



Physical, Chemical, Ecological, and Age Data and Trench Logs from Surficial Deposits at Hatch Point, Southeastern Utah

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Introduction

This report presents data and describes the methodology for physical, chemical and ecological measurements of sediment, soil, and vegetation, as well as age determinations of surficial deposits at Hatch Point, Canyon Rims area, Colorado Plateau, southeastern Utah (fig. 1).

The results presented in this report support a study that examines geomorphic and soil factors that may influence boundaries between shrubland and grassland ecosystems in the study area. Shrubland ecosystems dominated by sagebrush (*Artemisia tridentata*) and grassland ecosystems dominated by native perennial grasses (for example, *Hilaria jamesii* and *Sporobolus* sp.) are high-priority conservation targets for the Federal Bureau of Land Management (BLM) and other resource managers because of their diversity, productivity, and vital importance as wildlife habitat. These ecosystems have been recognized as imperiled on a regional scale since at least the mid-1990s due to habitat loss (type conversions), land-use practices, and invasive exotic plants (Noss and others, 1995). In the Intermountain West, the exotic annual cheatgrass (*Bromus tectorum*) is recognized as one of the most pervasive and serious threats to the health of native sagebrush and grassland ecosystems through effects on fire regimes and resource conditions experienced by native species (Billings, 1990; Norton and others, 2004).

Managers require information concerning patterns and underlying mechanisms of exotic plant invasion to support monitoring, restoration, and other management actions that may be necessary for sustaining the native diversity and productivity of sagebrush and grassland ecosystems. In the Canyon Rims area of San Juan County, Utah, grassland sites located in the midst of sagebrush-dominated landscapes are commonly infested with dense populations of cheatgrass or other exotic annual plants such as stork's bill (*Erodium cicutarium*). Recent observations suggest that soil properties may play a significant role in shaping distributional patterns of sagebrush and

weed-infested grasslands in the Canyon Rims area, and that patterns in critical soil properties may be controlled by geomorphic processes and predicted on the basis of landscape attributes.

Methods

Site Selection and Sampling Locations

Sampling locations within the study area were selected primarily by the occurrence of abrupt boundaries between grassland vegetation typically dominated by cheatgrass and shrubland vegetation dominated by sagebrush (table 1). Additional sampling locations were selected where distinct boundaries occurred between cheatgrass-dominated grasslands and vegetation patches of stork's bill. Soil samples for physical and chemical property measurements were collected by augering and from trenches and shallow soil pits. Site CS1 (fig. 2) is located along the Anticline Overlook road, past the turnoff to the Needles Overlook (fig. 1). This is the most extensively studied site where a large cheatgrass area ($\sim 2.5 \text{ km}^2$) is surrounded by sagebrush. At this site, auger samples were collected mainly along downslope and cross-slope transects that crossed vegetation boundaries. Samples collected from shallow soil pits supplemented those collected from downslope and cross-slope auger transects. Additional auger samples were collected from stand-alone sites located within sagebrush vegetation zones. Two trenches were excavated at this site, both of which cross abrupt boundaries between grass- and shrub-dominated vegetation zones. Site CS2 (fig. 3) is located adjacent to the Needles Overlook road. At this site, cheatgrass is abundant in grassland vegetation located along the path of a west-east-trending paleodrainage and is flanked on both sides by sagebrush. At this site, one trench was excavated across the cheatgrass–sagebrush boundary on the southern edge. Site CS3 (fig. 4) is located north of Fossil Dune along the Needles Overlook road. Four auger holes were sampled at this site; two in sagebrush and two in grassland areas. Site CS4 (fig. 5) is located northeast of CS1 along the Anticline Overlook Road. A trench was excavated at this site across a cheatgrass–sagebrush boundary. Site CS5 (fig. 6) is located east of sites CS2 and CS3 where one trench was excavated across a cheatgrass–sagebrush boundary. Site CS6 (fig. 7) is located southeast of CS3 along the Needles Overlook road. Two soil pits were excavated in grassland areas at this site.

Trench Logging

Stratigraphic unit boundaries exposed within each trench were delineated based on various sediment characteristics and were marked on the trench wall with nails. A horizontal baseline string with 1-m markings was attached to the trench wall, and all stratigraphic unit boundaries, as well as the top and bottom of the trench were measured with a tape measure relative to this horizontal baseline. Measured points were transcribed onto graph paper at a vertical and horizontal scale of 5 in. = 1 m. All boundaries were drawn and verified in the field. Upon return to the office, the trench logs were transferred to digital form (figs. 8–13).

Sampling

Auger samples were collected from each bucket retrieved, typically representing <18-cm intervals. All trench samples were attributed with soil-horizon designations determined on the basis of field observations (Birkeland, 1999; figs. 8–13). Shallow soil pits were dug to 50 cm, and sampled at 0–10 cm, 10–30 cm, and 30–50 cm. All samples were collected for laboratory analyses.

Field Measurements

Field measurements (table 2) of ground cover and plant-community composition were made at all sites. At the trench sites, pen penetrometer and magnetic-susceptibility measurements were taken at systematic depth intervals along the face of the trench wall. Penetration resistance in interspaces among plants was measured at all trench sites, and root densities were measured by depth and root size class in both vegetation zones of two trenches (trench 1A and 2). In addition, soil profiles exposed at trench sites and soils retrieved at some auger sites were described (tables 2 and 3; figs. 8–13) following Birkeland (1999).

Ground Cover and Plant Community Composition

At trench sites, data on ground cover and plant-community composition in August 2006 were collected following the step-point technique (Coulloudon and others, 1999; table 4). Data for ground cover and plant-community composition were recorded for 100–200 subsample points (approximately 1-mm diameter) placed at 4-pace intervals along pace transects that spanned grass

and shrub vegetation zones within 50 m of the trench. Each pace transect crossed the vegetation zone 3–5 times, with total transect length ranging from 150 to 300 m. In May 2005, ground cover and plant community composition were sampled at site CS1 using the line-point intercept technique (Herrick and others, 2005; table 4). A 1-mm diameter pin was dropped at 1-m intervals along transects that traversed each vegetation zone. At each pin drop, data were recorded to indicate plant species and soil-surface features intercepted by the vertically placed pin. Two transects and 100 points were sampled in the shrub zone, three transects and 150 points were sampled in the exotic forb zone, and six transects and 227 points were sampled in the grass zone. At other sampling locations, ground cover and plant-community composition were characterized in May 2005 on the basis of ocular estimates (Bonham, 1989; table 4).

Root Density

Root densities were measured by depth and root-size class in trenches 1A and 2 using a 1-m x 1-m sampling frame that was subdivided into 100 10-cm x 10-cm grid cells with string (van Noordwijk and others, 2000). In shrub and grass zones within these two trenches, sampling was conducted within a 2-m-wide zone that extended from the soil surface to the bottom of the trench. Within each 10-cm x 10-cm grid cell, roots emerging from the trench wall were clipped to a length of 1 cm and counted, with root counts categorized by size classes defined on the basis of root diameter (Schoeneberger and others, 2002). Data for root densities are reported as mean numbers of root intersections per cm² by root-size class and depth beneath the soil surface (table 5).

<i>Root size class</i>	<i>Diameter</i>
Very fine	< 1mm
Fine	1 to < 2 mm
Medium	2 to < 5 mm
Coarse	5 to < 10 mm
Very coarse	>= 10 mm

Size classes of roots used for measurements
of root densities (Schoeneberger and others, 2002).

Sediment Strength and Soil Penetration Resistance

Sediment strength measurements were made at trench sites with a spring-piston-style pocket penetrometer and are reported as kg/cm² of compressive strength. Measurements were collected vertically at the ground surface (0–1 cm) as well as horizontally along vertical transects (every 5- to

10-cm depth) across the exposed trench wall of trenches 1A, 2, and 5. Three measurements were taken at each depth interval (tables 2 and 6; figs. 8, 11, and 13).

At site CS1 and at all trench sites, soil-penetration resistance (an indicator of soil compaction) was measured in interspaces among plants with an impact penetrometer (Herrick and others, 2005). Penetration resistance was recorded as the number of strikes required for the impact penetrometer to penetrate the soil surface to a depth of 10 cm at trench sites and to a depth of 20 cm at site CS1, where a "strike" is defined by the impact caused by dropping a 2.006 kg weight from a height of 60 cm. Data were collected separately for grass and shrub zones with a sample size of 15–25 in each zone, and separately for grass, exotic annual forb (*Erodium cicutarium*), and shrub zones with a sample size of 15 strikes per zone at the trench sites and 12 strikes per zone at site CS1 (figs. 14 and 15).

Magnetic Susceptibility

Magnetic susceptibility (MS) measurements were made at all trench sites to characterize the variations in magnetic minerals between and within stratigraphic units and between trench sites (table 7). Measurements were collected using a hand-held magnetic susceptometer along the trench faces every 1–2 m horizontally and at 10-cm intervals vertically (figs. 8, 9, 11, 12, and 13). In these surficial deposits, variations in MS primarily indicate variable concentrations of strongly magnetic minerals, especially detrital titaniferous magnetite (Reynolds and others, 2006). In the study area, detrital magnetite represents eolian dust because bedrock units lack magnetite. Surficial processes involving redistribution of deposited dust can locally affect magnetite concentration. Magnetite susceptibility may also be influenced by pedogenic factors, such as development of iron oxide minerals, particularly in paleosols (Dearing and others, 1996). Variations in MS, therefore, are caused by changes in dust sources, physical sorting related to redistribution of deposited dust, and pedogenesis.

Laboratory Analysis

Samples were analyzed at the U.S. Geological Survey (USGS) Earth Surface Processes soils and magnetics laboratories (Denver, Colo.) for hygroscopic moisture factor, calcium carbonate percent, particle size, bulk density and magnetic properties (table 8). The soil analyses followed the protocols outlined in Singer and Janitzky (1986). Bulk geochemical analysis was performed by the

USGS Geologic Discipline geochemistry laboratory (Denver, Colo.; table 8). Plant essential chemical analysis was performed by the Plant and Soil Analysis Laboratory at Brigham Young University (table 8).

Age determinations were made on selected trench samples by Carbon-14 (^{14}C) and optically stimulated luminescence (OSL) methods (table 8). The Carbon-14 sample was prepared at the ^{14}C laboratory of the USGS (Reston, Va.), and the age was determined by accelerator mass spectrometry (AMS) at the Center for Accelerator Mass Spectrometry (CAMS), Lawrence Livermore National Laboratory, Livermore, Calif. Optically stimulated luminescence ages were determined at the Luminescence Dating Research Laboratory, University of Illinois at Chicago.

Hygroscopic Moisture Factor

The hygroscopic moisture factor (table 8) 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 8) was measured using a Chittick apparatus (Dreimanis, 1962) as described by Machette (1986) whereby 6N 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.

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

$\text{CaCO}_3 \%$ = 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 Malvern¹ laser analyzer. Trench samples are reported in both Wentworth (Wentworth, 1922) and U.S.D.A. (Soil Survey Staff, 1975) scales, and all other samples are reported in the Wentworth scale only (tables 8 and 9). Prior to analysis, all samples were prepared by digesting organic matter and CaCO₃ using 30 percent H₂O₂ and 10 percent HCl, respectively, and sodium hexametaphosphate was added to each sample to de-flocculate clays.

Bulk Density

Sediment bulk density was determined on auger and trench samples. Two methods were employed for these measurements: 1) A soil bulk-density sampler and 2) the paraffin clod method (table 8). A soil bulk-density sampler collects material in a cylinder of known volume. It is driven 10 cm into the ground either vertically at the surface or horizontally into a trench wall below the ground surface. The material collected in the cylinder is then weighed to obtain a weight per volume. The paraffin clod method as described in Singer and Janitzky (1986) measures bulk density on soil peds (aggregation of soil material). For sampling intervals where the peds were preserved after collection, at least two peds were measured.

Magnetic Properties

Magnetic properties were determined on the <2-mm-size fraction (tables 8 and 10). 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 $2 \times 10^{-9} \text{ m}^3/\text{kg}$. Samples were measured in a 0.1-mT (millitesla) induction at a

¹ Use of trade names is for descriptive purposes only and does not imply endorsement by the U.S. Geological Survey.

low frequency of 600 Hz (MS_{lf}) and high frequency of 6,000 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 and isothermal remanent magnetization experiments were made by using a high-speed spinner magnetometer. Anhysteretic remanent magnetization was imparted in a decreasing alternating field from a peak induction of 100 mT and a DC (direct current) bias of 0.1 mT. IRM magnetizations were generated at room temperature by using an impulse magnetizer. First, IRM was imparted in a 1.2-T induction ($IRM_{1.2T}$). The samples then were magnetized in the opposite direction by using an induction of 0.3 T ($IRM_{0.3T}$). Hard isothermal remanent magnetization (HIRM) and the S-parameter were calculated as follows (King and Channel, 1991):

$$HIRM = (IRM_{1.2T} + IRM_{0.3T})/2;$$

$$S = IRM_{0.3T} / IRM_{1.2T}$$

Geochemical Analysis

Samples were analyzed for chemical properties by inductively coupled plasma–atomic emission spectrometry (ICP–AES), inductively coupled plasma–mass spectrometry (ICP–MS) and Instrumental Neutron Activation Analysis (INAA) techniques (tables 8 and 11) (Lichte and others, 1987; Baedeker and McKown, 1987). Sediment samples were analyzed on the <2-mm-size fraction and were finely ground using a shatterbox prior to analysis.

Plant Essential Chemical Analysis

Soil samples were air-dried and analyzed for electrical conductivity (EC) and pH (saturated paste extract); cation exchange capacity (CEC; Na displacement by 1M NH_4OAc at pH 7.0); organic matter (OM) content (Walkley and Black method; Singer and Janitzky, 1986); KCl-extractable S (SO_4 -S); $NaHCO_3$ -extractable P (P-Bicarb) and K (K-av); total Kjeldahl N (TKN); amounts of micronutrients Mn, Fe, Cu, and Zn extractable with diethylenetriaminepentaacetic acid (Mn-Dtpa, Fe-Dtpa, Cu-Dtpa, and Zn-Dtpa); and amounts of exchangeable cations Ca^{2+} , Mg^{2+} , K^+ ,

and Na⁺ extractable with NH₄OAc buffered to pH 8.5 (Ca-Ex, Mg-Ex, K-Ex, and Na-Ex) (tables 8 and 12).

Age Determination

C-14

Charcoal from the contact between unit 1 and 2 in trench 1A was sampled and placed into a plastic bag using a metal trowel. 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 ¹⁴C dated using accelerator mass spectrometry. The raw ¹⁴C age was later converted to calibrated years BP (cal yr BP) using the CALIB program of Stuiver and others (2003) (table 13). Calibration of the raw ¹⁴C age 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

Optically Stimulated Luminescence samples were taken from trench walls by using PVC pipe hammered horizontally and by excavating large blocks where the sediment was highly cohesive and (or) cemented. All samples were collected during the night and were preserved by wrapping the capped ends of the PVC with electrical tape and by wrapping the blocks in thick black tarp material and taped together so that the sample remained in complete darkness. The polymineral fine-grained fraction (4–11 µm) was dated using the double single aliquot regeneration protocols, which entail an initial infrared (880 ± 40 nm) excitation followed by blue light (470 ± 20 nm) exposure (Murray and Wintle, 2003; Banerjee and others, 2001). This analytical approach was validated by dating the fine-grained quartz fraction (4–11 µm), which yielded ages that overlap at 2-sigma with the polymineral age (table 13). Sample 06U-4/145cm from trench 5 was undatable due to insufficient luminescence.

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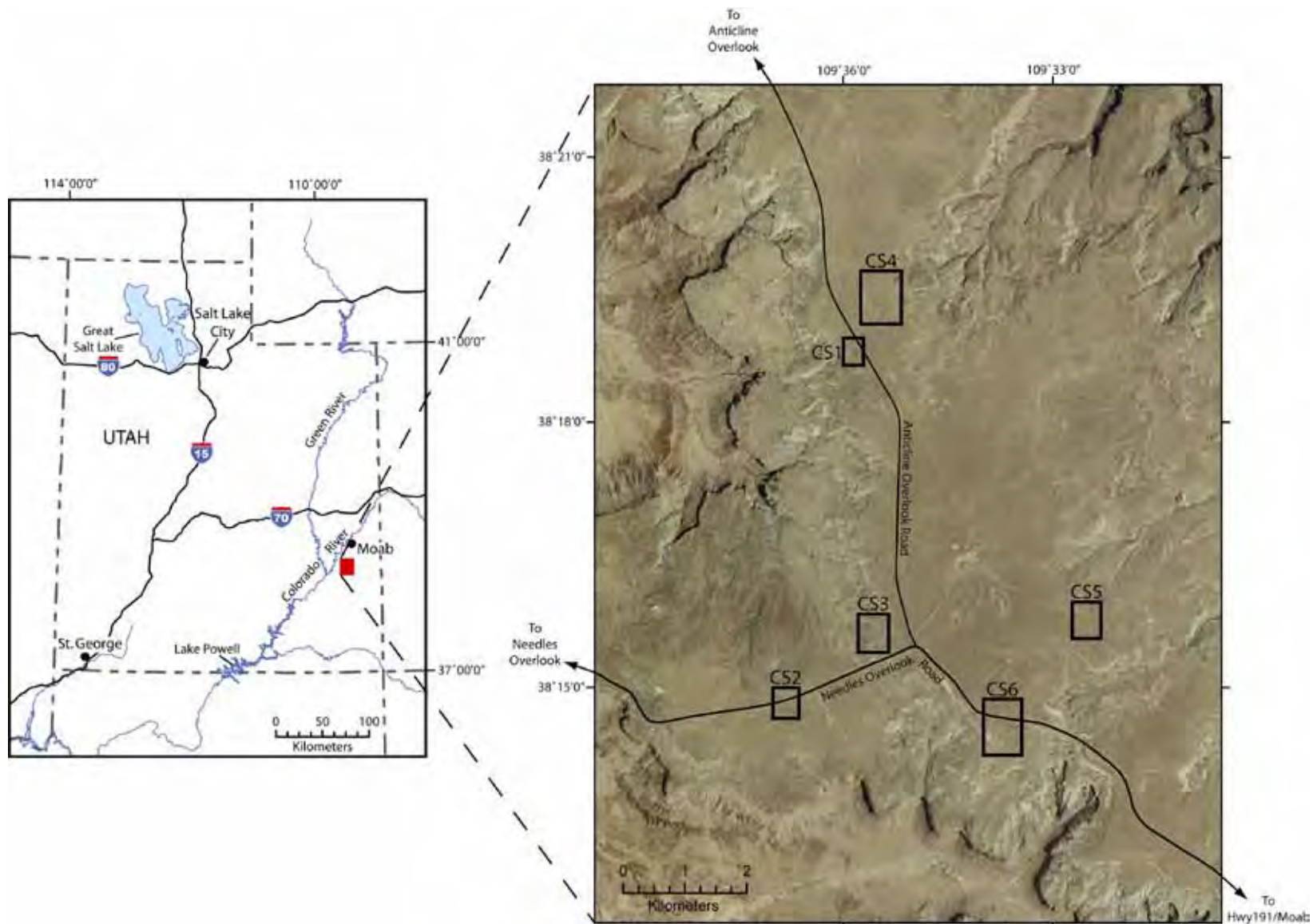


Figure 1. Location map of Hatch Point study area including sampling sites CS1 through CS6. Base image is from National Agriculture Imagery Program (NAIP) 1-m color orthophotograph.

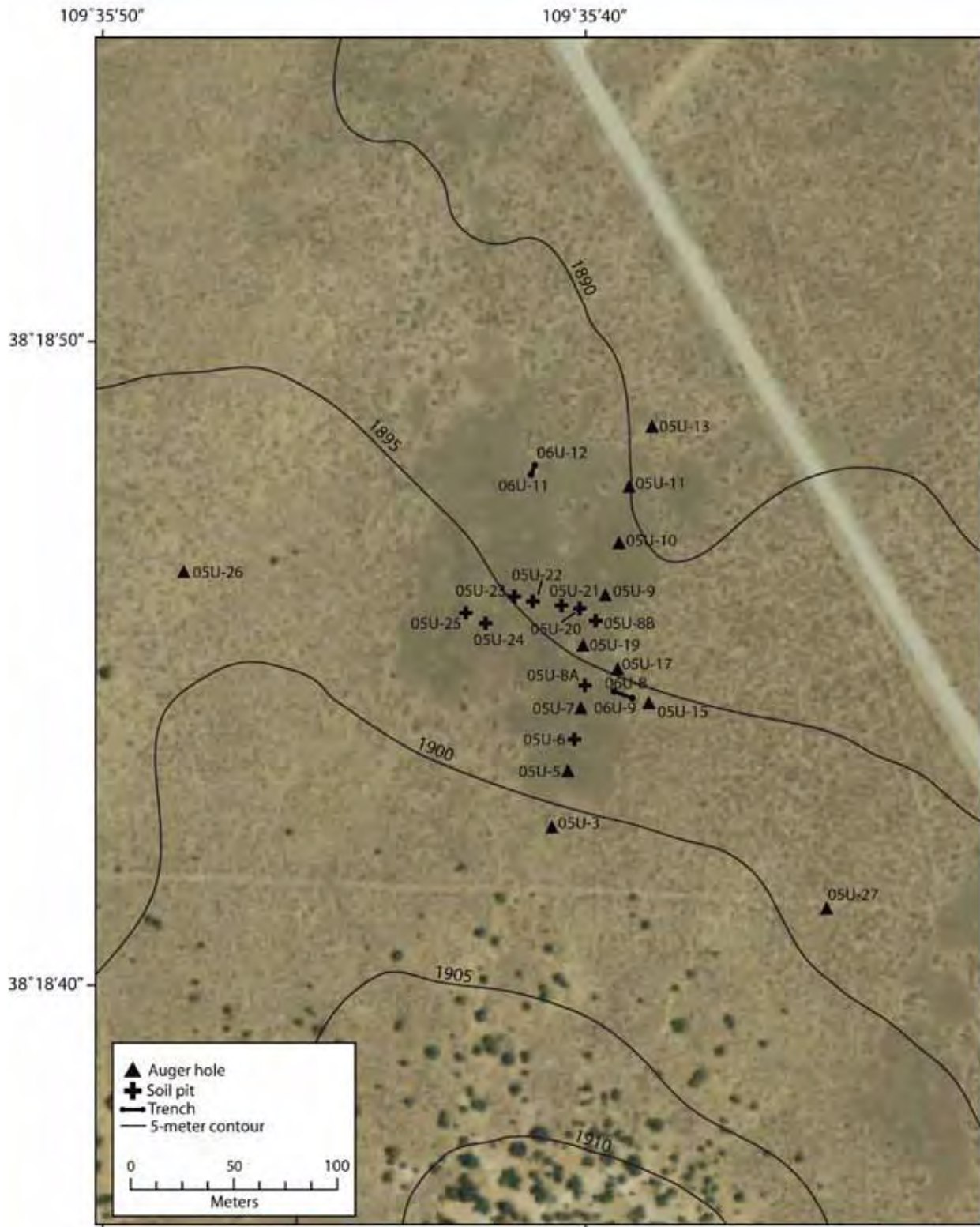


Figure 2. Location map of CS1 sampling sites. Base image is from National Agriculture Imagery Program (NAIP) 1-meter color orthophotograph. Contours extracted from a 10-meter National Elevation Dataset Digital Elevation Model.



Figure 3. Location map of CS2 sampling sites. Base image is from National Agriculture Imagery Program (NAIP) 1-meter color orthophotograph. Contours extracted from a 10-meter National Elevation Dataset Digital Elevation Model.

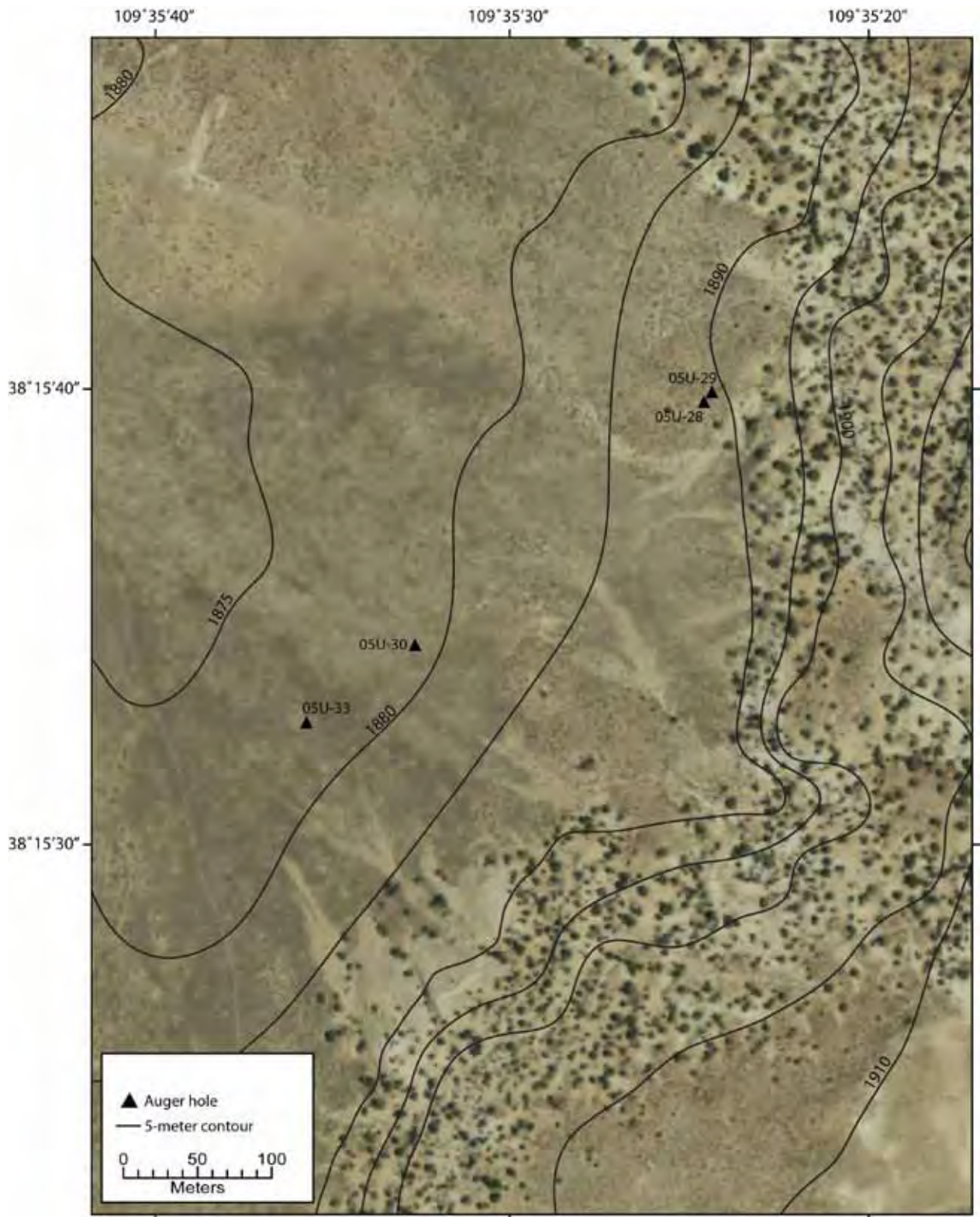


Figure 4. Location map of CS3 sampling sites. Base image is from National Agriculture Imagery Program (NAIP) 1-meter color orthophotograph. Contours extracted from a 10-meter National Elevation Dataset Digital Elevation Model.

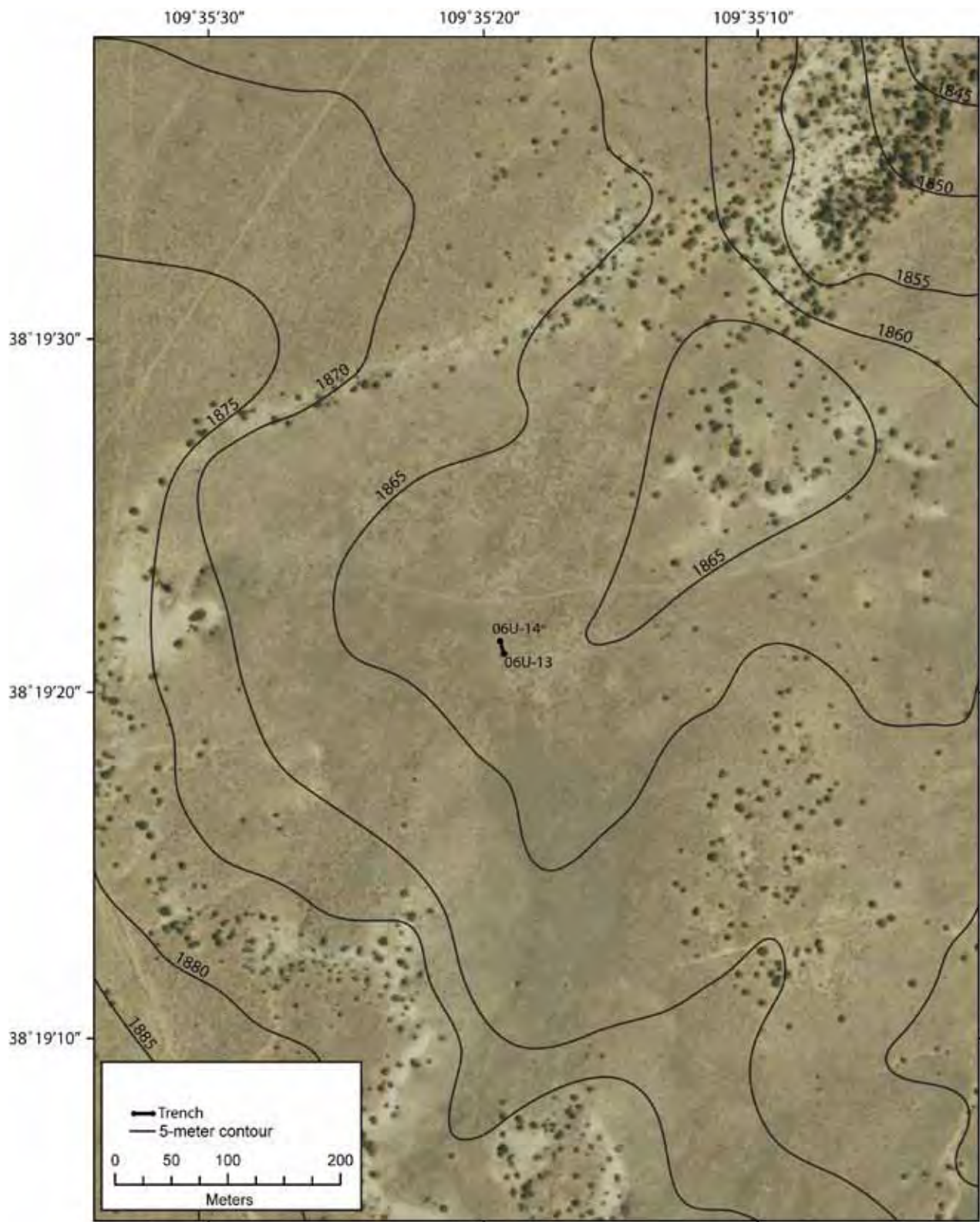


Figure 5. Location map of CS4 sampling sites. Base image is from National Agriculture Imagery Program (NAIP) 1-meter color orthophotograph. Contours extracted from a 10-meter National Elevation Dataset Digital Elevation Model.



Figure 6. Location map of CS5 sampling sites. Base image is from National Agriculture Imagery Program (NAIP) 1-meter color orthophotograph. Contours extracted from a 10-meter National Elevation Dataset Digital Elevation Model.

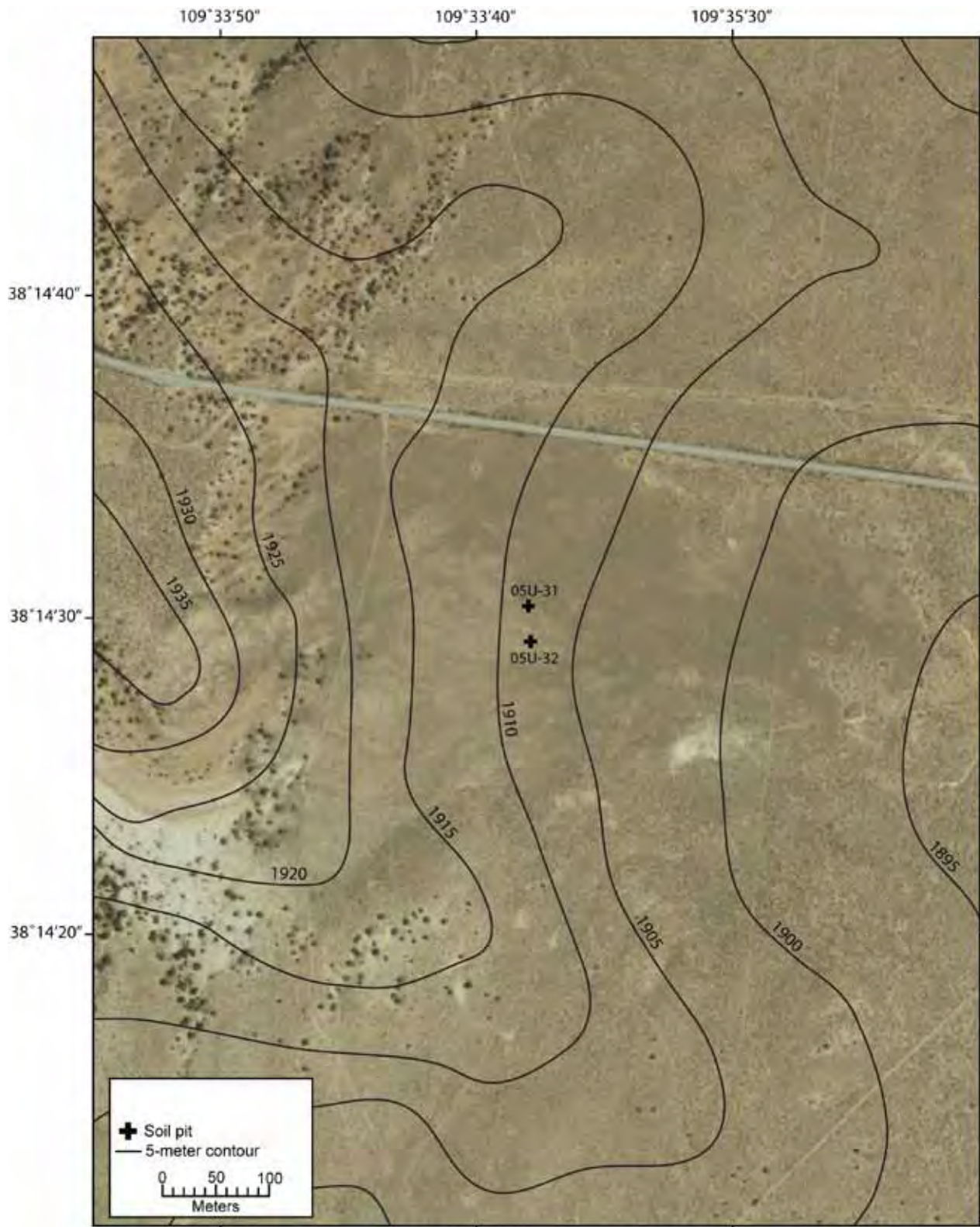


Figure 7. Location map of CS6 sampling sites. Base image is from National Agriculture Imagery Program (NAIP) 1-meter color orthophotograph. Contours extracted from a 10-meter National Elevation Dataset Digital Elevation Model.

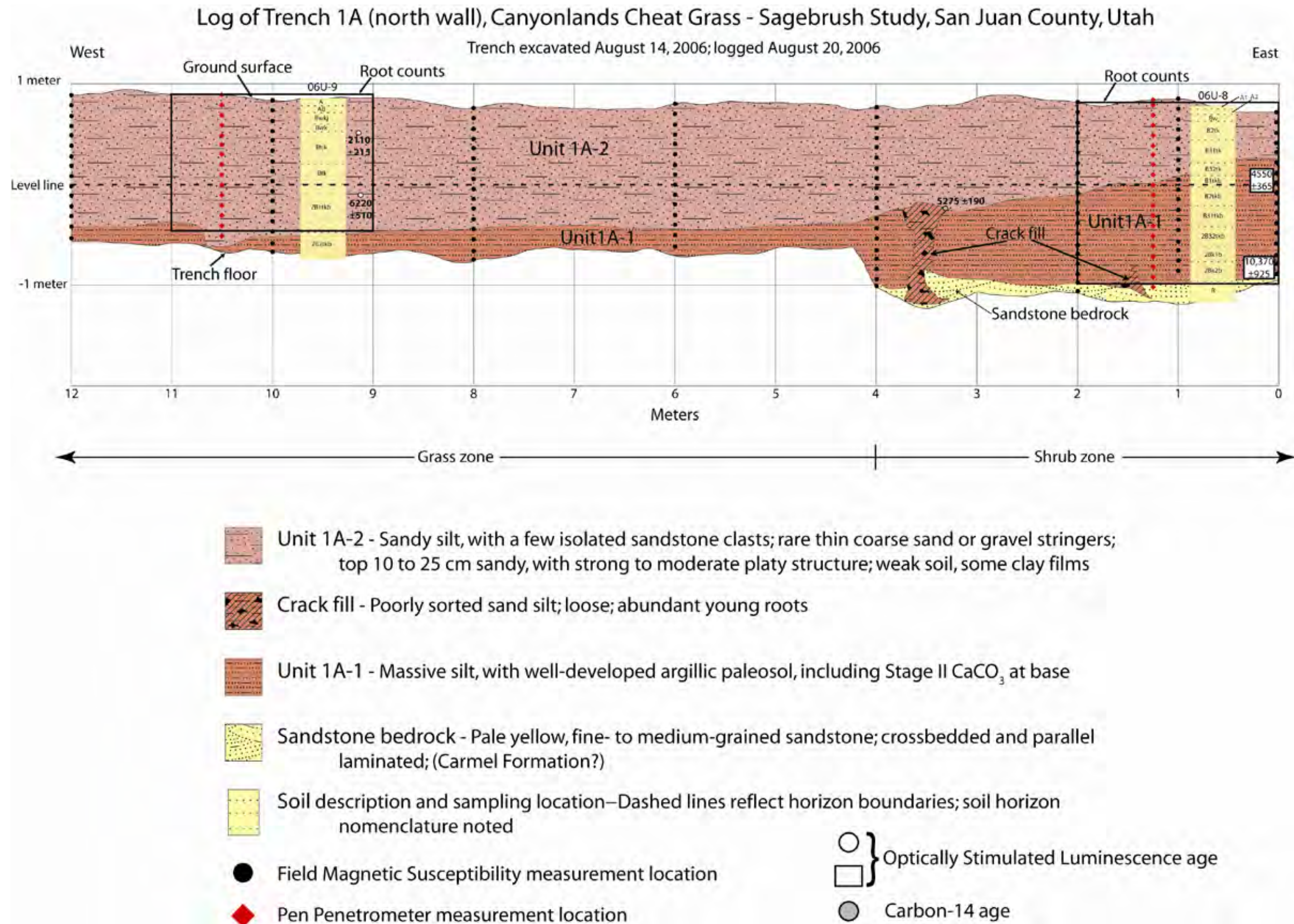
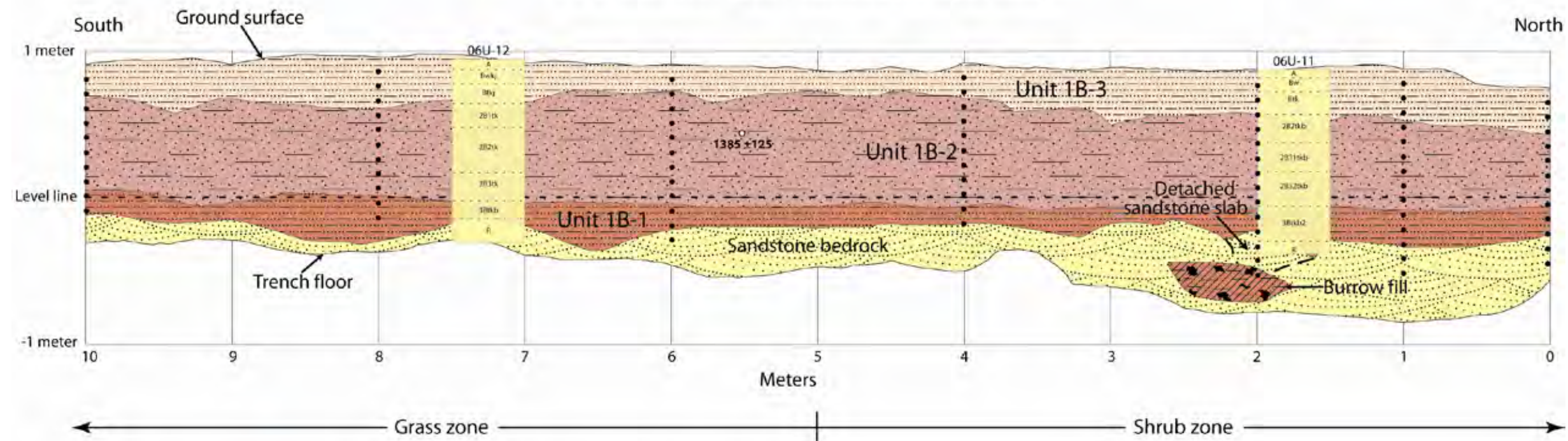


Figure 8. Log of Trench 1A (north wall).

