.17	1.82	0.494	0.600	0.0241	0.0973	214	13.7
00U-41D/10-30	3.46	2.40	1.20	2.05	0.611	0.714	0.0351	0.113	261	12.5
00U-41D/30-50	3.60	2.70	1.23	2.10	0.665	0.744	0.0362	0.123	267	14.7
00U-41E/0-10	3.89	2.09	1.52	2.27	0.724	0.748	0.0474	0.151	320	21.0
00U-41E/10-30	3.50	2.23	1.25	2.05	0.634	0.673	0.0347	0.124	278	13.9
00U-41E/30-50	3.79	3.24	1.30	2.18	0.684	0.738	0.0336	0.134	272	14.1
00U-41F/0-10	3.95	2.11	1.38	2.30	0.717	0.728	0.0440	0.146	327	18.0
00U-41F/10-30	3.92	2.72	1.40	2.32	0.733	0.718	0.0376	0.160	307	20.2
00U-41F/30-50	4.20	3.89	1.43	2.44	0.792	0.803	0.0360	0.155	279	20.0
00U-41G/0-10	3.54	1.80	1.20	2.21	0.634	0.749	0.0403	0.134	272	15.6
00U-41G/10-30	3.90	2.36	1.40	2.33	0.748	0.734	0.0414	0.163	318	18.5
00U-41G/30-50	4.11	3.20	1.41	2.45	0.804	0.786	0.0370	0.172	303	20.8
00U-41H1/0-10	3.99	2.16	1.49	2.38	0.766	0.717	0.0458	0.155	358	20.8
00U-41H1/10-30	3.71	2.94	1.38	2.13	0.697	0.646	0.0294	0.142	291	15.6
00U-41H1/30-50	3.68	4.34	1.26	2.12	0.742	0.711	0.0304	0.118	245	13.8
00U-41H2/0-10	3.94	2.22	1.51	2.18	0.794	0.634	0.0512	0.172	366	19.9
00U-41H2/10-30	3.66	2.21	1.36	2.11	0.702	0.627	0.0385	0.132	328	15.5
00U-41H2/30-50	3.80	2.54	1.32	2.20	0.676	0.702	0.0291	0.143	277	14.9

Table 5f-1b. ICP-MS data for the 00U-41 transect.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
00U-41A/0-10	< 2	28500	1.3	398	0.98	< 0.06	28700	0.05	22.4	2.9	81.3	0.89
00U-41A/10-25	<2	22400	1.5	335	0.7	< 0.06	26900	0.04	19	2.5	25.5	0.78
00U-41B/0-10	28.6	29100	1.2	406	0.71	< 0.06	26200	0.05	22.2	2.5	74.0	0.95
00U-41B/10-25	2.2	41500	2.5	558	1.2	< 0.06	42600	0.03	32.4	3.8	74.2	1.4
00U-41B/25-45	< 2	56000	3.0	799	1.5	< 0.06	76700	0.04	42.8	4.6	68.9	1.6
00U-41C/0-10	< 2	47200	2.3	659	1.0	< 0.06	24000	0.06	35.7	3.8	67.4	1.6
00U-41C/10-20	<2	30500	1.8	513	0.88	< 0.06	25200	0.03	25	2.5	28.4	0.97
00U-41C/20-30	<2	30500	1.7	530	0.97	< 0.06	25900	0.03	20.3	2.4	14.9	0.88
00U-41D/0-10	< 2	38700	1.6	577	1.2	< 0.06	28500	0.04	29.0	3.3	75.0	1.2
00U-41D/10-30	<2	37100	2.6	561	1.1	< 0.06	26600	0.05	28.5	3.5	24	1.4
00U-41D/30-50	<2	38600	2.9	568	1.2	< 0.06	29800	0.05	31	3.7	27.4	1.5
00U-41E/0-10	< 2	49200	2.9	631	1.5	< 0.06	24600	0.07	39.3	4.7	78.2	2.0
00U-41E/10-30	<2	37500	3	543	1.2	< 0.06	24800	0.05	32.9	3.8	25.1	1.6
00U-41E/30-50	<2	38400	3.1	592	1.1	0.08	33300	0.05	32.1	4	26.1	1.7
00U-41F/0-10	< 2	50100	3.2	639	1.5	< 0.06	24900	0.07	36.4	4.6	75.0	2.0
00U-41F/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-41F/30-50	< 2	52100	3.0	671	1.8	< 0.06	44800	0.05	38.2	5.2	54.9	2.0
00U-41G/0-10	< 2	29100	1.2	407	0.95	< 0.06	29400	0.05	22.6	3.1	83.5	0.91
00U-41G/10-30	< 2	49700	3.2	647	1.4	< 0.06	27700	0.06	37.7	4.7	63.3	2.0
00U-41G/30-50	< 2	51700	3.1	678	0.91	< 0.06	37100	0.05	38.2	4.9	52.6	2.0
00U-41H1/0-10	< 2	50100	3.2	617	1.3	< 0.06	24200	0.08	41.8	4.9	62.1	2.2
00U-41H1/10-30	<2	37900	3.3	566	1.2	0.08	30600	0.05	34.9	4.1	27.8	1.9
00U-41H1/30-50	<2	37500	3.1	589	1	0.07	45100	0.05	31.1	3.9	21.8	1.6
00U-41H2/0-10	< 2	50100	3.1	613	1.6	< 0.06	26200	0.08	41.2	5.0	58.9	2.2
00U-41H2/10-30	<2	37400	3.3	536	1.1	0.08	22600	0.06	34	4	22.2	1.9
00U-41H2/30-50	<2	38600	3	591	1.1	0.08	25700	0.04	32.7	3.9	28	1.8

Table 5f-1b. ICP-MS data for the 00U-41 transect—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
00U41A/0-10	11.3	11800	4.8	17600	12.8	8.8	7690	272	0.62	5270	3.1	7.3
00U41A/10-25	7.1	7930	4.3	14200	11	7	7120	234	0.23	4140	0.84	3.8
00U41B/0-10	12.9	10000	5.0	18300	12.3	9.5	6090	222	0.46	5640	2.9	6.2
00U41B/10-25	19.8	15300	7.6	23100	18.5	13.3	8670	267	0.58	8800	4.7	8.7
00U41B/25-45	10.7	18000	10.5	29600	24.4	15.4	10600	327	0.53	13900	7.1	9.6
00U41C/0-10	11.5	16000	8.0	28000	19.9	14.7	8520	338	0.49	10700	5.8	9.1
00U41C/10-20	9	10800	6.1	19600	13.1	8.4	4840	197	0.43	7010	1.6	5.5
00U41C/20-30	8.4	10100	6	20000	10.9	7.8	4390	183	0.37	7820	1.9	4.9
00U41D/0-10	12.8	13800	6.8	23900	16.3	11.1	6610	260	0.57	8320	4.6	7.8
00U41D/10-30	11.3	12600	7.2	22600	15.2	12.7	7350	271	0.38	8160	2	7.4
00U41D/30-50	12.2	12800	7.4	23200	16.5	13.2	7980	281	0.39	8520	2.2	7.7
00U41E/0-10	15.2	18100	8.4	28200	22.0	16.9	9390	384	0.61	9840	6.6	11.3
00U41E/10-30	12.1	13100	7.3	22800	17.4	14.1	7600	291	0.43	7750	2.1	8.1
00U41E/30-50	12	12900	7.7	22300	17.6	14.3	7310	272	0.47	7750	2.3	7.9
00U41F/0-10	17.9	16400	8.6	28700	20.1	17.7	9350	390	0.46	9650	5.6	10.7
00U41F/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U41F/30-50	19.3	17200	9.0	29500	21.0	18.2	10100	340	0.38	10400	5.7	10.8
00U41G/0-10	11.5	12200	4.9	18200	13.0	8.8	7920	278	0.63	5360	3.2	7.5
00U41G/10-30	13.8	17000	8.3	28700	20.9	17.9	9640	388	0.52	9690	5.9	10.5
00U41G/30-50	16.2	17100	8.6	30000	21.5	18.6	10300	370	0.43	10200	5.9	10.6
00U41H1/0-10	16.2	17600	8.4	28300	22.9	18.8	9680	426	0.52	8940	6.8	11.2
00U41H1/10-30	13.1	13600	7.6	22100	18.9	16.1	7480	287	0.56	6860	2.3	8.8
00U41H1/30-50	13.6	12200	7.4	21800	16.9	14.6	7930	246	0.39	7420	2.5	7.6
00U41H2/0-10	14.3	17700	8.6	28600	22.9	19.5	10500	434	0.49	9000	7.1	11.4
00U41H2/10-30	12.3	13200	7.4	21700	18.5	15.6	7590	318	0.55	6670	2.6	8.6
00U41H2/30-50	11.2	12800	7.5	22600	17.8	15.4	7270	264	0.42	7490	2.4	8

Table 5f-1b. ICP-MS data for the 00U-41 transect—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U41A/0-10	237	9.35	39.9	0.20	2.5	74.1	2.98	1110	0.20	0.81	23.5	10.5	13.3
00U41A/10-25	179	6.86	34.1	0.1	2.2	71	2.69	587	0.2	0.59	20	7.2	12.4
00U41B/0-10	260	9.65	39.6	0.2	2.6	79.1	3.82	1120	0.20	0.78	20.7	10.5	13.6
00U41B/10-25	289	10.4	50.0	0.28	4.2	152	4.51	1630	0.24	0.96	35.1	13.8	19.5
00U41B/25-45	305	12.1	62.5	0.29	5.6	273	5.18	2080	0.29	1.18	46.9	17.9	22.3
00U41C/0-10	572	13.0	59.9	0.32	4.5	112	5.00	2160	0.30	1.21	32.0	17.4	21.6
00U41C/10-20	224	8.91	44	0.2	2.8	96	3.72	796	0.25	0.88	23.1	8.9	13.9
00U41C/20-30	242	8.66	44.1	0.2	2.6	101	2.82	798	0.25	0.69	22	8.1	12.5
00U41D/0-10	323	11.0	51.4	0.25	3.5	104	3.89	1490	0.25	0.95	28.1	12.9	17.3
00U41D/10-30	387	10	51.9	0.22	4.1	116	4.12	1110	0.3	0.97	26.9	12	21.3
00U41D/30-50	369	10.1	53.7	0.23	4.4	132	4.52	1160	0.31	1	29.3	12.4	21.5
00U41E/0-10	613	13.4	62.3	0.38	5.3	117	5.51	2390	0.32	1.37	35.6	19.2	27.0
00U41E/10-30	387	10.2	53.3	0.26	4.4	118	4.93	1200	0.32	1.09	28.8	13.1	23.2
00U41E/30-50	326	10.4	54.9	0.24	4.8	140	4.62	1220	0.32	1.05	30.5	12.9	23.9
00U41F/0-10	569	13.1	63.2	0.33	5.3	116	4.84	2220	0.33	1.14	33.7	16.8	27.7
00U41F/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U41F/30-50	451	12.7	63.3	0.31	6.0	166	5.04	2420	0.33	1.26	38.7	18.2	27.4
00U41G/0-10	243	9.48	40.5	0.20	2.5	76.0	3.01	1130	0.20	0.81	24.4	10.7	13.3
00U41G/10-30	531	12.9	62.7	0.34	5.5	134	5.20	2370	0.32	1.28	35.3	18.1	26.2
00U41G/30-50	474	12.6	64.4	0.34	5.8	179	5.24	2450	0.34	1.34	38.8	19.0	28.0
00U41H1/0-10	588	13.6	63.7	0.39	5.6	122	5.93	2760	0.33	1.53	36.7	20.7	29.2
00U41H1/10-30	303	11	55.9	0.27	4.8	143	5.44	1340	0.34	1.22	29.4	13.6	25.3
00U41H1/30-50	321	10.4	53.2	0.24	4.6	172	4.48	1180	0.32	1.01	30.8	11.9	22.6
98145.45189	648	13.7	63.9	0.40	5.9	125	6.04	2830	0.34	1.47	37.8	20.6	30.4
00U41H2/10-30	395	10.7	55	0.28	4.6	119	5.26	1270	0.33	1.08	29.7	13.4	24.9
00U41H2/30-50	288	10.7	55.9	0.26	4.8	150	4.96	1420	0.33	1.24	30.5	14	23.8

Table 5f-2a. ICP-AES data for auger hole 00U-42.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U-42/0-10	3.26	2.11	1.08	1.99	0.459	0.711	0.0303	0.105	220	12.5
00U-42/10-30	3.49	2.37	1.11	2.06	0.484	0.738	0.0282	0.107	230	13.5
00U-42/30-50	4.02	2.87	1.23	2.35	0.559	0.817	0.0303	0.124	262	16.6
00U-42/50-63	3.84	2.20	1.26	2.27	0.503	0.829	0.0248	0.126	249	12.6
00U-42/63-74	3.86	2.58	1.18	2.29	0.526	0.842	0.0261	0.119	240	12.6
00U-42/74-87	3.86	3.46	1.16	2.26	0.615	0.865	0.0274	0.111	226	14.0
00U-42/87-95	3.82	3.43	1.23	2.22	0.701	0.839	0.0298	0.117	237	13.6
00U-42/95-106	4.48	4.87	1.40	2.55	1.01	0.952	0.0360	0.151	283	20.8
00U-42/106-119	3.95	3.70	1.31	2.26	0.867	0.860	0.0307	0.127	259	13.7
00U-42/119-125	4.26	4.26	1.31	2.47	0.841	0.909	0.0322	0.141	272	18.0
00U-42/125-133	3.80	3.99	1.19	2.20	0.774	0.843	0.0280	0.112	244	12.2

Table 5f-2b. ICP-MS data for auger hole 00U-42.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
00U-42/0-10	< 2	42200	1.4	646	1.2	< 0.06	25600	0.05	26.9	3.0	56.3	1.2
00U-42/10-30	< 2	45000	1.5	669	1.2	< 0.06	28600	0.04	28.3	3.4	56.3	1.4
00U-42/30-50	< 2	53800	2.6	696	1.6	< 0.06	54200	0.04	38.1	4.9	46.5	1.7
00U-42/50-63	<2	39700	2.6	656	1.1	0.06	23000	0.04	31.8	3.5	28.2	1.5
00U-42/63-74	<2	40200	2.4	663	1.1	0.06	27000	0.04	29.6	3.5	17	1.5
00U-42/74-87	<2	38800	2.5	613	1.2	0.06	35200	0.04	32.8	3.5	20.6	1.4
00U-42/87-95	<2	39200	2.6	619	1.1	0.07	35800	0.04	31.2	3.6	29.8	1.4
00U-42/95-106	< 2	55200	2.2	697	1.4	< 0.06	54600	0.04	38.1	5.0	46.6	1.7
00U-42/106-119	<2	42400	3.2	657	1.1	0.06	40200	0.03	32.3	4	28.2	1.5
00U-42/119-125	< 2	53600	2.6	717	1.5	< 0.06	49500	0.04	35.7	4.6	48.0	1.7
00U-42/125-133	<2	38700	2.8	609	1.1	0.06	41100	0.04	28	3.5	21.3	1.4

Table 5f-2b. ICP-MS data for auger hole 00U-42—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
00U42/0-10	13.7	12200	7.1	26600	15.6	11.1	6120	258	0.45	10200	5.3	7.2
00U42/10-30	11.3	12700	7.6	27200	15.9	12.7	6560	273	0.42	10700	5.3	7.9
00U42/30-50	31.0	16500	9.2	29900	21.0	17.0	12500	336	0.30	12100	5.4	10.0
00U42/50-63	13	12200	7.8	23700	17.5	13.1	5520	242	0.58	8940	2.1	7.9
00U42/63-74	12.6	11400	7.8	24400	16.4	12.8	5820	233	0.47	9250	2	7
00U42/74-87	15.7	11300	7.6	22800	17.9	12.7	6660	224	0.4	8940	1.5	6.8
00U42/87-95	16.2	11900	7.9	23000	17.1	12.9	7600	232	0.43	8940	2.3	7.1
00U42/95-106	31.2	16600	9.3	30100	21.2	17.2	12700	339	0.30	12200	5.2	10.1
00U42/106-119	14.6	12900	8.2	24500	17.8	14.4	9410	255	0.49	9510	3.4	8.4
00U42/119-125	13.8	16300	9.0	30400	19.7	16.5	10900	334	0.34	12000	6.3	10.0
00U42/125-133	19	11500	7.5	22300	15.4	12.8	8260	236	0.51	8830	1.2	7.2

Table 5f-2b. ICP-MS data for auger hole 00U-42—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U42/0-10	386	11.5	54.6	0.25	3.4	117	3.59	1710	0.28	0.99	24.7	14.0	16.3
00U42/10-30	372	11.4	56.2	0.26	3.9	127	3.70	1820	0.28	0.98	26.9	14.4	19.0
00U42/30-50	435	12.2	61.7	0.28	5.9	170	4.91	2520	0.32	1.35	41.1	18.6	29.4
00U42/50-63	259	10.7	56.6	0.24	4.2	130	4.58	1190	0.33	1.03	27	12.6	21.3
00U42/63-74	258	10.6	57.3	0.22	4.1	134	4.16	1020	0.33	0.89	27.3	11.1	20.7
00U42/74-87	289	10.2	54.2	0.21	4.2	138	4.98	1040	0.31	1.1	27.6	12	22.3
00U42/87-95	286	10.4	54.1	0.22	4.2	137	4.41	1210	0.31	1.01	30	11.9	21
00U42/95-106	434	12.3	61.6	0.31	6.0	169	4.99	2530	0.32	1.37	41.0	18.6	30.1
00U42/106-119	312	10.8	57.6	0.27	4.8	161	4.79	1140	0.32	1.05	32.4	12.2	23
00U42/119-125	416	12.4	63.2	0.27	5.6	174	4.62	2500	0.32	1.32	39.8	18.8	25.2
00U42/125-133	292	10.1	52.8	0.21	4.2	154	3.76	1040	0.31	0.98	28.8	11.3	20.6