Log of Trench 1B (west wall), Canyonlands Cheat Grass - Sagebrush Study, San Juan County, Utah

Trench excavated August 14, 2006; logged August 20, 2006



Burrow Fill - Poorly sorted sandy silt; loose



Unit 1B-3 - Silt and sand, with a few sand laminae at base; platy structure



Unit 1B-2 - Sandy silt, with a few isolated sandstone clasts; rare thin coarse sand or gravel stringers



Unit 1B-1 - Massive silt; forms paleosol on top of underlying sandstone; includes some infiltrated silt and clay from overlying unit



Sandstone bedrock - Pale yellow, fine- to medium-grained sandstone; crossbedded and parallel laminated; (Carmel Formation?)



Soil description and sampling location—Dashed lines reflect horizon boundaries; soil horizon nomenclature noted



Field Magnetic Susceptibility measurement location

Figure 9. Log of Trench 1B (west wall).

Log of Trench 2 (east wall, partial), Buried Channel, Canyonlands Cheat Grass - Sagebrush Study, San Juan County, Utah

Trench excavated August 14, 2006; logged August 16, 2006

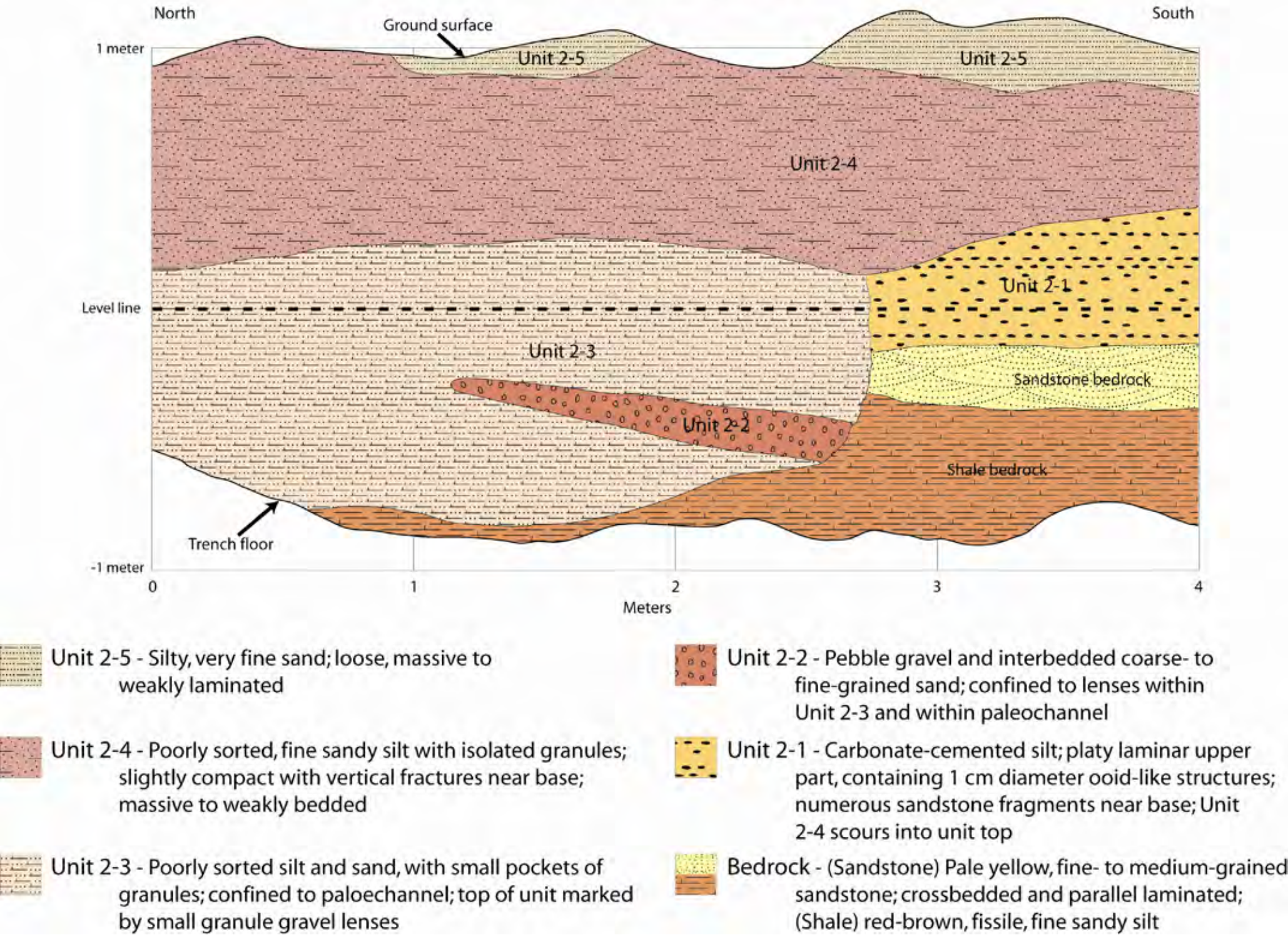


Figure 10. Log of Trench 2 (east wall, partial).

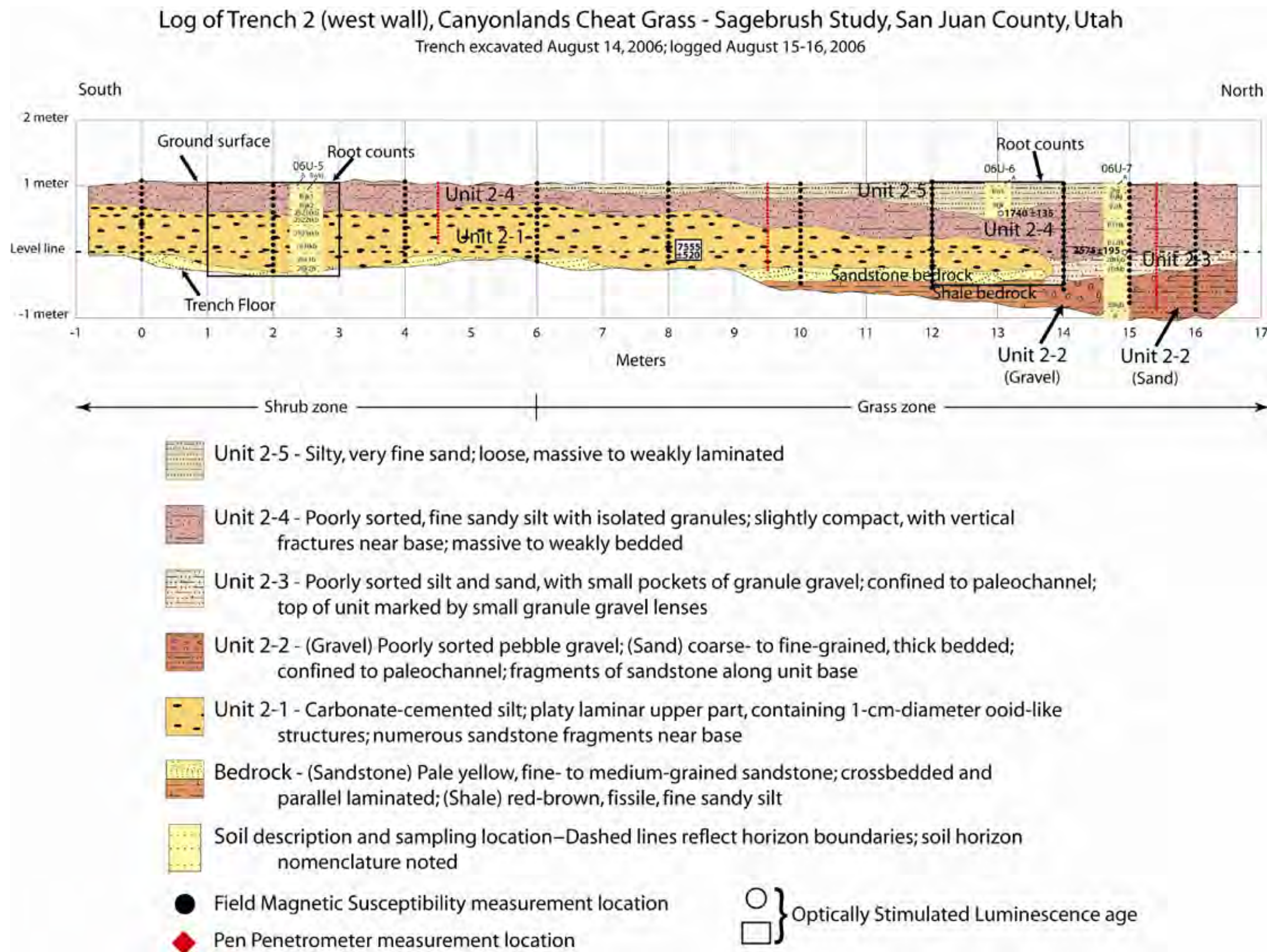


Figure 11. Log of Trench 2 (west wall).

Log of Trench 4 (north wall), Canyonlands Cheat Grass - Sagebrush Study, San Juan County, Utah

Trench excavated August 14, 2006; logged August 21, 2006

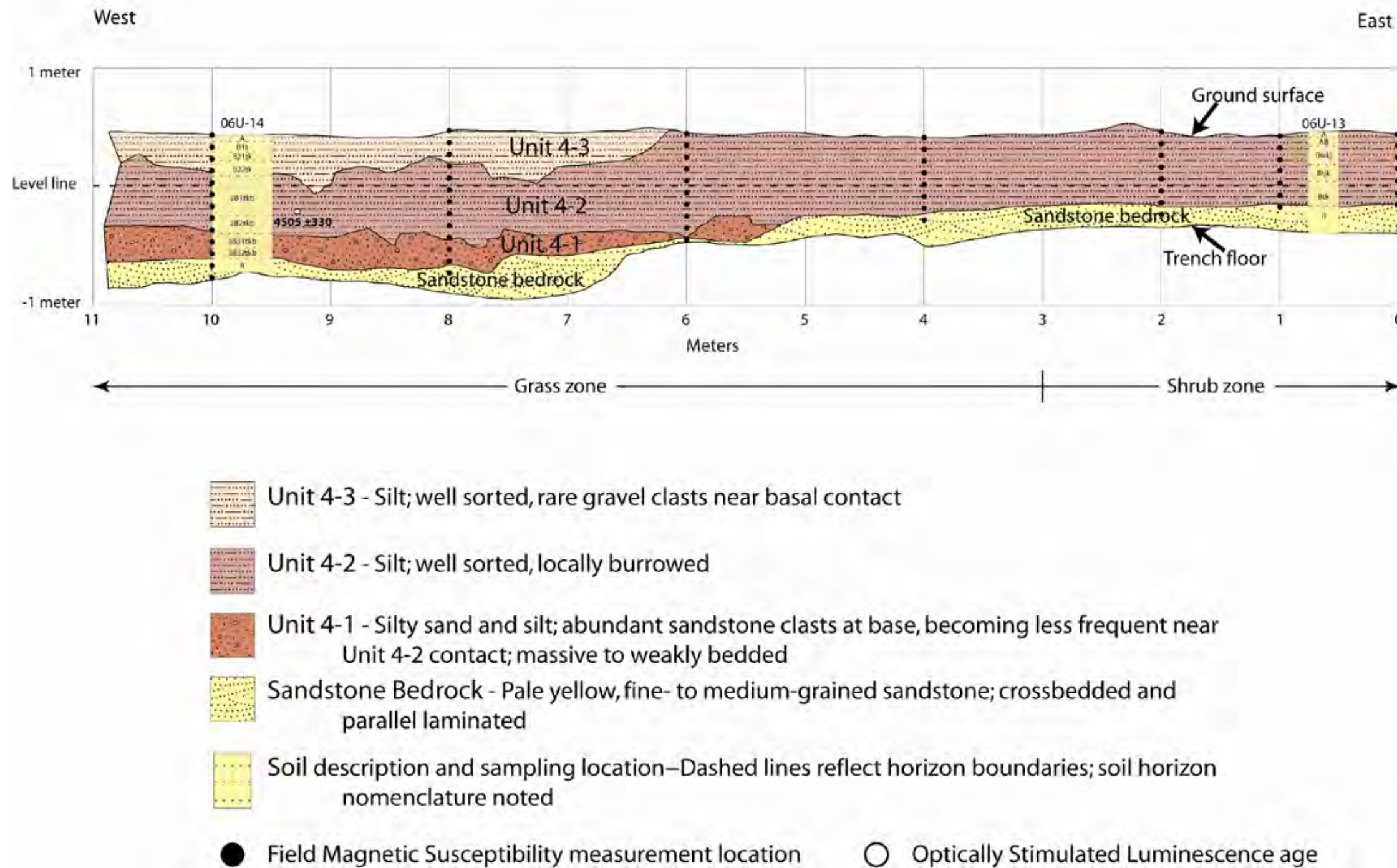


Figure 12. Log of Trench 4 (north wall).

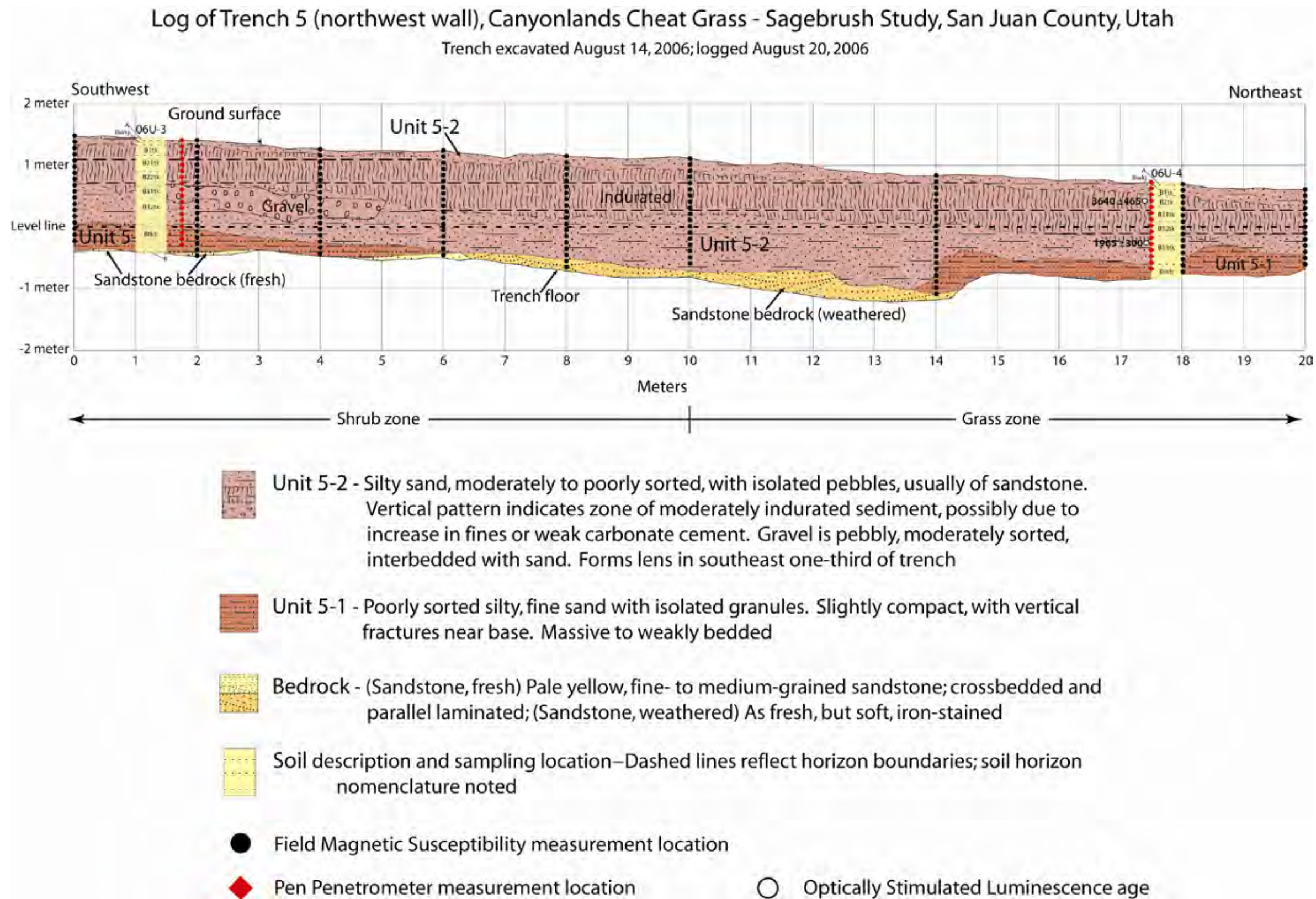


Figure 13. Log of Trench 5 (north wall).

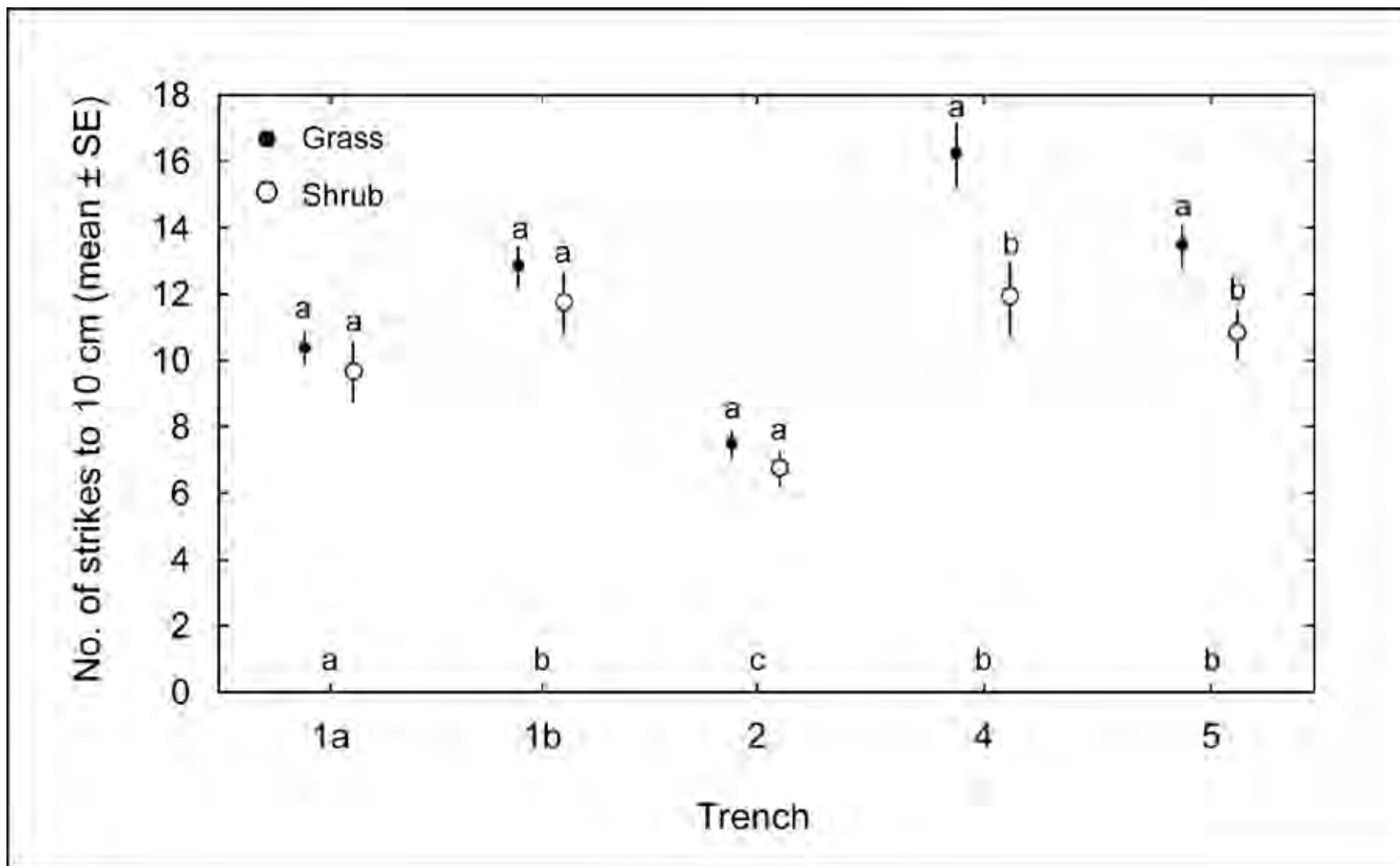


Figure 14. Soil penetration resistance (mean no. of strikes to 10 cm, $\pm$ 1SE) in grass and shrub vegetation zone associated with the five trenches. For each trench, grass and shrub means annotated with the same letter (a or b) are not significantly different. In the lower portion of the graph, trenches sharing the same letter (a, b, or c) have overall means that are not significantly different.

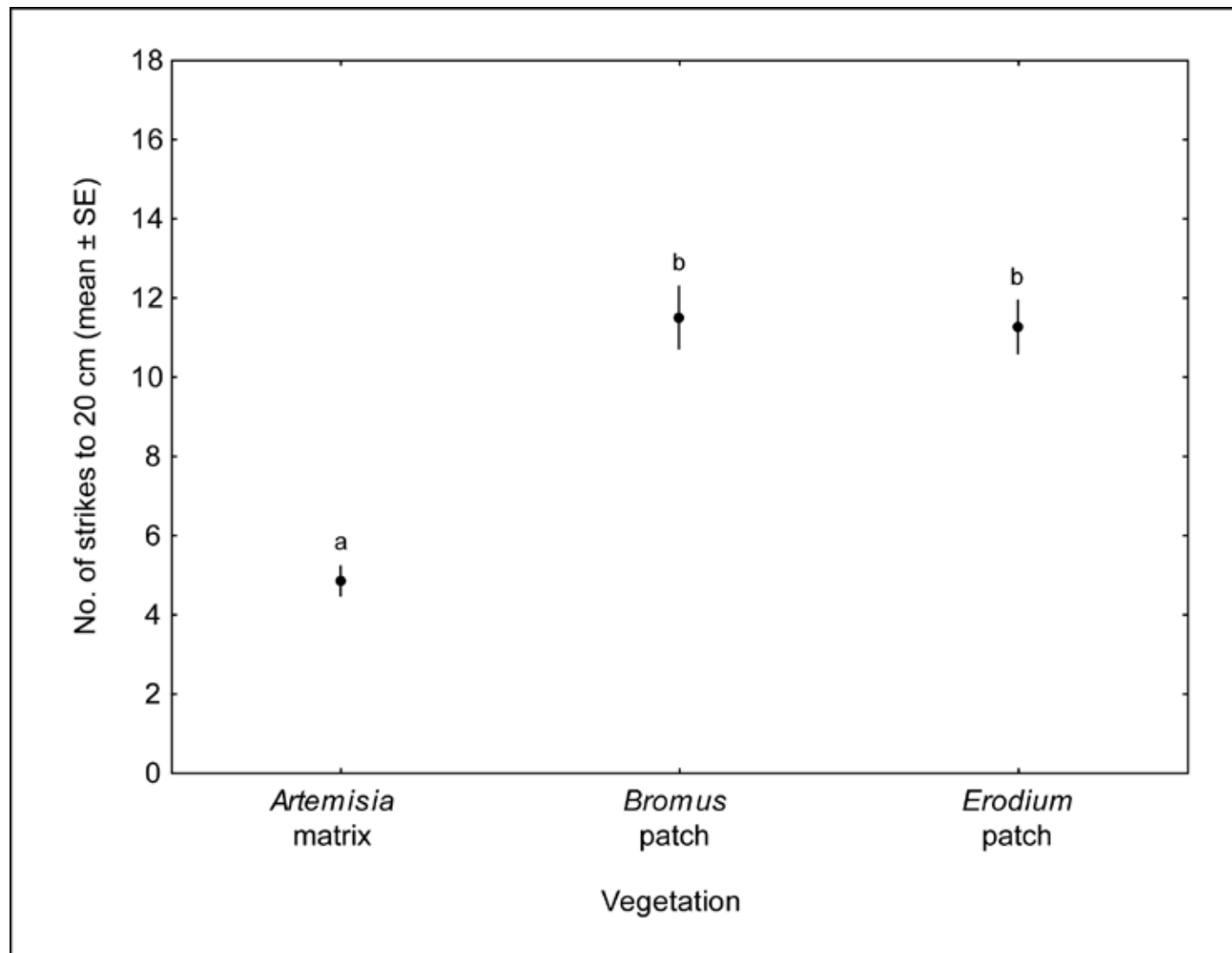


Figure 15. Soil penetration resistance (mean no. of strikes to 20 cm, ± 1 SE) in three vegetation zones at study site CS1. Means annotated with the same letter (a or b) are not significantly different.

Table 1. Site locations

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

Site Type: The specific method used to sample: 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 the uppermost soil pit sample (0–10 cm) however, below 10 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. Soil pits are hand-dug excavations approximately 50 cm deep, and samples were collected from the 0–10 cm, 10–30 cm, and 30–50 cm depths. Trench samples for sedimentological analyses were collected in accordance to soil horizon designations (Birkeland, 1999) and trench samples for OSL age determinations were strategically collected to obtain stratigraphic-age relationships.

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

Latitude/Longitude: Location of each sampling site, reported in NAD83 decimal degrees.

Elevation: Elevation of sample sites, extracted from a 10-m National Elevation Dataset Digital Elevation Model.

Sampling Scheme: Association of sampled sites. Down slope transect–sample site is part of a larger array of sample sites that form a down-slope transect;

Cross-slope transect–sample site is part of a larger array of sample sites that form a cross-slope transect; stand alone– sample site is not part of a transect array;

trench–sample site is a large single excavation that crosses a prominent vegetation boundary.]

Location Name	Site Type	Sample Site Designation	Dominant Vegetation Type	Latitude	Longitude	Elevation (meters)	Sampling Scheme	Purpose
CS1	Auger	05U3	<i>Artemisia tridentata</i>	38.3118	-109.5947	1,901.60	Down-slope transect	sediment analysis
CS1	Auger	05U5	<i>Bromus tectorum</i>	38.3120	-109.5946	1,899.90	Down-slope transect	sediment analysis
CS1	Soil Pit	05U6	<i>Bromus tectorum</i>	38.3122	-109.5946	1,899.50	Down-slope transect	sediment analysis
CS1	Auger	05U7	<i>Bromus tectorum</i>	38.3123	-109.5945	1,898.10	Down-slope transect	sediment analysis

Table 1. Site locations—Continued

Location Name	Site Type	Sample Site Designation	Dominant Vegetation Type	Latitude	Longitude	Elevation (meters)	Sampling Scheme	Purpose
CS1	Soil Pit	05U8A	<i>Bromus tectorum</i>	38.3124	-109.5945	1,897.80	Down-slope transect	sediment analysis
CS1	Soil Pit	05U8B	<i>Bromus tectorum</i>	38.3127	-109.5944	1,896.40	Down-slope transect	sediment analysis
CS1	Auger	05U9	<i>Bromus tectorum</i>	38.3128	-109.5944	1,895.50	Down-slope transect	sediment analysis
CS1	Auger	05U10	<i>Bromus tectorum</i>	38.3130	-109.5943	1,894.50	Down-slope transect	sediment analysis
CS1	Auger	05U11	<i>Bromus tectorum</i>	38.3133	-109.5943	1,893.50	Down-slope transect	sediment analysis
CS1	Auger	05U13	<i>Artemisia tridentata</i>	38.3135	-109.5941	1,892.40	Down-slope transect	sediment analysis
CS1	Auger	05U15	<i>Artemisia tridentata</i>	38.3123	-109.5942	1,897.10	Cross-slope transect	sediment analysis
CS1	Auger	05U17	<i>Bromus tectorum</i>	38.3125	-109.5943	1,897.40	Cross-slope transect	sediment analysis
CS1	Auger	05U19	<i>Artemisia tridentata</i>	38.3126	-109.5945	1,896.90	Cross-slope transect	sediment analysis
CS1	Soil Pit	05U20	<i>Erodium cicutarium</i>	38.3127	-109.5945	1,896.40	Cross-slope transect	sediment analysis
CS1	Soil Pit	05U21	<i>Bromus tectorum</i>	38.3127	-109.5946	1,896.40	Cross-slope transect	sediment analysis
CS1	Soil Pit	05U22	<i>Bromus tectorum</i>	38.3128	-109.5948	1,897.30	Cross-slope transect	sediment analysis
CS1	Soil Pit	05U23	<i>Erodium cicutarium</i>	38.3128	-109.5949	1,897.60	Cross-slope transect	sediment analysis
CS1	Soil Pit	05U24	<i>Bromus tectorum</i>	38.3127	-109.5951	1,898.50	Cross-slope transect	sediment analysis
CS1	Soil Pit	05U25	<i>Erodium cicutarium</i>	38.3127	-109.5952	1,898.80	Cross-slope transect	sediment analysis
CS1	Auger	05U26	<i>Artemisia tridentata</i>	38.3129	-109.5967	1,897.00	Stand alone	sediment analysis
CS1	Auger	05U27	<i>Artemisia tridentata</i>	38.3114	-109.5932	1,902.00	Stand alone	sediment analysis
CS3	Auger	05U28	<i>Artemisia tridentata</i>	38.2610	-109.5902	1,885.10	Stand alone	sediment analysis
CS3	Auger	05U29	<i>Artemisia tridentata</i>	38.2610	-109.5902	1,885.90	Stand alone	sediment analysis
CS3	Auger	05U30	<i>Erodium cicutarium</i>	38.2595	-109.5925	1,877.50	Stand alone	sediment analysis
CS6	Soil Pit	05U31	<i>Bromus tectorum</i>	38.2417	-109.5606	1,912.30	Stand alone	sediment analysis
CS6	Soil Pit	05U32	<i>Erodium cicutarium</i>	38.2414	-109.5606	1,911.60	Stand alone	sediment analysis
CS3	Auger	05U33	<i>Bromus tectorum</i>	38.2591	-109.5933	1,876.10	Stand alone	sediment analysis
CS1	Trench 1A	06U8	<i>Artemisia tridentata</i>	38.31236	-109.59435	1,897.90	Trench	sediment analysis
CS1	Trench 1A	06U9	<i>Bromus tectorum</i>	38.31233	-109.59425	1,897.50	Trench	sediment analysis
CS1	Trench 1B	06U11	<i>Artemisia tridentata</i>	38.31331	-109.59479	1,895.00	Trench	sediment analysis
CS1	Trench 1B	06U12	<i>Bromus tectorum</i>	38.31335	-109.59477	1,895.00	Trench	sediment analysis
CS2	Trench 2	06U5	<i>Artemisia tridentata</i>	38.24677	-109.61264	1,916.60	Trench	sediment analysis
CS2	Trench 2	06U6	<i>Bromus tectorum</i>	38.24686	-109.61266	1,916.90	Trench	sediment analysis; OSL
CS2	Trench 2	06U7	<i>Bromus tectorum</i>	38.24688	-109.61267	1,916.90	Trench	sediment analysis; OSL
CS4	Trench 4	06U13	<i>Artemisia tridentata</i>	38.32249	-109.58880	1,864.50	Trench	sediment analysis
CS4	Trench 4	06U14	<i>Bromus tectorum</i>	38.32257	-109.58883	1,864.50	Trench	sediment analysis
CS5	Trench 5	06U3	<i>Artemisia tridentata</i>	38.26210	-109.54054	1,863.00	Trench	sediment analysis

Table 1. Site locations—Continued

Location Name	Site Type	Sampling site Designation	Dominant Vegetation Type	Latitude	Longitude	Elevation (meters)	Sampling Scheme	Purpose
CS5	Trench 5	06U4	<i>Bromus tectorum</i>	38.26224	-109.54047	1,862.10	Trench	sediment analysis; OSL
CS2	Trench 2	06U10	<i>Bromus tectorum</i>	38.24682	-109.61265	1,862.10	Trench	OSL
CS1	Trench 1A	06U15	<i>Bromus tectorum</i>	38.31233	-109.59425	1,897.50	Trench	OSL
CS1	Trench 1A	06U16	<i>Bromus tectorum</i>	38.31233	-109.59425	1,897.50	Trench	OSL
CS1	Trench 1A	06U17	<i>Artemisia tridentata</i>	38.31236	-109.59435	1,897.90	Trench	OSL
CS1	Trench 1A	06U18	<i>Artemisia tridentata</i>	38.31236	-109.59435	1,897.90	Trench	OSL
CS1	Trench 1B	06U19	<i>Bromus tectorum</i>	38.31333	-109.59478	1,895.00	Trench	OSL
CS1	Trench 1B	06U20	<i>Bromus tectorum</i>	38.32257	-109.58883	1,864.50	Trench	OSL

Table 2. Field measurements completed at each sampling site

Sampling Site Designation	Vegetation Cover and Composition (see tables 4 and 5)	Root Counts (see table 6)	Sediment strength (see table 7)	Soil Penetration Resistance (see figures 14 and 15)	Magnetic Susceptibility (see table 8)	Soil Descriptions (see table 3)
05U-3	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-5	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-6	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-7	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-8A	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-8B	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-9	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-10	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-11	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-13	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-15	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-17	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-19	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-20	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-21	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-22	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-23	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-24	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-25	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-26	X	n.d.	n.d.	n.d.	n.d.	X
05U-27	X	n.d.	n.d.	n.d.	n.d.	X
05U-28	X	n.d.	n.d.	n.d.	n.d.	X
05U-29	n.d	n.d.	n.d.	n.d.	n.d.	X
05U-30	X	n.d.	n.d.	n.d.	n.d.	X
05U-31	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-32	X	n.d.	n.d.	n.d.	n.d.	n.d
05U-33	X	n.d.	n.d.	n.d.	n.d.	X
Trench 1A	X	X	X	X	X	X
Trench 1B	X	n.d.	n.d.	X	X	X
Trench 2	X	X	X	X	X	X
Trench 4	X	n.d.	n.d.	X	X	X
Trench 5	X	n.d.	X	X	X	X

n.d.: not determined

Table 3. Soil descriptions

Table 3-1. Soil description of auger hole 05U-26, site CS1, shrub zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–10	n.d.	n.d.	n.d.	1f sbk 2f-m cr	so	so, po	0	0, ne
Bw	10–23	n.d.	n.d.	n.d.	2m-co sbk	sh	so, po	0	0, ne
Bw/Bwk	23–38	n.d.	n.d.	n.d.	2m-co sbk	sh-h	so, po	0	I, ne-vs
Bk	38–49	n.d.	n.d.	n.d.	2m-co sbk	h-vh	so, po	0	II, st
Bk	49–60	n.d.	n.d.	n.d.	2f-m sbk	sh-vh	so, po	0	II, ve
Bk	60–71	n.d.	n.d.	n.d.	3f-m sbk	h-vh	so, po	0	II, ve
Bk	71–81	n.d.	n.d.	n.d.	2f-m abk	h	so, po	0	II, ve
Bk	81–91	n.d.	n.d.	n.d.	2f-m abk	h	so, po	0	II, ve
Bwb	91–103	n.d.	n.d.	n.d.	1-2f-m sbk	sh	so, po	0	I, ve
Bkb	103–112	n.d.	n.d.	n.d.	1-2f-m sbk	h	so, po	0	I+, ve
Bkb	112–121	n.d.	n.d.	n.d.	1-2f-m sbk	h	so, po	0	I+, ve
Btjkb2	121–133	n.d.	n.d.	n.d.	1-2f-m sbk	h	so, po	1npf	I, ve
Btjk2b2	133–144	n.d.	n.d.	n.d.	1-2f-m sbk	h	so, po	1npf	II, ve
Btkb2	144–153	n.d.	n.d.	n.d.	1-2f-m sbk	h	ss, ps	2npf	II, ve

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location—po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined. + or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-2. Soil description of auger hole 05U-27, site CS1, shrub zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–10	n.d.	n.d.	n.d.	1-2f-m sbk cr	n.d.	n.d.	n.d.	0, ne
Bw	10–22	n.d.	n.d.	n.d.	1-2f-m sbk cr	n.d.	n.d.	n.d.	0, ne
Bwk	22–31	n.d.	n.d.	n.d.	1-2f-m sbk cr	n.d.	n.d.	n.d.	0, st
Bwk	31–40	n.d.	n.d.	n.d.	2-3f-m sbk	n.d.	n.d.	n.d.	I, st
Btk	40–79	n.d.	n.d.	n.d.	2f-m sbk	n.d.	n.d.	n.d.	n.d.