Table 5f-3a. ICP-AES data for auger hole 00U-43.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
00U-43/0-10	3.92	2.24	1.27	2.38	0.768	0.759	0.0457	0.149	344	18.0
00U-43/10-25	3.96	2.85	1.50	2.33	0.838	0.693	0.0421	0.173	350	20.9
00U-43/25-34	3.76	2.74	1.35	2.19	0.746	0.684	0.0298	0.122	307	14.8
00U-43/34-48	4.13	3.56	1.39	2.45	0.736	0.812	0.0304	0.156	264	19.1
00U-43/48-55	3.65	4.69	1.30	2.14	0.937	0.716	0.0310	0.109	288	12.8
00U-43/55-64	3.91	11.2	1.44	2.17	1.68	0.664	0.0395	0.143	381	21.0
00U-43/64-76	3.61	7.54	1.44	1.97	1.43	0.634	0.0403	0.118	370	14.8
00U-43/76-86	3.75	7.37	1.38	2.05	1.62	0.658	0.0387	0.134	340	13.2
00U-43/86-96	3.54	7.47	1.33	1.94	1.89	0.673	0.0363	0.117	351	14.5
00U-43/96-108	4.11	5.68	1.44	2.35	1.88	0.821	0.0422	0.146	396	20.0
00U-43/108-114	4.12	4.99	1.65	2.36	1.72	0.831	0.0403	0.155	385	19.1

Table 5f-3b. ICP-MS data for auger hole 00U-43.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
00U-43/0-10	< 2	51300	2.6	700	1.4	< 0.06	26600	0.08	36.0	4.6	49.2	2.0
00U-43/10-25	< 2	53000	4.7	673	1.4	< 0.06	34700	0.07	42.7	5.6	62.6	2.3
00U-43/25-34	< 2	37800	3.2	578	1.1	0.08	27800	0.04	31.6	4	24	1.8
00U-43/34-48	< 2	52600	3.1	708	1.5	< 0.06	41500	0.04	36.6	5.0	54.6	2.0
00U-43/48-55	< 2	36900	3.2	592	1.1	0.07	48600	0.05	29.7	4.1	20.2	1.6
00U-43/55-64	< 2	46300	4.3	629	1.5	< 0.06	125000	0.05	39.9	5.9	47.7	2.0
00U-43/64-76	< 2	36200	4.2	568	1.2	0.08	79500	0.04	34	5	18.8	1.9
00U-43/76-86	< 2	36100	4.2	768	1.1	0.07	73400	0.04	30.8	4.5	25.6	1.7
00U-43/86-96	< 2	34400	4.6	882	1	0.07	74900	0.04	31.7	4.3	40.2	1.6
00U-43/96-108	< 2	49800	4.6	1010	1.0	< 0.06	64100	0.03	36.9	5.5	51.0	2.0
00U-43/108-114	< 2	50700	4.8	894	1.3	< 0.06	57100	0.04	36.1	5.8	99.8	1.9

Table 5f-3b. ICP-MS data for auger hole 00U-43—Continued.

Sample #	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)
00U-43/0-10	11.7	15000	8.3	30000	20.2	17.2	10100	427	0.41	10300	6.5	9.9
00U-43/10-25	18.6	18800	8.9	30600	23.6	20.1	11300	440	0.54	9590	7.3	11.9
00U-43/25-34	13.1	12800	7.3	22100	17.4	15.5	8240	292	0.53	7370	2.5	8.6
00U-43/34-48	21.8	17100	8.9	30500	20.3	17.4	9540	313	0.47	10800	5.9	10.4
00U-43/48-55	11.5	12600	7.2	22000	16.6	14.2	10300	278	0.39	7580	1.5	7.6
00U-43/55-64	22.8	17300	8.0	24700	22.1	19.2	20800	457	0.36	8120	5.2	10.4
00U-43/64-76	16.1	14000	7.2	19800	18.6	17.4	15300	360	0.42	6750	1	8.9
00U-43/76-86	13.7	13100	7.1	19800	16.8	17.3	17100	322	0.4	6720	1.7	8.1
00U-43/86-96	12.8	12600	6.9	19200	17.2	16.9	19700	334	1.2	6860	1.1	7.9
00U-43/96-108	19.1	17200	8.2	27700	20.4	20.9	23500	474	0.62	10500	5.3	11.1
00U-43/108-114	18.1	20100	8.6	28500	20.0	20.5	22200	469	0.89	10800	4.9	13.8

Table 5f-3b. ICP-MS data for auger hole 00U-43—Continued.

Sample #	P (ppm)	Pb (ppm)	Rb (ppm)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
00U-43/0-10	611	14.0	63.7	0.36	5.3	142	4.81	2500	0.32	1.32	34.2	18.6	27.5
00U-43/10-25	572	14.1	66.6	0.39	6.1	162	5.96	2950	0.34	1.67	41.8	22.3	31.2
00U-43/25-34	308	11	54.5	0.28	4.7	167	4.76	1140	0.34	1.13	29.6	12.5	23.9
00U-43/34-48	392	12.6	63.7	0.32	5.9	204	4.85	2500	0.34	1.30	39.6	18.7	27.4
00U-43/48-55	313	10.3	52.3	0.25	4.8	238	4.35	1060	0.31	1.03	31.6	12.6	21.7
00U-43/55-64	540	11.5	53.3	0.32	6.6	603	5.37	2320	0.27	1.52	43.5	20.9	33.8
00U-43/64-76	412	10	48.6	0.27	5.2	585	5.07	1110	0.29	1.21	36.8	13.2	25.6
00U-43/76-86	366	10	47.8	0.24	5	787	4.49	1250	0.28	1.24	36.3	13	24.7
00U-43/86-96	367	9.6	45.9	0.26	4.8	835	4.75	1140	0.27	1.32	35.9	12.9	22.9
00U-43/96-108	549	12.0	57.7	0.33	6.1	704	4.85	2370	0.30	1.64	49.3	19.0	29.1
00U-43/108-114	536	12.0	58.8	0.38	6.2	865	4.86	2500	0.31	1.68	48.0	19.6	28.4

Table 6. Magnetic properties

[**Sample #:** Unique sample number (e.g. 00U-41A/0-10); presented as sample designation (00U-41), transect sampling location (A), and depth in centimeters (0-10).

MSlf/MShf: Low frequency (lf) and high frequency (hf) magnetic susceptibility in m^3/kg .

FDMS: Frequency-dependent magnetic susceptibility. Expressed in percent and m^3/kg .

ARM: Anhysteretic remanent magnetization in Am²/kg.

IRM 1.2: Isothermal remanent magnetization from induction in a 1.2 tesla field at room temperature. Expressed in Am²/kg.

IRM -0.3: Isothermal remanent magnetization from induction in a -0.3 tesla field at room temperature. Expressed in Am²/kg.

HIRM: Hard isothermal remanent magnetization: HIRM is calculated as: $(IRM_{1.2T} + IRM_{-0.3T})/2$.

S: (S ratio) calculated as $\text{IRM-0.3T}/\text{IRM1.2T}$.

n.d.: not determined]

Table 6a-1. Magnetic properties of the less than 2-mm size fraction for the 00U-29 transect.

[illegible]

Table 6a-2a. Magnetic properties of the less than 2mm size fraction for the 00U-30 transect.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-30A/0-10	3.03E-08	2.98E-08	1.68	5.08E-10	1.19E-05	5.27E-04	2.64E-04	1.31E-04	0.50
00U-30A/10-30	1.34E-08	1.33E-08	0.76	1.02E-10	5.91E-06	5.22E-04	5.38E-05	2.34E-04	0.10
00U-30A/30-40	1.87E-08	1.96E-08	-4.60	-8.63E-10	5.34E-06	3.78E-04	9.04E-05	1.44E-04	0.24
00U-30B/0-10	7.72E-08	7.80E-08	-1.11	-8.59E-10	3.47E-05	1.32E-03	8.27E-04	2.46E-04	0.63
00U-30B/10-30	5.09E-08	5.25E-08	-3.25	-1.65E-09	1.99E-05	8.23E-04	5.00E-04	1.61E-04	0.61
00U-30B/30-50	4.27E-08	4.61E-08	-7.91	-3.38E-09	1.82E-05	6.87E-04	3.74E-04	1.57E-04	0.54
00U-30C/0-10	1.03E-07	9.86E-08	4.40	4.53E-09	4.25E-05	1.56E-03	1.00E-03	2.81E-04	0.64
00U-30C/10-30	1.15E-07	1.09E-07	5.32	6.12E-09	5.30E-05	1.71E-03	1.21E-03	2.52E-04	0.70
00U-30C/30-46	1.28E-07	1.22E-07	4.99	6.38E-09	6.89E-05	1.90E-03	1.38E-03	2.59E-04	0.73
00U-30C/46-62	1.08E-07	1.05E-07	2.24	2.42E-09	7.41E-05	1.61E-03	1.25E-03	1.76E-04	0.78
00U-30C/62-81	1.06E-07	1.04E-07	2.54	2.70E-09	6.60E-05	1.65E-03	1.30E-03	1.78E-04	0.78
00U-30C/81-93	1.08E-07	1.02E-07	5.59	6.06E-09	5.00E-05	1.58E-03	1.27E-03	1.57E-04	0.80
00U-30C/93-104	1.19E-07	1.17E-07	1.77	2.11E-09	4.11E-05	1.77E-03	1.41E-03	1.81E-04	0.80
00U-30C/104-118	1.44E-07	1.40E-07	2.65	3.81E-09	3.87E-05	2.07E-03	1.70E-03	1.84E-04	0.82
00U-30C/118-128	1.75E-07	1.71E-07	1.81	3.16E-09	4.42E-05	2.55E-03	2.01E-03	2.25E-04	0.82
00U-30C/128-142	2.03E-07	2.01E-07	0.77	1.57E-09	4.68E-05	2.99E-03	2.44E-03	2.75E-04	0.82
00U-30D/0-10	8.82E-08	8.02E-08	9.08	8.00E-09	4.19E-05	1.35E-03	9.39E-04	2.07E-04	0.69
00U-30D/10-30	1.12E-07	1.03E-07	7.41	8.27E-09	4.30E-05	1.48E-03	1.06E-03	2.10E-04	0.72
00U-30D/30-50	9.70E-08	9.06E-08	6.65	6.46E-09	4.17E-05	1.40E-03	9.58E-04	2.23E-04	0.68
00U-30E/0-10	1.19E-07	1.15E-07	4.06	4.85E-09	4.19E-05	1.33E-03	1.06E-03	1.34E-04	0.80
00U-30E/10-30	1.34E-07	1.27E-07	5.02	6.71E-09	5.68E-05	1.96E-03	1.38E-03	2.91E-04	0.70
00U-30E/30-50	1.21E-07	1.16E-07	3.90	4.73E-09	5.34E-05	1.74E-03	1.27E-03	2.33E-04	0.73
00U-30F/0-10	1.47E-07	1.43E-07	2.44	3.59E-09	5.84E-05	1.90E-03	1.40E-03	2.46E-04	0.74
00U-30F/10-30	1.01E-07	1.21E-07	-10.16	-1.11E-08	5.70E-05	1.86E-03	1.36E-03	2.47E-04	0.73
00U-30F/30-50	1.29E-07	1.25E-07	2.58	3.32E-09	5.55E-05	1.83E-03	1.37E-03	2.31E-04	0.75
00U-30G/0-10	1.78E-07	1.64E-07	7.58	1.35E-08	7.88E-05	2.45E-03	1.98E-03	2.34E-04	0.81
00U-30G/10-30	1.71E-07	1.61E-07	6.00	1.03E-08	8.18E-05	2.62E-03	1.89E-03	3.65E-04	0.72
00U-30G/30-50	1.80E-07	1.66E-07	7.86	1.42E-08	9.20E-05	2.44E-03	1.84E-03	2.98E-04	0.76
00U-30H/0-10	1.95E-07	1.87E-07	4.24	8.27E-09	6.72E-05	2.26E-03	1.69E-03	2.83E-04	0.75
00U-30H/10-30	1.80E-07	1.77E-07	1.77	3.18E-09	8.30E-05	2.50E-03	1.89E-03	3.09E-04	0.75
00U-30H/30-50	2.44E-07	2.43E-07	0.68	1.65E-09	1.19E-04	2.91E-03	2.64E-03	1.35E-04	0.91
00U-30I/0-10	1.83E-07	1.81E-07	1.20	2.19E-09	7.72E-05	2.57E-03	1.94E-03	3.16E-04	0.75
00U-30I/10-30	1.95E-07	1.95E-07	0.26	5.12E-10	8.72E-05	2.84E-03	2.12E-03	3.59E-04	0.75
00U-30I/30-50	2.31E-07	2.19E-07	5.48	1.27E-08	1.21E-04	3.20E-03	2.62E-03	2.90E-04	0.82
00U-30J/0-10	1.83E-07	1.77E-07	3.21	5.87E-09	8.10E-05	2.88E-03	2.15E-03	3.62E-04	0.75
00U-30J/10-30	1.77E-07	1.71E-07	3.60	6.39E-09	8.62E-05	2.59E-03	1.93E-03	3.31E-04	0.75
00U-30J/30-50	1.82E-07	1.70E-07	6.27	1.14E-08	1.01E-04	2.54E-03	1.97E-03	2.83E-04	0.78
00U-30K/0-10	1.90E-07	1.85E-07	2.51	4.78E-09	8.77E-05	3.02E-03	2.20E-03	4.08E-04	0.73
00U-30K/10-30	2.13E-07	2.04E-07	4.24	9.05E-09	1.08E-04	3.04E-03	2.38E-03	3.32E-04	0.78
00U-30K/30-50	2.53E-07	2.48E-07	1.94	4.89E-09	1.53E-04	3.51E-03	2.91E-03	3.02E-04	0.83
00U-30L/0-10	1.73E-07	1.73E-07	0.37	6.46E-10	7.43E-05	2.87E-03	2.14E-03	3.65E-04	0.75
00U-30L/10-30	1.68E-07	1.66E-07	1.08	1.82E-09	8.67E-05	2.43E-03	1.81E-03	3.01E-04	0.75
00U-30L/30-50	1.70E-07	1.62E-07	4.54	7.70E-09	1.07E-04	2.43E-03	1.95E-03	2.42E-04	0.80
00U-30M/0-10	1.95E-07	1.89E-07	3.31	6.46E-09	9.73E-05	3.03E-03	2.30E-03	3.66E-04	0.76
00U-30M/10-30	1.91E-07	1.80E-07	5.55	1.06E-08	9.90E-05	2.77E-03	2.11E-03	3.29E-04	0.76
00U-30M/30-47	2.11E-07	1.95E-07	7.71	1.63E-08	1.08E-04	2.94E-03	2.32E-03	3.10E-04	0.79
00U-30M/47-61	2.22E-07	2.11E-07	5.02	1.12E-08	1.28E-04	3.14E-03	2.51E-03	3.13E-04	0.80
00U-30M/61-74	2.41E-07	2.29E-07	4.94	1.19E-08	1.59E-04	3.38E-03	2.87E-03	2.55E-04	0.85
00U-30M/74-89	2.31E-07	2.26E-07	2.40	5.54E-09	1.34E-04	3.17E-03	2.75E-03	2.11E-04	0.87
00U-30M/89-106	3.51E-07	3.41E-07	2.86	1.01E-08	1.12E-04	4.76E-03	4.01E-03	3.33E-04	0.86
00U-30M/106-118	4.19E-07	4.09E-07	2.54	1.06E-08	1.05E-04	6.13E-03	5.36E-03	3.87E-04	0.87
00U-30M/118-131	3.02E-07	2.93E-07	2.98	9.01E-09	8.39E-05	4.38E-03	3.74E-03	3.19E-04	0.85
00U-30M/131-144	2.74E-07	2.65E-07	3.33	9.12E-09	7.85E-05	3.75E-03	3.17E-03	2.87E-04	0.85

Table 6a-2b. Magnetic properties of the less than 63-micron size fraction for the 00U-30 transect.