Table 3-3. Soil description of auger hole 05U-28, site CS3, shrub zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A/Bw	0–10	n.d.	n.d.	n.d.	1f-m sbk cr	so	so, po	n.d.	0, ne
Bw	10–23	n.d.	n.d.	n.d.	2f-m sbk	so	so, po	n.d.	0, ne
Bwk	23–40	n.d.	n.d.	n.d.	1f-m sbk sg	lo-so	so, po	n.d.	0,vs
Bk1	40–53	n.d.	n.d.	n.d.	2f-m sbk	so-sh	so, po	n.d.	I, st
Bk2	53–80	n.d.	n.d.	n.d.	1f-m sbk	lo-h	so, po	n.d.	I+, ve

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location—po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-4. Soil description of auger hole 05U-29, site CS3, shrub zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A/Bw	0–10	n.d.	n.d.	n.d.	1f sbk cr	so	n.d.	n.d.	0, ne
Bw	10–38	n.d.	n.d.	n.d.	2f-m sbk	so	n.d.	n.d.	0, ne
Bwk	38–52	n.d.	n.d.	n.d.	1f-m sbk sg	lo-so	n.d.	n.d.	I, st
Bk1	52–100	n.d.	n.d.	n.d.	sg	lo-so	n.d.	n.d.	I+, ve
Bk2	100–143	n.d.	n.d.	n.d.	1f-m sbk sg	h-vh	n.d.	n.d.	II, ve
Bk3	143–157	n.d.	n.d.	n.d.	sg	lo	n.d.	n.d.	II, st

Table 3-5. Soil description of auger hole 05U-30, site CS3, *Erodium* –dominated zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–10	n.d.	n.d.	n.d.	2f-m sbk	so	n.d.	n.d.	vs-
Bwk	10–23	n.d.	n.d.	n.d.	2f-m sbk	so	n.d.	n.d.	vs
Bk1	23–55	n.d.	n.d.	n.d.	1f-m sbk	so	n.d.	n.d.	st
Bk2	55–82	n.d.	n.d.	n.d.	sg	lo-so	n.d.	n.d.	ve
Bk3	82–123	n.d.	n.d.	n.d.	sg	lo	n.d.	n.d.	st
Ck	123–159	n.d.	n.d.	n.d.	sg	lo	n.d.	n.d.	st

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location— po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-6. Soil description of auger hole 05U-33, site CS3, grass zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–10	n.d.	n.d.	n.d.	2f-m cr	so	so, po	n.d.	ne
Bw	10–22	n.d.	n.d.	n.d.	1-2f-m sbk	lo-so	so, po	n.d.	vs
Bwk1	22–39	n.d.	n.d.	n.d.	1-2f-m sbk	lo-so	so, po	n.d.	st
Bwk2	39–56	n.d.	n.d.	n.d.	1f-m sbk	lo-so	so, po	n.d.	ve
Bk1	56–72	n.d.	n.d.	n.d.	1f-m sbk sg	lo,sh	so, po	n.d.	ve
Bk2	72–158	n.d.	n.d.	n.d.	sg 1f-m sbk	lo,sh	so, po	n.d.	ve

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location— po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-7. Soil description of 06U-8, Trench 1a, Site CS1, shrub zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A1	0–3	7.5YR7/4	7.5YR4/6	N/A	1f sbk	so	so, vps	0	0, ne
A2	3–8	5YR6/6	5YR3/6	N/A	2m gr 1f pl	so-sh	so, vps	0	0, ne
Bw	8–15	5YR6/5	5YR4/6	N/A	2f-m sbk 3f-m sbk	h	vss, ps	v1npf	0, ne
B2tk	15–33	5YR6/5	5YR5/6	5YR8/3 5YR8/1	1m-c pl 2f-m sbk	sh	ss, ps	1npf, 1npo, 2nco	I, sl
B31tk	33–57	5YR7/5	5YR5/8	5YR8/3 5YR8/2 5YR8/1	2f-m sbk	sh-h	ss, ps	1npf, 1nco	II, st
B32tk	57–69	5YR6/6	5YR5/6	5YR8/3 5YR8/2	3f-m sbk	h	ss, ps	1npf	II+, ve
B1tkb	69–80	2.5YR6/6	2.5YR4/6	5YR8/3 5YR8/2	m 3m-c abk	h-vh	s, ps	2npf, 1npo, 2nco	I, sl
B2tkb	80–99	2.5YR6/5	2.5YR5/6	5YR8/3	m 2m-c abk	h-vh	s, p	2npf, 1npo	I+, st
B31tkb	99–120	5YR6/6	5YR5/6	5YR8/3 5YR8/1	m 2f-m abk	h-vh	ss, ps	1npf	I+, st
2B32tkb	120–140	5YR7/4	5YR5/6	5YR8/3 5YR8/2 5YR7/1	m 2f-m abk	h-vh	s, p	1npf	II, sl
2Bk1b	140–154	5YR7/3	5YR6/4	5YR8/3 5YR8/1 10YR8/1	m 3m-c abk	vh-eh	s, p	0	III, sl
2Bk2b	154–173	5YR7/3	5YR6/6	5YR8/3 5YR8/2	m 3m-c abk	h-vh	s, p	0	II+, sl

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location— po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-8. Soil description of 06U-9, Trench 1a, Site CS1, grass zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A1	0–7	5YR5/4	5YR4/3	N/A	1f-m pl 2vf-f sbk	so	so, po	0	0, ne
AB	7–13	5YR5/6	5YR4/4	N/A	1f sbk 2m pl	sh	so, po	v1npf	0, ne
Bwkj	13–26	5YR5/6	5YR4/4	N/A	2m-c sbk	sh	vss, ps	v1npf	I-, sl
Bwk	26–32	5YR6/6	5YR4/6	5YR8/4 5YR8/1	2f-m sbk 2f-m abk	sh-h	ss, ps	v1npf	I-, st
Btjk	32–65	5YR5/6	5YR4/6	5YR8/4 5YR8/3 5YR8/1	2m-c sbk	sh-h	ss, ps	1npf, v1npo	I, ve
Btk	65–85	5YR5/6	5YR4/6	5YR8/3 5YR8/2 5YR8/1	2m-c sbk 2m-c abk	h-eh	ss, p	1npf 1npo v1nco	I+, ve
2B1tkb	85–132	5YR5/6	5YR4/6	5YR8/4 5YR8/2	2f-m sbk	h-eh	s, p	2npo 2npf 1nco	I+, ve
2B2tkb	132–150	5YR5/6	5YR4/6	5YR8/3 5YR8/2	2m sbk 2m abk	eh+	vs, p	2npf 2npo 1.5nco	II-, ve

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location— po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-9. Soil description of 06U-11, Trench 1b, Site CS1, shrub zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–4	5YR6/4	5YR3/6	N/A	sg 2vf-m gr	so	so, po	0	0, ne
Bw	4–13	5YR6/5	5YR4/6	N/A	2m-c sbk 1c pl	sh	vss, vps	0	0, ne
Btk	13–25	5YR6/6	5YR4/6	5YR8/2 5YR8/1	2f-m sbk 2c-vc pl	sh	s, p	1npf 2nco	I, sl
2B2tkb	25–50	5YR6/6	5YR4/6	5YR8/2 5YR8/1	3f-m sbk	sh	s, p	2npf 1nco	I+, st
2B31tkb	50–70	5YR6/4	5YR5/4	5YR8/2 5YR8/1	1m sbk 2m-c sbk	h-vh	s, p	2npf	II, st
2B32tkb	70–90	5YR6/4	5YR5/6	5YR8/2 5YR8/1	2f-m sbk	h-vh	s, p	1npf 1npo	II+, st
3Btkb2	90–119	2.5YR7/6	5YR6/8	5YR8/3 5YR8/1	sg 2f-m sbk	h	s, ps	1mpf	II, sl
Bedrock	119+	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location— po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-10. Soil description of 06U-12, Trench 1b, Site CS1, grass zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–7	7.5YR5/4	7.5YR3/4	N/A	1f-m sbk 2f-m pl	so-sh	so, vps	0	0, ne
Bwkj	7–17	5YR5/4	5YR4/4	N/A	1f sbk 2m pl	sh	ss, p	v1npf	I-, vs
Btkj	17–33	5YR5/5	5YR4/4	5YR8/1	2f-m sbk	sh	s, p	1npf	I-, sl
B1tk	33–47	5YR5/4	5YR4/4	5YR8/3 5YR8/2 5YR8/1	2m sbk	sh-h	s, p	1npf 1npo	I, st
B2tk	47–77	5YR5/4	5YR4/4	5YR8/2 5YR8/1	2f-m sbk	h-vh	s, p	1npf 1npo v1nco	I+, st
B3tk	77–94	5YR6/4	5YR4/4	5YR8/3 5YR8/2 5YR8/1	m	vh-eh	s+, p	1-2npf 1nco	II, st
2Btkb	94–109	2.5YR7/4	5YR5/6	5YR8/2	m	sh-h	s, ps	1- 2mpf	II, st
Bedrock	109+	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location—po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-11. Soil description of 06U-5, Trench 2, Site CS2, shrub zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–4	5YR6/4	5YR4/6	N/A	2f pl 2f-m sbk	so	vss, ps	0	0, ne
Bwkj	4–10	5YR6/6	5YR5/6	N/A	1m pl 2m-c sbk	sh	ss, ps	0	I-, vs-sl
Btjk1	10–27	5YR6/6	5YR5/6	5YR8/3 5YR8/2 5YR8/1	2m-c sbk	sh-h	ss, p	1npf v1npo	I, ve
Btjk2	27–39	5YR6/6	5YR4/6	5YR8/3 5YR8/2 5YR8/1	2f-m sbk	sh-h	s, p	v1npf	I+, st
B21tkb	39–49	5YR6/4	5YR5/6	5YR8/3 5YR8/2	2f-m sbk	h	s, p	2npf 2nco	II, ve
B22tkb	49–61	5YR6/4	5YR5/6	5YR8/3 5YR8/2 5YR8/1	m (f-m abk)	h	ss, p	2npf 2npo	II+, ve
B23tkb	61–83	5YR7/4	5YR6/6	5YR8/3 5YR8/1 5YR7/4	m 2c pl	h-vh	s, p	1npf	III, st
B3tkb	83–103	5YR7/4	5YR5/6	5YR8/3 5YR8/2	m 2c pl	h-vh	ss, ps	1npf	III, st
Bk1b	103–122	5YR7/4	5YR6/6	5YR8/2 5YR8/1	m 2c pl	h-vh	vss, ps	1nco	II+, st
Bk2b	122–132	5YR6/6	5YR5/6	5YR8/3 5YR8/2	m (f-m sbk)	so-h	vss, ps	0	II, st
Bedrock	132+	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location—po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-12. Soil description of 06U-6, Trench 2, Site CS2, grass zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–6	5YR6/6	5YR4/6	N/A	2m pl 3m-c sbk	so-sh	vss, ps	0	0, ne
Bwk	6–25	5YR6/4	5YR4/6	5YR8/3 5YR8/1	1f-m sbk 2c-vc sbk	sh	ss, ps	2npf 2np	I, sl
Btjk	25–54	5YR6/4	5YR4/6	5YR8/3 5YR8/1 5YR7/3	2m-vc sbk	sh	ss, p	1npf 1np	I, st

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location— po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-13. Soil description of 06U-7, Trench 2, Site CS2, grass zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–4	5YR5/4	5YR4/4	N/A	1f-m sbk 2f-m sbk	so-sh	so, ps	0	0, ne
Bw	4–13	5YR4/6	5YR3/6	N/A	1f-m abk	sh	ss, p	v1npf	I-, sl
Btjkj	13–27	5YR5/6	5YR4/6	5YR8/1	1m sbk	so-sh	s, p	1npf 1npo	I-, sl
B2tk	27–52	5YR5/6	5YR4/6	5YR8/1	2f-m sbk	sh	s, p	1npf	I, st
B31tk	52–71	5YR5/6	5YR4/6	5YR8/2 5YR8/1	2m sbk	sh	ss, p	1npf 1npo v1nco	I, ve
B32tk	71–101	5YR5/6	5YR4/6	5YR8/3 5YR8/2	2m-c sbk	sh-h	s, p	1npf	II, ve
2Btkjb	101–116	5YR5/6	5YR4/6	5YR8/2 5YR8/1	sg 2f sbk	sh-h	ss, po	1npf 1npo	I-, st
2Btkb	116–135	5YR5/8	5YR4/8	5YR8/3 5YR8/1	2f-m sbk	sh-h	ss, po	1npf v1npo	II, ve
3Bkjb	135–190	5YR6/4	5YR4/6	5YR8/3 5YR8/1	sg 1f abk	lo so-sh	so, po	v1npf	I, ve
Bedrock	190+	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location—po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-14. Soil description of 06U-13, Trench 4, Site CS4, shrub zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–4	7.5YR5/4	7.5YR3/4	N/A	1f-m pl	so	so, po	0	0, vs
AB	4–12	7.5YR5/4	7.5YR4/4	N/A	1f-m sbk 2f-m pl	so-sh	ss, ps	0	0, vs
Bwkj	12–28	5YR5/4	5YR4/4	N/A	1f-m sbk	sh	s, p	v1npf	I-, sl
Btjk	28–42	5YR5/4	5YR4/4	5YR8/1	2m-c sbk	sh-h	s, p	v1npf v1npo	I-, st
Btk	42–68	5YR5/4	5YR4/4	5YR8/3 5YR8/1	2m sbk	sh-h	s, p	1npf v1npo	I, st
Bedrock	68+	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location— po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-15. Soil description of 06U-14, Trench 4, Site CS4, grass zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–4	7.5YR7/4	5YR5/4	N/A	2vf pl 2c sbk	so	vss, sp	0	0, vs-sl
B1t	4–12	5YR6/5	5YR4/6	N/A	2f-m pl 2f-m sbk 3f-c gr	so	s, p	0	0, sl-st
B21tk	12–20	5YR6/6	5YR5/6	5YR8/1	2m-c sbk 3f gr	sh	s, vp	1npf	I-, sl
B22tk	20–37	5YR6/5	5YR4/6	5YR8/2 5YR8/1	2f-m sbk 3f-m gr	sh	s, vp	1npf	I, st
B1tkb	37–67	5YR7/4	5YR5/6	5YR8/2 5YR8/1	2f-c sbk	sh-h	vs, vp	2npf 1npo	II, ve
B2tkb	67–86	5YR6/4	5YR5/6	5YR8/3 5YR8/2	3f-m sbk	h	vs, vp	2mpf	II+, st
2B31tkb	86–98	5YR6/5	5YR5/6	5YR8/3 5YR8/2	m (3f-m abk)	h-vh	s, vp	2npf	II, st
2B32tkb	98–110	5YR6/5	5YR5/7	5YR8/1 5YR7/3	m (2f-m sbk)	sh-h	so, po	1npf 1nco	I, sl-st
Bedrock	110+	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location—po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-16. Soil description of 06U-3, Trench 5, Site CS5, shrub zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–7	5YR6/4	5YR3/6	N/A	2f-m pl 2m-c sbk	sh	so, po	0	0, ne
Bwkj	7–15	5YR6/6	5YR4/6	N/A	2vc pl 3vc sbk	sh	ss, ps	0	I-, sl
B1tk	15–29	2.5YR6/6	2.5YR5/6	5YR8/4 5YR8/3 5YR8/1	3vc sbk	sh	ss, ps	2nco v1npf	I-, st
B21tk	29–55	2.5YR6/6	2.5YR5/6	5YR8/4 5YR8/1	3m-c sbk	sh-h	ss, p	3nco 2npf 1npo	II, ve
B22tk	55–78	2.5YR6/6	2.5YR5/3	5YR8/3	2m-c sbk	h	ss, vps	3npf 3nco	II, ve
B31tk	78–95	5YR6/6	2.5YR5/6	5YR8/3 5YR8/1	2f-c sbk	sh	vss, vps	1npf 1nco	I+, st
B32tk	95–137	2.5YR6/6	2.5YR5/6	5YR8/3	1f-m sbk 2f sbk	so	so, po	1npf 1nco	I+, st
Btkb	137–186	5YR6/6	2.5YR4/6	5YR8/4 5YR8/2	2f-m sbk	so-sh	vss, ps	2npf 2nco	II, st
Bedrock	186+	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location—po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 3-17. Soil description of 06U-4, Trench 5, Site CS5, grass zone.

Horizon ¹	Depth (cm)	Dry color	Moist color	CaCO ₃ color	Structure ²	Dry consistence ³	Wet consistence ⁴	Clay films ⁵	Stage CaCO ₃ ¹ , effervescence ⁶
A	0–4	7.5YR6/4	5YR3/4	N/A	1f-m sbk 2f-m sbk	so	so, vps	0	0, ne
Bwkj	4–11	5YR6/5	5YR4/6	N/A	1c pl 2f-m sbk	sh	so, vps	0	I-, sl
B1tk	11–17	5YR6/6	5YR5/6	N/A	2vc pl 3m-c sbk	h	vss, ps	1npf 1npo	I, st
B2tk	17–40	5YR6/6	5YR5/6	5YR8/4 5YR8/2	1vc pr 3vc-c abk	sh	ss, ps	2nco 1npo	I+, st
B31tk	40–64	5YR6/6	2.5YR5/6	5YR8/4 5YR8/3	1vc pr 3f-vc abk	h-vh	vss, vps	2nco 2npo	II, st
B32tk	64–88	5YR6/6	5YR6/6	N/A	m (2vf-m sbk)	h-vh	vss, vps	1npf	I+, st
B33tk	88–128	5YR6/6	5YR5/8	N/A	sg 1vf-f sbk	lo-so	vss, vps	2npf	I-, st
Btkb	128–150	2.5YR6/6	2.5YR5/6	5YR8/4 5YR8/2	2f-c sbk	sh-h	vss, vps	2npf 2nco	I+, st

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

² Structure codes: Strength/abundance—1–3. Size—f, fine; m, medium; c, coarse. Shape—sbk, subangular blocky; abk, angular blocky; pl, platy; gr, granular; m, massive; sg, single grained; cr, crumb; (), breaks to.

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

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

⁵ Clay film codes: Abundance—0–3; v1, very few. Thickness—n, thin; m, many. Location—po, pore filling; pf, ped face; co, grain coat.

⁶ Carbonate codes: ne, effervesces none; vs, effervesces weakly; sl, effervesces slightly; st, effervesces strongly; ve, effervesces violently. 0, I, II, III refer to carbonate stages, + or – further divides stages n.d.: not determined.

+ or – signs denote further divisions of soil properties (for example, a wet consistency of s+ is between sticky and very sticky)

Table 4. Ground cover and plant community composition

Table 4-1. Percentage cover of vascular plants (canopy cover by life form and species) and surface features in grass (G) and shrub (S) zones associated with the five soil trenches investigated in August 2006. Tr indicates trace vegetative cover and asterisks indicate nonnative species. Species nomenclature follows Welsh and others (2003).

Species / surface feature	Trench 1a		Trench 1b		Trench 2		Trench 4		Trench 5	
	G	S	G	S	G	S	G	S	G	S
Trees										
<i>Juniperus osteosperma</i>	-	Tr	-	Tr	-	Tr	-	-	-	-
Shrubs										
<i>Artemisia tridentata</i>	-	33.3	-	34.4	Tr	23.7	-	18.5	-	22.4
<i>Ceratoides lanata</i>	-	-	-	Tr	Tr	0.7	Tr	Tr	Tr	-
<i>Ephedra viridis</i>	-	Tr	-	-	-	-	-	-	-	-
<i>Gutierrezia sarothrae</i>	-	Tr	-	Tr	Tr	Tr	-	Tr	3.4	-
<i>Grayia spinosa</i>	Tr	0.7	Tr	-	-	-	-	-	-	-
Cacti										
<i>Echinocereus triglochidiatus</i>	Tr	-	-	-	-	-	-	-	-	-
<i>Opuntia</i> sp.	-	Tr	-	Tr	0.8	Tr	Tr	-	-	-
Perennial grasses										
<i>Agropyron cristatum</i> *	-	-	-	-	-	Tr	-	-	-	-
<i>Aristida purpurea</i>	-	-	-	-	-	-	-	-	0.8	-
<i>Bouteloua gracilis</i>	-	Tr	-	-	Tr	1.5	-	Tr	-	-
<i>Hilaria jamesii</i>	11.3	Tr	9.3	2.1	13.4	0.7	14.4	9.3	Tr	1.7
<i>Sporobolus</i> sp.	Tr	-	Tr	-	7.9	Tr	Tr	-	12.7	6.0
<i>Stipa comata</i>	Tr	Tr	-	Tr	3.9	8.1	-	-	-	-
<i>Stipa hymenoides</i>	-	Tr	-	Tr	-	-	-	-	-	-
Perennial forbs										
<i>Sphaeralcea</i> sp.	-	-	Tr	Tr	Tr	-	Tr	-	-	-
Annual grasses										
<i>Bromus tectorum</i> *	25.5	2.2	21.5	5.2	7.9	2.2	16.8	6.5	15.3	1.7
<i>Munroa squarrosa</i>	-	-	Tr	-	-	-	Tr	-	-	-
Annual forbs										
<i>Euphorbia albomarginata</i>	Tr	-	3.7	-	-	-	-	-	-	-
<i>Plantago patagonica</i>	-	-	0.9	-	-	-	-	-	Tr	-
<i>Salsola pestifer</i> *	-	-	-	-	Tr	-	-	-	0.8	-
Total vegetation	36.8	36.3	35.5	41.7	33.9	37.0	31.2	34.3	33.1	31.9
Surface										
Litter	25.5	8.9	29.0	9.4	15.7	17.0	20.0	7.4	25.4	12.1
Moss	-	0.7	-	-	-	-	-	-	3.4	2.6
Livestock scat	0.9	0.7	2.8	-	3.1	0.7	-	-	-	-
Wildlife scat	-	-	0.9	-	-	-	-	-	-	-
Bare ground	36.7	53.3	31.8	49.0	47.3	45.2	48.8	58.3	38.1	53.4

Table 4-2. Percentage cover of vascular plants (foliar cover by life form and species) and surface features in matrix vegetation dominated by the shrub *Artemisia tridentata* and in vegetation patches dominated by the exotic annual grass *Bromus tectorum* and the exotic annual forb *Erodium cicutarium* along down- and cross-slope transects at site CS1. Tr indicates trace vegetative cover and asterisks indicate nonnative species. Species nomenclature follows Welsh and others (2003).

Species / surface feature	<i>Artemisia</i> matrix	<i>Bromus</i> patch	<i>Erodium</i> patch
Trees			
<i>Juniperus osteosperma</i>	Tr	-	-
Shrubs			
<i>Artemisia tridentata</i>	24.0	Tr	-
<i>Ceratoides lanata</i>	Tr	Tr	Tr
<i>Ephedra viridis</i>	Tr	-	-
<i>Gutierrezia sarothrae</i>	Tr	-	-
<i>Grayia spinosa</i>	1.0	0.9	-
Cacti			
<i>Echinocereus triglochidiatus</i>	-	Tr	-
<i>Opuntia</i> sp.	Tr	Tr	-
Perennial grasses			
<i>Bouteloua gracilis</i>	Tr	-	-
<i>Elymus elymoides</i>	1.0	-	-
<i>Hilaria jamesii</i>	Tr	1.3	2.0
<i>Stipa comata</i>	Tr	-	-
<i>Stipa hymenoides</i>	Tr	-	Tr
Perennial forbs			
<i>Delphinium</i> sp.	-	Tr	-
<i>Oenothera caespitosa</i>	Tr	-	-
<i>Phlox</i> sp.	Tr	-	-
<i>Senecio multilobatus</i>	Tr	-	-
<i>Sphaeralcea</i> sp.	Tr	Tr	Tr
Annual grasses			
<i>Bromus tectorum</i> *	17.0	52.9	7.3
<i>Festuca octoflora</i>	Tr	-	-
Annual forbs			
<i>Descurainia sophia</i>	Tr	-	-
<i>Erodium cicutarium</i> *	-	4.4	54.0
<i>Plantago patagonica</i>	-	0.4	-
<i>Sisymbrium altissimum</i> *	-	Tr	-
Total vegetation	44.0	60.4	63.3
Surface			
Litter	14.0	50.7	30.7
Dark cyanobacteria	2.0	-	-
Moss	2.0	0.4	-
Lichen	Tr	-	-
Bare ground	52.0	15.4	27.3

Table 4-3. Percentage cover of vascular plants (canopy cover classes by life form and species) and surface features at sites CS1, CS3, and CS6. Species nomenclature follows Welsh and others (2003). Asterisks indicate nonnative species.

Species / surface feature	Sample no.						
	CS1		CS3			CS6	
	05U26	05U27	05U28	05U30	05U33	05U31	05U32
Trees							
<i>Juniperus osteosperma</i>	<1	<1	<1	-	-	-	-
<i>Pinus edulis</i>	-	-	<1	-	-	-	-
Shrubs							
<i>Artemisia tridentata</i>	10-25	10-25	10-25	<1	1-5	-	-
<i>Atriplex canescens</i>	-	-	<1	1-5	<1	-	-
<i>Ceratoides lanata</i>	-	-	-	<1	-	-	1-5
<i>Chrysothamnus viscidiflorus</i>	-	<1	-	-	-	-	-
<i>Ephedra viridis</i>	<1	<1	1-5	-	-	-	-
<i>Eriogonum microthecum</i>	-	<1	-	-	-	-	-
<i>Gutierrezia sarothrae</i>	1-5	<1	<1	<1	<1	-	-
<i>Grayia spinosa</i>	<1	<1	-	-	-	-	-
Cacti							
<i>Opuntia</i> sp.	-	-	<1	<1	-	-	-
Perennial grasses							
<i>Aristida purpurea</i>	<1	-	-	-	-	-	-
<i>Bouteloua gracilis</i>	<1	<1	10-25	1-5	5-10	-	-
<i>Elymus elymoides</i>	-	<1	-	-	-	-	-
<i>Hilaria jamesii</i>	1-5	<1	-	-	-	10-25	10-25
<i>Sporobolus cryptandrus</i>	-	-	-	5-10	1-5	5-10	<1
<i>Stipa comata</i>	-	-	1-5	-	-	-	-
<i>Stipa hymenoides</i>	<1	<1	<1	-	-	-	-
Perennial forbs							
<i>Linum aristatum</i>	-	-	<1	-	-	-	-
<i>Maclean</i>	-	-	<1	-	-	-	-
<i>Oenothera pallida</i>	-	-	<1	-	-	-	-
<i>Phlox</i> sp.	-	<1	-	-	-	-	-
<i>Senecio multilobatus</i>	<1	-	-	-	-	-	-
<i>Sphaeralcea</i> sp.	-	-	-	<1	<1	-	<1
Annual grasses							
<i>Bromus tectorum</i> *	<1	5-10	<1	-	10-25	10-25	<1
<i>Festuca octoflora</i>	-	-	<1	-	<1	-	-
Annual forbs							
<i>Erodium cicutarium</i> *	-	-	-	>75	10-25	10-25	25-50
<i>Salsola pestifer</i>	-	-	-	-	-	<1	<1
Surface							
Dark cyanobacteria	1-5	1-5	<1	-	-	<1	<1
Moss	5-10	1-5	5-10	-	<1	<1	<1
Lichen	<1	<1	-	-	-	<1	-
Bare ground	50-75	50-75	50-75	5-10	50-75	50-75	50-75

Table 5. Root density

Table 5-1. Mean density of root intersections (root intersections cm⁻²) by depth and root size class in the grass zone of Trench 1a. (SE = standard error of the mean. Means are for n=20 10 x 10 cm grid cells.)

Stratigraphic unit	Soil horizon	Depth (cm)*	Very fine roots		Fine roots		Medium roots		Coarse roots		Very coarse roots	
			Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
1A-2	A	2.5	77.6	17.4	1.8	0.4	0.5	0.3	0.1	0.1	-	-
1A-2	AB	10.0	79.0	17.7	0.3	0.1	-	-	-	-	-	-
1A-2	Bwkj	20.0	98.6	22.0	-	-	-	-	-	-	-	-
1A-2	Bwkj	30.0	86.0	19.2	0.2	0.0	-	-	-	-	-	-
1A-2	Btjk	40.0	60.7	13.6	0.2	0.0	-	-	-	-	-	-
1A-2	Btjk	50.0	42.0	9.4	0.1	0.0	-	-	-	-	-	-
1A-2	Btjk	60.0	35.9	8.0	-	-	-	-	-	-	-	-
1A-2	Btk	70.0	36.3	8.1	0.1	0.0	-	-	-	-	-	-
1A-2	Btk	80.0	22.8	5.1	0.2	0.0	-	-	-	-	-	-
1A-2	2B1tkb	90.0	21.7	4.8	0.2	0.0	-	-	-	-	-	-
1A-2	2B1tkb	100.0	21.3	4.8	0.1	0.0	-	-	-	-	-	-
1A-2	2B1tkb	110.0	13.6	3.0	-	-	-	-	-	-	-	-
1A-2	2B1tkb	120.0	8.1	1.8	-	-	-	-	-	-	-	-
1A-2	2B1tkb	130.0	3.8	0.8	0.1	0.0	-	-	-	-	-	-
1A-1	2B2tkb	140.0	1.8	0.4	-	-	-	-	-	-	-	-

* Mid-point of 10 x 10 cm grid cell

Table 5-2. Mean density of root intersections (root intersections cm⁻²) by depth and root size class in the shrub zone of Trench 1a. (SE = standard error of the mean. Means are for n=20 10 x 10 cm grid cells, unless indicated otherwise.)

Stratigraphic unit	Soil horizon	Depth (cm)*	Very fine roots			Fine roots			Medium roots			Coarse roots			Very coarse roots		
			Mean		SE	Mean		SE	Mean		SE	Mean		SE	Mean		SE
1A-2	A1	2	140.1	**	105.9	-	**	-	-	**	-	-	**	-	-	**	-
1A-2	Bw	8	41.4		3.6	0.6		0.1	0.4		0.2	-		-	-		-
1A-2	B2tk	18	37.6		3.0	2.1		0.5	0.5		0.2	-		-	-		-
1A-2	B2tk	28	31.3		2.0	1.7		0.4	0.5		0.1	-		-	-		-
1A-2	B31tk	38	37.3		1.9	1.1		0.2	0.5		0.2	-		-	-		-
1A-2	B31tk	48	28.7		1.6	0.8		0.2	0.5		0.2	0.2		0.1	0.2		0.1
1A-2	B32tk	58	18.9		2.1	0.9		0.2	0.4		0.2	0.1		0.1	-		-
1A-2	B32tk	68	12.6		1.5	0.2		0.0	0.3		0.1	-		-	-		-
1A-1	B1tkb	78	7.1		1.3	0.1		0.0	0.2		0.1	-		-	-		-
1A-1	B2tkb	88	3.4		0.6	0.1		0.0	0.1		0.1	-		-	-		-
1A-1	B2tkb	98	4.1		0.7	0.4		0.1	-		-	-		-	-		-
1A-1	B31tkb	108	4.1		0.5	0.2		0.0	0.2		0.1	-		-	-		-
1A-1	B31tkb	118	2.5		0.6	-		-	-		-	-		-	-		-
1A-1	2B32tkb	128	1.9		0.4	0.1		0.0	0.1		0.1	-		-	-		-
1A-1	2B32tkb	138	1.2		0.4	-		-	-		-	-		-	-		-
1A-1	2BK1b	148	1.3		0.4	0.1		0.0	-		-	-		-	-		-
1A-1	2BK2b	158	1.3		0.4	0.1		0.0	0.1		0.1	-		-	-		-
1A-1	2BK2b	168	1.1		0.5	-		-	-		-	-		-	-		-
Sandstone	n.d.	178	3.0	***	1.2	-	***	-	-	***	-	-	***	-	-	***	-

* Mid-point of 10 x 10 cm grid cell; ** n=6 grid cells; *** n=18 grid cells

Table 5-3. Mean density of root intersections (root intersections cm⁻²) by depth and root size class in the grass zone of Trench 2. (SE = standard error of the mean. Means are for n=20 10 x 10 cm grid cells.)

Stratigraphic unit	Soil horizon	Depth (cm)*	Very fine roots		Fine roots		Medium roots		Coarse roots		Very coarse roots	
			Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
2-5	A	1	77.3	18.7	13.1	9.3	0.6	0.5	-	-	-	-
2-5	Bwk	7	46.2	3.0	0.6	0.3	0.2	0.1	-	-	-	-
2-5	Bwk	17	40.0	2.3	0.1	0.1	0.1	0.1	-	-	-	-
2-5	Btjk	27	40.3	2.8	0.4	0.2	-	-	-	-	-	-
2-5	Btjk	37	45.0	3.3	0.1	0.1	-	-	-	-	-	-
2-5	Btjk	47	37.0	3.3	0.1	0.1	-	-	-	-	-	-
2-4	n.d.	57	34.6	2.8	-	-	-	-	-	-	-	-
2-4	n.d.	67	38.5	4.3	-	-	-	-	-	-	-	-
2-1	n.d.	77	33.9	2.6	0.1	0.1	0.1	0.1	-	-	-	-
2-1	n.d.	87	27.3	2.4	0.2	0.1	0.1	0.1	-	-	-	-
2-1	n.d.	97	26.6	1.8	0.1	0.1	-	-	-	-	-	-
2-1	n.d.	107	18.9	2.2	-	-	-	-	-	-	-	-
Sandstone	n.d.	117	18.6	1.3	-	-	-	-	-	-	-	-
Sandstone	n.d.	127	17.9	1.9	-	-	-	-	-	-	-	-
Sandstone	n.d.	137	18.3	2.8	-	-	-	-	-	-	-	-
Sandstone	n.d.	147	20.4	4.3	-	-	-	-	-	-	-	-
Shale	n.d.	157	7.1	1.7	-	-	-	-	-	-	-	-
Shale	n.d.	167	1.7	0.4	-	-	-	-	-	-	-	-

* Mid-point of 10 x 10 cm grid cell

Table 5-4. Mean density of root intersections (root intersections cm⁻²) by depth and root size class in the shrub zone of Trench 2. (SE = standard error of the mean. Means are for n=20 10 x 10 cm grid cells, unless indicated otherwise.)

Stratigraphic unit	Soil horizon	Depth (cm)*	Very fine roots		Fine roots		Medium roots		Coarse roots		Very coarse roots	
			Mean	SE	Mean	SE	Mean	SE	Mean	SE	Mean	SE
2-4	A	1	23.1	5.2	0.5	0.3	-	-	-	-	-	-
2-4	Bwkj	5	60.5	12.5	3.2	1.5	1.2	1.1	-	-	-	-
2-4	Btjk1	15	29.0	1.7	2.2	0.6	0.6	0.2	0.2	0.1	0.1	0.1
2-4	Btjk1	25	30.7	2.2	1.4	0.5	0.7	0.2	0.1	0.1	0.1	0.1
2-4	Btjk2	35	30.6	1.9	1.3	0.3	0.4	0.2	0.2	0.1	0.1	0.1
2-1	B21tkb	45	25.6	2.2	0.9	0.2	0.4	0.1	0.1	0.1	-	-
2-1	B22tkb	55	22.4	1.6	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1
2-1	B23tkb	65	7.1	0.6	0.2	0.1	0.3	0.1	-	-	-	-
2-1	B23tkb	75	2.8	0.6	0.1	0.1	-	-	-	-	-	-
2-1	B3tkb	85	2.0	0.4	0.2	0.1	0.3	0.1	-	-	-	-
2-1	B3tkb	95	3.6	0.8	0.2	0.1	0.2	0.1	-	-	-	-
2-1	BK1b	105	3.9	1.0	0.2	0.1	-	-	-	-	-	-
2-1	BK1b	115	6.1	1.2	0.1	0.1	0.1	0.1	-	-	-	-
2-1	BK2b	125	8.6	1.2	0.1	0.1	0.1	0.1	-	-	-	-
Sandstone	n.d.	135	7.5	**	2.3	0.1	**	0.1	-	**	-	**

* Mid-point of 10 x 10 cm grid cell; ** n=18 grid cells

Table 6. Penetrometer data

Table 6-1. Compressive strength of sediment exposed in Trench 1A as measured by a spring-piston-style pocket penetrometer. Three measurements were taken at each depth interval at both shrub and grass zones.

Grass - 1.5 meters				Shrub - 10.5 meters			
Compressive Strength (kg/cm ²)				Compressive Strength (kg/cm ²)			
Depth (cm)	R1	R2	R3	Depth (cm)	R1	R2	R3
0-1	2.1	<.25	<.25	0-1	<.25	<.25	<.25
10	2.6	3.1	0.8	5	2.6	2.0	0.8
20	2.5	1.4	0.9	15	1.1	3.2	2.4
30	2.2	2.8	3.5	25	0.25	3.00	1.75
40	4.1	4.7	>4.75	35	3.7	0.9	2.3
50	3.1	>4.75	>4.75	45	>4.75	3.75	1.3
60	4.75	4.2	>4.75	55	4.75	>4.75	>4.75
70	>4.75	4.75	>4.75	65	>4.75	>4.75	>4.75
80	>4.75	>4.75	>4.75	75	>4.75	>4.75	>4.75
90	>4.75	>4.75	>4.75	85	>4.75	>4.75	>4.75
100	4.2	>4.75	>4.75	95	>4.75	>4.75	>4.75
110	3.0	>4.75	4.3	105	>4.75	>4.75	>4.75
120	>4.75	>4.75	>4.75	115	>4.75	>4.75	>4.75
130	>4.75	>4.75	>4.75	125	>4.75	>4.75	>4.75
140	>4.75	>4.75	>4.75	135	>4.75	>4.75	>4.75
				145	>4.75	>4.75	>4.75
				155	>4.75	>4.75	>4.75
				165	>4.75	>4.75	>4.75
				175	>4.75	>4.75	>4.75
				185	>4.75	>4.75	>4.75

Table 6-2. Compressive strength of sediment exposed in Trench 2 as measured by a spring-piston-style pocket penetrometer. Three measurements were taken at each depth interval at both shrub and grass zones.

Shrub - 4.5 meters				Grass - 9.5 meters				Grass - 15.4 meters			
Compressive Strength (kg/cm ²)				Compressive Strength (kg/cm ²)				Compressive Strength (kg/cm ²)			
Depth (cm)	R1	R2	R3	Depth (cm)	R1	R2	R3	Depth (cm)	R1	R2	R3
0	1.0	1.0	0.75	0	0.75	1.25	1.0	0	2.25	1.25	1.75
5	2.3	2.5	2.0	5	2.0	2.3	2.3	5	1.0	1.0	1.25
10	3.5	>4.75	3.8	10	1.3	2.3	1.8	10	>4.75	4.5	>4.75
15	4.3	4.0	4.0	15	2.75	2.75	3.0	15	>4.75	>4.75	>4.75
20	2.3	3.0	3.0	20	2.8	2.8	4.0	20	>4.75	4.25	>4.75
25	2.3	4.0	2.5	25	3.5	4.25	2.8	25	20	3.25	2.5
30	3.5	2.5	2.25	30	2.0	2.0	2.25	30	3.75	3.5	4.25
35	2.75	3.0	2.5	35	2.0	2.75	2.5	35	3.75	4.5	>4.75
40	3.25	3.5	3.5	40	3.0	2.75	2.5	40	3.5	>4.75	3.75
45	>4.75	>4.75	>4.75	45	4.25	3.25	3.75	45	>4.75	>4.75	>4.75
50	>4.75	>4.75	>4.75	50	2.75	3.25	3.5	50	>4.75	>4.75	3.25
55	>4.75	>4.75	>4.75	55	4.5	4.25	3.0	55	>4.75	>4.75	4.5
60	>4.75	>4.75	>4.75	60	3.25	4.5	4.25	60	>4.75	4.0	>4.75
65	>4.75	>4.75	>4.75	65	3.5	3.25	3.5	65	4.25	>4.75	>4.75
70	>4.75	>4.75	>4.75	70	>4.75	>4.75	>4.75	70	>4.75	>4.75	>4.75
75	>4.75	>4.75	>4.75	75	>4.75	>4.75	>4.75	75	>4.75	>4.75	>4.75
80	>4.75	>4.75	>4.75	80	>4.75	>4.75	>4.75	80	>4.75	>4.75	>4.75
85	>4.75	>4.75	>4.75	85	>4.75	>4.75	>4.75	85	3.25	3.5	>4.75
90	>4.75	>4.75	>4.75	90	>4.75	>4.75	>4.75	90	>4.75	>4.75	>4.75
				95	>4.75	>4.75	>4.75	95	>4.75	>4.75	>4.75
				100	>4.75	>4.75	>4.75	100	>4.75	>4.75	4.25
				105	>4.75	>4.75	>4.75	105	>4.75	>4.75	>4.75
				110	>4.75	>4.75	>4.75	110	4.5	>4.75	>4.75
				115	>4.75	>4.75	>4.75	115	4.5	4.5	4.5
				120	>4.75	>4.75	>4.75	120	>4.75	>4.75	>4.75
				125	1.25	2.25	3.25	125	>4.75	>4.75	>4.75
				130	>4.75	>4.75	>4.75	130	>4.75	>4.75	4.0
								135	4.5	2.5	2.0
								140	2.5	2.75	4.5
								145	2.5	3.75	3.5
								150	3.75	>4.75	4.5
								155	2.25	3.5	3.25
								160	3.5	3.75	3.25
								165	>4.75	>4.75	>4.75
								170	3.75	>4.75	>4.75
								175	2.25	2.25	2.75
								180	1.5	1.75	2.25
								185	2.5	3.0	2.75
								190	>4.75	>4.75	>4.75

Table 6-3. Compressive strength of sediment exposed in Trench 5 as measured by a spring-piston-style pocket penetrometer. Three measurements were taken at each depth interval at both shrub and grass zones.

Shrub - 1.75 meters				Grass - 17.5 meters			
Depth (cm)	Compressive Strength (kg/cm ²)			Depth (cm)	Compressive Strength (kg/cm ²)		
	R1	R2	R3		R1	R2	R3
0-1	<.25	<.25	<.25	0-1	<.25	<.25	<.25
10	1.8	1.8	1.8	10	>4.75	2.4	2.8
20	4.5	4.3	3.3	20	>4.75	4.8	4.8
30	>4.75	>4.75	2.3	30	>4.75	4.75	4.25
40	>4.75	4.8	>4.75	40	>4.75	>4.75	>4.75
50	4.8	4.75	4.75	50	>4.75	>4.75	>4.75
60	>4.75	>4.75	>4.75	60	>4.75	>4.75	>4.75
70	>4.75	4.75	>4.75	70	>4.75	>4.75	>4.75
80	3.0	1.25	>4.75	80	>4.75	>4.75	>4.75
90	0.5	0.75	0.75	90	1.25	0.75	0.5
100	0.5	<.25	<.25	100	0.25	1.5	1.5
110	1.3	1.25	2.6	110	0.5	0.75	0.25
120	4.75	2.25	1.0	120	0.25	<.25	0.25
130	0.75	1.25	0.75	130	3.5	2.0	1.5
140	0.75	0.6	3.25	140	1.0	1.0	1.5
150	1.25	1.5	1.5				
160	3.0	>4.75	>4.75				
170	>4.75	2.25	1.75				

Table 7. Field magnetic susceptibility

Table 7-1. Field magnetic susceptibility, Trench 1A, measured with a hand-held magnetic susceptometer; reported in SI (international system of units) volume units. n.d., not determined.

Depth (cm)	Trench Position (meters)							
	0	1	2	4	6	8	10	12
0	0.211	0.192	0.294	0.284	0.19	0.231	0.209	0.222
10	0.223	0.162	0.222	0.223	0.236	0.192	0.219	0.209
20	0.226	0.228	0.204	0.179	0.159	0.186	0.166	0.193
30	0.255	0.193	0.187	0.193	0.183	0.174	0.144	0.174
40	0.249	0.161	0.203	0.174	0.171	0.208	0.189	0.144
50	0.255	0.185	0.223	0.171	0.191	0.184	0.124	0.115
60	0.179	0.21	0.187	0.209	0.237	0.188	0.16	0.134
70	0.245	0.252	0.238	0.249	0.239	0.19	0.255	0.208
80	0.251	0.287	0.263	0.191	0.193	0.19	0.275	0.186
90	0.224	0.228	0.225	0.2	0.204	0.189	0.208	0.218
100	0.436	0.225	0.208	0.242	0.182	0.213	0.219	0.179
110	0.574	0.397	0.273	0.227	0.239	0.209	0.162	0.142
120	0.72	0.631	0.39	0.5	0.298	0.265	0.275	0.161
130	0.529	0.704	0.765	0.579	0.517	0.323	0.285	0.294
140	0.51	0.598	0.792	0.734	0.579	0.381	0.444	0.416
150	0.162	0.517	0.486	0.632	n.d.	0.634	0.533	n.d.
160	0.061	0.159	0.37	0.467	n.d.	n.d.	n.d.	n.d.
170	n.d.	0.037	0.063	0.117	n.d.	n.d.	n.d.	n.d.
180	n.d.	n.d.	0.1	0.079	n.d.	n.d.	n.d.	n.d.
190	n.d.	n.d.	0.034	n.d.	n.d.	n.d.	n.d.	n.d.

Table 7-2. Field magnetic susceptibility, Trench 1B, measured with a hand-held magnetic susceptometer; reported in SI volume units. n.d., not determined.

Depth (cm)	Trench Position (meters)						
	0	1	2	4	6	8	10
0	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
10	0.205	0.203	0.177	0.192	0.201	0.232	0.256
20	0.226	0.237	0.211	0.194	0.181	0.154	0.236
30	0.274	0.200	0.217	0.257	0.251	0.225	0.213
40	0.333	0.205	0.284	0.391	0.248	0.239	0.312
50	0.495	0.330	0.309	0.352	0.370	0.449	0.403
60	0.634	0.476	0.478	0.529	0.531	0.545	0.571
70	0.601	0.611	0.441	0.545	0.468	0.494	0.688
80	0.338	0.585	0.515	0.520	0.477	0.476	0.580
90	0.075	0.242	0.425	0.186	0.275	0.448	0.152
100	0.018	0.084	0.092	0.039	0.104	0.062	0.052
110	0.013	0.019	0.041	0.005	0.025	0.022	n.d.
120	0.009	0.007	0.003	n.d.	0.026	n.d.	n.d.
130	n.d.	0.009	0.078	n.d.	n.d.	n.d.	n.d.
140	n.d.	0.009	0.054	n.d.	n.d.	n.d.	n.d.

Table 7-3. Field magnetic susceptibility, Trench 2, measured with a hand-held magnetic susceptometer; reported in SI volume units. n.d., not determined.

Depth (cm)	Trench Position (meters)									
	0	2	4	6	8	10	12	14	15	16
0	0.222	0.244	0.221	0.251	0.35	0.289	0.241	0.302	0.282	0.263
10	0.226	0.276	0.295	0.226	0.249	0.348	0.219	0.342	0.285	0.274
20	0.203	0.252	0.292	0.272	0.276	0.274	0.267	0.243	0.268	0.299
30	0.207	0.243	0.281	0.246	0.326	0.319	0.289	0.276	0.231	0.264
40	0.240	0.235	0.235	0.237	0.265	0.252	0.272	0.282	0.239	0.285
50	0.284	0.348	0.354	0.310	0.298	0.254	0.308	0.315	0.299	0.307
60	0.319	0.393	0.388	0.349	0.386	0.271	0.312	0.321	0.236	0.273
70	0.202	0.367	0.460	0.412	0.433	0.301	0.295	0.326	0.265	0.306
80	0.168	0.334	0.344	0.351	0.525	0.391	0.307	0.306	0.278	0.279
90	0.027	0.244	0.277	0.470	0.432	0.346	0.421	0.335	0.318	0.369
100	0.021	0.196	0.257	0.312	0.530	0.518	0.456	0.302	0.273	0.334
110	0.020	0.124	0.152	0.163	0.486	0.615	0.491	0.262	0.236	0.293
120	0.016	0.148	0.200	0.026	0.059	0.387	0.405	0.227	0.322	0.221
130	n.d.	0.194	n.d.	n.d.	n.d.	0.026	0.022	0.165	0.232	0.270
140	n.d.	n.d.	n.d.	n.d.	n.d.	0.045	0.067	0.241	0.128	0.188
150	n.d.	n.d.	n.d.	n.d.	n.d.	0.019	0.037	0.032	0.112	0.256
160	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.086	0.059	0.079	0.214
170	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.129	0.265
180	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.134	0.175
190	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.171

Table 7-4. Field magnetic susceptibility, Trench 4, measured with a hand-held magnetic susceptometer; reported in SI volume units. n.d., not determined.

Depth (cm)	Trench Position (meters)						
	0	1	2	4	6	8	10
0	0.276	0.354	0.274	0.380	0.301	0.287	0.313
10	0.203	0.272	0.252	0.322	0.301	0.316	0.344
20	0.343	0.313	0.337	0.330	0.310	0.305	0.289
30	0.356	0.289	0.300	0.325	0.363	0.309	0.335
40	0.298	0.313	0.356	0.394	0.376	0.356	0.334
50	0.308	0.240	0.283	0.425	0.428	0.361	0.296
60	0.024	0.079	0.250	0.422	0.462	0.450	0.355
70	n.d.	n.d.	0.028	0.197	0.424	0.454	0.389
80	n.d.	n.d.	n.d.	n.d.	0.420	0.358	0.432
90	n.d.	n.d.	n.d.	n.d.	0.089	0.423	0.346
100	n.d.	n.d.	n.d.	n.d.	0.021	0.269	0.201
110	n.d.	n.d.	n.d.	n.d.	n.d.	0.257	0.167
120	n.d.	n.d.	n.d.	n.d.	n.d.	0.020	0.028

Table 7-5. Field magnetic susceptibility, Trench 5, measured with a hand-held magnetic susceptometer; reported in SI volume units. n.d., not determined.

Depth (cm)	Trench Position (meters)								
	0	2	4	6	8	10	14	18	20
0	0.14	0.12	0.13	0.12	0.14	0.14	0.16	0.16	0.12
10	0.12	0.14	0.16	0.13	0.14	0.13	0.12	0.13	0.11
20	0.06	0.10	0.09	0.07	0.05	0.12	0.07	0.10	0.10
30	0.05	0.05	0.04	0.07	0.05	0.04	0.07	0.06	0.07
40	0.05	0.05	0.05	0.05	0.05	0.04	0.07	0.06	0.07
50	0.05	0.05	0.06	0.06	0.06	0.06	0.04	0.08	0.06
60	0.08	0.06	0.04	0.05	0.06	0.06	0.05	0.06	0.06
70	0.05	0.06	0.04	0.04	0.07	0.07	0.05	0.05	0.05
80	0.08	0.05	0.04	0.05	0.06	0.08	0.10	0.06	0.09
90	0.07	0.07	0.05	0.05	0.07	0.05	0.08	0.06	0.08
100	0.04	0.07	0.06	0.06	0.07	0.05	0.07	0.08	0.06
110	0.06	0.08	0.06	0.06	0.07	0.08	0.05	0.07	0.05
120	0.07	0.05	0.07	0.07	0.06	0.07	0.08	0.06	0.07
130	0.08	0.05	0.07	0.07	0.06	0.07	0.07	0.06	n.d.
140	0.11	0.10	0.11	0.07	0.06	0.10	0.08	0.09	n.d.
150	0.08	0.12	0.14	0.10	0.10	0.10	0.09	n.d.	n.d.
160	0.09	0.11	0.11	0.15	0.02	0.07	0.10	n.d.	n.d.
170	0.11	0.13	0.02	0.01	0.02	0.04	0.09	n.d.	n.d.
180	n.d.	0.10	n.d.	n.d.	0.03	n.d.	0.11	n.d.	n.d.
190	n.d.	0.00	n.d.	n.d.	n.d.	n.d.	0.02	n.d.	n.d.

Table 8. Summary data

This table lists soils laboratory data and magnetic and chemical properties measured.

[**Sample no.:** Unique sample number (for example, 05U3/0-10); presented as site designation (05U3), 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 (Machette, 1986).

Sand, Silt, Clay %: Sand, silt and clay percentages determined using a laser particle-size analyzer. For detailed particle-size data, see table 9.

Bulk density: Measured by parrifn clod method (by ped; Singer and Janitzky, 1986) or by soil bulk density sampler (by cylinder).

Magnetic properties completed: Samples for which magnetic properties were determined. All magnetic properties were determined on the <2-mm-size fraction. Refer to text for property designations and table 4 for specific magnetic property data. MS = magnetic susceptibility, ARM = anhysteretic remanent magnetization, IRM = isothermal remanent magnetization.

Bulk chemistry completed: Samples for which chemical analysis has been completed. Samples were analyzed by ICP-AES, ICP-MS and INAA techniques for bulk chemical data and by various lab techniques (see text for methods and abbreviations) for plant essential chemical data. Refer to appropriate table for specific chemistry data.

Age determinations: Age determinations made by C-14 and optically stimulated luminescence (OSL) techniques.

n.d.: not determined.]

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 10)	Bulk Chemistry completed (see table 11)	Plant Essential chemistry completed (see table 12)	Age determination completed (see table 13)
05U3/0-10	0.978	3.39	70.48	22.08	7.44	n.d.	1.27	MS, ARM, IRM	n.d.	n.d.	n.d.
05U3/0-18	0.977	4.00	69.67	21.88	8.46	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U3/18-32	0.963	4.28	66.74	24.65	8.62	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
05U3/32-45	0.942	4.44	63.84	27.47	8.69	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U3/45-58	0.943	6.25	62.29	29.00	8.72	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U3/58-67	0.944	9.58	61.28	29.52	9.20	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U3/67-76	0.952	12.87	61.06	29.01	9.93	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U3/76-86	0.941	13.27	57.09	32.31	10.60	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U3/86-92	0.946	13.52	53.72	34.38	11.90	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U3/92-98	0.944	13.55	53.66	35.48	10.87	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/0-10	0.984	2.19	58.38	33.00	8.62	n.d.	1.54	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U5/10-18	0.977	3.34	59.03	30.26	10.71	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/18-25	0.976	3.91	61.90	29.24	8.86	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/25-33	0.972	4.68	62.66	28.66	8.69	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/33-42	0.976	5.18	63.48	27.66	8.87	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/42-48	0.974	5.95	63.59	28.62	7.79	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/48-55	0.961	6.66	65.37	26.95	7.69	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/55-65	0.963	7.79	66.51	26.00	7.48	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/65-71	0.947	8.13	65.05	27.08	7.88	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/71-77	0.963	7.83	66.64	25.03	8.33	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/77-86	0.956	8.45	67.98	24.37	7.65	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/86-109	0.955	8.12	63.95	28.17	7.88	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/109-129	0.959	8.81	64.24	27.82	7.94	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U5/129-141	0.968	12.54	66.24	26.62	7.15	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U6/0-10	0.977	0.67	59.12	32.66	8.22	n.d.	1.29	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U6/10-30	0.967	3.26	65.08	26.63	8.30	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U6/30-50	0.960	7.82	62.24	29.31	8.45	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
05U7/0-18	0.977	1.71	51.54	37.65	10.82	n.d.	1.57	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U7/18-31	0.974	4.10	58.28	31.98	9.74	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U7/31-46	0.972	5.37	62.08	30.30	7.61	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U7/46-59	0.966	8.17	61.32	30.04	8.65	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U7/59-73	0.963	8.71	64.02	27.65	8.34	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U7/73-91	0.957	7.20	63.36	28.01	8.64	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U7/91-107	0.946	5.44	56.04	32.57	11.39	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U7/107-120	0.952	8.12	50.18	35.18	14.65	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U7/120-136	0.968	12.54	49.47	36.29	14.24	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U8A/0-10	0.975	1.39	60.28	31.47	8.25	n.d.	1.37	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U8A/10-30	0.963	4.89	62.81	28.33	8.86	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U8A/30-50	0.965	8.82	68.77	23.73	7.50	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U8B/0-10	0.977	1.33	64.88	26.10	9.03	n.d.	1.44	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U8B/10-30	0.960	3.92	65.74	25.46	8.81	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U8B/30-50	0.949	7.40	62.81	28.53	8.66	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U9/0-10	0.988	1.68	61.82	30.15	8.03	n.d.	1.45	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U9/10-26	0.976	5.50	77.16	18.68	4.16	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
05U9/26-36	0.975	4.76	64.05	26.94	9.01	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U9/36-55	0.967	6.35	61.77	28.27	9.96	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U9/55-67	0.950	6.37	63.50	26.77	9.72	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U9/67-79	0.950	5.90	65.23	25.95	8.82	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U9/79-91	0.938	6.15	63.57	26.68	9.75	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U9/91-102	0.942	8.53	60.67	29.76	9.57	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U9/102-112	0.932	11.10	51.43	37.51	11.07	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U9/112-123	0.943	10.96	48.96	40.23	10.82	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U10/0-10	0.986	0.46	52.37	36.20	11.43	n.d.	1.38	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U10/10-30	0.969	2.05	51.85	35.20	12.96	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U10/30-50	0.957	5.99	52.38	34.10	13.53	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U11/0-10	0.980	0.36	44.33	38.69	16.99	n.d.	1.34	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U11/10-20	0.974	2.47	51.89	32.11	16.00	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U11/20-35	0.971	6.06	50.94	34.98	14.08	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U11/35-45	0.969	5.73	55.79	31.15	13.07	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U11/45-57	0.962	5.32	60.39	29.14	10.47	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U11/57-69	0.956	6.71	65.29	26.77	7.95	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U11/65-81	0.952	12.41	70.44	21.41	8.15	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U11/81-94	0.951	26.68	82.39	9.84	7.77	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U11/94-105	0.952	18.16	87.34	8.04	4.62	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U11/105-114	0.937	37.41	78.98	15.56	5.46	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
05U13/0-10	0.972	0.32	40.52	34.55	24.93	n.d.	1.13	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U13/10-25	0.953	0.31	56.22	31.02	12.76	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U13/25-38	0.945	3.22	52.72	32.54	14.74	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U13/38-47	0.929	6.94	55.33	31.84	12.83	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U13/47-57	0.926	11.27	60.30	29.91	9.79	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U13/57-68	0.930	14.56	70.18	21.59	8.23	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U13/68-80	0.942	11.95	83.76	10.51	5.73	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U13/80-95	0.937	17.41	83.13	11.66	5.21	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U13/95-105	0.949	13.79	71.32	22.93	5.75	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U13/105-114	0.970	10.00	91.55	6.13	2.32	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/0-10	0.967	1.13	51.27	33.24	15.50	n.d.	1.43	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U15/10-24	0.963	4.39	59.57	28.15	12.28	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/24-40	0.952	6.27	60.62	29.26	10.12	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/40-53	0.947	6.09	55.25	32.73	12.03	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/53-65	0.942	5.08	55.81	32.54	11.64	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/65-77	0.946	4.35	51.94	36.29	11.77	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/77-93	0.940	5.70	44.69	39.57	15.74	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/93-107	0.924	16.10	43.94	44.12	11.94	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/107-121	0.914	29.16	49.37	37.80	12.83	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/121-135	0.949	16.64	48.95	41.20	9.85	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/135-148	0.964	14.21	32.53	49.89	17.59	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U15/148-154	0.962	14.68	62.72	29.01	8.27	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
05U17/0-10	0.982	0.40	62.96	29.52	7.53	n.d.	1.42	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U17/10-23	0.976	1.17	60.58	29.48	9.95	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U17/23-46	0.970	6.65	59.37	31.72	8.92	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U17/46-62	0.954	9.11	60.44	29.00	10.56	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U17/62-78	0.948	7.76	56.38	33.35	10.27	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U17/78-92	0.949	5.14	58.04	30.53	11.43	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U17/92-107	0.943	3.18	52.57	30.71	16.73	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U17/107-121	0.929	7.84	35.85	41.33	22.82	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U17/121-132	0.955	6.56	33.22	50.24	16.54	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U17/132-139	0.955	6.36	46.15	40.08	13.78	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/0-10	0.993	1.37	63.81	27.25	8.94	n.d.	1.41	MS, ARM, IRM	ICP-MS, ICP-AES	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U19/10-25	0.969	5.35	65.35	25.23	9.42	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/25-36	0.961	8.05	62.53	28.32	9.15	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/36-50	0.967	9.31	66.71	25.71	7.58	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/50-59	0.966	9.30	68.07	25.08	6.85	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/59-68	0.970	7.92	69.20	23.87	6.93	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/68-80	0.972	6.72	67.77	24.36	7.87	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/80-97	0.971	2.85	65.68	24.98	9.34	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/97-109	0.967	6.32	66.20	25.71	8.09	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/109-120	0.969	9.44	57.41	31.82	10.78	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/120-129	0.963	8.14	46.42	39.70	13.88	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.
05U19/129-141	0.965	9.32	38.92	46.52	14.57	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d.

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
05U20/0-10	0.970	0.97	54.91	33.54	11.55	n.d.	1.52	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U20/10-30	0.971	3.93	63.06	28.30	8.64	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U20/30-50	0.972	6.48	63.39	28.07	8.54	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U21/0-10	0.974	0.98	59.76	31.00	9.24	n.d.	1.48	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U21/10-30	0.965	3.33	62.73	28.17	9.10	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U21/30-50	0.957	8.91	62.90	29.04	8.06	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U22/0-10	0.968	3.59	57.53	33.48	8.98	n.d.	1.54	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U22/10-30	0.961	3.42	58.25	31.84	9.90	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U22/30-50	0.989	6.51	61.94	29.48	8.58	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U23/0-10	0.976	3.95	76.29	17.98	5.73	n.d.	1.55	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U23/10-30	0.975	4.07	57.19	34.14	8.67	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U23/30-50	0.974	3.82	57.13	32.80	10.07	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U24/0-10	0.961	4.41	66.29	26.28	7.43	n.d.	1.47	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U24/10-30	0.971	4.61	64.74	27.19	8.07	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U24/30-50	0.967	3.20	57.60	32.22	10.19	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
05U25/0-10	0.963	2.16	65.53	27.71	6.77	n.d.	1.54	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U25/10-30	0.970	2.77	60.96	29.81	9.24	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U25/30-50	0.968	8.17	63.04	28.34	8.62	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/0-10	0.978	0.50	68.37	20.18	11.45	n.d.	1.35	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U26/10-23	0.972	0.44	67.45	21.06	11.49	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/23-38	0.976	0.76	69.60	21.55	8.85	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/38-49	0.975	2.70	75.71	17.49	6.80	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/49-60	0.979	3.61	78.08	16.33	5.59	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/60-71	0.981	2.80	78.23	16.29	5.48	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/71-81	0.981	3.12	78.30	16.75	4.95	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/81-91	0.980	4.47	73.77	20.43	5.79	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/91-103	0.975	3.59	67.71	25.43	6.86	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/103-112	0.977	5.35	64.81	27.80	7.39	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/112-121	0.973	6.22	64.81	27.89	7.29	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/121-133	0.964	27.32	70.82	21.95	7.23	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/133-144	0.963	35.17	72.65	21.13	6.23	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U26/144-153	0.969	26.36	72.40	21.35	6.25	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U27/0-10	0.987	0.69	68.50	24.79	6.71	n.d.	1.43	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U27/10-22	0.981	0.74	67.37	25.03	7.60	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U27/22-31	0.977	3.63	68.82	23.28	7.90	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
05U27/31-40	0.973	5.28	65.79	26.19	8.02	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U27/40-48	0.975	5.32	64.02	27.90	8.08	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U27/48-56	0.976	5.50	62.57	29.33	8.11	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U27/56-64	0.973	5.10	61.45	29.58	8.97	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U27/64-70	0.968	7.93	57.98	32.55	9.47	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U27/70-79	0.966	6.14	51.30	38.16	10.54	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U28/0-10	0.973	0.33	86.23	9.34	4.43	n.d.	1.51	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U28/10-23	0.974	0.41	88.16	8.00	3.85	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U28/23-40	0.983	1.26	89.39	7.28	3.34	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U28/40-53	0.982	2.56	88.72	7.86	3.42	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U28/53-67	0.984	2.95	87.53	9.03	3.44	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U28/67-80	0.987	2.84	91.67	5.64	2.69	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/0-10	0.974	0.35	83.42	11.53	5.05	n.d.	1.66	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U29/10-23	0.982	0.37	87.33	8.90	3.78	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/23-38	0.985	0.67	88.41	8.21	3.38	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/38-52	0.985	1.48	86.11	10.34	3.56	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/52-65	0.987	2.26	87.06	9.44	3.50	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/65-77	0.988	2.99	86.16	10.34	3.50	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/77-88	0.988	2.63	87.39	9.58	3.04	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/88-100	0.989	1.80	90.30	6.91	2.79	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/100-112	0.989	1.75	90.97	6.48	2.55	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/112-123	0.989	1.53	90.72	6.50	2.78	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
05U29/123-132	0.987	2.02	85.83	10.81	3.37	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/132-143	0.989	1.74	89.08	7.93	3.00	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U29/143-157	0.991	1.29	93.35	4.33	2.32	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/0-10	0.982	1.02	78.91	15.97	5.12	n.d.	1.55	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U30/10-23	0.980	1.07	78.64	16.28	5.08	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/23-40	0.982	1.48	83.28	12.65	4.07	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/40-55	0.988	1.74	86.61	10.13	3.27	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/55-70	0.989	1.67	90.89	6.49	2.62	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/70-82	0.988	1.77	87.53	9.42	3.04	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/82-94	0.991	1.29	90.75	6.63	2.62	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/94-108	0.985	1.47	90.78	6.83	2.39	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/108-123	0.987	1.86	86.36	10.43	3.21	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/123-135	0.985	1.29	84.51	11.62	3.87	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/135-146	0.986	1.30	88.63	9.01	2.36	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U30/146-159	0.987	1.60	84.38	11.97	3.66	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U31/0-10	0.967	3.18	54.40	31.11	14.49	n.d.	1.56	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U31/10-30	0.945	7.59	48.88	35.80	15.32	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U31/30-50	0.945	9.59	60.17	28.46	11.38	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U32/0-10	0.975	3.04	72.88	18.88	8.24	n.d.	1.47	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U32/10-30	0.979	4.78	75.74	17.40	6.86	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
05U32/30-50	0.977	5.89	76.51	16.84	6.65	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/0-10	0.978	1.27	83.58	12.48	3.94	n.d.	1.59	MS, ARM, IRM	n.d.	P-Bicarb,K-av, OM,pH,EC,CEC, Macro,Micro,TKN	n.d.
05U33/10-22	0.981	1.44	84.87	11.10	4.03	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/22-39	0.978	2.11	86.76	9.58	3.66	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/39-56	0.986	2.63	86.21	10.26	3.53	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/56-72	0.985	2.58	84.74	11.24	4.03	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/72-85	0.987	2.52	85.09	11.05	3.86	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/85-100	0.988	3.19	87.24	9.32	3.45	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/100-110	0.991	3.04	86.25	10.15	3.60	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/110-124	0.989	3.71	87.83	8.92	3.25	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/124-136	0.990	3.31	88.03	8.75	3.22	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/136-151	0.990	3.12	88.46	8.44	3.10	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
05U33/151-158	0.988	3.26	87.51	9.24	3.25	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d.
06U3/0-7	0.977	1.49	69.14	22.96	7.90	n.d.	1.44	MS, ARM, IRM	n.d.	n.d.	n.d.
06U3/7-15	0.977	3.22	59.95	29.43	10.62	1.34	1.62	MS, ARM, IRM	n.d.	n.d.	n.d.
06U3/15-29	0.975	8.12	57.85	31.56	10.58	1.47	1.47	MS, ARM, IRM	n.d.	n.d.	n.d.
06U3/29-55	0.980	12.94	62.93	26.61	10.46	1.55	1.67	MS, ARM, IRM	n.d.	n.d.	n.d.
06U3/55-78	0.980	10.84	59.74	29.19	11.07	1.41	1.42	MS, ARM, IRM	n.d.	n.d.	n.d.
06U3/78-95	0.976	8.74	67.17	23.66	9.17	1.52	1.55	MS, ARM, IRM	n.d.	n.d.	n.d.
06U3/95-137	0.979	9.62	59.14	33.39	7.47	1.36	1.59	MS, ARM, IRM	n.d.	n.d.	n.d.
06U3/137-186	0.975	6.53	67.69	24.32	8.00	1.47	1.42	MS, ARM, IRM	n.d.	n.d.	n.d.
06U4/0-4	0.993	2.05	61.01	31.07	7.91	n.d.	1.34	MS, ARM, IRM	n.d.	n.d.	n.d.
06U4/4-11	0.985	3.18	58.15	30.89	10.95	1.57	1.54	MS, ARM, IRM	n.d.	n.d.	n.d.
06U4/11-17	0.978	5.33	56.99	32.75	10.26	1.32	1.50	MS, ARM, IRM	n.d.	n.d.	n.d.
06U4/17-40	0.978	9.81	56.66	33.38	9.96	1.22	1.51	MS, ARM, IRM	n.d.	n.d.	OSL

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
06U4/40-64	0.978	11.40	56.41	33.22	10.38	1.30	1.41	MS, ARM, IRM	n.d.	n.d.	n.d
06U4/64-88	0.984	10.55	60.92	29.65	9.44	1.37	1.42	MS, ARM, IRM	n.d.	n.d.	n.d
06U4/88-128	0.987	8.38	62.02	33.70	4.28	1.60	1.43	MS, ARM, IRM	n.d.	n.d.	OSL
06U4/128-150	0.974	9.75	55.62	35.46	8.92	n.d.	1.62	MS, ARM, IRM	n.d.	n.d.	OSL
06U5/0-4	0.974	1.61	56.39	32.93	10.69	n.d.	1.33	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U5/4-10	0.954	1.57	51.42	34.92	13.66	1.63	1.54	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U5/10-27	0.972	3.28	53.87	31.97	14.17	1.43	1.40	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U5/27-39	0.970	3.93	56.45	29.34	14.21	1.38	1.31	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U5/39-49	0.965	3.84	57.79	28.74	13.47	1.49	1.65	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U5/49-61	n.d	6.02	61.79	27.51	10.69	1.67	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U5/61-83	n.d	17.19	61.45	28.51	10.05	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U5/83-103	n.d	17.60	73.10	19.96	6.94	1.73	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U5/103-122	n.d	12.41	75.00	17.99	7.01	1.73	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U5/122-132	n.d	9.00	69.42	22.28	8.31	1.58	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U6/0-6	0.976	2.12	48.01	38.72	13.27	n.d.	1.54	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U6/6-25	0.941	3.44	47.78	37.04	15.18	1.51	1.42	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U6/25-54	0.972	5.52	47.14	36.39	16.47	1.35	1.31	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	OSL
06U7/0-4	0.978	1.60	48.52	39.07	12.41	n.d.	1.35	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U7/4-13	0.925	2.45	44.88	39.05	16.07	1.55	1.53	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U7/13-27	0.928	4.12	45.43	37.22	17.35	1.44	1.46	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U7/27-52	0.969	5.50	44.99	38.11	16.90	1.31	1.36	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U7/52-71	0.970	5.11	42.22	39.67	18.12	1.36	1.39	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U7/71-101	0.966	6.18	42.57	39.81	17.63	1.35	1.43	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	OSL
06U7/101-116	0.975	9.41	70.23	19.79	9.97	1.44	1.32	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U7/116-135	0.971	7.99	65.08	24.48	10.44	n.d.	1.38	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U7/135-190	0.979	13.77	65.55	23.10	11.34	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U8/0-3	0.991	0.41	71.76	23.84	4.40	n.d.	1.39	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
06U8/3-8	0.987	1.54	64.72	28.82	6.46	n.d.	1.42	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U8/8-15	0.979	0.56	57.70	31.41	10.89	1.61	1.61	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U8/15-33	0.981	3.71	63.40	27.56	9.04	1.56	1.46	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U8/33-57	0.978	10.27	56.38	33.67	9.95	1.49	1.37	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U8/57-69	0.977	9.08	56.81	33.42	9.77	1.59	1.45	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U8/69-80	n.d	11.04	55.54	32.73	11.74	1.62	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U8/80-99	n.d	7.91	59.64	30.05	10.32	1.57	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U8/99-120	n.d	12.40	53.26	35.42	11.32	1.68	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U8/120-140	n.d	7.32	48.19	40.59	11.22	1.57	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U8/140-154	n.d	14.05	47.72	41.46	10.83	1.70	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U8/154-173	n.d	27.08	55.53	33.31	11.16	1.65	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U9/0-7	0.989	0.42	60.70	32.30	7.00	1.58	1.51	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U9/7-13	0.973	4.32	56.10	32.11	11.79	n.d.	1.53	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U9/13-26	0.976	5.42	58.27	32.15	9.58	n.d.	1.37	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U9/26-32	0.975	11.58	58.52	31.50	9.98	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U9/32-65	0.980	11.02	64.61	27.65	7.74	n.d.	1.38	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U9/65-85	0.980	6.41	60.68	30.70	8.62	1.65	1.40	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U9/85-132	0.978	7.24	55.92	32.65	11.43	1.64	1.44	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U9/132-150	0.966	6.70	45.35	40.17	14.49	1.80	1.52	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U10/89-111	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	OSL
06U11/0-4	0.985	0.89	67.96	26.02	6.02	n.d.	1.27	MS, ARM, IRM	n.d.	n.d.	n.d
06U11/4-13	0.972	1.15	62.96	28.45	8.59	n.d.	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d
06U11/13-25	0.976	1.84	55.33	31.30	13.38	1.42	1.43	MS, ARM, IRM	n.d.	n.d.	n.d
06U11/25-50	0.968	7.81	51.10	34.96	13.94	1.41	1.37	MS, ARM, IRM	n.d.	n.d.	n.d
06U11/50-70	n.d	6.60	46.31	36.28	17.42	1.73	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d
06U11/70-90	n.d	10.80	39.75	36.68	23.57	1.74	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d
06U11/90-119	n.d	12.99	73.76	12.67	13.57	1.51	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d

Table 8. Summary data—Continued

Sample no.	Hygroscopic moisture factor	CaCO ₃ (%)	Sand (%)	Silt (%)	Clay (%)	Bulk density by ped	Bulk density by cylinder	Magnetic properties completed (see table 11)	Bulk Chemistry completed (see table 12)	Plant Essential chemistry completed (see table 13)	Age determination completed (see tables 14 and 15)
06U12/0-7	0.985	1.45	52.78	40.98	6.24	n.d.	1.39	MS, ARM, IRM	n.d.	n.d.	n.d
06U12/7-17	0.976	2.00	47.72	36.80	15.48	n.d.	1.48	MS, ARM, IRM	n.d.	n.d.	n.d
06U12/17-33	0.974	2.79	48.73	35.46	15.81	n.d.	1.24	MS, ARM, IRM	n.d.	n.d.	n.d
06U12/33-47	0.974	6.71	47.46	35.91	16.64	n.d.	1.46	MS, ARM, IRM	n.d.	n.d.	n.d
06U12/47-77	n.d	6.81	46.22	33.95	19.83	1.75	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d
06U12/77-94	n.d	12.04	43.34	36.86	19.81	1.45	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d
06U12/94-109	n.d	17.11	69.45	15.66	14.88	1.76	n.d.	MS, ARM, IRM	n.d.	n.d.	n.d
06U13/0-4	0.984	2.12	36.21	48.07	15.73	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U13/4-12	0.963	1.56	38.17	47.52	14.30	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U13/12-28	0.954	1.88	31.56	45.44	23.00	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U13/28-42	0.958	5.16	29.48	43.90	26.63	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U13/42-68	0.971	4.95	40.07	35.65	24.29	n.d.	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U14/0-4	0.984	2.59	29.10	53.85	17.06	n.d.	1.35	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U14/4-12	0.956	2.57	28.70	50.76	20.54	1.50	1.42	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U14/12-20	0.964	1.50	29.96	47.16	22.88	1.43	1.44	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U14/20-37	0.969	3.17	32.53	44.43	23.04	1.37	1.29	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U14/37-67	0.975	6.23	31.07	42.66	26.27	1.49	1.45	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U14/67-86	n.d	7.64	34.08	38.82	27.10	1.60	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES, INAA	n.d.	n.d
06U14/86-98	n.d	4.27	51.26	30.17	18.58	1.70	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U14/98-110	n.d	1.82	75.22	21.00	3.78	1.76	n.d.	MS, ARM, IRM	ICP-MS, ICP-AES	n.d.	n.d
06U15/35	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	OSL
06U16/109	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	OSL
06U17/58-79	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	OSL
06U18/152-166	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	OSL
06U19/43	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	OSL
06U20/62	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	OSL
Trench 1A/95-105	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	n.d	C-14

Table 9. Particle-size data

This table contains high-resolution particle-size data obtained using a laser particle size analyzer. Data are displayed in accordance to the Wentworth scale (Wentworth, 1922) and in some cases the U.S.D.A. scale (Soil Survey Staff, 1975).

Values are reported as volume percent of the <2mm portion of the total sample.

Table 9a-1. Particle size data for the 05U-3 auger hole, Wentworth scale.

				05U-3				
		Micrometers		0-10 cm	0-18 cm	18-32 cm	32-45 cm	45-58 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.02	0.05	0.03	0.02	0.00
		297	250	1.05	1.56	1.34	1.10	0.10
	Fine	250	210	2.50	3.10	2.73	2.29	1.69
		210	177	4.59	5.16	4.64	3.98	3.12
		177	149	7.43	7.73	7.12	6.23	5.48
		149	125	10.78	10.52	9.97	8.96	8.51
	Very Fine	125	105	13.21	12.34	11.95	11.03	11.14
		105	88	12.77	11.84	11.65	12.01	12.66
		88	74	10.59	10.00	9.93	10.33	11.08
		74	63	7.55	7.36	7.38	7.90	8.51
SILT	Coarse	63	53	5.70	5.74	5.87	6.49	6.97
		53	44	3.99	4.10	4.33	4.94	5.30
		44	37	2.37	2.41	2.71	3.15	3.37
		37	31.2	1.53	1.50	1.83	2.14	2.30
	Medium	31.2	26.3	1.05	0.98	1.31	1.51	1.62
		26.3	22.1	0.81	0.72	1.03	1.16	1.23
		22.1	18.6	0.73	0.63	0.88	0.96	1.01
		18.6	15.6	0.75	0.65	0.85	0.90	0.94
	Fine	15.6	13.1	0.75	0.68	0.83	0.88	0.90
		13.1	11	0.74	0.70	0.81	0.86	0.88
		11	9.3	0.68	0.67	0.75	0.81	0.81
		9.3	7.8	0.66	0.67	0.75	0.81	0.81
	Very Fine	7.8	6.6	0.59	0.61	0.68	0.74	0.74
		6.6	5.5	0.61	0.64	0.72	0.77	0.77
		5.5	4.6	0.58	0.62	0.69	0.72	0.72
		4.6	3.9	0.53	0.56	0.62	0.64	0.64
CLAY	Coarse	3.9	3.3	0.54	0.57	0.62	0.64	0.64
		3.3	2.8	0.53	0.56	0.61	0.61	0.62
		2.8	2.3	0.61	0.66	0.71	0.71	0.72
		2.3	1.95	0.49	0.53	0.57	0.57	0.58
	Medium	1.95	1.64	0.49	0.54	0.56	0.56	0.57
		1.64	1.38	0.50	0.52	0.56	0.55	0.57
		1.38	1.16	0.47	0.49	0.53	0.52	0.53
		1.16	0.98	0.40	0.43	0.46	0.45	0.45
	Fine	0.98	0.82	0.40	0.44	0.46	0.46	0.45
		0.82	0.69	0.41	0.44	0.48	0.46	0.46
		0.69	0.58	0.45	0.47	0.51	0.50	0.50
		0.58	0.49	0.50	0.51	0.56	0.55	0.56
	Very Fine	<0.49		1.68	2.31	1.99	2.12	2.06

Table 9a-1. Particle size data for the 05U-3 auger hole, Wentworth scale—Continued

				05U-3				
		Micrometers		58–67 cm	67–76 cm	76–86 cm	86–92 cm	92–98 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.00	0.02	0.00	0.00	0.00
		297	250	0.11	1.08	0.08	0.05	0.04
	Fine	250	210	1.71	2.18	1.43	1.31	1.20
		210	177	3.14	3.77	2.79	2.95	2.86
		177	149	5.47	5.90	5.01	4.87	4.77
		149	125	8.43	8.51	7.85	7.28	7.20
	Very Fine	125	105	10.96	10.53	10.27	9.28	9.25
		105	88	12.38	11.52	11.61	10.46	10.51
		88	74	10.80	9.93	10.20	9.88	10.02
		74	63	8.30	7.62	7.85	7.63	7.81
SILT	Coarse	63	53	6.83	6.32	6.59	6.58	6.80
		53	44	5.24	4.93	5.21	5.38	5.60
		44	37	3.39	3.24	3.51	3.72	3.90
		37	31.2	2.35	2.29	2.56	2.75	2.90
	Medium	31.2	26.3	1.70	1.70	1.97	2.14	2.25
		26.3	22.1	1.32	1.37	1.63	1.77	1.86
		22.1	18.6	1.10	1.16	1.41	1.53	1.59
		18.6	15.6	1.02	1.09	1.32	1.43	1.48
	Fine	15.6	13.1	0.97	1.02	1.23	1.34	1.37
		13.1	11	0.93	0.98	1.16	1.27	1.29
		11	9.3	0.85	0.89	1.05	1.17	1.18
		9.3	7.8	0.85	0.89	1.04	1.16	1.16
	Very Fine	7.8	6.6	0.76	0.80	0.93	1.06	1.05
		6.6	5.5	0.79	0.84	0.97	1.11	1.09
		5.5	4.6	0.75	0.79	0.92	1.05	1.03
		4.6	3.9	0.67	0.71	0.82	0.94	0.91
CLAY	Coarse	3.9	3.3	0.66	0.71	0.81	0.92	0.90
		3.3	2.8	0.64	0.68	0.77	0.88	0.86
		2.8	2.3	0.75	0.79	0.89	1.01	0.98
		2.3	1.95	0.60	0.64	0.70	0.80	0.77
	Medium	1.95	1.64	0.60	0.63	0.69	0.78	0.75
		1.64	1.38	0.59	0.62	0.67	0.75	0.71
		1.38	1.16	0.54	0.57	0.61	0.68	0.64
		1.16	0.98	0.46	0.49	0.51	0.59	0.55
	Fine	0.98	0.82	0.46	0.49	0.51	0.58	0.53
		0.82	0.69	0.47	0.49	0.51	0.56	0.51
		0.69	0.58	0.52	0.53	0.56	0.59	0.53
		0.58	0.49	0.59	0.60	0.64	0.65	0.57
	Very Fine	<0.49		2.32	2.70	2.74	3.13	2.58

Table 9a-2. Particle size data for the 05U-5 auger hole, Wentworth scale.

				05U-5						
		Micrometers		0-10 cm	10-18 cm	18-25 cm	25-33 cm	33-42 cm	42-48 cm	48-55 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	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
		354	297	0.00	0.00	0.00	0.02	0.03	0.02	0.02
		297	250	0.00	0.07	0.06	0.87	1.23	0.82	1.00
	Fine	250	210	0.21	1.59	1.60	1.96	2.45	1.95	2.28
		210	177	2.36	3.45	3.56	3.55	4.13	3.59	4.08
		177	149	4.84	5.60	5.84	5.75	6.31	5.85	6.47
		149	125	7.51	8.24	8.69	8.48	8.85	8.69	9.30
	Very Fine	125	105	10.06	10.32	10.95	10.72	10.73	11.00	11.38
		105	88	12.00	11.48	12.17	12.07	11.66	12.32	12.30
		88	74	11.94	10.18	10.69	10.74	10.16	10.86	10.51
		74	63	9.47	8.09	8.36	8.50	7.93	8.49	8.02
SILT	Coarse	63	53	8.23	6.94	7.01	7.20	6.65	7.10	6.59
		53	44	6.57	5.50	5.45	5.60	5.17	5.47	5.02
		44	37	4.28	3.59	3.51	3.58	3.32	3.49	3.18
		37	31.2	2.88	2.46	2.39	2.40	2.26	2.35	2.13
	Medium	31.2	26.3	1.94	1.74	1.67	1.63	1.58	1.63	1.49
		26.3	22.1	1.36	1.30	1.25	1.17	1.17	1.20	1.12
		22.1	18.6	0.99	1.05	0.99	0.88	0.93	0.93	0.92
		18.6	15.6	0.85	0.96	0.90	0.77	0.84	0.84	0.86
	Fine	15.6	13.1	0.79	0.91	0.85	0.73	0.79	0.80	0.83
		13.1	11	0.79	0.90	0.83	0.72	0.77	0.78	0.80
		11	9.3	0.76	0.85	0.78	0.69	0.73	0.73	0.74
		9.3	7.8	0.78	0.87	0.79	0.71	0.74	0.73	0.74
	Very Fine	7.8	6.6	0.72	0.81	0.72	0.65	0.68	0.66	0.66
		6.6	5.5	0.75	0.85	0.75	0.69	0.72	0.69	0.68
		5.5	4.6	0.70	0.81	0.71	0.66	0.69	0.65	0.63
		4.6	3.9	0.63	0.73	0.63	0.59	0.62	0.57	0.56
CLAY	Coarse	3.9	3.3	0.62	0.72	0.62	0.59	0.61	0.56	0.56
		3.3	2.8	0.59	0.69	0.60	0.57	0.59	0.54	0.53
		2.8	2.3	0.69	0.81	0.69	0.66	0.69	0.62	0.62
		2.3	1.95	0.56	0.65	0.56	0.54	0.56	0.50	0.50
	Medium	1.95	1.64	0.57	0.66	0.56	0.54	0.56	0.50	0.50
		1.64	1.38	0.56	0.65	0.56	0.54	0.55	0.50	0.49
		1.38	1.16	0.53	0.62	0.52	0.51	0.52	0.47	0.46
		1.16	0.98	0.47	0.56	0.46	0.45	0.46	0.41	0.40
	Fine	0.98	0.82	0.46	0.57	0.46	0.46	0.46	0.41	0.40
		0.82	0.69	0.44	0.56	0.47	0.46	0.47	0.41	0.40
		0.69	0.58	0.45	0.59	0.50	0.50	0.50	0.44	0.42
		0.58	0.49	0.47	0.63	0.55	0.55	0.55	0.49	0.46
	Very Fine	<0.49		2.24	3.01	2.32	2.33	2.36	1.93	1.94

Table 9a-2. Particle size data for the 05U-5 auger hole, Wentworth scale—Continued

		05U-5							
		Micrometers	55–65 cm	65–71 cm	71–77 cm	77–86 cm	86–109 cm	109–129 cm	129–141 cm
SAND	Very Coarse	2000 1680	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
		1414 1189	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
	Coarse	1000 841	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
		707 595	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
	Medium	500 420	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
		354 297	0.17	0.00	0.66	0.03	0.02	0.02	0.02
		297 250	1.47	0.15	1.61	1.27	0.91	1.13	0.86
	Fine	250 210	2.80	2.77	2.99	2.66	2.12	2.40	2.12
		210 177	4.58	4.75	4.64	4.57	3.86	4.17	3.95
		177 149	6.89	7.05	6.83	7.10	6.23	6.50	6.48
		149 125	9.58	9.51	9.37	10.06	9.10	9.25	9.59
	Very Fine	125 105	11.58	11.20	11.34	12.24	11.26	11.22	11.93
		105 88	11.61	11.81	11.38	12.06	12.20	11.94	12.80
		88 74	10.11	10.06	10.08	10.33	10.38	10.04	10.65
		74 63	7.74	7.74	7.76	7.66	7.88	7.55	7.84
SILT	Coarse	63 53	6.32	6.48	6.34	6.07	6.46	6.17	6.24
		53 44	4.78	5.04	4.76	4.46	4.97	4.75	4.69
		44 37	3.03	3.22	2.97	2.77	3.23	3.10	3.00
		37 31.2	2.06	2.17	1.96	1.85	2.25	2.19	2.08
	Medium	31.2 26.3	1.45	1.52	1.34	1.30	1.64	1.63	1.52
		26.3 22.1	1.11	1.15	0.98	1.00	1.30	1.32	1.22
		22.1 18.6	0.91	0.95	0.78	0.84	1.09	1.13	1.04
		18.6 15.6	0.85	0.88	0.73	0.80	1.01	1.06	0.98
	Fine	15.6 13.1	0.81	0.84	0.71	0.77	0.95	1.00	0.92
		13.1 11	0.78	0.81	0.70	0.75	0.90	0.94	0.86
		11 9.3	0.72	0.75	0.66	0.69	0.81	0.85	0.77
		9.3 7.8	0.71	0.74	0.67	0.68	0.80	0.83	0.75
	Very Fine	7.8 6.6	0.64	0.66	0.61	0.61	0.72	0.74	0.66
		6.6 5.5	0.66	0.68	0.64	0.64	0.74	0.77	0.68
		5.5 4.6	0.62	0.63	0.61	0.61	0.69	0.72	0.64
		4.6 3.9	0.56	0.57	0.55	0.55	0.62	0.64	0.57
CLAY	Coarse	3.9 3.3	0.55	0.56	0.55	0.55	0.61	0.63	0.56
		3.3 2.8	0.53	0.54	0.54	0.54	0.59	0.60	0.54
		2.8 2.3	0.61	0.63	0.63	0.62	0.68	0.69	0.61
		2.3 1.95	0.49	0.50	0.52	0.50	0.54	0.54	0.49
	Medium	1.95 1.64	0.49	0.50	0.52	0.50	0.53	0.53	0.48
		1.64 1.38	0.49	0.49	0.52	0.50	0.53	0.52	0.48
		1.38 1.16	0.46	0.46	0.49	0.47	0.50	0.49	0.45
		1.16 0.98	0.40	0.41	0.43	0.41	0.43	0.42	0.37
	Fine	0.98 0.82	0.40	0.41	0.43	0.41	0.42	0.41	0.36
		0.82 0.69	0.40	0.38	0.44	0.41	0.42	0.40	0.36
		0.69 0.58	0.42	0.40	0.48	0.44	0.44	0.43	0.39
		0.58 0.49	0.46	0.42	0.53	0.49	0.47	0.47	0.43
	Very Fine	<0.49	1.79	2.18	2.25	1.82	1.74	1.82	1.64

Table 9a-3. Particle size data for the 05U-6 soil pit, Wentworth scale.