Sample #	MSlf (m³/kg)	MShf (m³/kg)	FDMS (%)	FDMS (m³/kg)	ARM (Am²/kg)	IRM1.2 (Am²/kg)	IRM -0.3 (Am²/kg)	HIRM (Am²/kg)	S
00U-30A/0-10	1.77E-07	1.80E-07	-1.67	-2.97E-09	4.10E-05	2.92E-03	1.84E-03	5.41E-04	0.63
00U-30A/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30A/30-40	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30B/0-10	2.79E-07	2.77E-07	0.98	2.74E-09	8.07E-05	4.55E-03	3.28E-03	6.38E-04	0.72
00U-30B/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30B/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30C/0-10	2.86E-07	3.24E-07	-13.33	-3.81E-08	8.69E-05	4.74E-03	3.55E-03	5.94E-04	0.75
00U-30C/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30C/30-46	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30C/46-62	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30C/62-81	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30C/81-93	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30C/93-104	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30C/104-118	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30C/118-128	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30C/128-142	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30D/0-10	3.36E-07	3.32E-07	1.20	4.04E-09	9.88E-05	5.27E-03	3.96E-03	6.54E-04	0.75
00U-30D/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30D/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30E/0-10	3.39E-07	3.33E-07	1.78	6.02E-09	1.07E-04	5.31E-03	4.00E-03	6.56E-04	0.75
00U-30E/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30E/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30F/0-10	3.48E-07	3.42E-07	1.76	6.13E-09	1.13E-04	5.41E-03	4.01E-03	6.57E-04	0.76
00U-30F/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30F/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30G/0-10	3.58E-07	3.51E-07	2.13	7.63E-09	1.27E-04	5.60E-03	4.29E-03	6.58E-04	0.77
00U-30G/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30G/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30H/0-10	3.96E-07	3.90E-07	1.32	5.23E-09	1.23E-04	5.97E-03	4.58E-03	6.92E-04	0.77
00U-30H/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30H/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30I/0-10	3.57E-07	3.51E-07	1.68	6.02E-09	1.22E-04	5.67E-03	4.34E-03	6.65E-04	0.77
00U-30I/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30I/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30J/0-10	3.59E-07	3.53E-07	1.85	6.63E-09	1.23E-04	5.58E-03	4.26E-03	6.64E-04	0.76
00U-30J/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30J/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30K/0-10	3.60E-07	3.55E-07	1.48	5.34E-09	1.31E-04	5.87E-03	4.47E-03	7.00E-04	0.76
00U-30K/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30K/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30L/0-10	3.80E-07	3.72E-07	1.95	7.41E-09	1.33E-04	5.81E-03	4.41E-03	6.99E-04	0.76
00U-30L/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30L/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30M/0-10	3.70E-07	3.64E-07	1.72	6.37E-09	1.31E-04	5.83E-03	4.48E-03	6.75E-04	0.77
00U-30M/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30M/30-47	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30M/47-61	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30M/61-74	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30M/74-89	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30M/89-106	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30M/106-118	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30M/118-131	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-30M/131-144	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Table 6a-3a. Magnetic properties of the less than 2-mm size fraction for soil pit VP-1.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
VP-1/0-6	2.03E-07	2.06E-07	-1.46	-2.96E-09	8.66E-05	3.25E-03	2.48E-03	3.84E-04	0.76
VP-1/6-19	2.23E-07	2.26E-07	-1.62	-3.62E-09	9.83E-05	3.28E-03	2.48E-03	4.03E-04	0.75
VP-1/19-30	2.43E-07	2.49E-07	-2.27	-5.52E-09	1.19E-04	3.55E-03	2.81E-03	3.74E-04	0.79
VP-1/30-55	3.32E-07	3.37E-07	-1.57	-5.21E-09	1.57E-04	4.74E-03	3.96E-03	3.90E-04	0.84
VP-1/55-66	3.82E-07	3.87E-07	-1.20	-4.59E-09	1.10E-04	5.59E-03	4.85E-03	3.67E-04	0.87
VP-1/66-78	3.42E-07	3.42E-07	0.16	5.64E-10	9.97E-05	5.01E-03	4.30E-03	3.59E-04	0.86
VP-1/80-90	2.50E-07	2.51E-07	-0.19	-4.77E-10	7.09E-05	3.57E-03	3.04E-03	2.62E-04	0.85

Table 6a-3b. Magnetic properties of the less than 63-micron size fraction for soil pit VP-1.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
VP-1/0-6	4.63E-07	4.71E-07	-1.89	-8.75E-09	1.41E-04	7.03E-03	5.41E-03	8.12E-04	0.77
VP-1/6-19	4.08E-07	4.15E-07	-1.80	-7.36E-09	1.34E-04	5.93E-03	4.49E-03	7.21E-04	0.76
VP-1/19-30	4.70E-07	4.78E-07	-1.68	-7.88E-09	1.65E-04	6.67E-03	5.27E-03	6.99E-04	0.79
VP-1/30-55	7.00E-07	7.11E-07	-1.55	-1.09E-08	2.32E-04	9.60E-03	8.11E-03	7.47E-04	0.84
VP-1/55-66	7.78E-07	7.86E-07	-0.95	-7.36E-09	1.88E-04	1.08E-02	9.55E-03	6.47E-04	0.88
VP-1/66-78	6.26E-07	6.30E-07	-0.65	-4.09E-09	1.51E-04	8.79E-03	7.72E-03	5.38E-04	0.88
VP-1/80-90	5.47E-07	5.52E-07	-0.79	-4.30E-09	1.26E-04	7.51E-03	6.42E-03	5.44E-04	0.86

Table 6a-4a. Magnetic properties of the less than 2-mm size fraction for soil pit VP-2.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
VP-2/0-5	2.23E-07	2.27E-07	-2.01	-4.47E-09	1.05E-04	3.59E-03	2.75E-03	4.19E-04	0.77
VP-2/5-14	2.27E-07	2.32E-07	-2.11	-4.79E-09	1.09E-04	3.59E-03	2.73E-03	4.31E-04	0.76
VP-2/14-44	2.15E-07	2.19E-07	-1.61	-3.46E-09	1.06E-04	3.21E-03	2.45E-03	3.81E-04	0.76
VP-2/44-55	2.31E-07	2.34E-07	-1.21	-2.79E-09	1.25E-04	3.42E-03	2.70E-03	3.62E-04	0.79
VP-2/55-85	3.19E-07	3.27E-07	-2.34	-7.47E-09	1.92E-04	4.67E-03	3.87E-03	4.01E-04	0.83
VP-2/110-115	2.47E-07	2.49E-07	-1.12	-2.76E-09	8.75E-05	3.47E-03	2.86E-03	3.07E-04	0.82

Table 6a-4b. Magnetic properties of the less than 63-micron size fraction for soil pit VP-2.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
VP-2/0-5	3.81E-07	3.90E-07	-2.36	-8.97E-09	1.39E-04	5.91E-03	4.54E-03	6.84E-04	0.77
VP-2/5-14	4.14E-07	4.22E-07	-2.04	-8.46E-09	1.45E-04	6.34E-03	4.86E-03	7.40E-04	0.77
VP-2/14-44	3.94E-07	4.00E-07	-1.64	-6.45E-09	1.50E-04	5.79E-03	4.46E-03	6.67E-04	0.77
VP-2/44-55	4.73E-07	4.82E-07	-1.80	-8.52E-09	1.86E-04	6.72E-03	5.39E-03	6.62E-04	0.80
VP-2/55-85	6.06E-07	6.19E-07	-2.21	-1.34E-08	2.76E-04	8.63E-03	7.24E-03	6.97E-04	0.84
VP-2/110-115	5.63E-07	5.70E-07	-1.38	-7.75E-09	1.57E-04	7.57E-03	6.23E-03	6.68E-04	0.82

Table 6a-5. Magnetic properties of the less than 2-mm size fraction for auger hole 8U-10.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
8U-10/0-22	2.52E-07	2.44E-07	3.35	8.43E-09	1.22E-04	3.87E-03	3.01E-03	4.30E-04	0.78
8U-10/22-36	2.50E-07	2.42E-07	3.23	8.09E-09	1.17E-04	3.56E-03	2.70E-03	4.27E-04	0.76
8U-10/36-47	3.57E-07	3.44E-07	3.77	1.35E-08	1.88E-04	4.84E-03	4.00E-03	4.17E-04	0.83
8U-10/47-58	4.16E-07	4.02E-07	3.24	1.35E-08	1.77E-04	5.70E-03	4.81E-03	4.42E-04	0.84
8U-10/58-65	4.61E-07	4.47E-07	3.00	1.38E-08	1.65E-04	6.36E-03	5.42E-03	4.70E-04	0.85
8U-10/65-74	4.39E-07	4.29E-07	2.29	1.00E-08	1.43E-04	6.16E-03	5.29E-03	4.36E-04	0.86
8U-10/74-83	4.05E-07	3.95E-07	2.64	1.07E-08	1.17E-04	5.63E-03	4.79E-03	4.22E-04	0.85
8U-10/83-90	3.85E-07	3.73E-07	2.89	1.11E-08	1.07E-04	5.24E-03	4.43E-03	4.02E-04	0.85
8U-10/90-99	3.42E-07	3.33E-07	2.63	8.98E-09	9.33E-05	4.59E-03	3.83E-03	3.79E-04	0.83
8U-10/99-112	2.79E-07	2.70E-07	3.14	8.75E-09	7.77E-05	3.70E-03	3.01E-03	3.47E-04	0.81
8U-10/112-121	2.32E-07	2.23E-07	3.55	8.23E-09	6.94E-05	3.15E-03	2.47E-03	3.39E-04	0.79
8U-10/121-131	1.87E-07	1.80E-07	3.69	6.91E-09	5.75E-05	2.54E-03	1.94E-03	3.01E-04	0.76
8U-10/131-142	1.61E-07	1.57E-07	2.92	4.71E-09	4.97E-05	2.29E-03	1.65E-03	3.17E-04	0.72
8U-10/142-154	1.60E-07	1.55E-07	3.41	5.46E-09	4.76E-05	2.24E-03	1.63E-03	3.04E-04	0.73
8U-10/154-165	1.72E-07	1.67E-07	3.05	5.25E-09	5.32E-05	2.38E-03	1.75E-03	3.16E-04	0.73
8U-10/165-175	1.66E-07	1.63E-07	1.64	2.72E-09	5.10E-05	2.21E-03	1.63E-03	2.92E-04	0.74
8U-10/175-184	1.75E-07	1.71E-07	2.00	3.50E-09	6.00E-05	2.53E-03	1.85E-03	3.43E-04	0.73
8U-10/184-197	1.67E-07	1.61E-07	3.66	6.11E-09	5.78E-05	2.40E-03	1.72E-03	3.41E-04	0.72
8U-10/197-209	1.52E-07	1.51E-07	1.11	1.69E-09	5.21E-05	2.14E-03	1.55E-03	2.94E-04	0.73
8U-10/209-220	1.26E-07	1.23E-07	2.37	2.99E-09	4.46E-05	1.77E-03	1.28E-03	2.43E-04	0.72
8U-10/220-230	9.38E-08	9.24E-08	1.57	1.47E-09	3.39E-05	1.35E-03	9.43E-04	2.05E-04	0.70
8U-10/230-241	6.20E-08	6.16E-08	0.71	4.42E-10	2.25E-05	9.87E-04	6.21E-04	1.83E-04	0.63
8U-10/241-249	1.14E-07	1.13E-07	0.79	9.06E-10	4.20E-05	1.69E-03	1.21E-03	2.37E-04	0.72
8U-10/249-261	5.49E-08	5.52E-08	-0.62	-3.40E-10	1.92E-05	9.00E-04	5.50E-04	1.75E-04	0.61
8U-10/261-270	9.55E-08	9.44E-08	1.19	1.14E-09	3.20E-05	1.46E-03	1.04E-03	2.09E-04	0.71
8U-10/270-274	7.65E-08	7.57E-08	1.00	7.61E-10	2.90E-05	1.20E-03	8.40E-04	1.78E-04	0.70
8U-10/274-284	6.38E-08	6.35E-08	0.35	2.20E-10	2.50E-05	1.05E-03	7.03E-04	1.72E-04	0.67

Table 6a-6. Magnetic properties of the less than 2-mm size fraction for auger hole 8U-11.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
8U-11/0-22	1.97E-07	1.92E-07	0.00	2.54E+00	8.04E-05	2.84E-03	2.11E-03	3.66E-04	0.74
8U-11/22-38	2.15E-07	2.07E-07	0.00	3.42E+00	9.15E-05	2.98E-03	2.21E-03	3.85E-04	0.74
8U-11/38-50	2.87E-07	2.79E-07	0.00	2.64E+00	1.39E-04	3.93E-03	3.17E-03	3.81E-04	0.81
8U-11/50-62	3.07E-07	3.01E-07	0.00	1.92E+00	1.22E-04	4.23E-03	3.53E-03	3.46E-04	0.84
8U-11/62-71	3.51E-07	3.44E-07	0.00	1.88E+00	1.00E-04	4.82E-03	4.15E-03	3.37E-04	0.86
8U-11/71-86	3.48E-07	3.41E-07	0.00	1.85E+00	8.92E-05	4.84E-03	4.18E-03	3.27E-04	0.86
8U-11/86-98	3.30E-07	3.24E-07	0.00	1.77E+00	8.58E-05	4.42E-03	3.96E-03	2.29E-04	0.90
8U-11/98-109	2.60E-07	2.59E-07	0.00	5.82E-01	7.20E-05	3.64E-03	3.01E-03	2.73E-04	0.85
8U-11/109-118	2.70E-07	2.65E-07	0.00	1.79E+00	7.45E-05	3.70E-03	3.14E-03	2.83E-04	0.85
8U-11/118-131	2.20E-07	2.17E-07	0.00	1.27E+00	6.48E-05	3.05E-03	2.51E-03	2.70E-04	0.82
8U-11/131-139	1.63E-07	1.61E-07	0.00	7.29E-01	5.35E-05	2.28E-03	1.79E-03	2.47E-04	0.78
8U-11/139-151	1.18E-07	1.17E-07	0.00	1.00E+00	4.38E-05	1.65E-03	1.24E-03	2.05E-04	0.75
8U-11/151-161	1.05E-07	1.04E-07	0.00	5.88E-01	4.04E-05	1.46E-03	1.09E-03	1.87E-04	0.74
8U-11/161-172	1.70E-07	1.66E-07	0.00	2.08E+00	5.50E-05	2.31E-03	1.79E-03	2.57E-04	0.78
8U-11/172-183	1.87E-07	1.83E-07	0.00	2.14E+00	5.68E-05	2.52E-03	1.97E-03	2.75E-04	0.78
8U-11/183-196	3.12E-07	3.07E-07	0.00	1.49E+00	7.46E-05	4.06E-03	3.33E-03	3.62E-04	0.82
8U-11/196-210	2.19E-07	2.15E-07	0.00	1.78E+00	6.27E-05	2.92E-03	2.25E-03	3.35E-04	0.77
8U-11/210-224	2.00E-07	1.96E-07	0.00	1.90E+00	6.08E-05	2.64E-03	2.02E-03	3.07E-04	0.77
8U-11/224-237	1.90E-07	1.85E-07	0.00	2.38E+00	5.99E-05	2.51E-03	1.90E-03	3.02E-04	0.76
8U-11/237-251	1.91E-07	1.89E-07	0.00	1.24E+00	5.92E-05	2.48E-03	1.88E-03	3.02E-04	0.76
8U-11/251-265	1.96E-07	1.93E-07	0.00	1.80E+00	6.32E-05	2.58E-03	1.96E-03	3.12E-04	0.76
8U-11/265-278	1.99E-07	1.96E-07	0.00	1.58E+00	6.67E-05	2.69E-03	2.03E-03	3.34E-04	0.75

Table 6a-7. Magnetic properties of the less than 2-mm size fraction for auger hole 8U-12.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
8U-12/0-13	1.98E-07	1.92E-07	0.00	2.81E+00	9.59E-05	2.93E-03	2.15E-03	3.91E-04	0.73
8U-12/13-27	2.05E-07	1.99E-07	0.00	3.31E+00	1.02E-04	2.89E-03	2.13E-03	3.80E-04	0.74
8U-12/27-37	2.11E-07	2.04E-07	0.00	3.56E+00	1.08E-04	2.99E-03	2.25E-03	3.68E-04	0.75
8U-12/37-48	2.30E-07	2.24E-07	0.00	2.82E+00	1.30E-04	3.20E-03	2.52E-03	3.41E-04	0.79
8U-12/48-60	2.05E-07	1.99E-07	0.00	3.34E+00	1.18E-04	2.87E-03	2.27E-03	3.01E-04	0.79
8U-12/60-71	1.85E-07	1.82E-07	0.00	1.70E+00	8.42E-05	2.56E-03	2.01E-03	2.34E-04	0.82
8U-12/71-83	2.88E-07	2.83E-07	0.00	1.88E+00	8.45E-05	3.98E-03	3.37E-03	3.06E-04	0.85
8U-12/83-96	3.61E-07	3.56E-07	0.00	1.54E+00	9.07E-05	5.07E-03	4.37E-03	3.46E-04	0.86
8U-12/96-106	3.02E-07	2.95E-07	0.00	2.15E+00	8.29E-05	4.35E-03	3.74E-03	3.04E-04	0.86
8U-12/106-116	1.67E-07	1.63E-07	0.00	1.91E+00	5.29E-05	2.45E-03	2.01E-03	2.22E-04	0.82
8U-12/116-128	1.54E-07	1.52E-07	0.00	1.16E+00	4.89E-05	2.27E-03	1.83E-03	2.17E-04	0.81
8U-12/128-137	1.44E-07	1.42E-07	0.00	1.26E+00	4.62E-05	2.13E-03	1.70E-03	2.12E-04	0.80
8U-12/137-147	1.44E-07	1.42E-07	0.00	1.40E+00	4.78E-05	2.14E-03	1.72E-03	2.12E-04	0.80
8U-12/147-158	1.30E-07	1.28E-07	0.00	1.13E+00	4.06E-05	1.88E-03	1.47E-03	2.06E-04	0.78
8U-12/158-170	1.53E-07	1.50E-07	0.00	2.19E+00	4.69E-05	2.17E-03	1.68E-03	2.46E-04	0.77
8U-12/170-180	1.73E-07	1.70E-07	0.00	1.95E+00	5.13E-05	2.44E-03	1.90E-03	2.67E-04	0.78
8U-12/180-191	2.62E-07	2.58E-07	0.00	1.65E+00	6.57E-05	3.52E-03	2.88E-03	3.20E-04	0.82
8U-12/191-203	2.17E-07	2.12E-07	0.00	2.32E+00	6.02E-05	2.97E-03	2.31E-03	3.26E-04	0.78
8U-12/203-216	2.04E-07	2.01E-07	0.00	1.21E+00	5.94E-05	2.78E-03	2.13E-03	3.27E-04	0.77
8U-12/216-227	1.78E-07	1.76E-07	0.00	1.41E+00	5.45E-05	2.48E-03	1.89E-03	2.93E-04	0.76
8U-12/227-239	1.36E-07	1.36E-07	0.00	5.65E-01	4.20E-05	1.94E-03	1.45E-03	2.48E-04	0.75
8U-12/239-251	9.63E-08	9.59E-08	0.00	3.94E-01	3.05E-05	1.47E-03	9.59E-04	2.53E-04	0.65
8U-12/251-262	9.47E-08	9.44E-08	0.00	3.61E-01	3.14E-05	1.47E-03	9.91E-04	2.38E-04	0.68
8U-12/262-273	7.98E-08	7.78E-08	0.00	2.54E+00	2.45E-05	1.22E-03	7.88E-04	2.16E-04	0.65
8U-12/273-279	8.24E-08	7.92E-08	0.00	3.94E+00	2.73E-05	1.31E-03	8.72E-04	2.18E-04	0.67
8U-12/279-290	5.65E-08	5.67E-08	-0.00	-3.90E-01	2.02E-05	9.51E-04	5.38E-04	2.06E-04	0.57
8U-12/290-299	7.30E-08	7.10E-08	0.00	2.77E+00	2.76E-05	1.16E-03	7.31E-04	2.16E-04	0.63
8U-12/299-310	6.88E-08	6.52E-08	0.00	5.22E+00	2.46E-05	1.11E-03	7.18E-04	1.99E-04	0.64
8U-12/310-317	7.53E-08	7.14E-08	0.00	5.15E+00	2.74E-05	1.22E-03	8.32E-04	1.96E-04	0.68