				05U-6		
		Micrometers		0-10 cm	10-30 cm	30-50 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	0.00
		354	297	0.00	0.02	0.02
		297	250	0.08	1.11	0.93
	Fine	250	210	1.41	2.33	2.04
		210	177	2.73	4.04	3.65
		177	149	4.87	6.30	5.85
		149	125	7.61	9.02	8.56
	Very Fine	125	105	10.09	11.12	10.72
		105	88	11.78	12.22	11.90
		88	74	11.52	10.66	10.43
		74	63	9.05	8.26	8.15
SILT	Coarse	63	53	7.82	6.83	6.86
		53	44	6.23	5.17	5.36
		44	37	4.10	3.22	3.48
		37	31.2	2.81	2.10	2.40
	Medium	31.2	26.3	1.96	1.40	1.71
		26.3	22.1	1.43	1.00	1.31
		22.1	18.6	1.10	0.77	1.06
		18.6	15.6	0.96	0.71	0.96
	Fine	15.6	13.1	0.89	0.70	0.91
		13.1	11	0.86	0.71	0.87
		11	9.3	0.81	0.69	0.80
		9.3	7.8	0.82	0.71	0.80
	Very Fine	7.8	6.6	0.75	0.66	0.72
		6.6	5.5	0.77	0.70	0.75
		5.5	4.6	0.72	0.67	0.70
		4.6	3.9	0.64	0.61	0.62
CLAY	Coarse	3.9	3.3	0.63	0.61	0.62
		3.3	2.8	0.60	0.60	0.59
		2.8	2.3	0.69	0.70	0.69
		2.3	1.95	0.56	0.56	0.55
	Medium	1.95	1.64	0.56	0.57	0.55
		1.64	1.38	0.55	0.56	0.54
		1.38	1.16	0.52	0.53	0.51
		1.16	0.98	0.45	0.46	0.44
	Fine	0.98	0.82	0.45	0.46	0.44
		0.82	0.69	0.44	0.46	0.44
		0.69	0.58	0.45	0.47	0.47
		0.58	0.49	0.48	0.50	0.51
	Very Fine	<0.49		1.87	1.83	2.09

Table 9a-4. Particle size data for the 05U-7 auger hole, Wentworth scale.

				05U-7				
		Micrometers		0-18 cm	18-31 cm	31-46 cm	46-59 cm	59-73 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.00	0.00	0.01	0.00	0.00
		297	250	0.00	0.00	0.72	0.06	0.08
	Fine	250	210	0.11	0.29	1.82	1.55	1.83
		210	177	1.64	2.82	3.43	3.42	3.95
		177	149	3.76	5.13	5.67	5.61	6.39
		149	125	6.26	7.73	8.46	8.39	9.29
	Very Fine	125	105	8.79	10.20	10.74	10.71	11.44
		105	88	10.81	11.85	12.06	12.13	12.38
		88	74	11.09	11.42	10.70	10.83	10.58
		74	63	9.06	8.85	8.45	8.63	8.08
SILT	Coarse	63	53	8.14	7.55	7.15	7.37	6.66
		53	44	6.77	5.97	5.59	5.79	5.10
		44	37	4.63	3.91	3.62	3.74	3.24
		37	31.2	3.28	2.69	2.48	2.53	2.18
	Medium	31.2	26.3	2.36	1.89	1.75	1.74	1.53
		26.3	22.1	1.77	1.39	1.32	1.26	1.16
		22.1	18.6	1.38	1.09	1.05	0.97	0.96
		18.6	15.6	1.21	0.96	0.96	0.86	0.91
	Fine	15.6	13.1	1.12	0.90	0.91	0.81	0.87
		13.1	11	1.09	0.88	0.89	0.79	0.85
		11	9.3	1.03	0.84	0.83	0.74	0.78
		9.3	7.8	1.05	0.85	0.84	0.75	0.77
	Very Fine	7.8	6.6	0.97	0.78	0.76	0.68	0.68
		6.6	5.5	1.02	0.82	0.78	0.72	0.70
		5.5	4.6	0.96	0.77	0.73	0.68	0.66
		4.6	3.9	0.85	0.69	0.64	0.61	0.59
CLAY	Coarse	3.9	3.3	0.84	0.68	0.62	0.60	0.58
		3.3	2.8	0.80	0.65	0.58	0.58	0.57
		2.8	2.3	0.92	0.76	0.66	0.68	0.66
		2.3	1.95	0.74	0.61	0.52	0.55	0.53
	Medium	1.95	1.64	0.73	0.61	0.51	0.56	0.53
		1.64	1.38	0.72	0.61	0.50	0.55	0.51
		1.38	1.16	0.68	0.57	0.47	0.51	0.48
		1.16	0.98	0.60	0.50	0.40	0.45	0.42
	Fine	0.98	0.82	0.59	0.51	0.40	0.46	0.42
		0.82	0.69	0.57	0.52	0.40	0.45	0.41
		0.69	0.58	0.58	0.57	0.42	0.48	0.44
		0.58	0.49	0.60	0.63	0.45	0.52	0.48
	Very Fine	<0.49		2.47	2.52	1.68	2.24	2.30

Table 9a-4. Particle size data for the 05U-7 auger hole, Wentworth scale—Continued

		05U-7					
		Micrometers		73-91 cm	91-107 cm	107-120 cm	120-136 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00
		354	297	0.02	0.00	0.00	0.00
		297	250	0.99	0.09	0.05	0.08
	Fine	250	210	2.21	1.56	1.29	1.48
		210	177	3.94	2.94	2.93	2.70
		177	149	6.27	5.14	4.82	4.61
		149	125	9.07	7.87	7.09	6.85
	Very Fine	125	105	11.13	10.07	8.80	8.61
		105	88	11.96	11.18	9.61	9.50
		88	74	10.13	9.69	8.84	8.83
		74	63	7.64	7.50	6.75	6.80
SILT	Coarse	63	53	6.25	6.29	5.79	5.88
		53	44	4.81	4.99	4.76	4.86
		44	37	3.14	3.36	3.36	3.45
		37	31.2	2.21	2.46	2.59	2.65
	Medium	31.2	26.3	1.63	1.92	2.12	2.17
		26.3	22.1	1.31	1.63	1.88	1.92
		22.1	18.6	1.12	1.45	1.72	1.76
		18.6	15.6	1.05	1.39	1.68	1.72
	Fine	15.6	13.1	0.99	1.33	1.61	1.66
		13.1	11	0.94	1.28	1.55	1.61
		11	9.3	0.85	1.17	1.44	1.50
		9.3	7.8	0.84	1.17	1.44	1.52
	Very Fine	7.8	6.6	0.75	1.06	1.32	1.40
		6.6	5.5	0.77	1.11	1.39	1.49
		5.5	4.6	0.72	1.04	1.32	1.43
		4.6	3.9	0.65	0.93	1.19	1.28
CLAY	Coarse	3.9	3.3	0.64	0.91	1.16	1.26
		3.3	2.8	0.61	0.87	1.11	1.19
		2.8	2.3	0.71	0.99	1.26	1.35
		2.3	1.95	0.56	0.78	0.98	1.05
	Medium	1.95	1.64	0.56	0.77	0.96	1.01
		1.64	1.38	0.55	0.74	0.90	0.93
		1.38	1.16	0.51	0.68	0.82	0.84
		1.16	0.98	0.44	0.58	0.70	0.71
	Fine	0.98	0.82	0.44	0.58	0.69	0.68
		0.82	0.69	0.44	0.57	0.66	0.64
		0.69	0.58	0.48	0.61	0.71	0.65
		0.58	0.49	0.53	0.67	0.79	0.69
	Very Fine	<0.49		2.18	2.64	3.92	3.25

Table 9a-5. Particle size data for the 05U-8A and -8B soil pits, Wentworth scale.

		Micrometers		05U-8A			05U-8B		
				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
		1680	1414	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
		1189	1000	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
		841	707	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
		595	500	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
		420	354	0.00	0.00	0.00	0.00	0.00	0.00
		354	297	0.02	0.01	0.63	0.03	0.02	0.00
		297	250	0.85	0.87	1.68	1.27	1.16	0.07
	Fine	250	210	1.79	2.37	3.21	2.58	2.45	1.81
		210	177	3.19	3.93	5.04	4.37	4.25	4.13
		177	149	5.17	6.05	7.39	6.66	6.61	6.53
		149	125	7.74	8.59	10.00	9.28	9.39	9.13
	Very Fine	125	105	10.03	10.59	11.82	11.10	11.39	11.02
		105	88	11.69	11.75	11.56	11.83	12.24	11.86
		88	74	10.84	10.41	9.96	10.09	10.39	10.26
		74	63	8.96	8.24	7.49	7.69	7.84	8.01
SILT	Coarse	63	53	7.89	6.99	6.01	6.31	6.33	6.80
		53	44	6.33	5.44	4.45	4.79	4.72	5.34
		44	37	4.11	3.47	2.76	3.01	2.91	3.45
		37	31.2	2.75	2.31	1.82	1.99	1.91	2.33
	Medium	31.2	26.3	1.84	1.57	1.25	1.37	1.29	1.63
		26.3	22.1	1.27	1.12	0.94	1.02	0.96	1.22
		22.1	18.6	0.92	0.86	0.78	0.83	0.78	0.98
		18.6	15.6	0.77	0.78	0.73	0.79	0.76	0.90
	Fine	15.6	13.1	0.72	0.75	0.71	0.78	0.76	0.86
		13.1	11	0.72	0.76	0.70	0.79	0.77	0.83
		11	9.3	0.71	0.73	0.65	0.76	0.74	0.77
		9.3	7.8	0.74	0.76	0.65	0.78	0.76	0.77
	Very Fine	7.8	6.6	0.69	0.71	0.58	0.72	0.70	0.69
		6.6	5.5	0.73	0.75	0.61	0.77	0.74	0.71
		5.5	4.6	0.69	0.71	0.57	0.73	0.70	0.67
		4.6	3.9	0.61	0.64	0.51	0.66	0.63	0.60
CLAY	Coarse	3.9	3.3	0.60	0.63	0.51	0.65	0.63	0.59
		3.3	2.8	0.57	0.60	0.49	0.63	0.61	0.57
		2.8	2.3	0.66	0.70	0.57	0.73	0.71	0.66
		2.3	1.95	0.53	0.56	0.46	0.59	0.57	0.53
	Medium	1.95	1.64	0.54	0.56	0.46	0.59	0.57	0.54
		1.64	1.38	0.53	0.55	0.46	0.58	0.56	0.52
		1.38	1.16	0.50	0.52	0.44	0.54	0.52	0.49
		1.16	0.98	0.43	0.46	0.38	0.48	0.46	0.44
	Fine	0.98	0.82	0.43	0.46	0.38	0.48	0.46	0.44
		0.82	0.69	0.42	0.45	0.39	0.47	0.46	0.42
		0.69	0.58	0.43	0.47	0.42	0.49	0.49	0.45
		0.58	0.49	0.47	0.52	0.47	0.53	0.53	0.48
	Very Fine	<0.49		2.15	2.41	2.07	2.27	2.25	2.54

Table 9a-6. Particle size data for the 05U-9 auger hole, Wentworth scale.

		Micrometers		05U-9				
				0-10 cm	10-26 cm	26-36 cm	36-55 cm	55-67 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.00	0.03	0.02	0.02	0.69
		297	250	0.09	1.66	1.12	1.27	1.67
	Fine	250	210	1.85	3.79	2.83	2.88	3.09
		210	177	3.77	5.99	4.57	4.54	4.74
		177	149	6.00	8.74	6.79	6.60	6.84
		149	125	8.62	11.63	9.19	8.82	9.14
	Very Fine	125	105	10.64	13.50	10.80	10.27	10.68
		105	88	11.81	12.91	11.41	10.82	10.45
		88	74	10.54	10.91	9.77	9.31	9.13
		74	63	8.50	8.01	7.55	7.26	7.06
SILT	Coarse	63	53	7.41	6.20	6.32	6.17	5.90
		53	44	5.94	4.30	4.90	4.88	4.60
		44	37	3.86	2.38	3.12	3.19	3.01
		37	31.2	2.59	1.34	2.08	2.20	2.11
	Medium	31.2	26.3	1.76	0.73	1.44	1.57	1.55
		26.3	22.1	1.25	0.42	1.08	1.22	1.23
		22.1	18.6	0.94	0.31	0.88	1.01	1.04
		18.6	15.6	0.83	0.32	0.84	0.96	0.97
	Fine	15.6	13.1	0.78	0.37	0.83	0.93	0.91
		13.1	11	0.76	0.39	0.83	0.93	0.88
		11	9.3	0.72	0.38	0.80	0.89	0.81
		9.3	7.8	0.74	0.37	0.82	0.92	0.81
	Very Fine	7.8	6.6	0.67	0.32	0.76	0.85	0.74
		6.6	5.5	0.70	0.31	0.81	0.91	0.79
		5.5	4.6	0.65	0.29	0.77	0.87	0.75
		4.6	3.9	0.58	0.26	0.69	0.79	0.68
CLAY	Coarse	3.9	3.3	0.57	0.26	0.68	0.78	0.67
		3.3	2.8	0.54	0.26	0.65	0.75	0.65
		2.8	2.3	0.63	0.31	0.75	0.86	0.75
		2.3	1.95	0.51	0.26	0.60	0.68	0.61
	Medium	1.95	1.64	0.52	0.27	0.59	0.67	0.60
		1.64	1.38	0.50	0.27	0.57	0.64	0.59
		1.38	1.16	0.48	0.26	0.53	0.60	0.56
		1.16	0.98	0.43	0.24	0.47	0.53	0.49
	Fine	0.98	0.82	0.42	0.24	0.47	0.52	0.49
		0.82	0.69	0.40	0.23	0.45	0.49	0.49
		0.69	0.58	0.41	0.23	0.47	0.50	0.53
		0.58	0.49	0.43	0.24	0.49	0.51	0.59
	Very Fine	<0.49		2.21	1.10	2.31	2.43	2.70

Table 9a-6. Particle size data for the 05U-9 auger hole, Wentworth scale—Continued

		05U-9						
		Micrometers		67–79 cm	79–91 cm	91–102 cm	102–112 cm	112–123 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.74	0.80	0.02	0.00	0.02
		297	250	1.82	1.90	1.15	0.07	0.75
	Fine	250	210	3.36	3.42	2.81	1.48	1.58
		210	177	5.10	5.11	4.50	2.97	2.76
		177	149	7.26	7.17	6.58	4.74	4.35
		149	125	9.54	9.29	8.74	6.86	6.27
	Very Fine	125	105	10.95	10.53	10.08	8.57	7.88
		105	88	10.54	10.07	10.53	9.67	9.01
		88	74	9.05	8.65	9.08	9.41	8.93
		74	63	6.89	6.64	7.17	7.65	7.42
SILT	Coarse	63	53	5.69	5.55	6.24	7.00	6.95
		53	44	4.39	4.37	5.11	6.08	6.19
		44	37	2.87	2.92	3.49	4.42	4.62
		37	31.2	2.02	2.10	2.53	3.38	3.62
	Medium	31.2	26.3	1.50	1.60	1.90	2.64	2.89
		26.3	22.1	1.21	1.32	1.52	2.13	2.38
		22.1	18.6	1.04	1.13	1.25	1.74	1.97
		18.6	15.6	0.98	1.06	1.13	1.52	1.74
	Fine	15.6	13.1	0.92	0.99	1.02	1.34	1.55
		13.1	11	0.88	0.93	0.95	1.23	1.42
		11	9.3	0.80	0.85	0.85	1.11	1.28
		9.3	7.8	0.80	0.85	0.84	1.10	1.27
	Very Fine	7.8	6.6	0.72	0.77	0.75	0.99	1.14
		6.6	5.5	0.76	0.80	0.79	1.03	1.18
		5.5	4.6	0.72	0.76	0.74	0.97	1.09
		4.6	3.9	0.65	0.68	0.66	0.85	0.95
CLAY	Coarse	3.9	3.3	0.64	0.68	0.65	0.83	0.91
		3.3	2.8	0.61	0.65	0.62	0.78	0.84
		2.8	2.3	0.70	0.75	0.72	0.89	0.94
		2.3	1.95	0.56	0.60	0.58	0.70	0.73
	Medium	1.95	1.64	0.55	0.60	0.58	0.70	0.71
		1.64	1.38	0.55	0.58	0.56	0.67	0.67
		1.38	1.16	0.51	0.55	0.54	0.63	0.62
		1.16	0.98	0.45	0.48	0.49	0.57	0.55
	Fine	0.98	0.82	0.45	0.49	0.50	0.57	0.55
		0.82	0.69	0.46	0.50	0.48	0.55	0.52
		0.69	0.58	0.49	0.54	0.51	0.58	0.53
		0.58	0.49	0.54	0.60	0.53	0.62	0.55
	Very Fine	<0.49		2.30	2.75	2.81	2.99	2.71

Table 9a-7. Particle size data for the 05U-10 soil pit, Wentworth scale.

		Micrometers		05U-10		
				0-10 cm	10-30 cm	30-50 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	0.00
		354	297	0.00	0.00	0.00
		297	250	0.05	0.04	0.05
	Fine	250	210	1.22	1.13	1.28
		210	177	2.75	2.65	2.86
		177	149	4.52	4.42	4.70
		149	125	6.75	6.72	7.00
	Very Fine	125	105	8.68	8.74	8.91
		105	88	10.09	10.16	10.12
		88	74	10.08	10.00	9.76
		74	63	8.24	7.99	7.69
SILT	Coarse	63	53	7.51	7.07	6.73
		53	44	6.36	5.82	5.49
		44	37	4.40	3.96	3.71
		37	31.2	3.14	2.81	2.63
	Medium	31.2	26.3	2.25	2.04	1.92
		26.3	22.1	1.67	1.56	1.50
		22.1	18.6	1.29	1.27	1.25
		18.6	15.6	1.13	1.17	1.18
	Fine	15.6	13.1	1.06	1.14	1.16
		13.1	11	1.06	1.16	1.19
		11	9.3	1.03	1.14	1.17
		9.3	7.8	1.09	1.22	1.25
	Very Fine	7.8	6.6	1.04	1.17	1.20
		6.6	5.5	1.13	1.28	1.31
		5.5	4.6	1.09	1.24	1.27
		4.6	3.9	0.98	1.13	1.15
CLAY	Coarse	3.9	3.3	0.97	1.11	1.14
		3.3	2.8	0.93	1.06	1.08
		2.8	2.3	1.06	1.21	1.23
		2.3	1.95	0.85	0.95	0.97
	Medium	1.95	1.64	0.83	0.92	0.94
		1.64	1.38	0.78	0.87	0.89
		1.38	1.16	0.72	0.79	0.82
		1.16	0.98	0.63	0.68	0.71
	Fine	0.98	0.82	0.61	0.66	0.69
		0.82	0.69	0.55	0.62	0.65
		0.69	0.58	0.53	0.62	0.66
		0.58	0.49	0.52	0.64	0.69
	Very Fine	<0.49		2.44	2.82	3.07

Table 9a-8. Particle size data for the 05U-11 auger hole, Wentworth scale.

				05U-11				
		Micrometers		0–10 cm	10–20 cm	20–35 cm	35–45 cm	45–57 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.00	0.02	0.00	0.02	0.03
		297	250	0.06	0.93	0.10	1.06	1.18
	Fine	250	210	1.22	1.91	1.80	2.18	2.37
		210	177	2.46	3.27	3.22	3.70	4.00
		177	149	3.95	5.03	4.95	5.62	6.08
		149	125	5.78	7.10	6.93	7.82	8.49
	Very Fine	125	105	7.33	8.69	8.45	9.38	10.21
		105	88	8.42	9.58	9.37	10.11	11.00
		88	74	8.32	8.53	8.97	8.86	9.56
		74	63	6.78	6.84	7.16	7.03	7.49
SILT	Coarse	63	53	6.18	5.94	6.39	6.07	6.37
		53	44	5.29	4.78	5.37	4.92	5.07
		44	37	3.77	3.17	3.75	3.32	3.36
		37	31.2	2.82	2.22	2.75	2.39	2.37
	Medium	31.2	26.3	2.19	1.62	2.08	1.79	1.73
		26.3	22.1	1.81	1.29	1.67	1.44	1.35
		22.1	18.6	1.59	1.12	1.41	1.23	1.11
		18.6	15.6	1.55	1.12	1.33	1.16	1.02
	Fine	15.6	13.1	1.56	1.16	1.29	1.13	0.95
		13.1	11	1.63	1.24	1.30	1.12	0.92
		11	9.3	1.63	1.27	1.26	1.08	0.85
		9.3	7.8	1.76	1.40	1.33	1.13	0.86
	Very Fine	7.8	6.6	1.70	1.37	1.26	1.07	0.79
		6.6	5.5	1.85	1.53	1.36	1.16	0.84
		5.5	4.6	1.78	1.51	1.30	1.12	0.81
		4.6	3.9	1.60	1.38	1.17	1.02	0.73
CLAY	Coarse	3.9	3.3	1.56	1.38	1.15	1.01	0.73
		3.3	2.8	1.46	1.32	1.09	0.97	0.70
		2.8	2.3	1.64	1.50	1.23	1.11	0.81
		2.3	1.95	1.27	1.17	0.97	0.88	0.65
	Medium	1.95	1.64	1.22	1.13	0.95	0.87	0.65
		1.64	1.38	1.13	1.05	0.89	0.83	0.64
		1.38	1.16	1.02	0.95	0.82	0.77	0.60
		1.16	0.98	0.88	0.83	0.72	0.68	0.53
	Fine	0.98	0.82	0.85	0.80	0.71	0.67	0.54
		0.82	0.69	0.77	0.75	0.65	0.65	0.54
		0.69	0.58	0.76	0.75	0.66	0.67	0.58
		0.58	0.49	0.76	0.77	0.68	0.72	0.63
	Very Fine	<0.49		3.69	3.62	3.58	3.24	2.86

Table 9a-8. Particle size data for the 05U-11 auger hole, Wentworth scale—Continued

		05U-11					
		Micrometers		69–81 cm	81–94 cm	94–105 cm	105–114 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.39	0.00	0.00
		420	354	0.68	2.83	1.44	0.00
		354	297	2.20	5.75	4.18	1.43
		297	250	3.64	8.40	6.72	3.29
	Fine	250	210	5.36	10.76	9.50	5.88
		210	177	6.98	11.81	11.51	8.60
		177	149	8.63	11.39	12.99	11.47
		149	125	10.12	9.93	12.61	13.72
	Very Fine	125	105	9.93	8.02	10.63	12.64
		105	88	9.22	6.14	8.40	10.18
		88	74	7.80	4.27	5.82	7.19
		74	63	5.89	2.71	3.55	4.57
SILT	Coarse	63	53	4.84	1.92	2.34	3.27
		53	44	3.72	1.32	1.37	2.25
		44	37	2.40	0.83	0.64	1.37
		37	31.2	1.66	0.64	0.34	0.97
	Medium	31.2	26.3	1.22	0.57	0.24	0.80
		26.3	22.1	0.99	0.55	0.26	0.79
		22.1	18.6	0.85	0.52	0.31	0.80
		18.6	15.6	0.79	0.49	0.35	0.82
	Fine	15.6	13.1	0.74	0.44	0.35	0.76
		13.1	11	0.70	0.39	0.32	0.69
		11	9.3	0.63	0.35	0.28	0.59
		9.3	7.8	0.63	0.36	0.26	0.56
	Very Fine	7.8	6.6	0.57	0.34	0.23	0.49
		6.6	5.5	0.60	0.38	0.25	0.50
		5.5	4.6	0.57	0.38	0.25	0.47
		4.6	3.9	0.52	0.36	0.24	0.43
CLAY	Coarse	3.9	3.3	0.52	0.37	0.26	0.43
		3.3	2.8	0.51	0.37	0.26	0.42
		2.8	2.3	0.60	0.44	0.32	0.49
		2.3	1.95	0.49	0.36	0.28	0.39
	Medium	1.95	1.64	0.49	0.37	0.29	0.39
		1.64	1.38	0.48	0.37	0.29	0.39
		1.38	1.16	0.45	0.36	0.29	0.36
		1.16	0.98	0.41	0.35	0.26	0.30
	Fine	0.98	0.82	0.42	0.37	0.26	0.29
		0.82	0.69	0.40	0.37	0.25	0.30
		0.69	0.58	0.42	0.42	0.25	0.31
		0.58	0.49	0.44	0.46	0.26	0.34
	Very Fine	<0.49		2.53	3.16	1.35	1.04

Table 9a-9. Particle size data for the 05U-13 auger hole, Wentworth scale.

		05U-13						
		Micrometers		0-10 cm	10-25 cm	25-38 cm	38-47 cm	47-57 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.29
		354	297	0.30	0.74	0.06	0.75	1.47
		297	250	1.17	1.90	1.43	1.86	2.65
	Fine	250	210	2.20	3.15	2.72	3.07	3.91
		210	177	3.25	4.50	4.07	4.35	5.16
		177	149	4.42	6.09	5.66	5.89	6.61
		149	125	5.60	7.76	7.33	7.51	8.07
	Very Fine	125	105	6.31	8.77	8.41	8.54	8.95
		105	88	6.58	9.13	8.90	8.99	8.77
		88	74	6.01	7.92	7.83	7.94	7.93
		74	63	4.68	6.26	6.31	6.43	6.49
SILT	Coarse	63	53	4.09	5.41	5.58	5.74	5.83
		53	44	3.38	4.38	4.61	4.83	4.94
		44	37	2.36	2.95	3.15	3.38	3.49
		37	31.2	1.78	2.12	2.27	2.50	2.61
	Medium	31.2	26.3	1.44	1.60	1.70	1.91	2.01
		26.3	22.1	1.28	1.33	1.39	1.54	1.62
		22.1	18.6	1.27	1.19	1.23	1.29	1.33
		18.6	15.6	1.59	1.20	1.22	1.20	1.18
	Fine	15.6	13.1	1.67	1.23	1.26	1.15	1.06
		13.1	11	1.83	1.29	1.33	1.15	0.98
		11	9.3	1.91	1.29	1.35	1.12	0.89
		9.3	7.8	2.17	1.40	1.47	1.20	0.88
	Very Fine	7.8	6.6	2.21	1.35	1.44	1.16	0.80
		6.6	5.5	2.55	1.49	1.59	1.28	0.83
		5.5	4.6	2.59	1.46	1.55	1.26	0.78
		4.6	3.9	2.43	1.33	1.41	1.14	0.69
CLAY	Coarse	3.9	3.3	2.45	1.31	1.38	1.12	0.68
		3.3	2.8	2.36	1.24	1.30	1.06	0.64
		2.8	2.3	2.68	1.39	1.45	1.18	0.74
		2.3	1.95	2.09	1.07	1.12	0.91	0.59
	Medium	1.95	1.64	2.00	1.01	1.06	0.87	0.59
		1.64	1.38	1.79	0.91	0.96	0.80	0.57
		1.38	1.16	1.58	0.81	0.86	0.72	0.54
		1.16	0.98	1.33	0.68	0.73	0.63	0.49
	Fine	0.98	0.82	1.21	0.63	0.69	0.61	0.49
		0.82	0.69	1.01	0.55	0.61	0.56	0.47
		0.69	0.58	0.91	0.52	0.59	0.57	0.50
		0.58	0.49	0.85	0.50	0.59	0.59	0.53
	Very Fine	<0.49		4.68	2.14	3.40	3.23	2.96

Table 9a-9. Particle size data for the 05U-13 auger hole, Wentworth scale—Continued

		05U-13						
		Micrometers		57–68 cm	68–80 cm	80–95 cm	95–105 cm	105–114 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.14	0.00	0.00	0.80
		420	354	1.24	1.85	0.81	0.18	2.68
		354	297	3.03	4.00	3.46	2.12	5.28
		297	250	4.63	6.38	6.05	4.12	8.45
	Fine	250	210	6.33	8.96	8.77	6.24	12.00
		210	177	7.63	10.84	10.86	8.09	14.65
		177	149	8.77	12.36	12.50	9.71	15.07
		149	125	9.57	12.16	12.30	10.76	12.82
	Very Fine	125	105	8.98	10.26	10.46	9.88	9.10
		105	88	8.10	7.98	8.34	8.54	5.67
		88	74	6.76	5.45	5.88	6.78	3.23
		74	63	5.13	3.38	3.71	4.91	1.79
SILT	Coarse	63	53	4.31	2.36	2.58	3.96	1.13
		53	44	3.45	1.58	1.66	3.07	0.65
		44	37	2.35	0.92	0.92	2.09	0.34
		37	31.2	1.74	0.63	0.61	1.60	0.30
	Medium	31.2	26.3	1.37	0.52	0.52	1.36	0.38
		26.3	22.1	1.16	0.51	0.54	1.27	0.46
		22.1	18.6	1.00	0.51	0.58	1.21	0.47
		18.6	15.6	0.92	0.51	0.61	1.20	0.43
	Fine	15.6	13.1	0.83	0.47	0.58	1.14	0.37
		13.1	11	0.76	0.42	0.54	1.08	0.31
		11	9.3	0.68	0.37	0.47	0.98	0.25
		9.3	7.8	0.66	0.36	0.45	0.95	0.24
	Very Fine	7.8	6.6	0.60	0.33	0.40	0.83	0.21
		6.6	5.5	0.63	0.35	0.42	0.83	0.22
		5.5	4.6	0.60	0.35	0.41	0.74	0.21
		4.6	3.9	0.54	0.33	0.37	0.63	0.18
CLAY	Coarse	3.9	3.3	0.53	0.34	0.37	0.58	0.17
		3.3	2.8	0.51	0.33	0.35	0.52	0.16
		2.8	2.3	0.59	0.39	0.41	0.56	0.18
		2.3	1.95	0.47	0.32	0.32	0.42	0.14
	Medium	1.95	1.64	0.47	0.33	0.32	0.39	0.15
		1.64	1.38	0.45	0.34	0.31	0.36	0.17
		1.38	1.16	0.43	0.32	0.29	0.33	0.17
		1.16	0.98	0.40	0.28	0.26	0.28	0.15
	Fine	0.98	0.82	0.40	0.29	0.27	0.27	0.15
		0.82	0.69	0.39	0.32	0.26	0.25	0.15
		0.69	0.58	0.41	0.36	0.27	0.25	0.16
		0.58	0.49	0.43	0.42	0.29	0.25	0.16
	Very Fine	<0.49		2.76	1.69	1.48	1.31	0.42

Table 9a-10. Particle size data for the 05U-15 auger hole, Wentworth scale.

				05U-15					
		Micrometers		0-10 cm	10-24 cm	24-40 cm	40-53 cm	53-65 cm	65-77 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	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
		354	297	0.02	0.02	0.02	0.02	0.02	0.02
		297	250	0.93	1.00	1.06	0.98	1.02	0.90
	Fine	250	210	1.91	2.55	2.26	2.41	2.54	1.95
		210	177	3.26	4.15	3.93	3.88	4.09	3.41
		177	149	5.00	6.23	6.07	5.77	6.02	5.29
		149	125	7.04	8.57	8.54	7.85	8.08	7.41
	Very Fine	125	105	8.58	10.16	10.32	9.26	9.37	8.86
		105	88	9.43	10.76	11.17	9.84	9.79	9.46
		88	74	8.38	9.16	9.69	8.53	8.38	8.19
		74	63	6.73	6.99	7.57	6.71	6.52	6.44
SILT	Coarse	63	53	5.87	5.77	6.39	5.77	5.55	5.56
		53	44	4.75	4.41	4.98	4.64	4.44	4.54
		44	37	3.18	2.80	3.20	3.11	2.96	3.13
		37	31.2	2.25	1.88	2.15	2.22	2.11	2.34
	Medium	31.2	26.3	1.67	1.33	1.50	1.68	1.60	1.87
		26.3	22.1	1.36	1.05	1.15	1.39	1.35	1.64
		22.1	18.6	1.21	0.92	0.96	1.25	1.24	1.55
		18.6	15.6	1.23	0.94	0.94	1.26	1.29	1.61
	Fine	15.6	13.1	1.28	0.99	0.96	1.30	1.36	1.68
		13.1	11	1.37	1.05	1.00	1.38	1.46	1.78
		11	9.3	1.39	1.07	0.98	1.39	1.48	1.78
		9.3	7.8	1.51	1.16	1.04	1.50	1.60	1.90
	Very Fine	7.8	6.6	1.48	1.14	0.99	1.45	1.54	1.80
		6.6	5.5	1.63	1.26	1.07	1.57	1.65	1.90
		5.5	4.6	1.60	1.24	1.03	1.50	1.56	1.74
		4.6	3.9	1.46	1.14	0.92	1.32	1.36	1.48
CLAY	Coarse	3.9	3.3	1.44	1.13	0.91	1.26	1.27	1.36
		3.3	2.8	1.36	1.08	0.86	1.16	1.15	1.20
		2.8	2.3	1.53	1.22	0.96	1.25	1.23	1.26
		2.3	1.95	1.18	0.94	0.75	0.93	0.91	0.92
	Medium	1.95	1.64	1.12	0.89	0.71	0.87	0.84	0.83
		1.64	1.38	1.03	0.83	0.66	0.78	0.75	0.75
		1.38	1.16	0.92	0.74	0.60	0.69	0.65	0.65
		1.16	0.98	0.79	0.63	0.52	0.58	0.55	0.54
	Fine	0.98	0.82	0.76	0.61	0.51	0.55	0.52	0.52
		0.82	0.69	0.69	0.57	0.47	0.50	0.46	0.48
		0.69	0.58	0.68	0.57	0.47	0.50	0.46	0.48
		0.58	0.49	0.70	0.59	0.49	0.51	0.47	0.50
	Very Fine	<0.49		3.31	2.49	2.21	2.45	2.40	2.28

Table 9a-10. Particle size data for the 05U-15 auger hole, Wentworth scale—Continued

				05U-15					
		Micrometers		77-93 cm	93-107 cm	107-121 cm	121-135 cm	135-148 cm	148-154 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	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
		354	297	0.00	0.01	0.61	0.00	0.00	0.02
		297	250	0.11	0.69	1.42	0.06	0.00	0.82
	Fine	250	210	1.33	1.47	2.53	1.19	0.00	2.09
		210	177	2.58	2.57	3.78	2.37	0.08	3.96
		177	149	4.18	4.04	5.31	4.26	1.20	6.57
		149	125	6.08	5.79	6.95	6.61	2.92	9.70
	Very Fine	125	105	7.57	7.18	7.93	8.57	4.79	11.73
		105	88	8.44	8.07	8.22	9.69	6.88	11.94
		88	74	8.05	7.81	7.06	9.14	8.29	9.35
		74	63	6.36	6.32	5.56	7.06	8.37	6.54
SILT	Coarse	63	53	5.64	5.76	4.85	6.11	8.61	5.06
		53	44	4.74	5.01	4.07	5.05	7.83	3.82
		44	37	3.35	3.69	2.94	3.59	5.95	2.54
		37	31.2	2.53	2.92	2.34	2.80	4.62	1.93
	Medium	31.2	26.3	2.02	2.44	2.02	2.36	3.55	1.63
		26.3	22.1	1.76	2.20	1.92	2.18	2.75	1.55
		22.1	18.6	1.60	2.09	1.89	2.10	2.13	1.53
		18.6	15.6	1.76	2.16	1.99	2.17	1.81	1.55
	Fine	15.6	13.1	2.06	2.25	2.05	2.18	1.62	1.49
		13.1	11	2.09	2.36	2.11	2.17	1.57	1.41
		11	9.3	2.06	2.35	2.05	2.04	1.51	1.25
		9.3	7.8	2.17	2.48	2.14	2.03	1.62	1.21
	Very Fine	7.8	6.6	2.03	2.30	1.97	1.80	1.55	1.07
		6.6	5.5	2.13	2.35	2.04	1.79	1.69	1.09
		5.5	4.6	1.96	2.08	1.86	1.57	1.63	1.01
		4.6	3.9	1.68	1.70	1.56	1.28	1.46	0.88
CLAY	Coarse	3.9	3.3	1.56	1.49	1.43	1.15	1.43	0.84
		3.3	2.8	1.40	1.27	1.26	1.00	1.35	0.78
		2.8	2.3	1.51	1.28	1.32	1.04	1.54	0.85
		2.3	1.95	1.13	0.90	0.96	0.75	1.22	0.64
	Medium	1.95	1.64	1.06	0.81	0.88	0.67	1.20	0.59
		1.64	1.38	0.95	0.71	0.78	0.61	1.12	0.55
		1.38	1.16	0.85	0.62	0.68	0.53	1.04	0.48
		1.16	0.98	0.73	0.53	0.58	0.43	0.91	0.38
	Fine	0.98	0.82	0.70	0.51	0.55	0.41	0.89	0.36
		0.82	0.69	0.63	0.47	0.51	0.38	0.81	0.35
		0.69	0.58	0.62	0.47	0.52	0.40	0.82	0.38
		0.58	0.49	0.62	0.49	0.56	0.45	0.84	0.43
	Very Fine	<0.49		3.98	2.40	2.82	2.04	4.44	1.63

Table 9a-11. Particle size data for the 05U-17 auger hole, Wentworth scale.