Table 6a-8. Magnetic properties of the less than 2-mm size fraction for auger hole 9U-22.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
9U-22/0-15	2.21E-07	2.14E-07	3.04	6.72E-09	9.99E-05	3.19E-03	2.38E-03	4.07E-04	0.75
9U-22/15-27	2.28E-07	2.24E-07	2.03	4.63E-09	1.08E-04	3.28E-03	2.50E-03	3.93E-04	0.76
9U-22/27-41	2.80E-07	2.74E-07	2.01	5.88E-09	1.37E-04	3.80E-03	3.01E-03	3.51E-04	0.82
9U-22/41-53	3.48E-07	3.39E-07	2.43	8.45E-09	1.81E-04	4.79E-03	4.08E-03	3.55E-04	0.85
9U-22/53-67	3.68E-07	3.59E-07	2.43	8.94E-09	1.41E-04	5.00E-03	4.32E-03	3.41E-04	0.86
9U-22/67-75	3.33E-07	3.28E-07	1.63	5.42E-09	1.20E-04	4.91E-03	4.19E-03	3.61E-04	0.85
9U-22/75-87	2.62E-07	2.57E-07	1.85	4.84E-09	8.92E-05	3.85E-03	3.24E-03	3.05E-04	0.84
9U-22/87-97	2.40E-07	2.34E-07	2.83	6.81E-09	7.35E-05	3.38E-03	2.85E-03	2.68E-04	0.84
9U-22/97-107	1.95E-07	1.91E-07	2.26	4.41E-09	5.82E-05	2.74E-03	2.24E-03	2.48E-04	0.82
9U-22/107-116	1.67E-07	1.63E-07	2.40	4.02E-09	4.93E-05	2.44E-03	1.95E-03	2.44E-04	0.80
9U-22/116-124	1.61E-07	1.59E-07	1.35	2.18E-09	5.90E-05	2.22E-03	1.77E-03	2.22E-04	0.80
9U-22/124-136	1.45E-07	1.40E-07	3.44	4.99E-09	4.68E-05	2.06E-03	1.61E-03	2.25E-04	0.78
9U-22/136-146	1.12E-07	1.11E-07	0.98	1.10E-09	3.93E-05	1.58E-03	1.21E-03	1.81E-04	0.77
9U-22/146-156	1.16E-07	1.17E-07	-0.78	-9.08E-10	4.24E-05	1.63E-03	1.28E-03	1.80E-04	0.78
9U-22/156-165	1.61E-07	1.57E-07	2.92	4.72E-09	3.17E-05	2.26E-03	1.83E-03	2.13E-04	0.81
9U-22/165-178	2.67E-07	2.63E-07	1.35	3.61E-09	5.71E-05	3.35E-03	2.83E-03	2.60E-04	0.85
9U-22/178-190	2.30E-07	2.25E-07	2.45	5.65E-09	5.30E-05	3.18E-03	2.60E-03	2.89E-04	0.82
9U-22/190-204	1.99E-07	1.97E-07	1.06	2.11E-09	5.39E-05	2.72E-03	2.11E-03	3.04E-04	0.78
9U-22/204-216	2.07E-07	2.04E-07	1.27	2.62E-09	4.84E-05	2.85E-03	2.25E-03	3.00E-04	0.79
9U-22/216-229	2.21E-07	2.19E-07	0.95	2.01E-09	5.66E-05	3.15E-03	2.43E-03	3.60E-04	0.77
9U-22/229-240	2.06E-07	2.04E-07	1.23	2.53E-09	6.22E-05	2.84E-03	2.19E-03	3.23E-04	0.77
9U-22/240-254	1.90E-07	1.88E-07	1.32	2.50E-09	5.29E-05	2.51E-03	1.94E-03	2.85E-04	0.77
9U-22/254-265	2.05E-07	1.89E-07	7.65	1.57E-08	5.55E-05	2.61E-03	2.03E-03	2.87E-04	0.78
9U-22/265-274	1.87E-07	1.85E-07	0.97	1.82E-09	5.98E-05	2.65E-03	2.02E-03	3.17E-04	0.76
9U-22/274-283	1.81E-07	1.77E-07	2.00	3.61E-09	7.01E-05	2.65E-03	1.95E-03	3.53E-04	0.73
9U-22/283-295	1.75E-07	1.71E-07	2.38	4.16E-09	6.84E-05	2.36E-03	1.67E-03	3.43E-04	0.71
9U-22/295-305	1.83E-07	1.73E-07	5.66	1.04E-08	7.77E-05	2.58E-03	1.92E-03	3.31E-04	0.74
9U-22/305-314	1.87E-07	1.84E-07	1.96	3.68E-09	8.88E-05	2.66E-03	2.03E-03	3.14E-04	0.76
9U-22/314-325	1.70E-07	1.68E-07	1.21	2.05E-09	9.00E-05	2.33E-03	1.77E-03	2.78E-04	0.76
9U-22/325-335	1.55E-07	1.52E-07	1.99	3.09E-09	8.30E-05	2.16E-03	1.64E-03	2.58E-04	0.76
9U-22/335-343	1.33E-07	1.31E-07	1.81	2.40E-09	7.20E-05	1.88E-03	1.42E-03	2.30E-04	0.76
9U-22/343-354	1.20E-07	1.18E-07	1.10	1.32E-09	5.54E-05	1.71E-03	1.27E-03	2.20E-04	0.74
9U-22/354-364	1.19E-07	1.19E-07	0.28	3.32E-10	5.79E-05	1.73E-03	1.30E-03	2.13E-04	0.75
9U-22/364-372	1.05E-07	1.06E-07	-0.41	-4.36E-10	4.98E-05	1.55E-03	1.16E-03	1.98E-04	0.75
9U-22/372-383	8.33E-08	8.45E-08	-1.44	-1.20E-09	2.92E-05	1.20E-03	8.82E-04	1.58E-04	0.74

Table 6a-9. Magnetic properties of the less than 2-mm size fraction for auger hole 9U-23.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
9U-23/0-22	1.44E-07	1.44E-07	0.52	7.50E-10	6.66E-05	2.08E-03	1.53E-03	2.80E-04	0.73
9U-23/22-23	1.67E-07	1.66E-07	0.76	1.26E-09	6.82E-05	2.11E-03	1.57E-03	2.73E-04	0.74
9U-23/33-46	1.94E-07	1.91E-07	1.55	3.00E-09	8.77E-05	2.73E-03	2.01E-03	3.18E-04	0.77
9U-23/46-58	2.48E-07	2.44E-07	1.34	3.33E-09	1.11E-04	3.39E-03	2.84E-03	2.73E-04	0.84
9U-23/58-67	2.58E-07	2.54E-07	1.30	3.34E-09	1.09E-04	3.61E-03	3.01E-03	2.54E-04	0.86
9U-23/67-75	2.41E-07	2.38E-07	1.36	3.27E-09	9.86E-05	3.44E-03	2.89E-03	2.73E-04	0.84
9U-23/75-83	2.30E-07	2.29E-07	0.81	1.88E-09	8.29E-05	3.33E-03	2.79E-03	2.71E-04	0.84
9U-23/83-96	1.93E-07	1.93E-07	0.04	7.96E-11	6.89E-05	2.75E-03	2.24E-03	2.52E-04	0.82
9U-23/96-105	1.64E-07	1.62E-07	0.95	1.55E-09	6.47E-05	2.35E-03	1.90E-03	2.24E-04	0.81
9U-23/105-115	1.24E-07	1.24E-07	0.02	2.35E-11	5.31E-05	1.74E-03	1.37E-03	1.84E-04	0.79
9U-23/115-125	1.26E-07	1.26E-07	0.46	5.81E-10	5.19E-05	1.77E-03	1.37E-03	2.00E-04	0.77
9U-23/125-138	1.23E-07	1.23E-07	-0.15	-1.84E-10	4.78E-05	1.68E-03	1.28E-03	2.00E-04	0.76
9U-23/138-148	1.37E-07	1.37E-07	-0.19	-2.63E-10	5.27E-05	1.94E-03	1.49E-03	2.23E-04	0.77
9U-23/148-159	1.25E-07	1.25E-07	-0.49	-6.08E-10	4.81E-05	1.72E-03	1.31E-03	2.05E-04	0.76
9U-23/159-171	1.22E-07	1.22E-07	0.19	2.31E-10	5.55E-05	1.72E-03	1.23E-03	2.47E-04	0.71
9U-23/171-182	1.63E-07	1.62E-07	0.98	1.60E-09	7.61E-05	2.26E-03	1.67E-03	2.96E-04	0.74
9U-23/182-192	1.72E-07	1.70E-07	1.26	2.17E-09	7.92E-05	2.35E-03	1.76E-03	2.94E-04	0.75
9U-23/192-201	1.63E-07	1.61E-07	1.14	1.85E-09	7.89E-05	2.26E-03	1.68E-03	2.92E-04	0.74
9U-23/201-208	1.43E-07	1.42E-07	0.96	1.38E-09	7.16E-05	2.05E-03	1.51E-03	2.70E-04	0.74
9U-23/208-218	1.17E-07	1.17E-07	0.09	1.06E-10	5.38E-05	1.64E-03	1.23E-03	2.07E-04	0.75
9U-23/218-228	9.39E-08	9.49E-08	-1.09	-1.02E-09	3.98E-05	1.34E-03	10.00E-04	1.69E-04	0.75
9U-23/228-236	1.00E-07	1.01E-07	-0.89	-8.92E-10	4.01E-05	1.40E-03	1.06E-03	1.68E-04	0.76
9U-23/236-248	9.34E-08	9.45E-08	-1.24	-1.16E-09	3.62E-05	1.32E-03	9.98E-04	1.60E-04	0.76
9U-23/248-260	7.91E-08	8.03E-08	-1.61	-1.27E-09	3.14E-05	1.11E-03	8.13E-04	1.48E-04	0.73
9U-23/260-270	8.51E-08	8.67E-08	-1.85	-1.57E-09	3.35E-05	1.12E-03	8.13E-04	1.51E-04	0.73
9U-23/270-280	1.22E-07	1.23E-07	-0.38	-4.70E-10	4.43E-05	1.73E-03	1.34E-03	1.92E-04	0.78
9U-23/280-290	9.71E-08	9.84E-08	-1.32	-1.28E-09	4.04E-05	1.39E-03	1.09E-03	1.50E-04	0.78
9U-23/290-298	2.43E-08	2.67E-08	-9.95	-2.41E-09	1.64E-05	3.47E-04	2.57E-04	4.48E-05	0.74

Table 6a-10a. Magnetic properties of the less than 2-mm size fraction for auger hole 00U-27.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-27/0-10	2.19E-07	2.12E-07	3.11	6.79E-09	9.54E-05	3.25E-03	2.46E-03	3.97E-04	0.76
00U-27/10-30	2.36E-07	2.29E-07	2.98	7.03E-09	1.06E-04	3.30E-03	2.51E-03	3.97E-04	0.76
00U-27/30-50	2.39E-07	2.32E-07	2.68	6.40E-09	1.09E-04	3.28E-03	2.57E-03	3.55E-04	0.78
00U-27/50-65	2.88E-07	2.81E-07	2.45	7.05E-09	1.43E-04	4.07E-03	3.25E-03	4.08E-04	0.80
00U-27/65-84	3.83E-07	3.70E-07	3.51	1.34E-08	2.29E-04	5.49E-03	4.67E-03	4.01E-04	0.85
00U-27/84-100	4.40E-07	4.24E-07	3.68	1.62E-08	2.54E-04	6.01E-03	5.14E-03	4.80E-04	0.84
00U-27/100-116	4.68E-07	4.56E-07	2.57	1.20E-08	1.82E-04	6.47E-03	5.60E-03	4.36E-04	0.87
00U-27/116-128	4.17E-07	4.09E-07	1.99	8.28E-09	1.48E-04	5.81E-03	4.98E-03	4.17E-04	0.86
00U-27/128-141	4.17E-07	4.12E-07	1.28	5.35E-09	1.21E-04	5.76E-03	5.06E-03	3.48E-04	0.88
00U-27/141-156	3.18E-07	3.14E-07	1.11	3.54E-09	8.92E-05	4.22E-03	3.53E-03	3.47E-04	0.84
00U-27/156-168	2.49E-07	2.47E-07	0.66	1.64E-09	6.80E-05	3.26E-03	2.66E-03	2.99E-04	0.82
00U-27/168-179	2.14E-07	2.11E-07	1.38	2.96E-09	6.46E-05	2.85E-03	2.26E-03	2.97E-04	0.79
00U-27/179-194	1.56E-07	1.56E-07	0.36	5.58E-10	4.79E-05	2.11E-03	1.61E-03	2.53E-04	0.76
00U-27/194-208	1.50E-07	1.49E-07	0.55	8.26E-10	4.58E-05	2.05E-03	1.50E-03	2.73E-04	0.73
00U-27/208-221	1.52E-07	1.51E-07	0.99	1.50E-09	5.17E-05	2.09E-03	1.52E-03	2.85E-04	0.73
00U-27/221-233	1.55E-07	1.55E-07	0.13	2.06E-10	5.58E-05	2.19E-03	1.60E-03	2.93E-04	0.73
00U-27/233-242	1.41E-07	1.41E-07	-0.39	-5.55E-10	5.01E-05	2.00E-03	1.47E-03	2.66E-04	0.73
00U-27/242-252	1.39E-07	1.39E-07	0.36	4.94E-10	4.94E-05	1.97E-03	1.46E-03	2.54E-04	0.74
00U-27/242-265	1.23E-07	1.24E-07	-0.98	-1.20E-09	4.69E-05	1.74E-03	1.28E-03	2.30E-04	0.74
00U-27/265-274	1.41E-07	1.40E-07	0.78	1.01E-09	5.30E-05	1.94E-03	1.48E-03	2.29E-04	0.76
00U-27/274-283	1.31E-07	1.31E-07	0.08	1.09E-10	4.84E-05	1.81E-03	1.36E-03	2.23E-04	0.75
00U-27/283-291	1.92E-07	1.89E-07	1.43	2.75E-09	7.04E-05	2.61E-03	2.03E-03	2.91E-04	0.78
00U-27/291-301	1.89E-07	1.85E-07	2.08	3.94E-09	8.07E-05	2.75E-03	2.11E-03	3.22E-04	0.77
00U-27/301-313	1.73E-07	1.71E-07	1.02	1.77E-09	8.68E-05	2.64E-03	2.03E-03	3.03E-04	0.77
00U-27/313-324	1.68E-07	1.66E-07	1.45	2.43E-09	7.07E-05	2.36E-03	1.77E-03	2.94E-04	0.75