				05U-17				
		Micrometers		0–10 cm	10–23 cm	23–46 cm	46–62 cm	62–78 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.00	0.00	0.00	0.02	0.00
		297	250	0.24	0.07	0.11	1.05	0.09
	Fine	250	210	1.86	1.69	1.69	2.21	1.51
		210	177	3.35	3.62	3.11	3.84	2.81
		177	149	5.67	5.85	5.36	5.96	4.94
		149	125	8.52	8.55	8.13	8.43	7.62
	Very Fine	125	105	10.92	10.63	10.44	10.28	9.91
		105	88	12.40	11.74	11.77	11.20	11.29
		88	74	11.12	10.31	10.46	9.78	10.20
		74	63	8.87	8.11	8.30	7.68	8.01
SILT	Coarse	63	53	7.53	6.88	7.09	6.54	6.88
		53	44	5.84	5.37	5.62	5.16	5.54
		44	37	3.70	3.43	3.70	3.36	3.74
		37	31.2	2.44	2.30	2.58	2.31	2.70
	Medium	31.2	26.3	1.64	1.59	1.87	1.64	2.03
		26.3	22.1	1.16	1.18	1.45	1.25	1.63
		22.1	18.6	0.87	0.95	1.18	1.03	1.37
		18.6	15.6	0.77	0.90	1.09	0.96	1.27
	Fine	15.6	13.1	0.74	0.89	1.03	0.93	1.19
		13.1	11	0.74	0.90	1.00	0.91	1.14
		11	9.3	0.71	0.86	0.93	0.86	1.05
		9.3	7.8	0.74	0.90	0.93	0.88	1.06
	Very Fine	7.8	6.6	0.68	0.83	0.84	0.80	0.96
		6.6	5.5	0.71	0.89	0.88	0.85	1.00
		5.5	4.6	0.67	0.85	0.82	0.81	0.94
		4.6	3.9	0.59	0.77	0.72	0.73	0.84
CLAY	Coarse	3.9	3.3	0.58	0.77	0.70	0.72	0.82
		3.3	2.8	0.55	0.74	0.67	0.70	0.78
		2.8	2.3	0.64	0.86	0.76	0.81	0.89
		2.3	1.95	0.51	0.69	0.60	0.65	0.71
	Medium	1.95	1.64	0.51	0.68	0.60	0.66	0.70
		1.64	1.38	0.51	0.66	0.59	0.64	0.67
		1.38	1.16	0.48	0.62	0.55	0.60	0.62
		1.16	0.98	0.41	0.55	0.47	0.53	0.53
	Fine	0.98	0.82	0.40	0.54	0.47	0.53	0.53
		0.82	0.69	0.39	0.51	0.46	0.51	0.52
		0.69	0.58	0.40	0.51	0.48	0.54	0.54
		0.58	0.49	0.43	0.52	0.52	0.59	0.58
	Very Fine	<0.49		1.72	2.33	2.05	3.09	2.39

Table 9a-11. Particle size data for the 05U-17 auger hole, Wentworth scale—Continued

				05U-17				
		Micrometers		78-92 cm	92-107 cm	107-121 cm	121-132 cm	132-139 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.02	0.00	0.00	0.00	0.00
		297	250	0.80	0.10	0.05	0.00	0.07
	Fine	250	210	1.90	1.96	1.04	0.28	1.27
		210	177	3.50	3.71	2.25	1.72	2.33
		177	149	5.65	5.64	3.52	2.91	4.03
		149	125	8.23	7.73	4.90	4.34	6.07
	Very Fine	125	105	10.14	9.16	5.95	5.53	7.81
		105	88	11.01	9.66	6.58	6.40	8.93
		88	74	9.48	8.25	6.32	6.44	8.68
		74	63	7.32	6.36	5.25	5.60	6.95
SILT	Coarse	63	53	6.16	5.39	4.69	5.24	6.24
		53	44	4.89	4.31	4.07	4.84	5.29
		44	37	3.28	2.91	3.03	3.87	3.76
		37	31.2	2.36	2.13	2.46	3.38	2.84
	Medium	31.2	26.3	1.80	1.66	2.15	3.14	2.25
		26.3	22.1	1.48	1.43	2.05	3.11	1.91
		22.1	18.6	1.28	1.30	2.04	3.09	1.71
		18.6	15.6	1.22	1.29	2.16	3.19	1.70
	Fine	15.6	13.1	1.16	1.28	2.26	3.16	1.72
		13.1	11	1.11	1.29	2.36	3.08	1.79
		11	9.3	1.03	1.24	2.33	2.82	1.79
		9.3	7.8	1.03	1.31	2.47	2.75	1.92
	Very Fine	7.8	6.6	0.94	1.24	2.33	2.39	1.83
		6.6	5.5	1.00	1.36	2.50	2.36	1.95
		5.5	4.6	0.95	1.34	2.37	2.09	1.82
		4.6	3.9	0.85	1.23	2.09	1.75	1.57
CLAY	Coarse	3.9	3.3	0.84	1.23	2.02	1.62	1.46
		3.3	2.8	0.81	1.18	1.87	1.46	1.30
		2.8	2.3	0.93	1.36	2.08	1.59	1.38
		2.3	1.95	0.74	1.08	1.60	1.21	1.01
	Medium	1.95	1.64	0.73	1.07	1.53	1.14	0.94
		1.64	1.38	0.71	1.02	1.38	1.02	0.85
		1.38	1.16	0.66	0.95	1.24	0.90	0.76
		1.16	0.98	0.57	0.84	1.06	0.76	0.65
	Fine	0.98	0.82	0.57	0.84	1.01	0.70	0.62
		0.82	0.69	0.56	0.81	0.89	0.60	0.58
		0.69	0.58	0.61	0.84	0.88	0.58	0.59
		0.58	0.49	0.67	0.90	0.90	0.59	0.61
	Very Fine	<0.49		3.04	4.63	6.36	4.38	3.05

Table 9a-12. Particle size data for the 05U-19 auger hole, Wentworth scale.

				05U-19					
		Micrometers		0-10 cm	10-25 cm	25-36 cm	36-50 cm	50-59 cm	59-68 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	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
		354	297	0.03	0.03	0.00	0.02	0.02	0.03
		297	250	1.21	1.29	0.08	1.16	1.15	1.44
	Fine	250	210	2.49	2.59	1.83	2.48	2.55	2.89
		210	177	4.25	4.38	3.77	4.33	4.50	4.87
		177	149	6.52	6.69	6.07	6.77	7.10	7.44
		149	125	9.14	9.38	8.86	9.63	10.12	10.40
	Very Fine	125	105	10.99	11.27	11.04	11.67	12.32	12.46
		105	88	11.69	12.00	12.15	12.42	12.20	12.06
		88	74	9.93	10.13	10.55	10.43	10.38	10.16
		74	63	7.57	7.59	8.18	7.80	7.75	7.44
SILT	Coarse	63	53	6.23	6.11	6.81	6.29	6.19	5.85
		53	44	4.77	4.54	5.23	4.73	4.61	4.31
		44	37	3.04	2.81	3.32	2.99	2.92	2.71
		37	31.2	2.07	1.84	2.22	2.02	2.00	1.85
	Medium	31.2	26.3	1.48	1.26	1.53	1.43	1.44	1.33
		26.3	22.1	1.15	0.94	1.13	1.09	1.12	1.05
		22.1	18.6	0.97	0.78	0.92	0.91	0.94	0.90
		18.6	15.6	0.92	0.76	0.86	0.85	0.87	0.85
	Fine	15.6	13.1	0.90	0.77	0.84	0.81	0.80	0.80
		13.1	11	0.89	0.79	0.84	0.77	0.75	0.74
		11	9.3	0.84	0.77	0.80	0.71	0.66	0.66
		9.3	7.8	0.86	0.80	0.82	0.70	0.64	0.64
	Very Fine	7.8	6.6	0.79	0.75	0.76	0.62	0.56	0.56
		6.6	5.5	0.83	0.81	0.80	0.64	0.58	0.58
		5.5	4.6	0.80	0.79	0.76	0.61	0.54	0.55
		4.6	3.9	0.72	0.72	0.69	0.55	0.49	0.50
CLAY	Coarse	3.9	3.3	0.72	0.73	0.68	0.54	0.49	0.50
		3.3	2.8	0.70	0.71	0.66	0.53	0.48	0.49
		2.8	2.3	0.81	0.82	0.77	0.62	0.56	0.57
		2.3	1.95	0.64	0.66	0.61	0.50	0.45	0.46
	Medium	1.95	1.64	0.63	0.65	0.61	0.50	0.45	0.46
		1.64	1.38	0.62	0.64	0.59	0.50	0.46	0.46
		1.38	1.16	0.58	0.60	0.56	0.47	0.43	0.43
		1.16	0.98	0.50	0.52	0.49	0.40	0.37	0.37
	Fine	0.98	0.82	0.49	0.52	0.49	0.40	0.37	0.37
		0.82	0.69	0.47	0.51	0.47	0.40	0.37	0.37
		0.69	0.58	0.48	0.52	0.49	0.43	0.40	0.40
		0.58	0.49	0.49	0.54	0.52	0.47	0.44	0.44
	Very Fine	<0.49		1.82	2.02	2.21	1.83	1.59	1.63

Table 9a-12. Particle size data for the 05U-19 auger hole, Wentworth scale—Continued

				05U-19					
		Micrometers		68–80 cm	80–97 cm	97–109 cm	109–120 cm	120–129 cm	129–141 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	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
		354	297	0.03	0.17	0.02	0.02	0.00	0.00
		297	250	1.42	1.59	1.09	0.82	0.05	0.05
	Fine	250	210	2.83	3.02	2.43	1.92	1.21	1.01
		210	177	4.78	4.90	4.33	3.47	2.65	2.13
		177	149	7.28	7.26	6.85	5.56	4.31	3.44
		149	125	10.14	9.85	9.80	8.04	6.31	5.04
	Very Fine	125	105	12.13	11.54	11.81	9.91	7.90	6.38
		105	88	11.78	11.08	12.35	10.82	8.84	7.31
		88	74	9.99	9.35	10.13	9.43	8.45	7.29
		74	63	7.40	6.93	7.40	7.41	6.70	6.27
SILT	Coarse	63	53	5.88	5.56	5.87	6.35	5.96	5.72
		53	44	4.36	4.19	4.40	5.14	5.02	5.07
		44	37	2.74	2.68	2.81	3.50	3.55	3.81
		37	31.2	1.85	1.86	1.95	2.56	2.68	3.07
	Medium	31.2	26.3	1.33	1.38	1.44	1.96	2.11	2.59
		26.3	22.1	1.04	1.13	1.17	1.61	1.81	2.34
		22.1	18.6	0.89	0.99	1.02	1.38	1.65	2.22
		18.6	15.6	0.85	0.96	0.98	1.28	1.68	2.30
	Fine	15.6	13.1	0.81	0.92	0.93	1.19	1.75	2.39
		13.1	11	0.78	0.88	0.88	1.13	1.87	2.53
		11	9.3	0.71	0.80	0.79	1.03	1.90	2.53
		9.3	7.8	0.69	0.79	0.78	1.03	2.06	2.69
	Very Fine	7.8	6.6	0.62	0.72	0.69	0.93	1.98	2.50
		6.6	5.5	0.65	0.75	0.72	0.98	2.10	2.58
		5.5	4.6	0.62	0.72	0.68	0.92	1.95	2.30
		4.6	3.9	0.56	0.65	0.61	0.83	1.65	1.89
CLAY	Coarse	3.9	3.3	0.56	0.66	0.61	0.82	1.52	1.69
		3.3	2.8	0.55	0.64	0.59	0.78	1.35	1.45
		2.8	2.3	0.65	0.74	0.68	0.90	1.42	1.50
		2.3	1.95	0.52	0.60	0.54	0.72	1.04	1.08
	Medium	1.95	1.64	0.52	0.60	0.53	0.71	0.96	0.99
		1.64	1.38	0.52	0.59	0.53	0.69	0.87	0.88
		1.38	1.16	0.48	0.55	0.50	0.64	0.78	0.78
		1.16	0.98	0.42	0.47	0.42	0.56	0.66	0.67
	Fine	0.98	0.82	0.42	0.48	0.42	0.55	0.63	0.64
		0.82	0.69	0.42	0.49	0.43	0.54	0.58	0.57
		0.69	0.58	0.45	0.53	0.46	0.57	0.58	0.57
		0.58	0.49	0.49	0.59	0.51	0.62	0.60	0.58
	Very Fine	<0.49		1.85	2.42	1.89	2.68	2.89	3.18

Table 9a-13. Particle size data for the 05U-20 and -21 soil pits, Wentworth scale.

		Micrometers		05U-20			05U-21		
				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
		1680	1414	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
		1189	1000	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
		841	707	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
		595	500	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
		420	354	0.00	0.00	0.00	0.00	0.00	0.00
		354	297	0.00	0.00	0.00	0.00	0.00	0.00
		297	250	0.00	0.09	0.09	0.00	0.09	0.09
	Fine	250	210	0.41	1.92	1.97	0.35	1.87	1.90
		210	177	3.32	3.79	4.00	3.19	3.82	3.85
		177	149	5.12	6.04	6.39	5.46	6.13	6.17
		149	125	7.40	8.80	9.18	8.14	8.91	8.96
	Very Fine	125	105	9.47	10.99	11.22	10.62	11.02	11.08
		105	88	10.90	12.25	12.12	12.27	12.12	12.15
		88	74	10.16	10.78	10.42	11.01	10.57	10.55
		74	63	8.13	8.41	8.00	8.74	8.20	8.17
SILT	Coarse	63	53	7.14	7.01	6.63	7.39	6.83	6.81
		53	44	5.81	5.37	5.10	5.74	5.25	5.27
		44	37	3.90	3.37	3.26	3.66	3.33	3.38
		37	31.2	2.73	2.22	2.20	2.45	2.22	2.31
	Medium	31.2	26.3	1.97	1.50	1.54	1.70	1.52	1.63
		26.3	22.1	1.51	1.08	1.17	1.26	1.12	1.25
		22.1	18.6	1.23	0.86	0.96	1.01	0.90	1.02
		18.6	15.6	1.14	0.81	0.90	0.95	0.84	0.96
	Fine	15.6	13.1	1.09	0.81	0.88	0.93	0.82	0.92
		13.1	11	1.08	0.82	0.87	0.93	0.83	0.90
		11	9.3	1.03	0.79	0.82	0.89	0.79	0.84
		9.3	7.8	1.06	0.81	0.83	0.91	0.81	0.84
	Very Fine	7.8	6.6	0.98	0.74	0.75	0.83	0.75	0.76
		6.6	5.5	1.04	0.77	0.78	0.86	0.78	0.78
		5.5	4.6	0.98	0.72	0.73	0.80	0.73	0.73
		4.6	3.9	0.87	0.63	0.65	0.71	0.65	0.64
CLAY	Coarse	3.9	3.3	0.85	0.62	0.63	0.69	0.64	0.63
		3.3	2.8	0.81	0.59	0.60	0.66	0.61	0.60
		2.8	2.3	0.93	0.68	0.69	0.76	0.70	0.68
		2.3	1.95	0.74	0.54	0.55	0.61	0.57	0.54
	Medium	1.95	1.64	0.74	0.54	0.55	0.61	0.57	0.54
		1.64	1.38	0.72	0.53	0.53	0.59	0.55	0.53
		1.38	1.16	0.67	0.50	0.50	0.55	0.52	0.48
		1.16	0.98	0.59	0.44	0.43	0.48	0.46	0.42
	Fine	0.98	0.82	0.59	0.44	0.43	0.48	0.46	0.42
		0.82	0.69	0.55	0.43	0.42	0.46	0.46	0.41
		0.69	0.58	0.57	0.46	0.45	0.49	0.50	0.43
		0.58	0.49	0.60	0.50	0.49	0.53	0.55	0.47
	Very Fine	<0.49		3.18	2.38	2.26	2.34	2.52	1.93

Table 9a-14. Particle size data for the 05U-22 and -23 soil pits, Wentworth scale.

				05U-22			05U-23		
		Micrometers		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
		1680	1414	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
		1189	1000	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
		841	707	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
		595	500	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
		420	354	0.00	0.00	0.00	0.00	0.00	0.00
		354	297	0.00	0.00	0.00	0.06	0.00	0.00
		297	250	0.08	0.06	0.08	1.84	0.07	0.07
	Fine	250	210	1.47	1.44	1.75	3.64	1.29	1.58
		210	177	2.73	3.23	3.70	6.01	2.56	3.30
		177	149	4.81	5.31	5.99	8.96	4.64	5.34
		149	125	7.43	7.95	8.80	12.14	7.31	7.84
	Very Fine	125	105	9.77	10.13	10.97	13.96	9.74	9.86
		105	88	11.38	11.49	12.07	12.85	11.44	11.09
		88	74	11.12	10.34	10.48	10.06	11.26	9.98
		74	63	8.75	8.31	8.10	6.78	8.90	8.07
SILT	Coarse	63	53	7.60	7.19	6.75	4.89	7.76	7.04
		53	44	6.12	5.74	5.23	3.30	6.27	5.69
		44	37	4.07	3.77	3.37	1.89	4.19	3.80
		37	31.2	2.84	2.60	2.31	1.18	2.92	2.67
	Medium	31.2	26.3	2.02	1.84	1.65	0.78	2.08	1.93
		26.3	22.1	1.51	1.39	1.28	0.61	1.56	1.49
		22.1	18.6	1.20	1.11	1.07	0.58	1.23	1.22
		18.6	15.6	1.07	1.01	1.01	0.62	1.09	1.13
	Fine	15.6	13.1	1.01	0.97	0.97	0.64	1.02	1.08
		13.1	11	0.98	0.96	0.95	0.62	0.99	1.06
		11	9.3	0.92	0.92	0.89	0.55	0.92	1.01
		9.3	7.8	0.93	0.95	0.90	0.53	0.93	1.03
	Very Fine	7.8	6.6	0.84	0.87	0.81	0.46	0.84	0.94
		6.6	5.5	0.87	0.91	0.84	0.47	0.86	0.99
		5.5	4.6	0.80	0.86	0.78	0.45	0.80	0.92
		4.6	3.9	0.70	0.76	0.69	0.41	0.69	0.81
CLAY	Coarse	3.9	3.3	0.68	0.74	0.67	0.41	0.67	0.78
		3.3	2.8	0.65	0.70	0.63	0.40	0.63	0.74
		2.8	2.3	0.74	0.80	0.72	0.47	0.72	0.84
		2.3	1.95	0.60	0.64	0.57	0.38	0.58	0.66
	Medium	1.95	1.64	0.60	0.64	0.57	0.39	0.57	0.65
		1.64	1.38	0.58	0.62	0.55	0.39	0.56	0.63
		1.38	1.16	0.53	0.58	0.51	0.36	0.51	0.58
		1.16	0.98	0.46	0.50	0.44	0.31	0.45	0.51
	Fine	0.98	0.82	0.46	0.50	0.43	0.31	0.44	0.51
		0.82	0.69	0.44	0.49	0.42	0.32	0.43	0.49
		0.69	0.58	0.47	0.52	0.45	0.34	0.45	0.52
		0.58	0.49	0.51	0.57	0.50	0.37	0.49	0.56
	Very Fine	<0.49		2.27	2.60	2.12	1.29	2.17	2.59

Table 9a-15. Particle size data for the 05U-24 and -25 soil pits, Wentworth scale.

				05U-24			05U-25		
		Micrometers		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
		1680	1414	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
		1189	1000	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
		841	707	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
		595	500	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
		420	354	0.00	0.00	0.00	0.00	0.00	0.00
		354	297	0.02	0.02	0.00	0.01	0.03	0.03
		297	250	0.89	0.98	0.09	0.74	1.09	1.20
	Fine	250	210	2.11	2.24	1.56	1.82	2.16	2.37
		210	177	3.89	4.03	2.87	3.43	3.66	4.00
		177	149	6.36	6.41	5.03	5.74	5.68	6.13
		149	125	9.39	9.20	7.74	8.69	8.15	8.67
	Very Fine	125	105	11.74	11.25	10.09	11.26	10.16	10.62
		105	88	12.84	12.18	11.57	12.96	11.44	11.68
		88	74	10.90	10.45	10.38	11.65	10.30	10.27
		74	63	8.16	7.98	8.28	9.23	8.29	8.07
SILT	Coarse	63	53	6.53	6.56	7.08	7.70	7.14	6.82
		53	44	4.84	5.00	5.60	5.81	5.63	5.30
		44	37	2.99	3.16	3.65	3.57	3.62	3.37
		37	31.2	1.98	2.12	2.52	2.27	2.41	2.25
	Medium	31.2	26.3	1.37	1.47	1.80	1.46	1.64	1.53
		26.3	22.1	1.04	1.11	1.38	0.96	1.17	1.11
		22.1	18.6	0.87	0.91	1.14	0.69	0.90	0.88
		18.6	15.6	0.85	0.86	1.08	0.60	0.81	0.81
	Fine	15.6	13.1	0.84	0.84	1.06	0.59	0.80	0.80
		13.1	11	0.83	0.83	1.06	0.61	0.83	0.82
		11	9.3	0.77	0.78	1.02	0.60	0.82	0.80
		9.3	7.8	0.76	0.79	1.05	0.63	0.86	0.83
	Very Fine	7.8	6.6	0.68	0.72	0.97	0.57	0.81	0.77
		6.6	5.5	0.70	0.74	1.02	0.60	0.86	0.81
		5.5	4.6	0.65	0.69	0.95	0.55	0.81	0.77
		4.6	3.9	0.58	0.61	0.84	0.49	0.72	0.68
CLAY	Coarse	3.9	3.3	0.57	0.60	0.81	0.48	0.70	0.66
		3.3	2.8	0.55	0.57	0.76	0.47	0.66	0.63
		2.8	2.3	0.63	0.66	0.86	0.55	0.76	0.72
		2.3	1.95	0.51	0.52	0.68	0.45	0.60	0.57
	Medium	1.95	1.64	0.51	0.52	0.67	0.45	0.60	0.56
		1.64	1.38	0.50	0.51	0.65	0.45	0.58	0.54
		1.38	1.16	0.46	0.47	0.60	0.42	0.53	0.50
		1.16	0.98	0.39	0.41	0.51	0.36	0.47	0.44
	Fine	0.98	0.82	0.38	0.41	0.51	0.36	0.47	0.44
		0.82	0.69	0.38	0.41	0.51	0.36	0.47	0.43
		0.69	0.58	0.40	0.44	0.54	0.38	0.50	0.45
		0.58	0.49	0.44	0.48	0.60	0.42	0.54	0.49
	Very Fine	<0.49		1.73	2.06	2.49	1.64	2.36	2.19

Table 9a-16. Particle size data for the 05U-26 auger hole, Wentworth scale.

				05U-26				
		Micrometers		0–10 cm	10–23 cm	23–38 cm	38–49 cm	49–60 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.00	0.00	0.00	0.04	0.03
		297	250	0.07	0.11	0.12	1.84	1.70
	Fine	250	210	1.74	2.44	2.58	3.80	3.70
		210	177	4.31	4.98	5.19	6.41	6.45
		177	149	7.29	7.71	7.99	9.54	9.87
		149	125	10.72	10.64	11.01	12.58	13.26
	Very Fine	125	105	13.30	12.60	12.98	13.77	14.61
		105	88	12.83	11.99	12.31	12.14	12.72
		88	74	10.62	9.90	10.15	9.30	9.50
		74	63	7.49	7.08	7.28	6.29	6.25
SILT	Coarse	63	53	5.50	5.39	5.58	4.64	4.50
		53	44	3.60	3.76	3.94	3.20	3.07
		44	37	1.91	2.15	2.31	1.87	1.78
		37	31.2	1.05	1.30	1.45	1.17	1.11
	Medium	31.2	26.3	0.60	0.83	0.95	0.79	0.74
		26.3	22.1	0.39	0.62	0.72	0.62	0.59
		22.1	18.6	0.38	0.56	0.63	0.57	0.55
		18.6	15.6	0.62	0.62	0.66	0.59	0.56
	Fine	15.6	13.1	0.66	0.68	0.69	0.58	0.55
		13.1	11	0.72	0.73	0.70	0.57	0.51
		11	9.3	0.73	0.72	0.67	0.52	0.45
		9.3	7.8	0.78	0.75	0.69	0.51	0.43
	Very Fine	7.8	6.6	0.76	0.71	0.63	0.46	0.38
		6.6	5.5	0.85	0.78	0.68	0.49	0.39
		5.5	4.6	0.85	0.77	0.66	0.48	0.38
		4.6	3.9	0.80	0.71	0.60	0.44	0.35
CLAY	Coarse	3.9	3.3	0.81	0.72	0.60	0.45	0.36
		3.3	2.8	0.80	0.70	0.59	0.44	0.35
		2.8	2.3	0.94	0.82	0.68	0.51	0.41
		2.3	1.95	0.76	0.67	0.54	0.41	0.33
	Medium	1.95	1.64	0.76	0.67	0.54	0.41	0.34
		1.64	1.38	0.73	0.66	0.54	0.41	0.35
		1.38	1.16	0.68	0.63	0.51	0.39	0.33
		1.16	0.98	0.60	0.57	0.45	0.35	0.29
	Fine	0.98	0.82	0.60	0.59	0.46	0.36	0.29
		0.82	0.69	0.57	0.60	0.46	0.37	0.31
		0.69	0.58	0.59	0.65	0.50	0.41	0.34
		0.58	0.49	0.62	0.72	0.55	0.46	0.39
	Very Fine	<0.49		3.00	3.50	2.43	1.85	1.50

Table 9a-16. Particle size data for the 05U-26 auger hole, Wentworth scale—Continued

				05U-26				
		Micrometers		60–71 cm	71–81 cm	81–91 cm	91–103 cm	103–112 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.02	0.02	0.02	0.00	0.00
		297	250	1.29	1.24	1.07	0.21	0.11
	Fine	250	210	3.10	3.07	2.70	2.24	1.95
		210	177	5.76	5.74	5.09	4.09	3.65
		177	149	9.33	9.39	8.35	6.93	6.34
		149	125	13.24	13.38	12.01	10.23	9.53
	Very Fine	125	105	15.26	15.40	14.21	12.48	11.87
		105	88	13.55	13.58	13.08	13.06	12.72
		88	74	10.12	10.03	10.24	10.68	10.66
		74	63	6.56	6.45	7.01	7.80	7.98
SILT	Coarse	63	53	4.64	4.58	5.25	6.21	6.51
		53	44	3.11	3.12	3.73	4.67	5.01
		44	37	1.78	1.84	2.28	2.98	3.26
		37	31.2	1.09	1.18	1.52	2.04	2.28
	Medium	31.2	26.3	0.71	0.80	1.09	1.47	1.67
		26.3	22.1	0.55	0.65	0.87	1.15	1.32
		22.1	18.6	0.52	0.60	0.76	0.96	1.10
		18.6	15.6	0.54	0.60	0.74	0.89	1.00
	Fine	15.6	13.1	0.54	0.57	0.69	0.82	0.91
		13.1	11	0.51	0.52	0.64	0.76	0.84
		11	9.3	0.44	0.44	0.56	0.67	0.75
		9.3	7.8	0.42	0.42	0.53	0.65	0.72
	Very Fine	7.8	6.6	0.37	0.36	0.46	0.57	0.63
		6.6	5.5	0.38	0.38	0.47	0.58	0.65
		5.5	4.6	0.37	0.36	0.45	0.54	0.61
		4.6	3.9	0.35	0.34	0.40	0.48	0.54
CLAY	Coarse	3.9	3.3	0.35	0.34	0.40	0.47	0.53
		3.3	2.8	0.35	0.34	0.39	0.46	0.51
		2.8	2.3	0.41	0.39	0.45	0.53	0.59
		2.3	1.95	0.33	0.32	0.37	0.43	0.47
	Medium	1.95	1.64	0.34	0.32	0.37	0.43	0.47
		1.64	1.38	0.35	0.33	0.38	0.44	0.47
		1.38	1.16	0.33	0.31	0.36	0.41	0.44
		1.16	0.98	0.28	0.27	0.31	0.36	0.39
	Fine	0.98	0.82	0.29	0.27	0.31	0.36	0.39
		0.82	0.69	0.31	0.29	0.33	0.37	0.40
		0.69	0.58	0.34	0.32	0.36	0.41	0.43
		0.58	0.49	0.39	0.36	0.40	0.45	0.47
	Very Fine	<0.49		1.40	1.08	1.36	1.73	1.84

Table 9a-16. Particle size data for the 05U-26 auger hole, Wentworth scale—Continued

		05U-26					
		Micrometers		112–121 cm	121–133 cm	133–144 cm	144–153 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.01	0.00
		354	297	0.00	0.99	1.12	0.21
		297	250	0.06	2.23	2.35	1.92
	Fine	250	210	1.70	4.00	4.04	3.64
		210	177	4.00	5.98	5.92	5.82
		177	149	6.62	8.41	8.28	8.44
		149	125	9.75	10.86	10.76	11.15
	Very Fine	125	105	11.90	12.07	12.21	12.68
		105	88	12.56	11.05	11.51	11.85
		88	74	10.44	8.90	9.53	9.71
		74	63	7.80	6.35	6.92	6.98
SILT	Coarse	63	53	6.37	4.97	5.42	5.44
		53	44	4.93	3.68	3.95	3.96
		44	37	3.24	2.34	2.43	2.43
		37	31.2	2.30	1.63	1.61	1.61
	Medium	31.2	26.3	1.72	1.24	1.12	1.13
		26.3	22.1	1.38	1.04	0.87	0.89
		22.1	18.6	1.16	0.94	0.74	0.76
		18.6	15.6	1.06	0.91	0.71	0.73
	Fine	15.6	13.1	0.96	0.85	0.68	0.70
		13.1	11	0.87	0.79	0.64	0.65
		11	9.3	0.76	0.69	0.57	0.58
		9.3	7.8	0.73	0.66	0.55	0.56
	Very Fine	7.8	6.6	0.63	0.58	0.48	0.49
		6.6	5.5	0.64	0.60	0.49	0.51
		5.5	4.6	0.59	0.56	0.46	0.48
		4.6	3.9	0.53	0.50	0.41	0.43
CLAY	Coarse	3.9	3.3	0.52	0.49	0.41	0.43
		3.3	2.8	0.49	0.47	0.40	0.42
		2.8	2.3	0.57	0.55	0.47	0.49
		2.3	1.95	0.46	0.44	0.38	0.40
	Medium	1.95	1.64	0.46	0.44	0.39	0.40
		1.64	1.38	0.46	0.45	0.39	0.40
		1.38	1.16	0.44	0.42	0.37	0.37
		1.16	0.98	0.38	0.37	0.32	0.33
	Fine	0.98	0.82	0.38	0.38	0.33	0.33
		0.82	0.69	0.38	0.39	0.34	0.34
		0.69	0.58	0.41	0.43	0.37	0.36
		0.58	0.49	0.46	0.49	0.42	0.40
	Very Fine	<0.49		1.88	1.90	1.65	1.59

Table 9a-17. Particle size data for the 05U-27 auger hole, Wentworth scale.

				05U-27				
		Micrometers		0-10 cm	10-22 cm	22-31 cm	31-40 cm	40-48 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.04	0.00	0.00
		595	500	0.00	0.00	0.29	0.00	0.00
	Medium	500	420	0.00	0.00	0.75	0.00	0.00
		420	354	0.00	0.00	1.13	0.00	0.00
		354	297	0.00	0.02	1.59	0.02	0.00
		297	250	0.11	0.87	2.21	1.19	0.26
	Fine	250	210	1.87	2.11	3.37	2.52	2.05
		210	177	3.52	3.91	4.95	4.35	3.68
		177	149	6.19	6.40	7.08	6.72	6.18
		149	125	9.53	9.46	9.39	9.44	9.15
	Very Fine	125	105	12.33	11.84	10.93	11.34	11.42
		105	88	13.88	13.04	10.63	12.10	12.46
		88	74	12.01	11.22	9.29	10.29	10.68
		74	63	9.07	8.51	7.18	7.82	8.15
SILT	Coarse	63	53	7.21	6.85	5.95	6.40	6.70
		53	44	5.22	5.04	4.50	4.87	5.13
		44	37	3.10	3.06	2.78	3.08	3.28
		37	31.2	1.93	1.96	1.78	2.07	2.24
	Medium	31.2	26.3	1.21	1.29	1.17	1.44	1.58
		26.3	22.1	0.80	0.90	0.85	1.08	1.20
		22.1	18.6	0.60	0.69	0.69	0.87	0.98
		18.6	15.6	0.56	0.64	0.66	0.81	0.91
	Fine	15.6	13.1	0.57	0.63	0.66	0.78	0.86
		13.1	11	0.59	0.64	0.67	0.77	0.83
		11	9.3	0.56	0.61	0.64	0.72	0.77
		9.3	7.8	0.56	0.61	0.65	0.72	0.76
	Very Fine	7.8	6.6	0.50	0.55	0.59	0.66	0.69
		6.6	5.5	0.51	0.57	0.61	0.69	0.71
		5.5	4.6	0.47	0.53	0.58	0.65	0.67
		4.6	3.9	0.42	0.47	0.52	0.58	0.59
CLAY	Coarse	3.9	3.3	0.42	0.47	0.52	0.57	0.59
		3.3	2.8	0.41	0.46	0.50	0.55	0.56
		2.8	2.3	0.49	0.55	0.59	0.64	0.65
		2.3	1.95	0.41	0.45	0.48	0.52	0.53
	Medium	1.95	1.64	0.42	0.46	0.48	0.52	0.53
		1.64	1.38	0.42	0.47	0.47	0.51	0.53
		1.38	1.16	0.40	0.44	0.44	0.48	0.49
		1.16	0.98	0.35	0.39	0.39	0.42	0.42
	Fine	0.98	0.82	0.36	0.40	0.39	0.42	0.42
		0.82	0.69	0.37	0.42	0.38	0.43	0.43
		0.69	0.58	0.40	0.47	0.40	0.46	0.46
		0.58	0.49	0.45	0.54	0.43	0.51	0.51
	Very Fine	<0.49		1.82	2.09	2.44	2.01	1.95

Table 9a-17. Particle size data for the 05U-27 auger hole, Wentworth scale—Continued

		05U-27					
		Micrometers		48–56 cm	56–64 cm	64–70 cm	70–79 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00
		354	297	0.00	0.02	0.02	0.00
		297	250	0.07	1.07	0.96	0.05
	Fine	250	210	1.65	2.29	2.06	1.25
		210	177	3.70	3.98	3.59	2.74
		177	149	6.08	6.15	5.60	4.48
		149	125	8.99	8.63	7.95	6.66
	Very Fine	125	105	11.19	10.42	9.73	8.52
		105	88	12.22	11.28	10.72	9.84
		88	74	10.54	9.86	9.60	9.76
		74	63	8.13	7.76	7.77	8.01
SILT	Coarse	63	53	6.78	6.64	6.86	7.36
		53	44	5.28	5.31	5.68	6.40
		44	37	3.44	3.53	3.91	4.63
		37	31.2	2.39	2.48	2.84	3.50
	Medium	31.2	26.3	1.72	1.80	2.13	2.70
		26.3	22.1	1.33	1.39	1.67	2.15
		22.1	18.6	1.10	1.13	1.35	1.73
		18.6	15.6	1.01	1.01	1.19	1.50
	Fine	15.6	13.1	0.94	0.94	1.07	1.31
		13.1	11	0.90	0.89	0.99	1.20
		11	9.3	0.82	0.81	0.90	1.07
		9.3	7.8	0.82	0.81	0.89	1.05
	Very Fine	7.8	6.6	0.73	0.73	0.80	0.94
		6.6	5.5	0.75	0.76	0.83	0.97
		5.5	4.6	0.70	0.72	0.77	0.90
		4.6	3.9	0.62	0.64	0.68	0.79
CLAY	Coarse	3.9	3.3	0.60	0.63	0.67	0.76
		3.3	2.8	0.58	0.60	0.64	0.72
		2.8	2.3	0.66	0.70	0.73	0.82
		2.3	1.95	0.53	0.56	0.59	0.65
	Medium	1.95	1.64	0.53	0.56	0.59	0.65
		1.64	1.38	0.52	0.55	0.58	0.63
		1.38	1.16	0.49	0.52	0.54	0.60
		1.16	0.98	0.43	0.46	0.49	0.54
	Fine	0.98	0.82	0.43	0.47	0.49	0.54
		0.82	0.69	0.44	0.47	0.49	0.53
		0.69	0.58	0.47	0.50	0.52	0.56
		0.58	0.49	0.51	0.54	0.56	0.59
	Very Fine	<0.49		1.93	2.40	2.58	2.97

Table 9a-18. Particle size data for the 05U-28 auger hole, Wentworth scale.

				05U-28					
		Micrometers		0-10 cm	10-23 cm	23-40 cm	40-53 cm	53-67 cm	67-80 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	0.00	0.00	0.00	0.00	0.00	0.00
		420	354	0.01	0.00	0.03	1.31	0.00	1.22
		354	297	2.25	2.03	2.50	3.62	2.63	3.58
		297	250	4.72	4.54	5.23	6.42	5.84	6.71
	Fine	250	210	8.12	8.10	8.93	9.75	9.23	10.68
		210	177	11.46	11.74	12.51	12.52	12.29	14.45
		177	149	14.63	15.29	15.72	14.65	15.12	16.18
		149	125	14.84	15.66	15.56	13.99	14.74	14.68
	Very Fine	125	105	12.05	12.66	12.18	10.90	11.46	10.88
		105	88	8.86	9.10	8.50	7.75	8.07	7.00
		88	74	5.79	5.71	5.22	4.92	5.10	4.05
		74	63	3.52	3.32	2.99	2.90	3.05	2.24
SILT	Coarse	63	53	2.44	2.20	1.96	1.94	2.11	1.42
		53	44	1.60	1.35	1.18	1.20	1.39	0.81
		44	37	0.89	0.67	0.57	0.64	0.79	0.37
		37	31.2	0.56	0.38	0.32	0.42	0.55	0.24
	Medium	31.2	26.3	0.44	0.30	0.28	0.38	0.50	0.27
		26.3	22.1	0.43	0.33	0.34	0.41	0.52	0.34
		22.1	18.6	0.42	0.37	0.38	0.43	0.51	0.36
		18.6	15.6	0.40	0.38	0.38	0.41	0.47	0.34
	Fine	15.6	13.1	0.35	0.34	0.33	0.36	0.40	0.28
		13.1	11	0.30	0.29	0.28	0.30	0.33	0.22
		11	9.3	0.25	0.24	0.22	0.25	0.27	0.17
		9.3	7.8	0.24	0.23	0.21	0.23	0.25	0.15
	Very Fine	7.8	6.6	0.23	0.21	0.19	0.21	0.23	0.14
		6.6	5.5	0.26	0.24	0.21	0.23	0.25	0.17
		5.5	4.6	0.27	0.25	0.22	0.24	0.25	0.18
		4.6	3.9	0.26	0.24	0.21	0.23	0.24	0.18
CLAY	Coarse	3.9	3.3	0.27	0.25	0.22	0.23	0.24	0.18
		3.3	2.8	0.27	0.25	0.21	0.22	0.23	0.17
		2.8	2.3	0.32	0.29	0.25	0.26	0.27	0.20
		2.3	1.95	0.26	0.23	0.20	0.21	0.21	0.16
	Medium	1.95	1.64	0.27	0.23	0.20	0.21	0.22	0.16
		1.64	1.38	0.28	0.25	0.21	0.22	0.23	0.17
		1.38	1.16	0.27	0.24	0.21	0.21	0.22	0.17
		1.16	0.98	0.24	0.21	0.18	0.19	0.19	0.16
	Fine	0.98	0.82	0.25	0.22	0.19	0.20	0.20	0.16
		0.82	0.69	0.27	0.24	0.21	0.21	0.21	0.18
		0.69	0.58	0.30	0.27	0.23	0.22	0.23	0.19
		0.58	0.49	0.35	0.30	0.25	0.24	0.25	0.20
	Very Fine	<0.49		1.08	0.90	0.77	0.80	0.74	0.60

Table 9a-19. Particle size data for the 05U-29 auger hole, Wentworth scale.