Table 6a-10b. Magnetic properties of the less than 63-micron size fraction for auger hole 00U-27.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-27/0-10	4.38E-07	4.24E-07	3.16	1.39E-08	1.44E-04	6.49E-03	5.00E-03	7.41E-04	0.77
00U-27/10-30	4.58E-07	4.42E-07	3.60	1.65E-08	1.53E-04	6.28E-03	4.90E-03	6.90E-04	0.78
00U-27/30-50	4.71E-07	4.59E-07	2.39	1.12E-08	1.69E-04	6.54E-03	5.18E-03	6.84E-04	0.79
00U-27/50-65	5.05E-07	4.92E-07	2.60	1.31E-08	2.05E-04	7.12E-03	5.78E-03	6.71E-04	0.81
00U-27/65-84	6.43E-07	6.22E-07	3.35	2.16E-08	3.12E-04	9.04E-03	7.74E-03	6.47E-04	0.86
00U-27/84-100	7.56E-07	7.30E-07	3.50	2.65E-08	3.45E-04	1.04E-02	8.96E-03	7.05E-04	0.86
00U-27/100-116	8.03E-07	7.79E-07	3.03	2.44E-08	2.50E-04	1.10E-02	9.56E-03	7.31E-04	0.87
00U-27/116-128	7.17E-07	7.00E-07	2.39	1.71E-08	2.09E-04	1.00E-02	8.65E-03	6.77E-04	0.86
00U-27/128-141	7.63E-07	7.43E-07	2.59	1.98E-08	1.90E-04	1.06E-02	9.30E-03	6.49E-04	0.88
00U-27/141-156	6.59E-07	6.43E-07	2.43	1.60E-08	1.59E-04	8.67E-03	7.39E-03	6.39E-04	0.85
00U-27/156-168	5.78E-07	5.67E-07	1.89	1.09E-08	1.29E-04	7.46E-03	6.24E-03	6.13E-04	0.84
00U-27/168-179	4.82E-07	4.71E-07	2.25	1.08E-08	1.19E-04	6.31E-03	5.17E-03	5.68E-04	0.82
00U-27/179-194	3.84E-07	3.78E-07	1.53	5.86E-09	9.17E-05	5.09E-03	4.01E-03	5.42E-04	0.79
00U-27/194-208	4.17E-07	4.09E-07	2.00	8.33E-09	9.14E-05	5.43E-03	4.25E-03	5.87E-04	0.78
00U-27/208-221	4.45E-07	4.37E-07	1.69	7.52E-09	1.08E-04	5.86E-03	4.58E-03	6.43E-04	0.78
00U-27/221-235	4.17E-07	4.08E-07	2.04	8.52E-09	1.16E-04	5.60E-03	4.36E-03	6.18E-04	0.78
00U-27/233-242	4.21E-07	4.11E-07	2.27	9.55E-09	1.17E-04	5.70E-03	4.44E-03	6.32E-04	0.78
00U-27/242-252	3.81E-07	3.71E-07	2.66	1.01E-08	1.11E-04	5.20E-03	4.03E-03	5.83E-04	0.78
00U-27/242-265	3.93E-07	3.85E-07	1.81	7.08E-09	1.13E-04	5.39E-03	4.17E-03	6.09E-04	0.77
00U-27/265-274	4.52E-07	4.43E-07	2.01	9.07E-09	1.28E-04	6.09E-03	4.82E-03	6.38E-04	0.79
00U-27/274-283	4.80E-07	4.71E-07	1.92	9.22E-09	1.28E-04	6.42E-03	5.09E-03	6.65E-04	0.79
00U-27/283-291	5.03E-07	4.92E-07	2.09	1.05E-08	1.45E-04	6.71E-03	5.37E-03	6.67E-04	0.80
00U-27/291-301	4.39E-07	4.29E-07	2.19	9.60E-09	1.54E-04	6.26E-03	4.98E-03	6.40E-04	0.80
00U-27/301-313	4.25E-07	4.15E-07	2.28	9.70E-09	1.66E-04	6.14E-03	4.84E-03	6.50E-04	0.79
00U-27/313-324	4.61E-07	4.51E-07	2.08	9.59E-09	1.40E-04	6.16E-03	4.84E-03	6.62E-04	0.79

Table 6a-11a. Magnetic properties of the less than 2-mm size fraction for auger hole 00U-31.

Sample #	MS _{hf} (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-31/0-10	1.48E-07	3.00	4.58E-09	2.54E-04	9.29E-03	6.93E-03	2.71E-04	0.75
00U-31/10-30	1.46E-07	-5.89	-8.09E-09	2.39E-04	8.74E-03	6.55E-03	2.55E-04	0.75
00U-31/30-47	1.41E-07	0.94	1.34E-09	2.39E-04	8.73E-03	6.36E-03	2.68E-04	0.73
00U-31/47-57	1.54E-07	2.51	3.96E-09	2.88E-04	9.73E-03	7.11E-03	2.96E-04	0.73
00U-31/57-70	1.60E-07	3.71	6.16E-09	2.98E-04	9.46E-03	6.97E-03	2.94E-04	0.74
00U-31/70-80	1.60E-07	3.48	5.75E-09	3.23E-04	1.01E-02	7.34E-03	2.99E-04	0.73
00U-31/80-91	1.47E-07	5.94	9.32E-09	3.04E-04	9.16E-03	6.56E-03	2.90E-04	0.72
00U-31/91-100	1.47E-07	1.58	2.36E-09	3.01E-04	8.95E-03	6.69E-03	2.49E-04	0.75
00U-31/100-113	1.24E-07	0.80	9.96E-10	2.55E-04	8.06E-03	6.00E-03	2.24E-04	0.74
00U-31/113-124	1.04E-07	2.02	2.14E-09	1.95E-04	7.03E-03	5.29E-03	1.82E-04	0.75
00U-31/124-134	1.00E-07	1.02	1.03E-09	1.58E-04	6.31E-03	4.71E-03	1.75E-04	0.75
00U-31/134-146	8.18E-08	-1.28	-1.03E-09	1.19E-04	5.06E-03	3.73E-03	1.50E-04	0.74

Table 6a-11b. Magnetic properties of the less than 63-micron size fraction for auger hole 00U-31.

Sample #	MS _{lf} (m ³ /kg)	MS _{hf} (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-31/0-10	5.15E-07	5.08E-07	1.25	6.45E-09	4.51E-04	2.89E-02	2.24E-02	7.67E-04	0.77
00U-31/10-30	4.12E-07	4.09E-07	0.84	3.47E-09	4.07E-04	2.18E-02	1.71E-02	5.86E-04	0.79
00U-31/30-47	4.24E-07	4.19E-07	0.99	4.19E-09	3.96E-04	2.12E-02	1.65E-02	6.15E-04	0.78
00U-31/47-57	4.73E-07	4.67E-07	1.35	6.39E-09	4.88E-04	2.46E-02	1.93E-02	6.66E-04	0.78
00U-31/57-70	4.91E-07	4.83E-07	1.50	7.38E-09	5.48E-04	2.52E-02	1.97E-02	7.00E-04	0.78
00U-31/70-80	5.09E-07	5.00E-07	1.79	9.12E-09	6.07E-04	2.52E-02	1.96E-02	7.35E-04	0.78
00U-31/80-91	4.88E-07	4.79E-07	1.95	9.54E-09	6.11E-04	2.41E-02	1.87E-02	7.04E-04	0.78
00U-31/91-100	4.65E-07	4.56E-07	1.95	9.06E-09	5.90E-04	2.29E-02	1.80E-02	6.44E-04	0.79
00U-31/100-113	3.77E-07	3.70E-07	1.92	7.25E-09	4.37E-04	1.70E-02	1.34E-02	5.13E-04	0.79
00U-31/113-124	2.86E-07	2.80E-07	2.14	6.13E-09	3.07E-04	1.30E-02	1.02E-02	4.07E-04	0.79
00U-31/124-134	3.67E-07	3.63E-07	1.24	4.55E-09	3.52E-04	1.81E-02	1.44E-02	4.82E-04	0.80
00U-31/134-146	3.28E-07	3.26E-07	0.46	1.50E-09	2.91E-04	1.55E-02	1.24E-02	4.32E-04	0.80

Table 6a-12a. Magnetic properties of the less than 2-mm size fraction for auger hole 00U-33.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-33/0-10	1.44E-07	1.44E-07	-0.56	-8.08E-10	3.27E-04	1.00E-02	7.60E-03	2.60E-04	0.76
00U-33/10-30	1.66E-07	1.64E-07	0.82	1.35E-09	3.01E-04	9.93E-03	7.42E-03	2.88E-04	0.75
00U-33/30-47	1.70E-07	1.71E-07	-0.58	-9.91E-10	3.12E-04	9.50E-03	7.26E-03	2.72E-04	0.76
00U-33/47-61	2.05E-07	2.02E-07	1.20	2.46E-09	3.95E-04	1.16E-02	9.32E-03	2.70E-04	0.80
00U-33/61-73	1.47E-07	1.41E-07	3.85	5.67E-09	2.62E-04	8.08E-03	6.44E-03	2.03E-04	0.80
00U-33/73-89	7.32E-08	1.42E-07	-93.64	-6.86E-08	1.03E-04	4.42E-03	3.33E-03	1.32E-04	0.75

Table 6a-12b. Magnetic properties of the less than 63-micron size fraction for auger hole 00U-33.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-33/0-10	4.38E-07	4.30E-07	1.82	7.98E-09	5.60E-04	2.85E-02	2.20E-02	7.22E-04	0.77
00U-33/10-30	4.40E-07	4.33E-07	1.48	6.50E-09	4.63E-04	2.40E-02	1.86E-02	6.74E-04	0.77
00U-33/30-47	4.80E-07	4.74E-07	1.12	5.37E-09	5.37E-04	2.50E-02	1.99E-02	6.57E-04	0.80
00U-33/47-61	6.27E-07	6.17E-07	1.46	9.13E-09	6.90E-04	3.16E-02	2.64E-02	6.63E-04	0.84
00U-33/61-73	4.35E-07	4.31E-07	1.01	4.37E-09	4.22E-04	1.85E-02	1.53E-02	5.05E-04	0.83
00U-33/73-89	2.42E-07	3.01E-08	87.56	2.12E-07	2.06E-04	1.15E-02	9.25E-03	3.23E-04	0.81

Table 6b-1a. Magnetic properties of the less than 2-mm size fraction for the 01U-1 transect.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
01U-1A/0-10	6.97E-08	7.01E-08	-0.58	-4.04E-10	2.39E-05	1.40E-03	5.68E-04	4.14E-04	0.41
01U-1A/10-30	5.85E-08	5.89E-08	-0.80	-4.65E-10	1.89E-05	1.17E-03	4.98E-04	3.34E-04	0.43
01U-1A/30-50	9.65E-08	9.51E-08	1.46	1.41E-09	4.47E-05	1.71E-03	8.38E-04	4.35E-04	0.49
01U-1B/0-10	1.05E-07	1.03E-07	1.62	1.70E-09	4.53E-05	1.89E-03	7.76E-04	5.56E-04	0.41
01U-1B/10-30	1.14E-07	1.12E-07	1.61	1.83E-09	5.57E-05	1.97E-03	9.12E-04	5.31E-04	0.46
01U-1B/30-50	1.13E-07	1.11E-07	1.28	1.44E-09	5.64E-05	1.91E-03	1.00E-03	4.52E-04	0.53
01U-1C/0-10	8.28E-08	8.23E-08	0.56	4.62E-10	3.16E-05	1.53E-03	6.02E-04	4.64E-04	0.39
01U-1C/10-30	9.26E-08	9.13E-08	1.46	1.35E-09	4.00E-05	1.66E-03	7.49E-04	4.58E-04	0.45
01U-1C/30-50	6.62E-08	6.65E-08	-0.43	-2.83E-10	2.95E-05	1.24E-03	5.21E-04	3.57E-04	0.42
01U-1D/0-10	7.43E-08	7.44E-08	-0.24	-1.77E-10	3.24E-05	1.38E-03	4.91E-04	4.43E-04	0.36
01U-1D/10-30	7.14E-08	7.26E-08	-1.65	-1.18E-09	2.59E-05	1.35E-03	5.30E-04	4.09E-04	0.39
01U-1D/30-50	9.88E-08	9.77E-08	1.10	1.09E-09	4.58E-05	1.74E-03	8.69E-04	4.33E-04	0.50
01U-1E/0-10	9.88E-08	9.85E-08	0.35	3.46E-10	4.67E-05	1.74E-03	8.71E-04	4.32E-04	0.50
01U-1E/10-30	1.16E-07	1.14E-07	1.30	1.50E-09	5.70E-05	1.93E-03	1.05E-03	4.42E-04	0.54
01U-1E/30-50	6.31E-08	6.69E-08	-6.03	-3.81E-09	3.28E-05	1.16E-03	5.35E-04	3.14E-04	0.46
01U-1F/0-10	6.39E-08	9.85E-08	-54.15	-3.46E-08	4.84E-05	1.71E-03	8.56E-04	4.28E-04	0.50
01U-1F/10-30	9.91E-08	5.84E-08	41.10	4.07E-08	2.57E-05	1.11E-03	4.75E-04	3.19E-04	0.43
01U-1F/30-50	3.81E-08	4.11E-08	-7.83	-2.99E-09	1.54E-05	9.45E-04	2.11E-04	3.67E-04	0.22

Table 6b-1b. Magnetic properties of the less than 63-micron size fraction for the 01U-1 transect.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
01U-1A/0-10	1.27E-07	1.27E-07	0.65	8.22E-10	3.78E-05	2.37E-03	1.13E-03	6.23E-04	0.47
01U-1A/10-30	1.17E-07	1.16E-07	1.02	1.19E-09	3.30E-05	2.23E-03	9.95E-04	6.17E-04	0.45
01U-1A/30-50	1.93E-07	1.90E-07	1.45	2.80E-09	7.06E-05	3.41E-03	1.90E-03	7.56E-04	0.56
01U-1B/0-10	1.32E-07	1.31E-07	1.05	1.39E-09	5.35E-05	2.37E-03	1.03E-03	6.70E-04	0.43
01U-1B/10-30	1.77E-07	1.74E-07	1.63	2.89E-09	7.33E-05	3.08E-03	1.58E-03	7.48E-04	0.51
01U-1B/30-50	2.25E-07	2.21E-07	1.52	3.42E-09	9.13E-05	3.73E-03	2.16E-03	7.84E-04	0.58
01U-1C/0-10	1.17E-07	1.17E-07	0.30	3.56E-10	4.16E-05	2.21E-03	9.66E-04	6.21E-04	0.44
01U-1C/10-30	1.55E-07	1.54E-07	0.51	7.87E-10	5.61E-05	2.84E-03	1.49E-03	6.77E-04	0.52
01U-1C/30-50	1.56E-07	1.56E-07	0.34	5.26E-10	5.62E-05	2.77E-03	1.41E-03	6.80E-04	0.51
01U-1D/0-10	1.20E-07	1.20E-07	0.13	1.53E-10	4.52E-05	2.20E-03	8.70E-04	6.63E-04	0.40
01U-1D/10-30	1.14E-07	1.14E-07	-0.50	-5.71E-10	3.71E-05	2.23E-03	9.45E-04	6.43E-04	0.42
01U-1D/30-50	2.00E-07	1.97E-07	1.46	2.92E-09	7.34E-05	3.53E-03	1.98E-03	7.76E-04	0.56
01U-1E/0-10	1.94E-07	1.90E-07	2.18	4.23E-09	7.32E-05	3.37E-03	1.87E-03	7.49E-04	0.56
01U-1E/10-30	2.32E-07	2.23E-07	3.80	8.80E-09	9.17E-05	3.88E-03	2.27E-03	8.03E-04	0.59
01U-1E/30-50	1.53E-07	1.48E-07	3.67	5.62E-09	6.20E-05	2.56E-03	1.41E-03	5.73E-04	0.55
01U-1F/0-10	2.24E-07	2.20E-07	1.85	4.15E-09	8.19E-05	3.85E-03	2.22E-03	8.15E-04	0.58
01U-1F/10-30	1.44E-07	1.45E-07	-0.24	-3.49E-10	5.03E-05	2.64E-03	1.30E-03	6.72E-04	0.49
01U-1F/30-50	8.86E-08	9.12E-08	-2.88	-2.55E-09	2.90E-05	1.92E-03	6.64E-04	6.28E-04	0.35

Table 6b-2. Magnetic properties of the less than 63-micron size fraction for the 04U transect.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
04U-21A	8.33E-08	8.46E-08	-1.61	-1.34E-09	3.01E-05	1.55E-03	7.07E-04	4.21E-04	0.46
04U-21B	1.43E-07	1.46E-07	-1.80	-2.58E-09	3.76E-05	2.27E-03	1.53E-03	3.70E-04	0.67
04U-22A	8.48E-08	8.46E-08	0.22	1.88E-10	3.77E-05	1.57E-03	6.69E-04	4.49E-04	0.43
04U-22B	1.09E-07	1.08E-07	0.58	6.36E-10	5.55E-05	1.91E-03	1.03E-03	4.39E-04	0.54
04U-23A	8.64E-08	8.68E-08	-0.46	-4.01E-10	3.36E-04	1.62E-03	6.30E-04	4.96E-04	0.39
04U-23B	8.84E-08	8.89E-08	-0.62	-5.44E-10	3.70E-05	1.68E-03	7.28E-04	4.73E-04	0.43
04U-24A	7.61E-08	7.66E-08	-0.69	-5.27E-10	3.00E-05	1.46E-03	5.69E-04	4.48E-04	0.39
04U-24B	5.16E-08	5.38E-08	-4.29	-2.22E-09	6.47E-05	1.11E-03	5.21E-04	2.95E-04	0.47