				05U-29						
		Micrometers		0-10 cm	10-23 cm	23-38 cm	38-52 cm	52-65 cm	65-77 cm	77-88 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	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
		354	297	2.10	1.96	2.02	1.96	2.07	2.09	1.87
		297	250	4.49	4.42	4.53	4.26	4.39	4.47	4.24
	Fine	250	210	7.77	7.94	8.14	7.46	7.61	7.73	7.61
		210	177	11.02	11.62	11.92	10.70	10.89	10.99	11.15
		177	149	14.16	15.33	15.70	14.03	14.28	14.29	14.78
		149	125	14.48	15.80	16.11	14.83	15.08	14.93	15.52
Very Fine	125	105	11.78	12.67	12.76	12.70	12.85	12.53	12.93	
	105	88	8.61	8.91	8.82	9.73	9.74	9.37	9.53	
	88	74	5.60	5.49	5.34	6.49	6.37	6.10	6.12	
	74	63	3.43	3.19	3.07	3.96	3.79	3.67	3.64	
SILT	Coarse	63	53	2.43	2.17	2.06	2.74	2.55	2.52	2.48
		53	44	1.67	1.40	1.31	1.79	1.62	1.66	1.61
		44	37	1.02	0.77	0.69	1.00	0.87	0.95	0.89
		37	31.2	0.75	0.50	0.42	0.63	0.53	0.63	0.57
	Medium	31.2	26.3	0.67	0.43	0.37	0.49	0.40	0.52	0.46
		26.3	22.1	0.67	0.47	0.42	0.47	0.41	0.53	0.47
		22.1	18.6	0.65	0.49	0.45	0.47	0.43	0.53	0.48
		18.6	15.6	0.61	0.46	0.43	0.46	0.43	0.51	0.46
	Fine	15.6	13.1	0.52	0.39	0.36	0.41	0.39	0.45	0.40
		13.1	11	0.45	0.33	0.30	0.35	0.33	0.38	0.34
		11	9.3	0.37	0.27	0.24	0.29	0.28	0.31	0.27
		9.3	7.8	0.35	0.25	0.23	0.26	0.25	0.29	0.25
	Very Fine	7.8	6.6	0.32	0.23	0.21	0.24	0.23	0.25	0.22
		6.6	5.5	0.36	0.25	0.24	0.26	0.25	0.27	0.24
		5.5	4.6	0.36	0.26	0.25	0.26	0.25	0.27	0.24
		4.6	3.9	0.34	0.24	0.24	0.24	0.24	0.25	0.22
CLAY	Coarse	3.9	3.3	0.35	0.25	0.24	0.25	0.24	0.26	0.22
		3.3	2.8	0.34	0.25	0.23	0.24	0.24	0.25	0.22
		2.8	2.3	0.40	0.28	0.27	0.28	0.27	0.28	0.25
		2.3	1.95	0.32	0.22	0.21	0.22	0.22	0.22	0.20
	Medium	1.95	1.64	0.32	0.22	0.20	0.22	0.22	0.22	0.20
		1.64	1.38	0.34	0.24	0.23	0.23	0.23	0.24	0.21
		1.38	1.16	0.32	0.24	0.23	0.23	0.22	0.23	0.21
		1.16	0.98	0.28	0.20	0.19	0.21	0.20	0.20	0.18
	Fine	0.98	0.82	0.29	0.21	0.19	0.21	0.21	0.20	0.18
		0.82	0.69	0.30	0.24	0.21	0.22	0.22	0.21	0.19
		0.69	0.58	0.33	0.27	0.23	0.24	0.24	0.23	0.20
		0.58	0.49	0.36	0.31	0.27	0.25	0.26	0.25	0.21
	Very Fine	<0.49		1.11	0.84	0.68	0.75	0.75	0.71	0.57

Table 9a-19. Particle size data for the 05U-29 auger hole, Wentworth scale—Continued

				05U-29					
		Micrometers		88-100 cm	100-112 cm	112-123 cm	123-132 cm	132-143 cm	143-157 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	0.00	0.00	0.00	0.00	0.00	0.00
		420	354	0.90	0.00	0.00	0.00	0.00	1.62
		354	297	2.86	3.12	2.43	1.67	2.04	4.25
		297	250	5.50	6.42	5.19	3.98	4.55	7.40
	Fine	250	210	8.93	9.93	8.96	7.33	8.13	11.15
		210	177	12.24	13.07	12.61	10.88	11.83	14.47
		177	149	15.35	16.02	15.96	14.55	15.57	15.87
		149	125	15.40	15.49	15.92	15.33	16.04	14.45
	Very Fine	125	105	12.28	11.77	12.59	12.82	12.97	10.92
		105	88	8.63	7.88	8.80	9.48	9.16	7.10
		88	74	5.25	4.67	5.32	6.12	5.60	4.03
		74	63	2.95	2.61	2.95	3.68	3.19	2.10
SILT	Coarse	63	53	1.88	1.66	1.83	2.56	2.09	1.22
		53	44	1.10	0.97	1.02	1.72	1.29	0.62
		44	37	0.52	0.45	0.45	1.00	0.65	0.24
		37	31.2	0.28	0.27	0.23	0.69	0.38	0.13
	Medium	31.2	26.3	0.25	0.28	0.22	0.59	0.33	0.14
		26.3	22.1	0.33	0.36	0.30	0.59	0.40	0.21
		22.1	18.6	0.38	0.40	0.36	0.58	0.44	0.25
		18.6	15.6	0.39	0.39	0.37	0.55	0.43	0.26
	Fine	15.6	13.1	0.34	0.33	0.33	0.47	0.36	0.23
		13.1	11	0.28	0.26	0.27	0.39	0.30	0.19
		11	9.3	0.22	0.21	0.21	0.32	0.24	0.15
		9.3	7.8	0.20	0.18	0.19	0.29	0.21	0.13
	Very Fine	7.8	6.6	0.17	0.16	0.16	0.26	0.19	0.12
		6.6	5.5	0.19	0.18	0.18	0.28	0.21	0.14
		5.5	4.6	0.20	0.19	0.19	0.28	0.22	0.16
		4.6	3.9	0.19	0.18	0.19	0.26	0.21	0.16
CLAY	Coarse	3.9	3.3	0.20	0.19	0.19	0.26	0.21	0.16
		3.3	2.8	0.19	0.18	0.19	0.25	0.21	0.16
		2.8	2.3	0.22	0.20	0.22	0.28	0.24	0.18
		2.3	1.95	0.17	0.16	0.17	0.22	0.19	0.14
	Medium	1.95	1.64	0.17	0.16	0.17	0.22	0.19	0.14
		1.64	1.38	0.19	0.17	0.18	0.23	0.20	0.15
		1.38	1.16	0.19	0.17	0.18	0.23	0.20	0.15
		1.16	0.98	0.17	0.15	0.16	0.20	0.18	0.14
	Fine	0.98	0.82	0.17	0.15	0.17	0.19	0.18	0.15
		0.82	0.69	0.18	0.16	0.17	0.21	0.19	0.15
		0.69	0.58	0.19	0.17	0.18	0.22	0.20	0.16
		0.58	0.49	0.19	0.17	0.19	0.24	0.22	0.16
	Very Fine	<0.49		0.58	0.52	0.61	0.64	0.61	0.49

Table 9a-20. Particle size data for the 05U-30 auger hole, Wentworth scale.

				05U-30					
		Micrometers		0-10 cm	10-23 cm	23-40 cm	40-55 cm	55-70 cm	70-82 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	0.00	0.00	0.00	0.00	0.05	0.00
		420	354	0.00	0.00	0.00	1.28	1.68	0.80
		354	297	1.89	1.63	2.18	3.60	4.03	2.69
		297	250	4.09	3.72	4.64	6.40	6.78	5.32
	Fine	250	210	7.00	6.56	7.92	9.59	10.01	8.68
		210	177	9.71	9.33	10.93	12.01	12.88	11.73
		177	149	12.30	11.90	13.64	13.72	14.38	14.41
		149	125	12.88	13.37	13.88	13.12	13.81	14.42
	Very Fine	125	105	11.28	11.76	11.61	10.56	11.35	11.79
		105	88	9.08	9.31	8.84	7.87	8.12	8.70
		88	74	6.48	6.67	5.95	5.24	5.01	5.63
		74	63	4.22	4.39	3.69	3.22	2.81	3.36
SILT	Coarse	63	53	3.12	3.27	2.62	2.25	1.78	2.29
		53	44	2.26	2.37	1.80	1.50	1.04	1.49
		44	37	1.46	1.52	1.10	0.89	0.48	0.83
		37	31.2	1.09	1.13	0.80	0.63	0.25	0.54
	Medium	31.2	26.3	0.94	0.95	0.69	0.55	0.20	0.45
		26.3	22.1	0.89	0.89	0.69	0.54	0.25	0.46
		22.1	18.6	0.84	0.84	0.68	0.53	0.30	0.47
		18.6	15.6	0.81	0.81	0.65	0.51	0.32	0.46
	Fine	15.6	13.1	0.73	0.73	0.59	0.45	0.30	0.41
		13.1	11	0.66	0.66	0.53	0.40	0.26	0.36
		11	9.3	0.58	0.58	0.46	0.34	0.23	0.30
		9.3	7.8	0.57	0.56	0.44	0.33	0.22	0.29
	Very Fine	7.8	6.6	0.51	0.51	0.40	0.30	0.20	0.26
		6.6	5.5	0.54	0.53	0.43	0.32	0.22	0.29
		5.5	4.6	0.52	0.51	0.41	0.31	0.22	0.28
		4.6	3.9	0.46	0.45	0.37	0.28	0.21	0.26
CLAY	Coarse	3.9	3.3	0.45	0.43	0.36	0.27	0.21	0.25
		3.3	2.8	0.42	0.40	0.33	0.26	0.19	0.24
		2.8	2.3	0.46	0.45	0.36	0.28	0.22	0.26
		2.3	1.95	0.35	0.34	0.28	0.22	0.17	0.20
	Medium	1.95	1.64	0.35	0.33	0.27	0.22	0.16	0.20
		1.64	1.38	0.34	0.33	0.28	0.22	0.17	0.21
		1.38	1.16	0.32	0.31	0.26	0.21	0.17	0.20
		1.16	0.98	0.27	0.26	0.21	0.18	0.15	0.17
	Fine	0.98	0.82	0.27	0.26	0.21	0.18	0.15	0.17
		0.82	0.69	0.27	0.27	0.22	0.18	0.16	0.18
		0.69	0.58	0.28	0.29	0.23	0.19	0.17	0.19
		0.58	0.49	0.31	0.32	0.26	0.21	0.18	0.21
	Very Fine	<0.49		1.05	1.09	0.80	0.65	0.54	0.58

Table 9a-20. Particle size data for the 05U-30 auger hole, Wentworth scale—Continued

				05U-30					
		Micrometers		82–94 cm	94–108 cm	108–123 cm	123–135 cm	135–146 cm	146–159 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	0.00	0.00	0.11	0.00	0.00	0.00
		420	354	1.61	1.66	1.72	1.70	0.99	0.72
		354	297	4.22	4.27	4.01	4.86	3.87	3.56
		297	250	7.30	7.41	6.64	7.76	6.64	6.37
	Fine	250	210	10.88	11.01	9.61	10.71	9.62	9.31
		210	177	13.78	13.90	12.08	12.59	12.03	11.45
		177	149	14.78	14.84	13.25	12.78	13.77	12.95
		149	125	13.47	13.38	12.63	11.34	13.29	12.48
	Very Fine	125	105	10.53	10.33	10.44	8.99	10.90	10.32
		105	88	7.27	7.10	7.70	6.59	8.33	8.03
		88	74	4.43	4.37	5.06	4.42	5.67	5.61
		74	63	2.49	2.53	3.10	2.77	3.53	3.59
SILT	Coarse	63	53	1.57	1.66	2.17	2.00	2.46	2.59
		53	44	0.89	1.01	1.47	1.43	1.61	1.80
		44	37	0.42	0.52	0.89	0.96	0.92	1.11
		37	31.2	0.27	0.35	0.66	0.80	0.61	0.81
	Medium	31.2	26.3	0.28	0.34	0.58	0.76	0.48	0.69
		26.3	22.1	0.35	0.38	0.59	0.76	0.45	0.66
		22.1	18.6	0.40	0.39	0.57	0.72	0.42	0.62
		18.6	15.6	0.40	0.37	0.55	0.67	0.39	0.59
	Fine	15.6	13.1	0.35	0.31	0.49	0.58	0.33	0.53
		13.1	11	0.30	0.26	0.43	0.51	0.27	0.46
		11	9.3	0.25	0.22	0.37	0.44	0.21	0.40
		9.3	7.8	0.24	0.21	0.36	0.43	0.19	0.38
	Very Fine	7.8	6.6	0.22	0.19	0.32	0.39	0.16	0.34
		6.6	5.5	0.24	0.21	0.34	0.41	0.17	0.36
		5.5	4.6	0.24	0.22	0.33	0.40	0.17	0.34
		4.6	3.9	0.22	0.20	0.29	0.35	0.16	0.31
CLAY	Coarse	3.9	3.3	0.22	0.19	0.28	0.34	0.17	0.30
		3.3	2.8	0.20	0.18	0.26	0.32	0.16	0.28
		2.8	2.3	0.22	0.20	0.29	0.35	0.18	0.32
		2.3	1.95	0.17	0.16	0.22	0.27	0.15	0.25
	Medium	1.95	1.64	0.17	0.16	0.22	0.26	0.15	0.24
		1.64	1.38	0.17	0.17	0.22	0.26	0.16	0.24
		1.38	1.16	0.17	0.16	0.21	0.24	0.16	0.23
		1.16	0.98	0.15	0.14	0.18	0.21	0.14	0.20
	Fine	0.98	0.82	0.15	0.14	0.17	0.21	0.14	0.20
		0.82	0.69	0.15	0.14	0.18	0.21	0.14	0.20
		0.69	0.58	0.16	0.15	0.19	0.21	0.15	0.21
		0.58	0.49	0.16	0.16	0.21	0.22	0.15	0.22
	Very Fine	<0.49		0.54	0.45	0.59	0.78	0.53	0.78

Table 9a-21. Particle size data for the 05U-31 and -32 soil pits, Wentworth scale.

				05U-31			05U-32		
		Micrometers		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
		1680	1414	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
		1189	1000	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
		841	707	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
		595	500	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
		420	354	0.00	0.00	0.00	0.62	0.19	0.00
		354	297	0.00	0.00	0.26	2.49	1.92	1.58
		297	250	0.44	0.21	1.88	4.30	3.72	3.31
	Fine	250	210	2.32	1.96	3.43	6.23	5.94	5.57
		210	177	3.99	3.35	5.01	7.91	8.00	7.80
		177	149	5.87	5.03	6.88	9.51	10.07	10.16
		149	125	7.89	6.88	8.81	10.75	11.80	12.25
	Very Fine	125	105	9.20	8.20	9.95	10.13	11.27	11.88
		105	88	9.70	8.88	9.51	8.90	9.87	10.44
		88	74	8.39	7.92	8.18	7.05	7.68	8.06
		74	63	6.59	6.45	6.27	4.98	5.28	5.46
SILT	Coarse	63	53	5.68	5.80	5.25	3.87	3.98	4.03
		53	44	4.60	4.95	4.14	2.85	2.83	2.80
		44	37	3.12	3.56	2.77	1.81	1.73	1.65
		37	31.2	2.27	2.74	2.02	1.27	1.17	1.08
	Medium	31.2	26.3	1.75	2.21	1.58	0.99	0.87	0.78
		26.3	22.1	1.47	1.91	1.37	0.86	0.75	0.66
		22.1	18.6	1.31	1.70	1.25	0.80	0.70	0.63
		18.6	15.6	1.28	1.62	1.24	0.79	0.70	0.65
	Fine	15.6	13.1	1.25	1.55	1.21	0.77	0.67	0.64
		13.1	11	1.25	1.51	1.19	0.74	0.64	0.62
		11	9.3	1.19	1.41	1.11	0.69	0.59	0.57
		9.3	7.8	1.24	1.45	1.14	0.70	0.59	0.57
	Very Fine	7.8	6.6	1.16	1.35	1.05	0.66	0.54	0.53
		6.6	5.5	1.25	1.44	1.12	0.72	0.58	0.57
		5.5	4.6	1.21	1.38	1.07	0.71	0.56	0.56
		4.6	3.9	1.09	1.23	0.95	0.65	0.51	0.51
CLAY	Coarse	3.9	3.3	1.08	1.20	0.93	0.65	0.51	0.51
		3.3	2.8	1.03	1.12	0.87	0.62	0.48	0.49
		2.8	2.3	1.17	1.26	0.97	0.71	0.55	0.55
		2.3	1.95	0.92	0.98	0.75	0.56	0.43	0.44
	Medium	1.95	1.64	0.91	0.94	0.73	0.56	0.43	0.43
		1.64	1.38	0.85	0.87	0.68	0.53	0.41	0.41
		1.38	1.16	0.79	0.80	0.61	0.50	0.38	0.38
		1.16	0.98	0.70	0.70	0.53	0.44	0.34	0.33
	Fine	0.98	0.82	0.69	0.69	0.52	0.44	0.34	0.33
		0.82	0.69	0.65	0.64	0.49	0.43	0.34	0.33
		0.69	0.58	0.67	0.67	0.52	0.43	0.38	0.36
		0.58	0.49	0.71	0.73	0.57	0.45	0.42	0.40
	Very Fine	<0.49		4.32	4.73	3.21	1.92	1.85	1.69

Table 9a-22. Particle size data for the 05U-33 auger hole, Wentworth scale.

				05U-33					
		Micrometers		0–10 cm	10–22 cm	22–39 cm	39–56 cm	56–72 cm	72–85 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	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
		354	297	0.96	1.15	1.62	1.39	1.32	1.39
		297	250	2.74	3.12	3.87	3.39	3.32	3.46
	Fine	250	210	5.45	6.07	7.09	6.26	6.23	6.45
		210	177	8.59	9.38	10.39	9.35	9.37	9.63
		177	149	12.02	12.82	13.73	12.58	12.59	12.79
		149	125	14.81	15.29	14.82	15.04	14.92	14.93
	Very Fine	125	105	13.91	13.84	13.19	13.91	13.60	13.45
		105	88	11.56	11.01	10.58	11.40	10.98	10.78
		88	74	8.32	7.59	7.20	8.02	7.70	7.55
		74	63	5.23	4.61	4.27	4.86	4.72	4.65
SILT	Coarse	63	53	3.58	3.08	2.77	3.16	3.16	3.14
		53	44	2.31	1.93	1.68	1.91	1.99	1.99
		44	37	1.27	1.02	0.85	0.96	1.05	1.06
		37	31.2	0.76	0.59	0.46	0.50	0.61	0.62
	Medium	31.2	26.3	0.50	0.40	0.30	0.28	0.40	0.41
		26.3	22.1	0.42	0.38	0.30	0.25	0.37	0.37
		22.1	18.6	0.42	0.42	0.35	0.30	0.41	0.40
		18.6	15.6	0.45	0.46	0.40	0.38	0.46	0.43
	Fine	15.6	13.1	0.44	0.45	0.40	0.39	0.45	0.42
		13.1	11	0.41	0.42	0.36	0.38	0.41	0.39
		11	9.3	0.36	0.36	0.32	0.33	0.36	0.34
		9.3	7.8	0.34	0.34	0.30	0.31	0.34	0.32
	Very Fine	7.8	6.6	0.30	0.31	0.27	0.28	0.30	0.29
		6.6	5.5	0.32	0.33	0.29	0.29	0.32	0.31
		5.5	4.6	0.32	0.33	0.29	0.28	0.31	0.30
		4.6	3.9	0.29	0.30	0.27	0.26	0.29	0.28
CLAY	Coarse	3.9	3.3	0.29	0.30	0.27	0.26	0.29	0.28
		3.3	2.8	0.29	0.29	0.26	0.25	0.28	0.27
		2.8	2.3	0.33	0.33	0.29	0.29	0.32	0.31
		2.3	1.95	0.26	0.26	0.23	0.23	0.25	0.24
	Medium	1.95	1.64	0.26	0.26	0.23	0.23	0.25	0.24
		1.64	1.38	0.27	0.27	0.23	0.23	0.26	0.25
		1.38	1.16	0.25	0.25	0.22	0.22	0.24	0.24
		1.16	0.98	0.21	0.21	0.19	0.19	0.21	0.20
	Fine	0.98	0.82	0.21	0.21	0.19	0.19	0.21	0.20
		0.82	0.69	0.22	0.22	0.20	0.20	0.22	0.21
		0.69	0.58	0.24	0.24	0.22	0.21	0.25	0.24
		0.58	0.49	0.26	0.28	0.26	0.24	0.28	0.27
	Very Fine	<0.49		0.85	0.91	0.87	0.80	0.96	0.92

Table 9a-22. Particle size data for the 05U-33 auger hole, Wentworth scale—Continued

		05U-33						
		Micrometers		85–100 cm	100–110 cm	110–124 cm	124–136 cm	136–151 cm 151–158 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	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
		354	297	1.37	1.34	1.21	1.36	1.50 1.31
		297	250	3.44	3.40	3.19	3.42	3.73 3.35
	Fine	250	210	6.49	6.40	6.16	6.46	7.05 6.37
		210	177	9.85	9.66	9.56	9.81	10.64 9.71
		177	149	13.32	12.97	13.23	13.32	14.42 13.18
		149	125	15.70	15.28	15.97	15.84	15.62 15.67
	Very Fine	125	105	14.05	13.80	14.55	14.33	13.71 14.20
		105	88	11.06	11.05	11.57	11.35	10.70 11.33
		88	74	7.51	7.68	7.84	7.67	7.04 7.77
		74	63	4.45	4.67	4.57	4.47	4.05 4.62
SILT	Coarse	63	53	2.87	3.09	2.89	2.83	2.56 2.98
		53	44	1.73	1.91	1.71	1.66	1.52 1.78
		44	37	0.86	0.98	0.83	0.80	0.74 0.88
		37	31.2	0.44	0.53	0.41	0.39	0.37 0.44
	Medium	31.2	26.3	0.26	0.33	0.22	0.21	0.23 0.24
		26.3	22.1	0.25	0.29	0.21	0.20	0.24 0.22
		22.1	18.6	0.31	0.33	0.27	0.26	0.31 0.27
		18.6	15.6	0.36	0.37	0.33	0.32	0.36 0.33
	Fine	15.6	13.1	0.36	0.37	0.33	0.33	0.35 0.34
		13.1	11	0.33	0.34	0.31	0.31	0.32 0.31
		11	9.3	0.29	0.30	0.27	0.27	0.27 0.27
		9.3	7.8	0.27	0.28	0.25	0.25	0.25 0.26
	Very Fine	7.8	6.6	0.24	0.25	0.22	0.22	0.22 0.23
		6.6	5.5	0.26	0.27	0.23	0.24	0.24 0.24
		5.5	4.6	0.26	0.27	0.23	0.24	0.24 0.24
		4.6	3.9	0.24	0.25	0.22	0.23	0.23 0.23
CLAY	Coarse	3.9	3.3	0.24	0.25	0.23	0.23	0.23 0.23
		3.3	2.8	0.24	0.25	0.22	0.23	0.22 0.23
		2.8	2.3	0.27	0.28	0.25	0.26	0.25 0.26
		2.3	1.95	0.22	0.22	0.20	0.20	0.20 0.21
	Medium	1.95	1.64	0.22	0.22	0.20	0.21	0.20 0.21
		1.64	1.38	0.23	0.23	0.21	0.21	0.21 0.22
		1.38	1.16	0.21	0.22	0.20	0.20	0.20 0.21
		1.16	0.98	0.18	0.19	0.17	0.17	0.17 0.18
	Fine	0.98	0.82	0.18	0.19	0.17	0.18	0.16 0.18
		0.82	0.69	0.20	0.20	0.18	0.19	0.18 0.19
		0.69	0.58	0.22	0.22	0.20	0.20	0.20 0.20
		0.58	0.49	0.25	0.25	0.24	0.23	0.22 0.23
	Very Fine	<0.49		0.80	0.86	0.77	0.72	0.67 0.72

Table 9a-23. Particle size data for the 06U-3 trench-soil profile, Wentworth scale.

				06U-3				
		Micrometers		0-7 cm	7-15 cm	15-29 cm	29-55 cm	55-78 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.04	0.00	0.03	0.06
		595	500	0.00	0.20	0.10	0.51	0.21
	Medium	500	420	0.00	0.21	0.19	0.75	0.19
		420	354	0.00	0.19	0.17	0.81	0.17
		354	297	0.00	0.24	0.17	0.96	0.32
		297	250	0.00	0.68	0.28	1.39	0.84
	Fine	250	210	0.32	1.64	1.57	2.33	1.90
		210	177	2.85	3.07	3.33	3.64	3.40
		177	149	5.86	4.97	5.27	5.32	5.31
		149	125	8.82	7.14	7.40	7.12	7.35
	Very Fine	125	105	10.83	8.83	9.02	8.35	8.79
		105	88	11.94	9.98	10.08	9.02	9.60
		88	74	11.44	9.88	9.88	8.57	9.17
		74	63	9.48	8.49	8.42	7.10	7.60
SILT	Coarse	63	53	8.33	7.77	7.67	6.30	6.71
		53	44	6.60	6.50	6.40	5.15	5.42
		44	37	4.13	4.38	4.33	3.47	3.59
		37	31.2	2.60	3.03	3.04	2.49	2.53
	Medium	31.2	26.3	1.63	2.15	2.20	1.91	1.92
		26.3	22.1	1.11	1.66	1.72	1.63	1.65
		22.1	18.6	0.88	1.39	1.44	1.48	1.52
		18.6	15.6	0.86	1.32	1.34	1.46	1.53
	Fine	15.6	13.1	0.89	1.28	1.27	1.43	1.50
		13.1	11	0.92	1.26	1.21	1.41	1.46
		11	9.3	0.87	1.16	1.11	1.33	1.35
		9.3	7.8	0.88	1.15	1.10	1.37	1.36
	Very Fine	7.8	6.6	0.78	1.02	0.99	1.29	1.25
		6.6	5.5	0.79	1.04	1.02	1.40	1.32
		5.5	4.6	0.73	0.94	0.96	1.36	1.27
		4.6	3.9	0.63	0.82	0.85	1.23	1.15
CLAY	Coarse	3.9	3.3	0.61	0.78	0.83	1.20	1.12
		3.3	2.8	0.57	0.73	0.77	1.12	1.06
		2.8	2.3	0.65	0.82	0.87	1.23	1.18
		2.3	1.95	0.51	0.64	0.67	0.93	0.90
	Medium	1.95	1.64	0.50	0.63	0.64	0.86	0.86
		1.64	1.38	0.47	0.59	0.59	0.76	0.77
		1.38	1.16	0.45	0.57	0.55	0.68	0.70
		1.16	0.98	0.42	0.54	0.51	0.60	0.63
	Fine	0.98	0.82	0.42	0.56	0.52	0.58	0.62
		0.82	0.69	0.38	0.51	0.47	0.50	0.55
		0.69	0.58	0.34	0.46	0.42	0.42	0.48
		0.58	0.49	0.26	0.37	0.33	0.31	0.37
	Very Fine	<0.49		0.24	0.39	0.32	0.23	0.34

Table 9a-23. Particle size data for the 06U-3 trench-soil profile, Wentworth scale; GF – gravel facies—Continued

		Micrometers		06U-3			
				78-95 cm	78-95 cm GF	95-137 cm	137-186 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00
		841	707	0.00	0.08	0.00	0.00
		707	595	0.00	0.24	0.09	0.00
		595	500	0.00	0.38	0.16	0.00
	Medium	500	420	0.00	0.40	0.17	0.00
		420	354	0.00	0.41	0.18	0.00
		354	297	0.00	0.62	0.45	0.00
		297	250	0.00	1.19	1.11	0.11
	Fine	250	210	0.02	2.35	2.30	1.74
		210	177	2.21	3.97	3.93	4.23
		177	149	5.43	6.04	5.98	6.65
		149	125	8.51	8.24	8.16	9.00
	Very Fine	125	105	10.51	9.77	9.67	10.41
		105	88	11.49	10.58	10.47	10.94
		88	74	10.84	9.99	9.91	10.03
		74	63	8.82	8.12	8.11	7.96
SILT	Coarse	63	53	7.59	6.96	7.04	6.70
		53	44	5.91	5.32	5.51	5.10
		44	37	3.70	3.21	3.47	3.15
		37	31.2	2.42	1.99	2.28	2.07
	Medium	31.2	26.3	1.68	1.32	1.60	1.51
		26.3	22.1	1.35	1.05	1.29	1.29
		22.1	18.6	1.21	0.99	1.16	1.23
		18.6	15.6	1.22	1.08	1.18	1.27
	Fine	15.6	13.1	1.22	1.14	1.17	1.27
		13.1	11	1.20	1.17	1.15	1.23
		11	9.3	1.12	1.10	1.06	1.13
		9.3	7.8	1.12	1.11	1.05	1.11
	Very Fine	7.8	6.6	1.02	1.01	0.95	1.00
		6.6	5.5	1.08	1.06	1.00	1.04
		5.5	4.6	1.04	1.00	0.96	0.99
		4.6	3.9	0.94	0.90	0.87	0.89
CLAY	Coarse	3.9	3.3	0.93	0.88	0.86	0.88
		3.3	2.8	0.89	0.82	0.82	0.83
		2.8	2.3	1.00	0.92	0.93	0.93
		2.3	1.95	0.78	0.70	0.72	0.72
	Medium	1.95	1.64	0.74	0.66	0.69	0.69
		1.64	1.38	0.67	0.58	0.62	0.63
		1.38	1.16	0.62	0.53	0.57	0.59
		1.16	0.98	0.57	0.47	0.51	0.54
	Fine	0.98	0.82	0.56	0.46	0.50	0.55
		0.82	0.69	0.50	0.40	0.44	0.49
		0.69	0.58	0.44	0.34	0.38	0.44
		0.58	0.49	0.33	0.26	0.29	0.34
	Very Fine	<0.49		0.31	0.18	0.25	0.34

Table 9a-24. Particle size data for the 06U-4 trench-soil profile, Wentworth scale.

				06U-4			
		Micrometers		0-4 cm	4-11 cm	11-17 cm	17-40 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00
		841	707	0.03	0.00	0.00	0.00
		707	595	0.20	0.00	0.00	0.00
		595	500	0.50	0.00	0.00	0.00
	Medium	500	420	0.56	0.00	0.00	0.00
		420	354	0.52	0.00	0.00	0.00
		354	297	0.62	0.00	0.00	0.00
		297	250	1.05	0.25	0.00	0.00
	Fine	250	210	2.03	1.36	0.00	0.81
		210	177	3.51	3.16	0.31	2.70
		177	149	5.49	5.32	3.03	4.69
		149	125	7.76	7.64	6.45	6.86
	Very Fine	125	105	9.54	9.39	9.26	8.52
		105	88	10.78	10.51	11.09	9.60
		88	74	10.70	10.28	11.14	9.44
		74	63	9.21	8.72	9.46	8.07
SILT	Coarse	63	53	8.42	7.88	8.44	7.37
		53	44	6.94	6.48	6.78	6.21
		44	37	4.49	4.28	4.36	4.28
		37	31.2	2.85	2.88	2.91	3.11
	Medium	31.2	26.3	1.73	1.97	2.06	2.37
		26.3	22.1	1.06	1.46	1.65	1.98
		22.1	18.6	0.72	1.19	1.50	1.75
		18.6	15.6	0.65	1.13	1.52	1.69
	Fine	15.6	13.1	0.68	1.11	1.53	1.63
		13.1	11	0.74	1.11	1.52	1.58
		11	9.3	0.75	1.05	1.40	1.46
		9.3	7.8	0.78	1.07	1.39	1.45
	Very Fine	7.8	6.6	0.71	0.97	1.24	1.31
		6.6	5.5	0.72	1.02	1.28	1.36
		5.5	4.6	0.66	0.96	1.19	1.27
		4.6	3.9	0.57	0.85	1.06	1.12
CLAY	Coarse	3.9	3.3	0.54	0.83	1.03	1.09
		3.3	2.8	0.51	0.78	0.97	1.01
		2.8	2.3	0.57	0.88	1.08	1.12
		2.3	1.95	0.45	0.69	0.84	0.86
	Medium	1.95	1.64	0.44	0.67	0.81	0.82
		1.64	1.38	0.41	0.62	0.75	0.74
		1.38	1.16	0.39	0.59	0.70	0.69
		1.16	0.98	0.37	0.56	0.65	0.63
	Fine	0.98	0.82	0.37	0.57	0.66	0.63
		0.82	0.69	0.33	0.52	0.59	0.56
		0.69	0.58	0.29	0.47	0.52	0.49
		0.58	0.49	0.22	0.37	0.41	0.37
	Very Fine	<0.49		0.14	0.39	0.40	0.35

Table 9a-24. Particle size data for the 06U-4 trench-soil profile, Wentworth scale.

				06U-4			
		Micrometers		40–64 cm	64–88 cm	88–128 cm	128–150 cm
SAND	Very Coarse	2000	1680	0.00	0.02	0.00	0.00
		1680	1414	0.00	0.04	0.00	0.00
		1414	1189	0.00	0.05	0.00	0.00
		1189	1000	0.00	0.04	0.00	0.00
	Coarse	1000	841	0.00	0.05	0.00	0.00
		841	707	0.00	0.05	0.00	0.00
		707	595	0.00	0.06	0.06	0.00
		595	500	0.00	0.06	0.39	0.00
	Medium	500	420	0.00	0.07	0.50	0.00
		420	354	0.00	0.06	0.46	0.00
		354	297	0.00	0.24	0.55	0.00
		297	250	0.10	0.85	1.02	0.00
	Fine	250	210	0.97	1.98	2.10	1.26
		210	177	2.66	3.53	3.69	3.45
		177	149	4.51	5.51	5.74	5.50
		149	125	6.54	7.64	7.94	7.67
	Very Fine	125	105	8.11	9.19	9.45	9.17
		105	88	9.15	10.10	10.23	9.97
		88	74	9.05	9.70	9.64	9.46
		74	63	7.78	8.07	7.84	7.79
SILT	Coarse	63	53	7.19	7.13	6.75	6.84
		53	44	6.16	5.73	5.24	5.51
		44	37	4.36	3.73	3.30	3.65
		37	31.2	3.27	2.54	2.20	2.60
	Medium	31.2	26.3	2.58	1.85	1.63	2.01
		26.3	22.1	2.20	1.52	1.42	1.75
		22.1	18.6	1.96	1.37	1.39	1.63
		18.6	15.6	1.88	1.36	1.48	1.63
	Fine	15.6	13.1	1.78	1.34	1.51	1.58
		13.1	11	1.70	1.30	1.51	1.53
		11	9.3	1.55	1.20	1.39	1.40
		9.3	7.8	1.54	1.19	1.37	1.39
	Very Fine	7.8	6.6	1.38	1.08	1.20	1.25
		6.6	5.5	1.44	1.13	1.21	1.32
		5.5	4.6	1.35	1.07	1.10	1.25
		4.6	3.9	1.19	0.97	0.94	1.12
CLAY	Coarse	3.9	3.3	1.15	0.95	0.89	1.10
		3.3	2.8	1.07	0.90	0.80	1.03
		2.8	2.3	1.19	1.01	0.87	1.15
		2.3	1.95	0.90	0.78	0.64	0.88
	Medium	1.95	1.64	0.86	0.74	0.60	0.84
		1.64	1.38	0.77	0.66	0.52	0.75
		1.38	1.16	0.71	0.61	0.47	0.68
		1.16	0.98	0.64	0.54	0.43	0.61
	Fine	0.98	0.82	0.63	0.53	0.42	0.60
		0.82	0.69	0.55	0.47	0.38	0.53
		0.69	0.58	0.48	0.41	0.32	0.46
		0.58	0.49	0.36	0.30	0.24	0.34
	Very Fine	<0.49		0.31	0.26	0.15	0.30

Table 9a-25. Particle size data for the 06U-5 trench-soil profile, Wentworth scale.

				06U-5				
		Micrometers		0–4 cm	4–10 cm	10–27 cm	27–39 cm	39–49 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.06	0.00	0.02
		595	500	0.00	0.00	0.20	0.00	0.22
	Medium	500	420	0.00	0.00	0.20	0.00	0.27
		420	354	0.00	0.00	0.16	0.00	0.28
		354	297	0.00	0.00	0.26	0.00	0.42
		297	250	0.00	0.00	0.65	0.23	0.85
	Fine	250	210	0.00	0.38	1.48	1.29	1.72
		210	177	1.50	2.30	2.66	2.72	2.96
		177	149	3.65	4.42	4.19	4.41	4.56
		149	125	5.90	6.66	5.93	6.26	6.35
	Very Fine	125	105	7.75	8.51	7.34	7.69	7.73
		105	88	9.18	9.92	8.43	8.70	8.72
		88	74	9.52	10.16	8.58	8.71	8.71
		74	63	8.58	9.05	7.66	7.64	7.61
SILT	Coarse	63	53	8.30	8.64	7.36	7.20	7.14
		53	44	7.41	7.56	6.54	6.28	6.19
		44	37	5.34	5.29	4.70	4.45	4.34
		37	31.2	3.90	3.72	3.44	3.25	3.14
	Medium	31.2	26.3	2.85	2.57	2.53	2.43	2.31
		26.3	22.1	2.15	1.81	1.95	1.93	1.82
		22.1	18.6	1.71	1.34	1.59	1.64	1.54
		18.6	15.6	1.55	1.16	1.49	1.57	1.47
	Fine	15.6	13.1	1.49	1.09	1.47	1.56	1.46
		13.1	11	1.50	1.09	1.50	1.58	1.48
		11	9.3	1.45	1.06	1.46	1.53	1.42
		9.3	7.8	1.50	1.09	1.53	1.59	1.47
	Very Fine	7.8	6.6	1.39	1.00	1.42	1.47	1.36
		6.6	5.5	1.44	1.04	1.49	1.54	1.42
		5.5	4.6	1.33	0.96	1.39	1.44	1.33
		4.6	3.9	1.15	0.84	1.22	1.27	1.17
CLAY	Coarse	3.9	3.3	1.08	0.81	1.17	1.22	1.12
		3.3	2.8	0.98	0.76	1.08	1.13	1.04
		2.8	2.3	1.08	0.87	1.21	1.27	1.16
		2.3	1.95	0.82	0.69	0.94	0.99	0.90
	Medium	1.95	1.64	0.79	0.69	0.92	0.96	0.87
		1.64	1.38	0.73	0.65	0.86	0.90	0.81
		1.38	1.16	0.70	0.64	0.83	0.86	0.78
		1.16	0.98	0.65	0.61	0.79	0.82	0.74
	Fine	0.98	0.82	0.67	0.64	0.81	0.84	0.76
		0.82	0.69	0.61	0.59	0.74	0.77	0.70
		0.69	0.58	0.54	0.53	0.67	0.69	0.63
		0.58	0.49	0.42	0.42	0.53	0.55	0.50
	Very Fine	<0.49		0.41	0.45	0.56	0.58	0.53

Table 9a-25. Particle size data for the 06U-5 trench-soil profile, Wentworth scale—Continued

				06U-5				
		Micrometers		49–61 cm	61–83 cm	83–103 cm	103–122 cm	122–132 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.07	0.00	0.00	0.00	0.00
		595	500	0.15	0.00	0.00	0.00	0.00
	Medium	500	420	0.13	0.00	0.00	0.00	0.00
		420	354	0.06	0.00	0.00	0.00	0.00
		354	297	0.11	0.00	0.00	0.00	0.00
		297	250	0.49	0.57	0.18	0.32	0.00
	Fine	250	210	1.39	2.35	2.18	2.71	0.12
		210	177	2.77	3.95	4.59	5.49	2.30
		177	149	4.60	5.77	7.02	8.23	5.55
		149	125	6.66	7.63	9.39	10.57	8.89
	Very Fine	125	105	8.30	8.86	10.81	11.61	11.18
		105	88	9.45	9.56	11.33	11.62	12.27
		88	74	9.45	9.16	10.35	10.13	11.43
		74	63	8.22	7.71	8.17	7.64	9.00
SILT	Coarse	63	53	7.67	7.01	6.79	6.04	7.32
		53	44	6.58	5.89	5.02	4.20	5.15
		44	37	4.57	4.06	2.94	2.28	2.74
		37	31.2	3.27	2.93	1.78	1.29	1.44
	Medium	31.2	26.3	2.38	2.20	1.19	0.85	0.85
		26.3	22.1	1.85	1.78	0.99	0.77	0.76
		22.1	18.6	1.52	1.53	0.98	0.85	0.91
		18.6	15.6	1.41	1.45	1.07	0.98	1.16
	Fine	15.6	13.1	1.35	1.38	1.11	1.04	1.32
		13.1	11	1.33	1.32	1.11	1.04	1.38
		11	9.3	1.24	1.21	1.01	0.94	1.30
		9.3	7.8	1.25	1.20	0.99	0.92	1.28
	Very Fine	7.8	6.6	1.14	1.07	0.87	0.81	1.13
		6.6	5.5	1.18	1.10	0.90	0.84	1.16
		5.5	4.6	1.10	1.01	0.85	0.81	1.09
		4.6	3.9	0.97	0.89	0.77	0.74	0.98
CLAY	Coarse	3.9	3.3	0.93	0.86	0.76	0.74	0.97
		3.3	2.8	0.87	0.80	0.73	0.71	0.92
		2.8	2.3	0.99	0.90	0.83	0.81	1.05
		2.3	1.95	0.78	0.70	0.65	0.64	0.82
	Medium	1.95	1.64	0.76	0.69	0.64	0.62	0.80
		1.64	1.38	0.72	0.65	0.60	0.58	0.74
		1.38	1.16	0.70	0.63	0.58	0.55	0.70
		1.16	0.98	0.67	0.60	0.55	0.52	0.66
	Fine	0.98	0.82	0.70	0.63	0.56	0.53	0.67
		0.82	0.69	0.65	0.58	0.51	0.48	0.60
		0.69	0.58	0.59	0.52	0.46	0.43	0.54
		0.58	0.49	0.47	0.41	0.36	0.34	0.42
	Very Fine	<0.49		0.50	0.43	0.37	0.34	0.41

Table 9a-26. Particle size data for the 06U-6 trench-soil profile, Wentworth scale.