Table 6c-1. Magnetic properties of the less than 2-mm size fraction for auger hole 00U-38.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-38/0-10	2.01E-08	2.19E-08	-8.84	-1.78E-09	7.75E-05	4.94E-04	1.66E-04	1.64E-04	0.34
00U-38/10-30	1.75E-08	1.86E-08	-6.47	-1.13E-09	8.36E-05	4.52E-04	1.47E-04	1.53E-04	0.32
00U-38/30-44	1.98E-08	2.01E-08	-1.79	-3.54E-10	5.31E-05	4.54E-04	1.66E-04	1.44E-04	0.37
00U-38/44-57	1.90E-08	2.00E-08	-5.11	-9.72E-10	5.59E-05	4.34E-04	1.60E-04	1.37E-04	0.37
00U-38/57-74	2.47E-08	2.65E-08	-7.41	-1.83E-09	2.57E-05	4.64E-04	1.95E-04	1.34E-04	0.42
00U-38/74-96	2.62E-08	2.69E-08	-2.80	-7.35E-10	7.76E-05	5.24E-04	2.35E-04	1.44E-04	0.45
00U-38/96-115	2.99E-08	3.19E-08	-6.37	-1.91E-09	7.37E-05	6.17E-04	3.02E-04	1.57E-04	0.49
00U-38/115-140	3.93E-08	3.86E-08	1.74	6.83E-10	8.25E-05	7.46E-04	3.83E-04	1.81E-04	0.51
00U-38/140-156	3.17E-08	3.48E-08	-9.66	-3.06E-09	7.18E-05	6.16E-04	2.86E-04	1.65E-04	0.46
00U-38/156-185	2.72E-08	2.92E-08	-7.65	-2.08E-09	9.81E-05	5.46E-04	2.38E-04	1.54E-04	0.44
00U-38/185-207	2.85E-08	3.16E-08	-11.03	-3.14E-09	8.80E-05	5.46E-04	2.82E-04	1.32E-04	0.52
00U-38/207-229	3.53E-08	3.60E-08	-2.00	-7.01E-10	7.91E-05	7.17E-04	3.82E-04	1.67E-04	0.53
00U-38/229-242	5.75E-08	5.82E-08	-1.26	-7.27E-10	6.71E-05	1.05E-03	7.46E-04	1.53E-04	0.71

Table 6c-2a. Magnetic properties of the less than 2-mm size fraction for the 00U-39 transect.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-39A/0-10	1.91E-08	1.94E-08	-1.84	-3.50E-10	1.37E-05	5.01E-04	1.02E-04	1.99E-04	0.20
00U-39A/10-30	1.73E-08	1.81E-08	-5.05	-8.71E-10	1.26E-05	4.50E-04	9.30E-05	1.78E-04	0.21
00U-39A/30-50	2.60E-08	2.51E-08	3.48	9.04E-10	1.72E-05	5.59E-04	1.70E-04	1.95E-04	0.30
00U-39B/0-10	2.05E-08	2.37E-08	-15.47	-3.18E-09	1.34E-05	4.22E-04	1.25E-04	1.49E-04	0.30
00U-39B/10-30	1.60E-08	1.88E-08	-17.90	-2.86E-09	1.28E-05	4.17E-04	7.58E-05	1.71E-04	0.18
00U-39B/30-50	2.06E-08	2.41E-08	-16.81	-3.46E-09	1.46E-05	4.42E-04	1.32E-04	1.55E-04	0.30
00U-39C/0-10	2.42E-08	3.03E-08	-25.06	-6.07E-09	1.23E-05	4.75E-04	1.28E-04	1.74E-04	0.27
00U-39C/10-30	2.29E-08	2.57E-08	-12.16	-2.79E-09	1.41E-05	4.76E-04	1.58E-04	1.59E-04	0.33
00U-39C/30-50	2.68E-08	2.58E-08	3.86	1.04E-09	1.56E-05	5.17E-04	1.90E-04	1.63E-04	0.37
00U-39D/0-10	2.52E-08	2.68E-08	-6.26	-1.58E-09	1.46E-05	5.24E-04	1.42E-04	1.91E-04	0.27
00U-39D/10-30	2.72E-08	3.10E-08	-14.02	-3.81E-09	1.64E-05	5.30E-04	1.73E-04	1.78E-04	0.33
00U-39D/30-50	2.71E-08	2.52E-08	7.27	1.97E-09	1.53E-05	4.70E-04	1.67E-04	1.51E-04	0.36
00U-39E/0-10	2.63E-08	2.83E-08	-7.75	-2.04E-09	1.62E-05	5.25E-04	1.87E-04	1.69E-04	0.36
00U-39E/10-30	3.41E-08	3.60E-08	-5.48	-1.87E-09	2.08E-05	6.63E-04	2.60E-04	2.01E-04	0.39
00U-39E/30-50	3.35E-08	3.48E-08	-3.72	-1.25E-09	1.48E-05	4.73E-04	1.88E-04	1.42E-04	0.40
00U-39F/0-10	2.16E-08	2.46E-08	-13.64	-2.95E-09	1.62E-05	4.86E-04	1.55E-04	1.66E-04	0.32
00U-39F/10-30	2.53E-08	3.18E-08	-25.32	-6.42E-09	1.68E-05	5.22E-04	1.86E-04	1.68E-04	0.36
00U-39F/30-50	4.72E-08	4.72E-08	-0.14	-6.57E-11	2.45E-05	7.27E-04	3.43E-04	1.92E-04	0.47
00U-39G/0-10	3.04E-08	3.06E-08	-0.61	-1.85E-10	2.09E-05	6.09E-04	2.41E-04	1.84E-04	0.40
00U-39G/10-30	5.25E-08	5.36E-08	-2.16	-1.14E-09	2.83E-05	9.29E-04	4.45E-04	2.42E-04	0.48
00U-39G/30-50	2.81E-08	2.72E-08	3.23	9.01E-10	1.61E-05	5.33E-04	1.85E-04	1.74E-04	0.35
00U-39H/0-10	5.55E-08	5.16E-08	7.03	3.90E-09	3.10E-05	9.06E-04	5.20E-04	1.93E-04	0.57
00U-39H/10-30	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d
00U-39H/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39I/0-10	4.45E-08	4.82E-08	-8.38	-3.73E-09	2.26E-05	7.21E-04	3.52E-04	1.85E-04	0.49
00U-39I/10-30	7.59E-08	7.67E-08	-1.09	-8.26E-10	2.89E-05	9.46E-04	4.67E-04	2.40E-04	0.49
00U-39I/30-50	3.83E-08	3.88E-08	-1.17	-4.50E-10	2.42E-05	7.89E-04	3.50E-04	2.19E-04	0.44
00U-39J/0-10	4.13E-08	4.19E-08	-1.43	-5.91E-10	2.37E-05	7.99E-04	3.32E-04	2.33E-04	0.42
00U-39J/10-30	7.03E-08	6.94E-08	1.15	8.11E-10	3.58E-05	1.18E-03	6.49E-04	2.67E-04	0.55
00U-39J/30-50	6.70E-08	6.78E-08	-1.21	-8.07E-10	3.53E-05	1.17E-03	6.12E-04	2.79E-04	0.52
00U-39K/0-10	6.83E-08	6.74E-08	1.33	9.05E-10	3.38E-05	1.17E-03	5.86E-04	2.95E-04	0.50
00U-39K/10-30	8.72E-08	9.02E-08	-3.47	-3.03E-09	4.22E-05	1.50E-03	8.87E-04	3.07E-04	0.59
00U-39K/30-50	7.92E-08	7.87E-08	0.55	4.32E-10	3.92E-05	1.33E-03	6.90E-04	3.22E-04	0.52
00U-39L/0-10	5.49E-08	5.52E-08	-0.54	-2.98E-10	3.03E-05	7.48E-04	3.61E-04	1.93E-04	0.48
00U-39L/10-30	8.30E-08	8.17E-08	1.62	1.35E-09	4.40E-05	1.42E-03	8.07E-04	3.06E-04	0.57
00U-39L/30-50	8.52E-08	8.29E-08	2.67	2.28E-09	4.01E-05	1.37E-03	7.34E-04	3.17E-04	0.54
00U-39M/0-10	8.95E-08	8.65E-08	3.35	2.99E-09	4.74E-05	1.53E-03	8.83E-04	3.21E-04	0.58
00U-39M/10-30	7.93E-08	8.11E-08	-2.24	-1.77E-09	3.91E-05	1.35E-03	7.50E-04	3.02E-04	0.55
00U-39M/30-50	7.84E-08	7.76E-08	1.02	8.04E-10	3.78E-05	1.26E-03	7.41E-04	2.61E-04	0.59
00U-39N/0-10	5.08E-08	5.40E-08	-6.16	-3.13E-09	2.65E-05	9.79E-04	4.54E-04	2.63E-04	0.46
00U-39N/10-30	6.21E-08	5.97E-08	3.91	2.43E-09	2.90E-05	1.13E-03	6.38E-04	2.45E-04	0.57
00U-39N/30-50	9.02E-08	8.90E-08	1.33	1.20E-09	4.55E-05	1.51E-03	9.08E-04	3.00E-04	0.60
00U-39O/0-10	4.37E-08	4.70E-08	-7.70	-3.36E-09	2.22E-05	9.17E-04	3.52E-04	2.83E-04	0.38
00U-39O/10-30	5.08E-08	5.41E-08	-6.43	-3.26E-09	2.62E-05	1.05E-03	4.01E-04	3.19E-04	0.39
00U-39O/30-50	9.94E-08	9.66E-08	2.82	2.80E-09	4.90E-05	1.71E-03	9.35E-04	3.90E-04	0.55

Table 6c-2b. Magnetic properties of the less than 63-micron size fraction for the 00U-39 transect.

Sample #	MSlf (m³/kg)	MShf (m³/kg)	FDMS (%)	FDMS (m³/kg)	ARM (Am²/kg)	IRM1.2 (Am²/kg)	IRM -0.3 (Am²/kg)	HIRM (Am²/kg)	S
00U-39A/0-10	2.01E-07	2.03E-07	-1.03	-2.07E-09	5.79E-05	3.72E-03	2.05E-03	8.35E-04	0.55
00U-39A/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39A/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39B/0-10	2.19E-07	2.18E-07	0.11	2.39E-10	6.32E-05	3.77E-03	2.19E-03	7.88E-04	0.58
00U-39B/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39B/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39C/0-10	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39C/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39C/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39D/0-10	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39D/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39D/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39E/0-10	1.93E-07	1.92E-07	0.56	1.08E-09	6.75E-05	3.38E-03	2.03E-03	6.75E-04	0.60
00U-39E/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39E/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39F/0-10	1.91E-07	1.91E-07	-0.14	-2.62E-10	6.13E-05	3.45E-03	1.99E-03	7.29E-04	0.58
00U-39F/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39F/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39G/0-10	2.07E-07	2.07E-07	0.10	2.07E-10	6.45E-05	3.57E-03	2.16E-03	7.08E-04	0.60
00U-39G/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39G/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39H/0-10	1.96E-07	1.93E-07	1.79	3.52E-09	5.82E-05	3.33E-03	1.97E-03	6.80E-04	0.59
00U-39H/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39H/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39I/0-10	0.00000	0.00000	0.27915	0.00000	0.00006	0.00310	0.00185	0.00062	0.59808
00U-39I/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39I/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39J/0-10	1.96E-07	1.97E-07	-0.23	-4.58E-10	6.38E-05	3.36E-03	1.98E-03	6.94E-04	0.59
00U-39J/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39J/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39K/0-10	2.18E-07	2.16E-07	0.76	1.65E-09	7.16E-05	3.61E-03	2.27E-03	6.68E-04	0.63
00U-39K/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39K/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39L/0-10	1.99E-07	1.97E-07	1.05	2.08E-09	6.77E-05	3.41E-03	2.11E-03	6.48E-04	0.62
00U-39L/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39L/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39M/0-10	2.28E-07	2.26E-07	0.72	1.63E-09	8.00E-05	3.74E-03	2.42E-03	6.59E-04	0.65
00U-39M/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39M/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39N/0-10	1.64E-07	1.64E-07	0.35	5.79E-10	5.64E-05	2.92E-03	1.68E-03	6.20E-04	0.58
00U-39N/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39N/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39O/0-10	1.60E-07	1.59E-07	0.60	9.57E-10	5.54E-05	2.90E-03	1.63E-03	6.32E-04	0.56
00U-39O/10-30	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
00U-39O/30-50	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Table 6d-1a. Magnetic properties of the less than 2-mm size fraction for the 00U-35 transect.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-35A/0-10	3.00E-07	2.96E-07	1.55	4.67E-09	3.90E-05	1.17E-03	8.30E-04	1.71E-04	0.71
00U-35A/10-30	2.83E-07	2.76E-07	2.40	6.81E-09	3.64E-05	1.09E-03	7.76E-04	1.57E-04	0.71
00U-35A/30-50	2.64E-07	2.61E-07	1.14	3.01E-09	3.68E-05	1.06E-03	7.72E-04	1.42E-04	0.73
00U-35B/0-10	2.66E-07	2.63E-07	1.26	3.36E-09	3.17E-05	8.71E-04	6.07E-04	1.32E-04	0.70
00U-35B/10-30	3.06E-07	3.01E-07	1.44	4.39E-09	3.88E-05	1.11E-03	8.01E-04	1.57E-04	0.72
00U-35B/30-50	3.36E-07	3.33E-07	0.77	2.59E-09	4.33E-05	1.26E-03	9.28E-04	1.64E-04	0.74
00U-35C/0-10	3.10E-07	3.03E-07	2.42	7.50E-09	3.93E-05	1.13E-03	8.45E-04	1.40E-04	0.75
00U-35C/10-30	3.44E-07	3.39E-07	1.44	4.97E-09	4.19E-05	1.30E-03	9.29E-04	1.83E-04	0.72
00U-35C/30-50	3.19E-07	3.12E-07	2.16	6.88E-09	4.21E-05	1.30E-03	9.63E-04	1.70E-04	0.74
00U-35D/0-10	3.22E-07	3.18E-07	1.29	4.15E-09	4.28E-05	1.24E-03	8.82E-04	1.78E-04	0.71
00U-35D/10-30	3.24E-07	2.97E-07	8.41	2.73E-08	5.18E-05	1.53E-03	1.12E-03	2.05E-04	0.73
00U-35D/30-50	3.09E-07	3.28E-07	-6.28	-1.94E-08	4.93E-05	1.42E-03	1.06E-03	1.76E-04	0.75
00U-35E/0-10	3.57E-07	3.46E-07	3.08	1.01E-08	6.45E-05	1.95E-03	1.39E-03	2.81E-04	0.71
00U-35E/10-30	3.38E-07	3.34E-07	1.18	3.98E-09	5.90E-05	1.88E-03	1.37E-03	2.53E-04	0.73
00U-35E/30-50	3.61E-07	3.58E-07	0.93	3.37E-09	5.13E-05	1.69E-03	1.28E-03	2.07E-04	0.76
00U-35F/0-10	3.42E-07	3.32E-07	2.90	9.92E-09	9.91E-05	2.91E-03	2.11E-03	3.97E-04	0.73
00U-35F/10-30	3.41E-07	3.33E-07	2.38	8.12E-09	10.00E-05	2.82E-03	2.09E-03	3.66E-04	0.74
00U-35F/30-50	3.53E-07	3.47E-07	1.71	6.05E-09	1.05E-04	2.90E-03	2.18E-03	3.61E-04	0.75
00U-35G/0-10	3.53E-07	3.44E-07	2.55	9.01E-09	8.51E-05	2.43E-03	1.73E-03	3.50E-04	0.71
00U-35G/10-30	3.05E-07	2.97E-07	2.53	7.70E-09	9.06E-05	2.55E-03	1.83E-03	3.59E-04	0.72
00U-35G/30-50	3.43E-07	3.35E-07	2.54	8.72E-09	9.34E-05	2.47E-03	1.84E-03	3.15E-04	0.74
00U-35H/0-10	3.87E-07	3.73E-07	3.60	1.39E-08	1.29E-04	3.79E-03	2.82E-03	4.82E-04	0.75
00U-35H/10-30	3.75E-07	3.64E-07	2.77	1.04E-08	1.45E-04	3.91E-03	2.94E-03	4.88E-04	0.75
00U-35H/30-50	4.15E-07	4.02E-07	3.17	1.32E-08	1.62E-04	4.05E-03	3.12E-03	4.69E-04	0.77

Table 6d-1b. Magnetic properties of the less than 63-micron size fraction for the 00U-35 transect.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-35A/0-10	3.00E-07	2.96E-07	1.55	4.67E-09	8.24E-05	4.48E-03	3.25E-03	6.17E-04	0.72
00U-35A/10-30	2.83E-07	2.76E-07	2.40	6.81E-09	8.32E-05	4.15E-03	3.11E-03	5.18E-04	0.75
00U-35A/30-50	2.64E-07	2.61E-07	1.14	3.01E-09	8.24E-05	3.89E-03	2.93E-03	4.84E-04	0.75
00U-35B/0-10	2.66E-07	2.63E-07	1.26	3.36E-09	7.93E-05	4.07E-03	2.90E-03	5.83E-04	0.71
00U-35B/10-30	3.06E-07	3.01E-07	1.44	4.39E-09	9.26E-05	4.48E-03	3.33E-03	5.75E-04	0.74
00U-35B/30-50	3.36E-07	3.33E-07	0.77	2.59E-09	9.97E-05	4.69E-03	3.57E-03	5.60E-04	0.76
00U-35C/0-10	3.10E-07	3.03E-07	2.42	7.50E-09	8.98E-05	4.59E-03	3.37E-03	6.10E-04	0.73
00U-35C/10-30	3.44E-07	3.39E-07	1.44	4.97E-09	9.25E-05	4.94E-03	3.70E-03	6.21E-04	0.75
00U-35C/30-50	3.19E-07	3.12E-07	2.16	6.88E-09	8.81E-05	4.48E-03	3.40E-03	5.43E-04	0.76
00U-35D/0-10	3.22E-07	3.18E-07	1.29	4.15E-09	8.94E-05	4.70E-03	3.42E-03	6.39E-04	0.73
00U-35D/10-30	3.24E-07	2.97E-07	8.41	2.73E-08	1.01E-04	4.75E-03	3.53E-03	6.09E-04	0.74
00U-35D/30-50	3.09E-07	3.28E-07	-6.28	-1.94E-08	9.55E-05	4.42E-03	3.30E-03	5.57E-04	0.75
00U-35E/0-10	3.57E-07	3.46E-07	3.08	1.01E-08	1.01E-04	5.21E-03	3.87E-03	6.70E-04	0.74
00U-35E/10-30	3.38E-07	3.34E-07	1.18	3.98E-09	1.08E-04	4.99E-03	3.77E-03	6.12E-04	0.76
00U-35E/30-50	3.61E-07	3.58E-07	0.93	3.37E-09	1.06E-04	5.06E-03	4.04E-03	5.06E-04	0.80
00U-35F/0-10	3.42E-07	3.32E-07	2.90	9.92E-09	1.28E-04	5.15E-03	3.76E-03	6.97E-04	0.73
00U-35F/10-30	3.41E-07	3.33E-07	2.38	8.12E-09	1.38E-04	5.05E-03	3.77E-03	6.42E-04	0.75
00U-35F/30-50	3.53E-07	3.47E-07	1.71	6.05E-09	1.59E-04	5.25E-03	4.03E-03	6.09E-04	0.77
00U-35G/0-10	3.53E-07	3.44E-07	2.55	9.01E-09	1.43E-04	5.32E-03	3.92E-03	7.03E-04	0.74
00U-35G/10-30	3.05E-07	2.97E-07	2.53	7.70E-09	1.36E-04	4.58E-03	3.42E-03	5.81E-04	0.75
00U-35G/30-50	3.43E-07	3.35E-07	2.54	8.72E-09	1.49E-04	5.02E-03	3.87E-03	5.75E-04	0.77
00U-35H/0-10	3.87E-07	3.73E-07	3.60	1.39E-08	1.72E-04	6.07E-03	4.57E-03	7.47E-04	0.75
00U-35H/10-30	3.75E-07	3.64E-07	2.77	1.04E-08	1.88E-04	5.84E-03	4.39E-03	7.24E-04	0.75
00U-35H/30-50	4.15E-07	4.02E-07	3.17	1.32E-08	2.19E-04	6.35E-03	4.94E-03	7.05E-04	0.78

Table 6d-2a. Magnetic properties of the less than 2-mm size fraction for auger hole 00U-36.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-36/0-10	8.22E-08	8.05E-08	2.05	1.68E-09	3.62E-05	1.11E-03	8.15E-04	1.49E-04	0.73
00U-36/10-30	9.77E-08	9.66E-08	1.09	1.07E-09	3.97E-05	1.36E-03	1.01E-03	1.71E-04	0.75
00U-36/30-46	9.75E-08	9.71E-08	0.38	3.73E-10	5.50E-05	1.34E-03	1.01E-03	1.69E-04	0.75
00U-36/46-68	9.65E-08	9.63E-08	0.23	2.21E-10	5.08E-05	1.33E-03	1.00E-03	1.65E-04	0.75
00U-36/68-86	1.37E-07	1.35E-07	1.71	2.34E-09	3.89E-05	1.80E-03	1.46E-03	1.68E-04	0.81
00U-36/86-97	3.22E-07	3.14E-07	2.36	7.58E-09	4.07E-05	4.18E-03	3.74E-03	2.18E-04	0.90
00U-36/97-108	2.77E-07	2.73E-07	1.44	3.99E-09	4.62E-05	3.72E-03	3.24E-03	2.36E-04	0.87
00U-36/108-120	2.44E-07	2.42E-07	0.74	1.81E-09	7.19E-05	3.24E-03	2.85E-03	1.97E-04	0.88
00U-36/120-130	2.03E-07	2.02E-07	0.27	5.46E-10	6.56E-05	2.74E-03	2.37E-03	1.84E-04	0.87

Table 6d-2b. Magnetic properties of the less than 63-micron size fraction for auger hole 00U-36.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-36/0-10	3.19E-07	3.11E-07	2.67	8.53E-09	8.67E-05	4.49E-03	3.31E-03	5.90E-04	0.74
00U-36/10-30	3.51E-07	3.41E-07	2.78	9.75E-09	1.00E-04	4.90E-03	3.84E-03	5.30E-04	0.78
00U-36/30-46	3.62E-07	3.53E-07	2.43	8.79E-09	1.36E-04	5.02E-03	3.82E-03	5.99E-04	0.76
00U-36/46-68	4.32E-07	4.20E-07	2.70	1.17E-08	1.08E-04	5.77E-03	4.41E-03	6.81E-04	0.76
00U-36/68-86	5.47E-07	5.34E-07	2.36	1.29E-08	1.02E-04	7.01E-03	5.83E-03	6.33E-04	0.82
00U-36/86-97	8.56E-07	8.38E-07	2.09	1.79E-08	1.15E-04	1.10E-02	9.84E-03	5.95E-04	0.89
00U-36/97-108	8.76E-07	8.59E-07	1.87	1.63E-08	1.01E-04	1.12E-02	1.00E-02	5.77E-04	0.90
00U-36/108-120	8.34E-07	8.19E-07	1.72	1.44E-08	1.29E-04	1.07E-02	9.58E-03	5.51E-04	0.90
00U-36/120-130	6.45E-07	6.35E-07	1.66	1.07E-08	1.46E-04	8.56E-03	7.57E-03	4.95E-04	0.88

Table 6d-3a. Magnetic properties of the less than 2-mm size fraction for auger hole 00U-37.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-37/0-10	2.46E-07	2.37E-07	3.73	9.16E-09	1.22E-04	3.58E-03	2.59E-03	4.96E-04	0.72
00U-37/10-30	2.45E-07	2.36E-07	3.69	9.05E-09	1.23E-04	3.59E-03	2.67E-03	4.63E-04	0.74
00U-37/30-43	2.49E-07	2.41E-07	3.37	8.40E-09	6.00E-05	3.70E-03	2.78E-03	4.62E-04	0.75
00U-37/43-55	2.40E-07	2.32E-07	3.14	7.51E-09	3.78E-05	3.40E-03	2.68E-03	3.59E-04	0.79
00U-37/55-68	2.07E-07	2.04E-07	1.87	3.89E-09	2.88E-05	2.99E-03	2.42E-03	2.84E-04	0.81
00U-37/68-80	1.83E-07	1.80E-07	1.55	2.83E-09	3.28E-05	2.48E-03	2.07E-03	2.01E-04	0.84
00U-37/80-94	1.64E-07	1.60E-07	2.41	3.95E-09	5.89E-05	2.21E-03	1.86E-03	1.77E-04	0.84
00U-37/94-110	7.76E-08	7.89E-08	-1.74	-1.35E-09	1.25E-04	1.10E-03	6.90E-04	2.07E-04	0.62
00U-37/110-120	1.23E-07	1.23E-07	-0.05	-6.19E-11	1.39E-04	1.83E-03	1.34E-03	2.42E-04	0.74
00U-37/120-131	7.63E-08	7.75E-08	-1.56	-1.19E-09	9.30E-05	1.19E-03	7.63E-04	2.12E-04	0.64
00U-37/131-139	5.83E-08	5.93E-08	-1.79	-1.04E-09	5.49E-05	9.38E-04	5.88E-04	1.75E-04	0.63
00U-37/139-148	7.00E-08	7.12E-08	-1.70	-1.19E-09	4.79E-05	1.07E-03	7.14E-04	1.77E-04	0.67
00U-37/148-155	1.21E-07	1.19E-07	1.55	1.87E-09	3.19E-05	1.81E-03	1.30E-03	2.54E-04	0.72

Table 6d-3b. Magnetic properties of the less than 63-micron size fraction for auger hole 00U-37.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-37/0-10	3.95E-07	3.81E-07	3.58	1.42E-08	1.55E-04	5.69E-03	4.19E-03	7.53E-04	0.74
00U-37/10-30	4.04E-07	3.91E-07	3.20	1.29E-08	1.77E-04	5.90E-03	4.43E-03	7.37E-04	0.75
00U-37/30-43	4.45E-07	4.28E-07	3.74	1.66E-08	8.33E-05	6.49E-03	4.97E-03	7.62E-04	0.77
00U-37/43-55	5.65E-07	5.45E-07	3.52	1.99E-08	7.55E-05	7.91E-03	6.40E-03	7.55E-04	0.81
00U-37/55-68	5.67E-07	5.52E-07	2.56	1.45E-08	8.31E-05	7.83E-03	6.58E-03	6.23E-04	0.84
00U-37/68-80	7.99E-07	7.80E-07	2.35	1.88E-08	9.23E-05	1.04E-02	9.03E-03	6.70E-04	0.87
00U-37/80-94	7.48E-07	7.39E-07	1.27	9.51E-09	1.08E-04	9.58E-03	8.31E-03	6.36E-04	0.87
00U-37/94-110	1.44E-07	1.44E-07	0.04	6.43E-11	1.98E-04	1.98E-03	1.34E-03	3.19E-04	0.68
00U-37/110-120	2.58E-07	2.54E-07	1.50	3.88E-09	2.57E-04	3.66E-03	2.81E-03	4.25E-04	0.77
00U-37/120-131	2.03E-07	2.01E-07	0.89	1.81E-09	1.65E-04	2.95E-03	2.06E-03	4.47E-04	0.70
00U-37/131-139	2.32E-07	2.30E-07	1.10	2.56E-09	1.52E-04	3.30E-03	2.31E-03	4.95E-04	0.70
00U-37/139-148	2.48E-07	2.45E-07	1.27	3.16E-09	1.34E-04	3.57E-03	2.57E-03	4.98E-04	0.72
00U-37/148-155	3.16E-07	3.07E-07	2.63	8.29E-09	4.86E-05	4.54E-03	3.38E-03	5.80E-04	0.74

Table 6d-4a. Magnetic properties of the less than 2-mm size fraction for soil pit JN-1.

[illegible]

Table 6d-4b. Magnetic properties of the less than 63-micron size fraction for soil pit JN-1.

[illegible]

Table 6e-1. Magnetic properties of the less than 2-mm size fraction for the GP transect.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
GP-A/0-10	3.59E-08	3.88E-08	-8.32	-2.98E-09	1.97E-05	6.43E-04	3.20E-04	1.62E-04	0.50
GP-A/10-30	3.64E-08	3.96E-08	-8.72	-3.18E-09	1.96E-05	6.15E-04	3.02E-04	1.57E-04	0.49
GP-A/30-50	3.39E-08	3.62E-08	-6.81	-2.31E-09	1.86E-05	5.91E-04	2.67E-04	1.62E-04	0.45
GP-B/0-10	6.07E-08	6.20E-08	-2.10	-1.28E-09	3.50E-05	1.03E-03	3.78E-04	3.26E-04	0.37
GP-B/10-30	5.43E-08	5.60E-08	-3.19	-1.73E-09	2.84E-05	9.23E-04	3.16E-04	3.04E-04	0.34
GP-B/30-50	3.00E-08	3.40E-08	-13.36	-4.01E-09	1.65E-05	5.25E-04	1.76E-04	1.75E-04	0.33
GP-C/0-10	6.22E-08	6.79E-08	-9.30	-5.78E-09	3.50E-05	7.27E-04	6.80E-04	2.36E-05	0.94
GP-C/10-30	5.96E-08	6.16E-08	-3.22	-1.92E-09	3.13E-05	6.74E-04	5.83E-04	4.58E-05	0.86
GP-C/30-50	4.77E-08	5.08E-08	-6.45	-3.08E-09	2.44E-05	5.54E-04	4.78E-04	3.79E-05	0.86
GP-D/0-10	6.52E-08	6.71E-08	-2.84	-1.85E-09	3.68E-05	1.08E-03	7.03E-04	1.87E-04	0.65
GP-D/10-30	5.86E-08	6.13E-08	-4.60	-2.69E-09	2.96E-05	9.09E-04	5.75E-04	1.67E-04	0.63
GP-D/30-50	5.20E-08	5.54E-08	-6.42	-3.34E-09	2.60E-05	8.30E-04	5.08E-04	1.61E-04	0.61
GP-E/0-10	5.80E-08	5.92E-08	-2.01	-1.17E-09	3.45E-05	1.00E-03	6.63E-04	1.69E-04	0.66
GP-E/10-30	6.82E-08	7.04E-08	-3.22	-2.20E-09	3.75E-05	1.01E-03	7.19E-04	1.89E-04	0.66
GP-E/30-50	5.48E-08	5.76E-08	-5.09	-2.79E-09	2.51E-05	8.90E-04	5.63E-04	1.63E-04	0.63
GP-F/0-10	6.88E-08	7.11E-08	-3.34	-2.30E-09	3.53E-05	1.09E-03	7.16E-04	1.86E-04	0.66
GP-F/10-30	5.67E-08	5.87E-08	-3.50	-1.98E-09	2.57E-05	8.41E-04	5.01E-04	1.66E-04	0.61
GP-F/30-50	4.61E-08	4.85E-08	-5.23	-2.41E-09	2.30E-05	7.43E-04	4.75E-04	1.34E-04	0.64
GP-G/0-10	7.38E-08	7.53E-08	-2.01	-1.48E-09	3.60E-05	1.21E-03	7.72E-04	2.19E-04	0.64
GP-G/10-30	5.93E-08	6.27E-08	-5.74	-3.40E-09	3.01E-05	1.01E-03	6.45E-04	1.80E-04	0.64
GP-G/30-50	5.09E-08	5.26E-08	-3.34	-1.70E-09	2.34E-05	8.25E-04	5.01E-04	1.62E-04	0.61
GP-H/0-10	7.24E-08	7.40E-08	-2.22	-1.60E-09	3.24E-05	1.18E-03	7.64E-04	2.09E-04	0.65
GP-H/10-30	6.31E-08	6.61E-08	-4.73	-2.98E-09	2.71E-05	1.01E-03	6.61E-04	1.72E-04	0.66
GP-H/30-50	4.53E-08	4.73E-08	-4.45	-2.01E-09	2.13E-05	7.67E-04	4.68E-04	1.50E-04	0.61
GP-I/0-10	7.62E-08	7.69E-08	-0.94	-7.16E-10	4.00E-05	1.27E-03	8.39E-04	2.15E-04	0.66
GP-I/10-30	6.88E-08	6.93E-08	-0.69	-4.77E-10	9.40E-05	1.15E-03	7.64E-04	1.95E-04	0.66
GP-I/30-50	6.24E-08	6.23E-08	0.13	7.92E-11	2.92E-05	9.82E-04	6.51E-04	1.65E-04	0.66
GP-J/0-10	6.86E-08	6.87E-08	-0.21	-1.42E-10	3.48E-05	1.05E-03	7.18E-04	1.68E-04	0.68
GP-J/10-30	6.99E-08	7.02E-08	-0.37	-2.61E-10	3.39E-05	1.12E-03	7.21E-04	1.98E-04	0.65
GP-J/30-50	7.23E-08	7.28E-08	-0.70	-5.09E-10	3.16E-05	1.12E-03	7.33E-04	1.92E-04	0.66
GP-K/0-10	1.13E-07	1.13E-07	-0.54	-6.05E-10	5.54E-05	1.73E-03	1.23E-03	2.51E-04	0.71
GP-K/10-30	9.79E-08	9.79E-08	0.06	5.87E-11	4.15E-05	1.40E-03	1.05E-03	1.78E-04	0.75
GP-K/30-50	9.48E-08	9.51E-08	-0.27	-2.57E-10	4.27E-05	1.44E-03	9.96E-04	2.24E-04	0.69

Table 6f-1a. Magnetic properties of the less than 2-mm size fraction for the 00U-41 transect.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
00U-41A/0-10	2.89E-08	3.14E-08	-8.51	-2.46E-09	1.06E-05	9.21E-04	1.30E-04	3.95E-04	0.14
00U-41A/10-25	2.82E-08	2.60E-08	7.72	2.18E-09	1.04E-05	9.70E-04	7.18E-05	4.49E-04	0.07
00U-41B/0-10	2.87E-08	3.12E-08	-8.39	-2.41E-09	1.16E-05	8.33E-04	1.52E-04	3.40E-04	0.18
00U-41B/10-25	4.83E-08	4.91E-08	-1.68	-8.11E-10	1.76E-05	1.30E-03	1.56E-04	5.71E-04	0.12
00U-41B/25-45	5.61E-08	5.66E-08	-0.85	-4.75E-10	1.99E-05	1.64E-03	6.63E-05	7.88E-04	0.04
00U-41C/0-10	4.66E-08	4.72E-08	-1.33	-6.18E-10	2.15E-05	1.17E-03	2.32E-04	4.67E-04	0.20
00U-41C/10-20	4.87E-08	4.89E-08	-0.43	-2.10E-10	2.00E-05	1.27E-03	2.05E-04	5.35E-04	0.16
00U-41C/20-30	4.43E-08	4.56E-08	-2.92	-1.29E-09	1.66E-05	1.27E-03	1.77E-04	5.48E-04	0.14
00U-41D/0-10	6.27E-08	6.27E-08	-0.07	-4.11E-11	2.72E-05	1.35E-03	4.45E-04	4.55E-04	0.33
00U-41D/10-30	7.79E-08	7.82E-08	-0.40	-3.14E-10	3.36E-05	1.83E-03	5.92E-04	6.21E-04	0.32
00U-41D/30-50	8.04E-08	7.90E-08	1.77	1.42E-09	3.34E-05	1.84E-03	5.50E-04	6.44E-04	0.30
00U-41E/0-10	8.59E-08	8.32E-08	3.18	2.73E-09	3.61E-05	1.93E-03	6.71E-04	6.27E-04	0.35
00U-41E/10-30	7.78E-08	7.69E-08	1.25	9.75E-10	3.28E-05	1.80E-03	5.46E-04	6.27E-04	0.30
00U-41E/30-50	8.81E-08	8.79E-08	0.24	2.16E-10	3.58E-05	1.94E-03	5.82E-04	6.77E-04	0.30
00U-41F/0-10	7.67E-08	7.75E-08	-0.97	-7.46E-10	3.83E-05	1.68E-03	5.82E-04	5.51E-04	0.35
00U-41F/10-30	8.39E-08	8.16E-08	2.76	2.31E-09	3.54E-05	1.78E-03	5.82E-04	5.98E-04	0.33
00U-41F/30-50	8.66E-08	8.35E-08	3.66	3.17E-09	3.47E-05	1.87E-03	5.63E-04	6.52E-04	0.30
00U-41G/0-10	6.02E-08	5.74E-08	4.68	2.82E-09	2.94E-05	1.36E-03	4.37E-04	4.64E-04	0.32
00U-41G/10-30	8.50E-08	8.27E-08	2.64	2.24E-09	3.81E-05	1.83E-03	5.76E-04	6.25E-04	0.32
00U-41G/30-50	8.57E-08	8.51E-08	0.73	6.26E-10	3.66E-05	1.85E-03	5.64E-04	6.44E-04	0.30
00U-41H1/0-10	9.29E-08	9.05E-08	2.58	2.40E-09	4.39E-05	1.87E-03	7.22E-04	5.76E-04	0.39
00U-41H1/10-30	9.79E-08	9.62E-08	1.73	1.69E-09	4.43E-05	2.07E-03	7.28E-04	6.72E-04	0.35
00U-41H1/30-50	9.03E-08	8.75E-08	3.11	2.81E-09	3.89E-05	1.91E-03	6.24E-04	6.44E-04	0.33
00U-41H2/0-10	9.23E-08	9.65E-08	-4.50	-4.15E-09	4.30E-05	2.00E-03	7.55E-04	6.22E-04	0.38
00U-41H2/10-30	1.00E-07	9.67E-08	3.57	3.58E-09	4.86E-05	2.11E-03	8.15E-04	6.49E-04	0.39
00U-41H2/30-50	9.37E-08	9.31E-08	0.68	6.32E-10	3.96E-05	2.00E-03	6.54E-04	6.72E-04	0.33

Table 6f-1b. Magnetic properties of the less than 63-micron size fraction for the 00U-41 transect.

[illegible]

Table 6f-2a. Magnetic properties of the less than 2-mm size fraction for auger hole 00U-42.

Sample #	MSlf (m³/kg)	MShf (m³/kg)	FDMS (%)	FDMS (m³/kg)	ARM (Am²/kg)	IRM1.2 (Am²/kg)	IRM -0.3 (Am²/kg)	HIRM (Am²/kg)	S
00U-42/0-10	4.92E-08	4.83E-08	1.90	9.36E-10	2.72E-04	1.15E-03	3.50E-04	4.00E-04	0.30
00U-42/10-30	5.66E-08	5.84E-08	-3.13	-1.77E-09	2.73E-04	1.30E-03	3.94E-04	4.55E-04	0.30
00U-42/30-50	6.98E-08	6.87E-08	1.56	1.09E-09	2.72E-04	1.42E-03	4.56E-04	4.80E-04	0.32
00U-42/50-63	8.54E-08	8.29E-08	2.90	2.47E-09	3.20E-04	1.70E-03	6.42E-04	5.31E-04	0.38
00U-42/63-74	9.12E-08	8.90E-08	2.43	2.22E-09	3.21E-04	1.83E-03	1.79E-03	1.97E-05	0.98
00U-42/74-87	1.03E-07	9.95E-08	3.09	3.17E-09	3.33E-04	1.97E-03	8.55E-04	5.59E-04	0.43
00U-42/87-95	8.90E-08	8.98E-08	-0.91	-8.06E-10	3.34E-04	1.80E-03	7.04E-04	5.50E-04	0.39
00U-42/95-106	7.89E-08	7.86E-08	0.43	3.41E-10	3.79E-04	1.81E-03	5.44E-04	6.31E-04	0.30
00U-42/106-119	9.01E-08	9.17E-08	-1.84	-1.66E-09	4.17E-04	2.00E-03	6.88E-04	6.57E-04	0.34
00U-42/119-125	1.04E-07	1.05E-07	-1.14	-1.18E-09	3.26E-04	2.11E-03	8.83E-04	6.13E-04	0.42
00U-42/125-133	9.54E-08	9.31E-08	2.39	2.27E-09	3.67E-04	1.91E-03	7.47E-04	5.81E-04	0.39

Table 6f-2b. Magnetic properties of the less than 63-micron size fraction for auger hole 00U-42.

[illegible]

Table 6h-2. Magnetic properties of the less than 2-mm size fraction for auger hole 8U-16.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
8U-16/0-22	2.48E-07	2.41E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
8U-16/22-36	2.52E-07	2.45E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
8U-16/36-51	2.60E-07	2.54E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
8U-16/51-63	2.51E-07	2.45E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
8U-16/63-76	2.14E-07	2.08E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
8U-16/76-89	1.59E-07	1.56E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
8U-16/89-103	1.70E-07	1.68E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
8U-16/103-117	1.64E-07	1.65E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
8U-16/117-131	1.10E-07	1.01E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
8U-16/131-148	1.65E-07	1.63E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
8U-16/148-158	1.47E-07	1.46E-07	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

Table 6h-3. Magnetic properties of the less than 2-mm size fraction for arroyo exposure 9U-21.

Sample #	MSlf (m ³ /kg)	MShf (m ³ /kg)	FDMS (%)	FDMS (m ³ /kg)	ARM (Am ² /kg)	IRM1.2 (Am ² /kg)	IRM -0.3 (Am ² /kg)	HIRM (Am ² /kg)	S
9U-21/0-5	2.17E-07	2.12E-07	0.00	2.17E+00	8.95E-05	3.01E-03	2.44E-03	2.81E-04	0.81
9U-21/5-25	1.58E-07	1.54E-07	0.00	2.38E+00	8.88E-05	2.37E-03	1.82E-03	2.77E-04	0.77
9U-21/25-70	1.82E-07	1.80E-07	0.00	9.76E-01	6.64E-05	2.71E-03	2.30E-03	2.03E-04	0.85
9U-21/70-90	2.16E-07	2.14E-07	0.00	1.10E+00	6.85E-05	3.16E-03	2.71E-03	2.24E-04	0.86
9U-21/90-115	2.67E-07	2.65E-07	0.00	9.83E-01	7.48E-05	4.00E-03	3.45E-03	2.74E-04	0.86
9U-21/115-128	2.08E-07	2.05E-07	0.00	1.37E+00	6.55E-05	3.01E-03	2.51E-03	2.51E-04	0.83
9U-21/128-148	1.48E-07	1.47E-07	0.00	3.85E-01	4.78E-05	2.15E-03	1.76E-03	1.94E-04	0.82
9U-21/148-168	1.77E-07	1.77E-07	-0.00	-9.81E-02	5.80E-05	2.48E-03	1.99E-03	2.46E-04	0.80
9U-21/168-201	1.49E-07	1.48E-07	0.00	6.72E-01	4.81E-05	2.11E-03	1.68E-03	2.19E-04	0.79
9U-21/210-225	1.01E-07	1.01E-07	-0.00	-4.22E-01	3.78E-05	1.38E-03	1.02E-03	1.78E-04	0.74
9U-21/225-250	7.08E-08	6.97E-08	0.00	1.55E+00	3.24E-05	9.87E-04	7.01E-04	1.38E-04	0.72
9U-21/250-300	8.54E-08	8.48E-08	0.00	6.75E-01	3.53E-05	1.16E-03	8.33E-04	1.62E-04	0.72
9U-21/300-345	9.27E-08	9.21E-08	0.00	6.22E-01	4.36E-05	1.33E-03	9.93E-04	1.67E-04	0.75
9U-21/345-375	9.17E-08	9.07E-08	0.00	1.15E+00	4.41E-05	1.34E-03	9.78E-04	1.82E-04	0.73
9U-21/375-440	9.36E-08	9.18E-08	0.00	1.97E+00	4.47E-05	1.36E-03	1.01E-03	1.74E-04	0.74

Table 7. Age data

This table presents age data from ¹⁴C and optically stimulated luminescence (OSL) techniques. See text for field and analytical methodology.

Table 7-1. ¹⁴C age from Virginia Park

Field Sample #	Lab Sample # ¹	Material dated	Stratigraphic unit	Depth below surface (m)	¹⁴ C age ²	Calibrated age ³
8U-14	WW3004	Charcoal in pebbly lens	Base of alluvial fill inset into older dune Sand	0.75	4,580 ± 50	5250 +/- 200

¹Samples processed and lab numbers assigned at ¹⁴C laboratory of the U.S. Geological Survey in Reston, Virginia

²Ages expressed as years before present (1950 A.D.) with 1-sigma uncertainty

³Calibration performed using CALIB program (<http://radiocarbon.pa.qub.ac.uk/calib/>; Stuiver et al., 2003); expressed as cal yr B.P. with 2-sigma uncertainty.

Table 7-2. Equivalent dose (D_e), dose-rates, and optically stimulated luminescence (OSL) ages.

Sample #	Depth (m)	Stratigraphic unit	Grain size analyzed (μm)	D_e (Gy)	'n'±	U (ppm) §	Th (ppm) §	K (%§)	Infinite α dose-rate	Infinite β dose-rate	External α dose-rate 'wet'	External β dose-rate 'wet'	External γ dose-rate 'wet'	Cosmic	Total dose-rate	Age (103 yr) ¶
VP-1, soil pit in dune crest, Virginia Park site																
OSL-1	0.4	Surface soil, B2tk horizon	90-125	26.6 ± 0.6	20	2.22 ± 0.25	6.34 ± 0.82	2.04 ± 0.07	-	2.1	-	1.83	1	0.274	3.10 ± 0.08	8.6 ± 0.3
OSL-1	0.4	Surface soil, B2tk horizon	4-11	28.1 ± 0.5	22	2.22 ± 0.25	6.34 ± 0.82	2.04 ± 0.07	10.8	2.1	0.377	1.98	1	0.274	3.63 ± 0.13	7.7 ± 0.3
OSL-2	0.65	Paleosol, B32tkb horizon	90-125	40.1 ± 0.8	22	2.34 ± 0.21	4.54 ± 0.67	1.98 ± 0.06	-	2.01	-	1.75	0.92	0.248	3.07 ± 0.07	13.8 ± 0.4
OSL-2	0.65	Paleosol, B32tkb horizon	4-11	43.7 ± 0.9	20	2.34 ± 0.21	4.54 ± 0.67	1.98 ± 0.06	9.8	2.01	0.343	1.9	0.92	0.248	3.40 ± 0.12	12.8 ± 0.5
VP-2, soil pit in dune swale, Virginia Park study site																
OSL-3	0.4	Surface soil in reworked(?) eolian Sand, Bwk horizon	90-125	11.4 ± 0.4	23	2.22 ± 0.22	4.97 ± 0.70	1.72 ± 0.06	-	1.81	-	1.58	0.87	0.274	2.72 ± 0.07	4.2 ± 0.2
OSL-3	0.4	Surface soil in reworked(?) eolian Sand, Bwk horizon	4-11	12.0 ± 0.3	19	2.22 ± 0.22	4.97 ± 0.70	1.72 ± 0.06	9.8	1.81	0.343	1.71	0.87	0.274	3.19 ± 0.12	3.8 ± 0.2
OSL-4	0.8	Paleosol in reworked(?) eolian Sand, Btk2b horizon	90-125	21.7 ± 0.4	20	1.77 ± 0.25	6.88 ± 0.82	1.84 ± 0.06	-	1.84	-	1.64	0.93	0.239	2.81 ± 0.07	7.7 ± 0.2
OSL-4	0.8	Paleosol in reworked(?) eolian Sand, Btk2b horizon	4-11	22.5 ± 0.6	22	1.77 ± 0.25	6.88 ± 0.82	1.84 ± 0.06	10	1.84	0.348	1.78	0.93	0.239	3.30 ± 0.12	6.8 ± 0.3
00U-30 transect, dune Sand, Virginia Park																
02U-2	0.44	Between sampling sites F and G	90-125	21.72 ± 0.47	14	2.76 ± 0.26	6.90 ± 0.85	1.87 ± 0.06	-	2.05	-	1.79	1.04	0.274	3.11 ± 0.09	6.99 ± 0.26
8U-14, arroyo cut, Virginia Park site																
OSL-5**	0.73	Alluvial pebbly Sand	90-125	~18 - 31**	16	1.32 ± 0.12	2.62 ± 0.36	1.40 ± 0.03	-	1.36	-	1.18	0.59	0.242	2.01 ± 0.05	~9 - 16**
OSL-5**	0.73	Alluvial pebbly Sand	4-11	~13 - 23**	20	1.32 ± 0.12	2.62 ± 0.36	1.40 ± 0.03	5.6	1.36	0.195	1.28	0.59	0.242	2.30 ± 0.07	~6 - 10**
OSL-6	1.54	Paleosol in eolian Sand	90-125	75.3 ± 1.3	16	1.14 ± 0.08	1.60 ± 0.26	1.14 ± 0.03	-	1.1	-	0.96	0.46	0.216	1.63 ± 0.04	46.1 ± 1.4
OSL-6	1.54	Paleosol in eolian Sand	4-11	74.5 ± 1.3	21	1.14 ± 0.08	1.60 ± 0.26	1.14 ± 0.03	4.3	1.1	0.152	1.04	0.46	0.216	1.87 ± 0.06	40.0 ± 1.4

Table 7-2. Equivalent dose (De), dose-rates, and optically stimulated luminescence (OSL) ages—Continued.

Sample #	Depth (m)	Stratigraphic unit	Grain size analyzed (µm)	De (Gy)	n†	U (ppm) §	Th (ppm) §	K (%)§	Infinite α dose-rate	Infinite β dose-rate	External α dose-rate 'wet'	External β dose-rate 'wet'	External γ dose-rate 'wet'	Cosmic	Total dose-rate	Age (103 yr) ¶
9U-21, arroyo cut, graben-fill site																
02U-3C	1.7	Unit 2 in graben-fill deposits, 2Cb1 horizon	90-125	41.9 ± 0.7	17	2.54 ± 0.21	5.64 ± 0.67	1.59 ± 0.05	-	1.77	-	1.54	0.9	0.216	2.66 ± 0.08	15.8 ± 0.6
02U-3B*	2.8	Unit 3 in graben-fill deposits, 3Cb2 horizon	90-125	43.9 ± 0.8	16	0.99 ± 0.09	2.20 ± 0.30	1.18 ± 0.03	-	1.13	-	0.95	0.47	0.183	1.60 ± 0.05	27.4 ± 1.0
02U-3B*	2.8	Unit 3 in graben-fill deposits, 3Cb2 horizon	4-11	52.6 ± 1.0	20	0.99 ± 0.09	2.20 ± 0.30	1.18 ± 0.03	4.4	1.13	0.146	1.03	0.47	0.183	1.83 ± 0.06	28.8 ± 1.1
02U-3A	6.1	Unit 4 in graben-fill deposits, 3Cb3 horizon	90-125	74.2 ± 1.1	16	1.39 ± 0.20	5.58 ± 0.64	1.24 ± 0.05	-	1.32	-	1.11	0.67	0.131	1.91 ± 0.06	38.8 ± 1.4

* Corresponding Aberystwyth Luminescence Research Laboratory sample codes are as follows: OSL-1 = Aber/59CY1; OSL-2 = Aber/59CY2; OSL-3 = Aber/59CY3; OSL-4 = Aber/59CY4; OSL-5 = Aber/59CY5; OSL-6 = Aber/59CY6; 02U-3C = Aber/71CY3C; 02U-3B = Aber/59CY7; 02U-3A = Aber/71CY3A.

† 'n' is the number of De determinations.

§ Concentrations of U, Th and K were calculated from laboratory-based thick source alpha counting (TSAC) and beta counting measurements of dried, powdered, bulk material, and are shown to 3 significant figures.

|| Dose-rate values (Gy/103 yr) have been rounded to 3 significant figures, but the total dose-rates and ages have been calculated using values prior to rounding. Dose-rates were calculated using an a-value of 0.040 ± 0.002 (Rees-Jones, 1995) where appropriate, and assuming a water content (assessed in the laboratory using sealed field samples, and expressed as % dry mass) of 4 ± 2% for samples OSL-1 to -6, 7 ± 3% for samples OSL-7 and 02U-3A, and 4 ± 3% for samples 02U-3C. The cosmic-ray dose rate was calculated for each sample based on the depth, altitude and geomagnetic latitude (Prescott and Hutton, 1994). Central values are given for dose-rates – errors are incorporated into that given for the total dose-rate.

¶ Luminescence ages are expressed as thousands of years before 2000 A.D., and calculated to 1 decimal place.

** Sample OSL-5 shows scatter in the De distribution, believed to be the result of incomplete bleaching on deposition. For this sample, De ranges and age ranges are therefore presented in the table, all of which may overestimate the true depositional age.