				06U-6		
		Micrometers		0–6 cm	6–25 cm	25–54 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.01
		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	0.02	0.00
		595	500	0.00	0.29	0.00
	Medium	500	420	0.00	0.33	0.00
		420	354	0.00	0.26	0.00
		354	297	0.00	0.26	0.00
		297	250	0.00	0.50	0.12
	Fine	250	210	0.09	1.13	1.21
		210	177	1.64	2.11	2.57
		177	149	3.71	3.46	4.07
		149	125	5.77	5.05	5.75
	Very Fine	125	105	7.35	6.42	7.15
		105	88	8.54	7.55	8.25
		88	74	8.78	7.87	8.47
		74	63	7.91	7.20	7.61
SILT	Coarse	63	53	7.68	7.11	7.37
		53	44	6.90	6.52	6.60
		44	37	5.03	4.86	4.78
		37	31.2	3.74	3.71	3.53
	Medium	31.2	26.3	2.81	2.85	2.62
		26.3	22.1	2.23	2.28	2.05
		22.1	18.6	1.87	1.90	1.71
		18.6	15.6	1.79	1.78	1.62
	Fine	15.6	13.1	1.77	1.73	1.60
		13.1	11	1.80	1.75	1.64
		11	9.3	1.74	1.70	1.60
		9.3	7.8	1.79	1.77	1.67
	Very Fine	7.8	6.6	1.63	1.65	1.55
		6.6	5.5	1.68	1.74	1.64
		5.5	4.6	1.53	1.63	1.53
		4.6	3.9	1.31	1.44	1.34
CLAY	Coarse	3.9	3.3	1.23	1.38	1.29
		3.3	2.8	1.12	1.28	1.20
		2.8	2.3	1.24	1.44	1.34
		2.3	1.95	0.95	1.12	1.04
	Medium	1.95	1.64	0.92	1.09	1.01
		1.64	1.38	0.85	1.02	0.94
		1.38	1.16	0.81	0.98	0.89
		1.16	0.98	0.76	0.93	0.84
	Fine	0.98	0.82	0.77	0.95	0.85
		0.82	0.69	0.69	0.87	0.77
		0.69	0.58	0.61	0.78	0.69
		0.58	0.49	0.47	0.62	0.54
	Very Fine	<0.49		0.44	0.65	0.55

Table 9a-27. Particle size data for the 06U-7 trench-soil profile, Wentworth scale.

				06U-7				
		Micrometers		0-4 cm	4-13 cm	13-27 cm	27-52 cm	52-71 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.00	0.00	0.00
		420	354	0.00	0.00	0.00	0.00	0.00
		354	297	0.00	0.00	0.01	0.00	0.00
		297	250	0.00	0.00	0.16	0.00	0.08
	Fine	250	210	0.54	0.00	1.16	0.00	1.23
		210	177	2.41	0.43	2.70	0.38	2.96
		177	149	5.18	3.27	4.45	3.40	4.60
		149	125	8.78	6.60	6.32	6.09	6.30
	Very Fine	125	105	12.05	9.31	7.73	7.73	7.54
		105	88	14.35	11.21	8.70	8.55	8.40
		88	74	14.22	11.54	8.65	8.32	8.37
		74	63	11.57	10.21	7.53	7.20	7.37
SILT	Coarse	63	53	9.34	9.59	7.04	6.86	7.03
		53	44	6.11	8.18	6.07	6.23	6.25
		44	37	2.69	5.52	4.23	4.73	4.54
		37	31.2	0.91	3.68	3.02	3.74	3.40
	Medium	31.2	26.3	0.16	2.36	2.22	3.01	2.59
		26.3	22.1	0.00	1.51	1.77	2.51	2.07
		22.1	18.6	0.08	1.02	1.54	2.12	1.74
		18.6	15.6	0.41	0.87	1.54	1.96	1.65
	Fine	15.6	13.1	0.76	0.85	1.59	1.85	1.61
		13.1	11	0.98	0.90	1.66	1.82	1.63
		11	9.3	1.00	0.91	1.63	1.75	1.58
		9.3	7.8	0.98	0.96	1.70	1.83	1.65
	Very Fine	7.8	6.6	0.82	0.89	1.58	1.72	1.54
		6.6	5.5	0.77	0.92	1.67	1.84	1.63
		5.5	4.6	0.65	0.85	1.57	1.73	1.53
		4.6	3.9	0.54	0.74	1.38	1.53	1.34
CLAY	Coarse	3.9	3.3	0.52	0.72	1.33	1.46	1.28
		3.3	2.8	0.48	0.68	1.23	1.35	1.18
		2.8	2.3	0.55	0.79	1.38	1.50	1.30
		2.3	1.95	0.43	0.63	1.07	1.15	1.00
	Medium	1.95	1.64	0.42	0.64	1.04	1.11	0.97
		1.64	1.38	0.38	0.61	0.97	1.03	0.89
		1.38	1.16	0.36	0.60	0.92	0.97	0.84
		1.16	0.98	0.33	0.58	0.87	0.91	0.78
	Fine	0.98	0.82	0.33	0.60	0.88	0.92	0.79
		0.82	0.69	0.29	0.55	0.80	0.83	0.72
		0.69	0.58	0.25	0.49	0.72	0.73	0.64
		0.58	0.49	0.19	0.39	0.57	0.57	0.49
	Very Fine	<0.49		0.18	0.40	0.59	0.55	0.48

Table 9a-27. Particle size data for the 06U-7 trench-soil profile, Wentworth scale—Continued

		06U-7					
		Micrometers		71–101 cm	101–116 cm	116–135 cm	135–190 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.03
		595	500	0.00	0.00	0.00	0.13
	Medium	500	420	0.00	0.00	0.00	0.20
		420	354	0.00	0.04	0.00	0.36
		354	297	0.00	0.48	0.00	1.28
		297	250	0.00	1.61	0.24	2.69
	Fine	250	210	0.49	3.01	1.90	4.24
		210	177	2.39	4.75	3.90	5.74
		177	149	4.24	6.73	6.03	7.30
		149	125	5.83	8.66	8.29	8.61
	Very Fine	125	105	6.85	9.80	9.88	9.06
		105	88	7.55	10.29	10.79	8.91
		88	74	7.55	9.54	10.34	7.77
		74	63	6.78	7.73	8.60	5.94
SILT	Coarse	63	53	6.71	6.67	7.59	4.86
		53	44	6.28	5.20	6.04	3.61
		44	37	4.86	3.23	3.81	2.21
		37	31.2	3.87	2.04	2.44	1.50
	Medium	31.2	26.3	3.10	1.33	1.60	1.19
		26.3	22.1	2.54	0.99	1.18	1.15
		22.1	18.6	2.12	0.87	1.02	1.20
		18.6	15.6	1.93	0.91	1.04	1.31
	Fine	15.6	13.1	1.81	0.96	1.07	1.37
		13.1	11	1.79	1.01	1.08	1.39
		11	9.3	1.72	0.98	1.02	1.32
		9.3	7.8	1.80	1.01	1.02	1.37
	Very Fine	7.8	6.6	1.69	0.93	0.91	1.29
		6.6	5.5	1.80	0.99	0.94	1.40
		5.5	4.6	1.70	0.95	0.88	1.37
		4.6	3.9	1.50	0.85	0.78	1.25
CLAY	Coarse	3.9	3.3	1.44	0.84	0.77	1.23
		3.3	2.8	1.34	0.80	0.73	1.15
		2.8	2.3	1.49	0.92	0.83	1.28
		2.3	1.95	1.15	0.72	0.66	0.96
	Medium	1.95	1.64	1.11	0.71	0.64	0.90
		1.64	1.38	1.03	0.67	0.60	0.79
		1.38	1.16	0.98	0.64	0.58	0.71
		1.16	0.98	0.91	0.61	0.55	0.64
	Fine	0.98	0.82	0.93	0.62	0.56	0.62
		0.82	0.69	0.84	0.57	0.51	0.54
		0.69	0.58	0.75	0.51	0.46	0.47
		0.58	0.49	0.58	0.41	0.36	0.35
	Very Fine	<0.49		0.56	0.43	0.36	0.30

Table 9a-28. Particle size data for the 06U-8 trench-soil profile, Wentworth scale.

				06U-8					
		Micrometers		0–3 cm	3–8 cm	8–15 cm	15–33 cm	33–57 cm	57–69 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	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
	Medium	500	420	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
		354	297	0.00	0.00	0.00	0.00	0.00	0.00
		297	250	0.00	0.00	0.00	0.00	0.00	0.00
	Fine	250	210	0.10	0.07	0.00	0.89	1.01	0.59
		210	177	1.02	2.16	1.77	3.18	3.17	2.85
		177	149	3.18	5.11	4.20	5.52	5.32	5.31
		149	125	6.79	8.35	6.72	8.08	7.64	7.89
	Very Fine	125	105	11.15	11.20	8.91	10.13	9.42	9.92
		105	88	15.32	13.33	10.62	11.58	10.60	11.29
		88	74	16.84	13.53	10.96	11.54	10.43	11.18
		74	63	14.57	11.59	9.72	9.91	8.91	9.55
SILT	Coarse	63	53	12.02	10.24	9.11	8.96	8.10	8.63
		53	44	7.69	7.81	7.70	7.22	6.72	7.03
		44	37	3.13	4.38	5.10	4.48	4.48	4.53
		37	31.2	0.91	2.18	3.33	2.68	3.06	2.94
	Medium	31.2	26.3	0.12	0.84	2.11	1.49	2.14	1.91
		26.3	22.1	0.00	0.23	1.39	0.84	1.63	1.34
		22.1	18.6	0.00	0.08	1.04	0.58	1.36	1.07
		18.6	15.6	0.13	0.18	0.99	0.60	1.28	1.02
	Fine	15.6	13.1	0.42	0.45	1.04	0.70	1.24	1.00
		13.1	11	0.63	0.70	1.12	0.81	1.20	0.99
		11	9.3	0.67	0.79	1.11	0.82	1.09	0.91
		9.3	7.8	0.67	0.83	1.15	0.85	1.05	0.88
	Very Fine	7.8	6.6	0.54	0.70	1.04	0.76	0.91	0.76
		6.6	5.5	0.47	0.64	1.07	0.76	0.91	0.76
		5.5	4.6	0.37	0.52	0.97	0.69	0.83	0.70
		4.6	3.9	0.29	0.41	0.84	0.60	0.72	0.62
CLAY	Coarse	3.9	3.3	0.27	0.38	0.81	0.59	0.69	0.61
		3.3	2.8	0.26	0.35	0.76	0.56	0.65	0.59
		2.8	2.3	0.31	0.40	0.86	0.65	0.74	0.68
		2.3	1.95	0.25	0.33	0.68	0.53	0.58	0.55
	Medium	1.95	1.64	0.26	0.33	0.67	0.53	0.58	0.55
		1.64	1.38	0.25	0.31	0.63	0.51	0.54	0.52
		1.38	1.16	0.24	0.30	0.61	0.49	0.52	0.50
		1.16	0.98	0.23	0.28	0.58	0.47	0.49	0.47
	Fine	0.98	0.82	0.24	0.28	0.59	0.49	0.50	0.48
		0.82	0.69	0.22	0.25	0.54	0.45	0.46	0.43
		0.69	0.58	0.19	0.21	0.48	0.40	0.41	0.38
		0.58	0.49	0.15	0.16	0.38	0.32	0.31	0.30
	Very Fine	<0.49		0.10	0.09	0.38	0.34	0.30	0.28

Table 9a-28. Particle size data for the 06U-8 trench-soil profile, Wentworth scale—Continued

				06U-8					
		Micrometers		69–80 cm	80–99 cm	99–120 cm	120–140 cm	140–154 cm	154–173 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	0.00	0.04	0.00	0.00	0.00	0.00
		595	500	0.00	0.10	0.00	0.00	0.07	0.00
	Medium	500	420	0.00	0.10	0.00	0.00	0.07	0.00
		420	354	0.00	0.09	0.00	0.00	0.05	0.00
		354	297	0.00	0.20	0.00	0.00	0.05	0.00
		297	250	0.10	0.68	0.00	0.00	0.07	0.19
	Fine	250	210	1.17	1.79	0.29	0.00	0.72	1.69
		210	177	3.04	3.30	2.15	0.12	1.69	3.42
		177	149	4.97	5.19	4.26	2.40	3.02	5.31
		149	125	7.09	7.24	6.41	4.98	4.62	7.24
	Very Fine	125	105	8.69	8.72	8.02	7.12	6.04	8.53
		105	88	9.71	9.59	9.13	8.67	7.20	9.21
		88	74	9.49	9.23	9.14	9.12	7.56	8.74
		74	63	8.05	7.71	8.00	8.33	6.93	7.25
SILT	Coarse	63	53	7.28	6.87	7.55	8.24	6.87	6.45
		53	44	6.03	5.60	6.63	7.63	6.39	5.30
		44	37	4.06	3.72	4.79	5.83	4.93	3.62
		37	31.2	2.86	2.61	3.60	4.61	3.98	2.65
	Medium	31.2	26.3	2.13	1.97	2.79	3.67	3.33	2.12
		26.3	22.1	1.77	1.67	2.28	3.00	2.95	1.89
		22.1	18.6	1.59	1.53	1.93	2.45	2.68	1.79
		18.6	15.6	1.58	1.54	1.78	2.13	2.63	1.81
	Fine	15.6	13.1	1.55	1.52	1.65	1.87	2.58	1.79
		13.1	11	1.52	1.49	1.57	1.70	2.55	1.76
		11	9.3	1.39	1.37	1.43	1.51	2.40	1.63
		9.3	7.8	1.38	1.36	1.41	1.47	2.42	1.63
	Very Fine	7.8	6.6	1.22	1.22	1.27	1.32	2.16	1.47
		6.6	5.5	1.26	1.27	1.32	1.35	2.17	1.54
		5.5	4.6	1.17	1.19	1.24	1.25	1.91	1.44
		4.6	3.9	1.04	1.06	1.10	1.09	1.57	1.27
CLAY	Coarse	3.9	3.3	1.02	1.04	1.07	1.04	1.40	1.23
		3.3	2.8	0.96	0.99	1.00	0.97	1.21	1.13
		2.8	2.3	1.10	1.12	1.14	1.08	1.25	1.25
		2.3	1.95	0.86	0.88	0.89	0.85	0.91	0.95
	Medium	1.95	1.64	0.85	0.86	0.88	0.84	0.84	0.90
		1.64	1.38	0.79	0.79	0.82	0.79	0.76	0.81
		1.38	1.16	0.75	0.75	0.79	0.77	0.72	0.75
		1.16	0.98	0.70	0.70	0.73	0.74	0.67	0.68
	Fine	0.98	0.82	0.71	0.71	0.75	0.76	0.69	0.67
		0.82	0.69	0.64	0.64	0.67	0.70	0.62	0.60
		0.69	0.58	0.57	0.58	0.59	0.62	0.54	0.52
		0.58	0.49	0.45	0.46	0.46	0.48	0.41	0.40
	Very Fine	<0.49		0.47	0.48	0.45	0.47	0.34	0.37

Table 9a-29. Particle size data for the 06U-9 trench-soil profile, Wentworth scale.

				06U-9			
		Micrometers		0–7 cm	7–13 cm	13–26 cm	26–32 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.02	0.00
		1189	1000	0.00	0.00	0.04	0.00
	Coarse	1000	841	0.00	0.00	0.06	0.00
		841	707	0.00	0.00	0.08	0.00
		707	595	0.00	0.00	0.08	0.00
		595	500	0.00	0.00	0.07	0.26
	Medium	500	420	0.00	0.00	0.03	0.40
		420	354	0.00	0.00	0.00	0.41
		354	297	0.00	0.00	0.01	0.53
		297	250	0.00	0.00	0.14	0.97
	Fine	250	210	1.05	0.00	1.21	1.92
		210	177	2.85	0.47	2.71	3.30
		177	149	4.95	3.37	4.69	5.11
		149	125	7.46	7.01	7.03	7.14
	Very Fine	125	105	9.62	9.66	9.01	8.68
		105	88	11.31	11.30	10.49	9.71
		88	74	11.62	11.29	10.68	9.54
		74	63	10.29	9.71	9.39	8.13
SILT	Coarse	63	53	9.63	8.88	8.75	7.38
		53	44	8.08	7.37	7.39	6.09
		44	37	5.25	4.86	4.92	4.04
		37	31.2	3.29	3.20	3.25	2.77
	Medium	31.2	26.3	1.90	2.07	2.10	1.96
		26.3	22.1	1.06	1.39	1.40	1.55
		22.1	18.6	0.65	1.03	1.03	1.35
		18.6	15.6	0.58	0.95	0.94	1.34
	Fine	15.6	13.1	0.65	0.97	0.95	1.34
		13.1	11	0.75	1.03	0.99	1.33
		11	9.3	0.78	1.02	0.97	1.24
		9.3	7.8	0.81	1.08	1.00	1.22
	Very Fine	7.8	6.6	0.73	1.01	0.90	1.08
		6.6	5.5	0.72	1.06	0.92	1.10
		5.5	4.6	0.63	1.00	0.84	1.01
		4.6	3.9	0.52	0.89	0.73	0.88
CLAY	Coarse	3.9	3.3	0.49	0.87	0.71	0.85
		3.3	2.8	0.46	0.83	0.66	0.80
		2.8	2.3	0.52	0.95	0.76	0.90
		2.3	1.95	0.42	0.77	0.60	0.71
	Medium	1.95	1.64	0.42	0.77	0.60	0.69
		1.64	1.38	0.40	0.74	0.56	0.64
		1.38	1.16	0.39	0.73	0.55	0.62
		1.16	0.98	0.37	0.70	0.52	0.58
	Fine	0.98	0.82	0.38	0.73	0.54	0.59
		0.82	0.69	0.34	0.68	0.50	0.54
		0.69	0.58	0.30	0.61	0.45	0.49
		0.58	0.49	0.23	0.49	0.35	0.38
	Very Fine	<0.49		0.14	0.54	0.37	0.40

Table 9a-29. Particle size data for the 06U-9 trench-soil profile, Wentworth scale—Continued

				06U-9			
		Micrometers		32–65 cm	65–85 cm	85–132 cm	132–150 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.05
	Medium	500	420	0.00	0.00	0.00	0.06
		420	354	0.00	0.00	0.00	0.04
		354	297	0.00	0.00	0.00	0.04
		297	250	0.00	0.00	0.00	0.09
	Fine	250	210	0.06	0.87	0.47	0.65
		210	177	1.92	2.99	2.68	1.66
		177	149	4.64	5.22	5.09	2.93
		149	125	7.48	7.63	7.40	4.39
	Very Fine	125	105	9.63	9.50	8.90	5.66
		105	88	10.99	10.74	9.68	6.69
		88	74	10.78	10.58	9.22	6.99
		74	63	9.09	9.01	7.67	6.42
SILT	Coarse	63	53	8.09	8.14	6.86	6.45
		53	44	6.52	6.67	5.69	6.21
		44	37	4.21	4.36	3.92	5.08
		37	31.2	2.82	2.91	2.90	4.46
	Medium	31.2	26.3	1.99	1.99	2.30	4.10
		26.3	22.1	1.59	1.49	2.01	3.94
		22.1	18.6	1.41	1.25	1.83	3.75
		18.6	15.6	1.41	1.20	1.79	3.68
	Fine	15.6	13.1	1.40	1.18	1.71	3.47
		13.1	11	1.37	1.15	1.63	3.22
		11	9.3	1.24	1.06	1.48	2.80
		9.3	7.8	1.21	1.04	1.45	2.59
	Very Fine	7.8	6.6	1.06	0.92	1.29	2.13
		6.6	5.5	1.07	0.93	1.34	1.99
		5.5	4.6	0.98	0.86	1.26	1.64
		4.6	3.9	0.87	0.76	1.12	1.28
CLAY	Coarse	3.9	3.3	0.85	0.75	1.09	1.10
		3.3	2.8	0.80	0.71	1.03	0.92
		2.8	2.3	0.91	0.82	1.16	0.93
		2.3	1.95	0.72	0.65	0.91	0.66
	Medium	1.95	1.64	0.70	0.65	0.89	0.60
		1.64	1.38	0.65	0.61	0.82	0.53
		1.38	1.16	0.62	0.58	0.77	0.50
		1.16	0.98	0.58	0.55	0.72	0.47
	Fine	0.98	0.82	0.59	0.56	0.73	0.49
		0.82	0.69	0.53	0.51	0.66	0.45
		0.69	0.58	0.47	0.45	0.59	0.40
		0.58	0.49	0.37	0.35	0.46	0.30
	Very Fine	<0.49		0.37	0.35	0.47	0.18

Table 9a-30. Particle size data for the 06U-11 trench-soil profile, Wentworth scale.

				06U-11						
				0-4 cm	4-13 cm	13-25 cm	25-50 cm	50-70 cm	70-90 cm	90-119 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.04	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.08	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.15	0.00	0.00	0.00	0.01	0.14
		707	595	0.00	0.29	0.02	0.06	0.00	0.07	0.35
		595	500	0.00	0.44	0.05	0.27	0.00	0.16	0.92
	Medium	500	420	0.00	0.45	0.04	0.30	0.00	0.14	1.58
		420	354	0.00	0.39	0.03	0.26	0.00	0.13	2.27
		354	297	0.00	0.45	0.04	0.31	0.00	0.34	3.27
		297	250	0.00	0.75	0.12	0.61	0.04	0.80	4.47
	Fine	250	210	0.57	1.54	0.80	1.35	1.04	1.61	6.06
		210	177	3.09	2.80	2.33	2.49	2.58	2.76	7.48
		177	149	6.30	4.60	4.09	4.05	4.17	4.26	8.83
		149	125	9.99	6.81	6.03	5.88	5.97	5.94	9.75
	Very Fine	125	105	12.95	8.74	7.71	7.42	7.43	7.28	9.61
		105	88	14.71	10.27	9.00	8.60	8.50	8.28	8.83
		88	74	14.03	10.54	9.22	8.78	8.60	8.37	7.17
		74	63	11.10	9.32	8.19	7.79	7.61	7.45	5.11
SILT	Coarse	63	53	8.82	8.71	7.75	7.39	7.26	7.18	3.89
		53	44	5.75	7.29	6.70	6.43	6.45	6.48	2.70
		44	37	2.55	4.74	4.62	4.51	4.70	4.83	1.59
		37	31.2	0.87	3.00	3.23	3.23	3.56	3.75	1.09
	Medium	31.2	26.3	0.13	1.80	2.27	2.36	2.77	2.97	0.91
		26.3	22.1	0.00	1.11	1.71	1.85	2.28	2.47	0.90
		22.1	18.6	0.08	0.80	1.42	1.57	1.95	2.08	0.91
		18.6	15.6	0.42	0.78	1.39	1.53	1.83	1.88	0.92
	Fine	15.6	13.1	0.77	0.87	1.42	1.53	1.73	1.71	0.87
		13.1	11	0.96	0.96	1.48	1.56	1.67	1.59	0.80
		11	9.3	0.93	0.97	1.45	1.51	1.55	1.43	0.69
		9.3	7.8	0.84	1.00	1.51	1.55	1.56	1.40	0.66
	Very Fine	7.8	6.6	0.64	0.89	1.40	1.42	1.41	1.25	0.59
		6.6	5.5	0.53	0.90	1.48	1.48	1.47	1.28	0.62
		5.5	4.6	0.41	0.81	1.40	1.38	1.37	1.18	0.60
		4.6	3.9	0.33	0.70	1.25	1.22	1.20	1.03	0.55
CLAY	Coarse	3.9	3.3	0.32	0.67	1.22	1.18	1.16	0.99	0.55
		3.3	2.8	0.31	0.64	1.16	1.10	1.08	0.92	0.53
		2.8	2.3	0.37	0.73	1.32	1.25	1.22	1.03	0.60
		2.3	1.95	0.29	0.59	1.05	0.98	0.96	0.81	0.47
	Medium	1.95	1.64	0.29	0.59	1.03	0.96	0.94	0.80	0.46
		1.64	1.38	0.27	0.56	0.96	0.90	0.88	0.76	0.44
		1.38	1.16	0.25	0.55	0.91	0.86	0.85	0.74	0.43
		1.16	0.98	0.24	0.52	0.85	0.80	0.81	0.71	0.42
	Fine	0.98	0.82	0.24	0.54	0.85	0.82	0.83	0.75	0.44
		0.82	0.69	0.22	0.49	0.77	0.74	0.76	0.69	0.42
		0.69	0.58	0.19	0.44	0.68	0.66	0.69	0.63	0.39
		0.58	0.49	0.14	0.35	0.53	0.52	0.55	0.51	0.32
	Very Fine	<0.49		0.08	0.36	0.54	0.54	0.57	0.57	0.42

Table 9a-31. Particle size data for the 06U-12 trench-soil profile, Wentworth scale.

				06U-12						
				0-7 cm	7-17 cm	17-33 cm	33-47 cm	47-77 cm	77-94 cm	94-109 cm
SAND	Very Coarse	2000	1680	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
		1414	1189	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
	Coarse	1000	841	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
		707	595	0.00	0.00	0.00	0.00	0.00	0.00	0.15
		595	500	0.00	0.00	0.00	0.00	0.00	0.00	0.66
	Medium	500	420	0.00	0.00	0.00	0.00	0.00	0.00	1.06
		420	354	0.00	0.00	0.00	0.00	0.00	0.00	1.48
		354	297	0.00	0.00	0.00	0.00	0.00	0.00	2.18
		297	250	0.14	0.00	0.00	0.11	0.00	0.00	3.15
	Fine	250	210	1.15	0.12	0.00	0.81	0.55	0.00	4.61
		210	177	2.60	1.71	1.49	1.95	2.30	1.80	6.15
		177	149	4.48	3.68	3.72	3.43	4.11	4.24	7.80
		149	125	6.72	5.73	6.10	5.21	5.83	6.78	9.20
	Very Fine	125	105	8.66	7.50	8.12	6.79	7.03	8.71	9.64
		105	88	10.22	8.95	9.67	8.06	7.83	9.95	9.40
		88	74	10.57	9.36	10.00	8.42	7.77	9.84	8.09
		74	63	9.47	8.48	8.92	7.63	6.84	8.42	6.09
SILT	Coarse	63	53	9.03	8.21	8.46	7.43	6.55	7.71	4.89
		53	44	7.83	7.28	7.28	6.68	5.92	6.51	3.57
		44	37	5.38	5.18	4.98	4.88	4.43	4.52	2.17
		37	31.2	3.67	3.73	3.40	3.66	3.47	3.31	1.48
	Medium	31.2	26.3	2.43	2.69	2.29	2.79	2.80	2.54	1.18
		26.3	22.1	1.65	2.04	1.61	2.25	2.38	2.12	1.11
		22.1	18.6	1.21	1.66	1.24	1.90	2.08	1.85	1.10
		18.6	15.6	1.08	1.55	1.15	1.80	1.97	1.75	1.13
	Fine	15.6	13.1	1.07	1.52	1.16	1.76	1.88	1.64	1.09
		13.1	11	1.11	1.53	1.21	1.76	1.84	1.54	1.03
		11	9.3	1.08	1.46	1.20	1.69	1.74	1.38	0.91
		9.3	7.8	1.10	1.49	1.26	1.74	1.79	1.34	0.87
	Very Fine	7.8	6.6	0.98	1.36	1.18	1.61	1.67	1.18	0.78
		6.6	5.5	0.97	1.41	1.26	1.69	1.78	1.21	0.81
		5.5	4.6	0.85	1.32	1.22	1.59	1.69	1.12	0.77
		4.6	3.9	0.71	1.17	1.12	1.41	1.52	0.99	0.70
CLAY	Coarse	3.9	3.3	0.66	1.15	1.13	1.36	1.48	0.96	0.69
		3.3	2.8	0.60	1.09	1.10	1.28	1.39	0.90	0.65
		2.8	2.3	0.66	1.25	1.30	1.44	1.57	1.01	0.73
		2.3	1.95	0.51	0.99	1.05	1.13	1.23	0.80	0.57
	Medium	1.95	1.64	0.50	0.97	1.04	1.10	1.20	0.79	0.56
		1.64	1.38	0.47	0.89	0.98	1.02	1.12	0.74	0.52
		1.38	1.16	0.45	0.84	0.93	0.98	1.07	0.73	0.50
		1.16	0.98	0.42	0.77	0.87	0.91	1.00	0.69	0.47
	Fine	0.98	0.82	0.43	0.77	0.88	0.93	1.02	0.72	0.49
		0.82	0.69	0.38	0.68	0.79	0.84	0.93	0.66	0.45
		0.69	0.58	0.33	0.60	0.70	0.75	0.83	0.60	0.41
		0.58	0.49	0.26	0.46	0.56	0.60	0.66	0.47	0.33
	Very Fine	<0.49		0.19	0.44	0.63	0.61	0.71	0.48	0.36

Table 9a-32. Particle size data for the 06U-13 trench-soil profile, Wentworth scale.

		06U-13						
		Micrometers		0–4 cm	4–12 cm	12–28 cm	28–42 cm	42–68 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00	0.00
		707	595	0.00	0.06	0.00	0.02	0.00
		595	500	0.00	0.13	0.08	0.17	0.00
	Medium	500	420	0.00	0.14	0.10	0.22	0.00
		420	354	0.00	0.11	0.07	0.16	0.00
		354	297	0.00	0.11	0.03	0.10	0.00
		297	250	0.00	0.18	0.04	0.17	0.00
	Fine	250	210	0.07	0.54	0.17	0.50	0.31
		210	177	1.17	1.20	0.74	1.11	1.54
		177	149	2.63	2.13	1.69	2.06	2.87
		149	125	4.20	3.29	2.90	3.29	4.25
	Very Fine	125	105	5.66	4.43	4.10	4.46	5.27
		105	88	6.97	5.53	5.20	5.50	5.92
		88	74	7.57	6.15	5.73	5.95	5.84
		74	63	7.19	6.00	5.47	5.60	5.07
SILT	Coarse	63	53	7.39	6.36	5.62	5.68	4.82
		53	44	7.13	6.35	5.43	5.38	4.38
		44	37	5.64	5.19	4.36	4.20	3.40
		37	31.2	4.59	4.34	3.69	3.40	2.85
	Medium	31.2	26.3	3.76	3.62	3.26	2.83	2.53
		26.3	22.1	3.18	3.08	3.09	2.49	2.40
		22.1	18.6	2.72	2.64	3.01	2.28	2.31
		18.6	15.6	2.52	2.45	3.16	2.30	2.37
	Fine	15.6	13.1	2.39	2.35	3.28	2.38	2.43
		13.1	11	2.33	2.36	3.41	2.53	2.53
		11	9.3	2.19	2.32	3.33	2.60	2.54
		9.3	7.8	2.22	2.49	3.47	2.88	2.79
	Very Fine	7.8	6.6	2.01	2.40	3.20	2.86	2.75
		6.6	5.5	2.05	2.61	3.31	3.19	3.09
		5.5	4.6	1.85	2.52	3.02	3.12	3.06
		4.6	3.9	1.55	2.25	2.56	2.82	2.81
CLAY	Coarse	3.9	3.3	1.42	2.17	2.37	2.74	2.76
		3.3	2.8	1.26	2.00	2.11	2.53	2.59
		2.8	2.3	1.34	2.20	2.25	2.75	2.88
		2.3	1.95	1.00	1.67	1.66	2.05	2.19
	Medium	1.95	1.64	0.94	1.56	1.52	1.89	2.06
		1.64	1.38	0.85	1.38	1.31	1.63	1.82
		1.38	1.16	0.79	1.24	1.16	1.43	1.63
		1.16	0.98	0.73	1.08	1.01	1.22	1.42
	Fine	0.98	0.82	0.73	1.03	0.96	1.13	1.35
		0.82	0.69	0.65	0.87	0.80	0.92	1.14
		0.69	0.58	0.56	0.71	0.64	0.73	0.94
		0.58	0.49	0.42	0.49	0.43	0.48	0.66
	Very Fine	<0.49		0.34	0.26	0.22	0.26	0.43

Table 9a-33. Particle size data for the 06U-14 trench-soil profile, Wentworth scale.

				06U-14			
		Micrometers		0-4 cm	4-12 cm	12-20 cm	20-37 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.13	0.00
		595	500	0.00	0.00	0.32	0.00
	Medium	500	420	0.00	0.00	0.33	0.00
		420	354	0.00	0.00	0.27	0.00
		354	297	0.00	0.00	0.22	0.00
		297	250	0.00	0.00	0.30	0.00
	Fine	250	210	0.00	0.24	0.65	0.00
		210	177	0.60	1.05	1.28	0.65
		177	149	1.68	1.99	2.21	1.79
		149	125	2.88	3.06	3.37	2.98
	Very Fine	125	105	4.07	4.11	4.45	4.08
		105	88	5.27	5.14	5.43	5.07
		88	74	6.04	5.75	5.89	5.57
		74	63	6.06	5.67	5.62	5.37
SILT	Coarse	63	53	6.59	6.12	5.84	5.66
		53	44	6.78	6.25	5.74	5.65
		44	37	5.72	5.25	4.65	4.68
		37	31.2	4.93	4.51	3.90	4.02
	Medium	31.2	26.3	4.25	3.86	3.33	3.50
		26.3	22.1	3.73	3.37	2.95	3.14
		22.1	18.6	3.26	2.92	2.65	2.84
		18.6	15.6	3.05	2.71	2.58	2.76
	Fine	15.6	13.1	2.88	2.57	2.55	2.71
		13.1	11	2.82	2.53	2.58	2.73
		11	9.3	2.68	2.45	2.52	2.67
		9.3	7.8	2.77	2.59	2.66	2.84
	Very Fine	7.8	6.6	2.56	2.47	2.51	2.71
		6.6	5.5	2.68	2.67	2.68	2.94
		5.5	4.6	2.48	2.56	2.53	2.82
		4.6	3.9	2.13	2.29	2.23	2.52
CLAY	Coarse	3.9	3.3	1.98	2.21	2.13	2.44
		3.3	2.8	1.77	2.05	1.96	2.27
		2.8	2.3	1.89	2.27	2.16	2.52
		2.3	1.95	1.39	1.74	1.65	1.93
	Medium	1.95	1.64	1.28	1.65	1.57	1.84
		1.64	1.38	1.12	1.48	1.42	1.66
		1.38	1.16	1.00	1.34	1.31	1.53
		1.16	0.98	0.88	1.19	1.19	1.37
	Fine	0.98	0.82	0.84	1.15	1.17	1.33
		0.82	0.69	0.72	0.98	1.02	1.15
		0.69	0.58	0.59	0.82	0.88	0.98
		0.58	0.49	0.42	0.59	0.65	0.71
	Very Fine	<0.49		0.21	0.42	0.55	0.57

Table 9a-33. Particle size data for the 06U-14 trench-soil profile, Wentworth scale—Continued

				06U-14			
		Micrometers		37–67 cm	67–86 cm	86–98 cm	98–110 cm
SAND	Very Coarse	2000	1680	0.00	0.00	0.00	0.00
		1680	1414	0.00	0.00	0.00	0.00
		1414	1189	0.00	0.00	0.00	0.00
		1189	1000	0.00	0.00	0.00	0.00
	Coarse	1000	841	0.00	0.00	0.00	0.00
		841	707	0.00	0.00	0.00	0.00
		707	595	0.00	0.00	0.00	0.00
		595	500	0.00	0.00	0.00	0.00
	Medium	500	420	0.00	0.00	0.03	0.00
		420	354	0.00	0.00	0.35	0.00
		354	297	0.00	0.00	1.34	0.00
		297	250	0.00	0.34	2.15	1.12
	Fine	250	210	0.00	1.23	3.31	4.29
		210	177	0.01	2.15	4.51	7.02
		177	149	2.02	3.18	5.75	9.84
		149	125	4.61	4.16	6.79	12.06
	Very Fine	125	105	6.69	4.73	7.13	12.63
		105	88	7.92	4.99	6.99	11.91
		88	74	7.95	4.74	6.13	9.62
		74	63	6.91	4.09	4.80	6.58
SILT	Coarse	63	53	6.55	4.00	4.17	4.57
		53	44	5.92	3.94	3.57	2.64
		44	37	4.56	3.48	2.77	1.14
		37	31.2	3.77	3.36	2.49	0.59
	Medium	31.2	26.3	3.24	3.39	2.43	0.54
		26.3	22.1	2.91	3.50	2.50	0.73
		22.1	18.6	2.61	3.50	2.48	0.93
		18.6	15.6	2.47	3.56	2.48	1.07
	Fine	15.6	13.1	2.32	3.48	2.36	1.07
		13.1	11	2.24	3.39	2.21	0.99
		11	9.3	2.10	3.16	1.99	0.84
		9.3	7.8	2.17	3.18	1.95	0.79
	Very Fine	7.8	6.6	2.04	2.90	1.75	0.69
		6.6	5.5	2.19	3.01	1.82	0.74
		5.5	4.6	2.09	2.78	1.69	0.72
		4.6	3.9	1.86	2.39	1.49	0.67
CLAY	Coarse	3.9	3.3	1.79	2.24	1.42	0.67
		3.3	2.8	1.64	2.00	1.30	0.64
		2.8	2.3	1.81	2.14	1.43	0.72
		2.3	1.95	1.37	1.59	1.09	0.55
	Medium	1.95	1.64	1.31	1.48	1.04	0.53
		1.64	1.38	1.18	1.32	0.95	0.48
		1.38	1.16	1.10	1.23	0.91	0.45
		1.16	0.98	1.00	1.13	0.86	0.42
	Fine	0.98	0.82	0.99	1.13	0.88	0.43
		0.82	0.69	0.87	1.00	0.81	0.39
		0.69	0.58	0.75	0.87	0.73	0.35
		0.58	0.49	0.56	0.65	0.58	0.28
	Very Fine	<0.49		0.46	0.57	0.60	0.28

Table 9b-1. Particle size data for the 06U-3 trench-soil profile, U.S.D.A. scale; GF=gravel facies.

				06U-3								
		Micrometers		0-7 cm	7-15 cm	15-29 cm	29-55 cm	55-78 cm	78-95 cm	78-95GF cm	95-137 cm	137-186 cm
SAND	Very Coarse	2000	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	500	0.00	0.24	0.10	0.54	0.26	0.00	0.69	0.25	0.00
	Medium	500	250	0.00	1.32	0.82	3.91	1.51	0.00	2.62	1.91	0.11
	Fine	250	100	31.94	28.35	29.32	29.23	29.37	29.82	33.28	32.91	35.05
	Very Fine	100	50	40.26	35.67	35.52	30.32	32.35	37.69	34.65	34.61	34.42
SILT	Coarse	50	20	14.27	16.29	16.33	13.71	14.10	13.68	11.56	12.88	12.01
	Medium	20	10	3.53	5.09	5.04	5.66	5.90	4.78	4.43	4.59	4.94
	Fine	10	5	3.22	4.22	4.10	5.36	5.19	4.25	4.18	3.97	4.16
	Very Fine	5	2	3.23	4.12	4.33	6.20	5.87	4.91	4.58	4.54	4.60
CLAY	Coarse	2	1	1.85	2.35	2.33	2.96	3.02	2.66	2.29	2.42	2.49
	Medium	1	0.5	1.42	1.92	1.76	1.84	2.05	1.87	1.50	1.64	1.84
	Fine	<0.5		0.27	0.43	0.35	0.26	0.38	0.35	0.21	0.28	0.37

Table 9b-2. Particle size data for the 06U-4 trench-soil profile, U.S.D.A. scale.

			06U-4									
			Micrometers		0–4 cm	4–11 cm	11–17 cm	17–40 cm	40–64 cm	64–88 cm	88–128 cm	128–150 cm
SAND	Very Coarse	2000 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	
	Coarse	1000 500	0.72	0.00	0.00	0.00	0.00	0.00	0.22	0.45	0.00	
	Medium	500 250	2.76	0.25	0.00	0.00	0.10	1.21	2.53	0.00		
	Fine	250 100	31.24	29.72	22.01	26.17	25.25	30.60	31.72	29.78		
	Very Fine	100 50	38.62	36.80	39.56	34.02	32.80	34.25	33.51	33.24		
SILT	Coarse	50 20	15.08	15.53	16.26	16.84	17.62	14.16	12.74	14.55		
	Medium	20 10	2.79	4.44	6.00	6.46	7.05	5.26	5.89	6.22		
	Fine	10 5	2.89	4.02	5.16	5.43	5.75	4.48	4.97	5.23		
	Very Fine	5 2	2.87	4.38	5.41	5.67	6.00	5.00	4.56	5.74		
CLAY	Coarse	2 1	1.63	2.48	2.96	2.94	3.03	2.61	2.06	2.95		
	Medium	1 0.5	1.24	1.95	2.21	2.08	2.05	1.74	1.39	1.96		
	Fine	<0.5	0.16	0.43	0.45	0.39	0.35	0.30	0.17	0.34		

Table 9b-3. Particle size data for the 06U-5 trench-soil profile, U.S.D.A. scale.

				06U-5									
		Micrometers		0-4 cm	4-10 cm	10-27 cm	27-39 cm	39-49 cm	49-61 cm	61-83 cm	83-103 cm	103-122 cm	122-132 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	0.00	0.26	0.00	0.24	0.22	0.00	0.00	0.00	0.00
	Medium	500	250	0.00	0.00	1.27	0.23	1.81	0.78	0.57	0.18	0.32	0.00
	Fine	250	100	21.23	24.90	23.86	24.71	25.67	26.26	31.18	37.14	41.88	31.39
	Very Fine	100	50	35.65	37.69	31.99	32.05	31.94	34.50	32.85	35.31	33.71	38.56
SILT	Coarse	50	20	20.17	19.20	17.89	17.18	16.60	17.30	15.75	10.65	8.30	9.54
	Medium	20	10	6.04	4.47	5.93	6.26	5.85	5.43	5.47	4.29	3.98	5.00
	Fine	10	5	5.68	4.11	5.82	6.04	5.58	4.70	4.43	3.64	3.40	4.71
	Very Fine	5	2	5.59	4.31	6.13	6.40	5.86	4.92	4.51	4.04	3.93	5.13
CLAY	Coarse	2	1	2.92	2.62	3.44	3.60	3.25	2.90	2.60	2.40	2.31	2.95
	Medium	1	0.5	2.26	2.21	2.79	2.90	2.63	2.44	2.17	1.93	1.80	2.26
	Fine	<0.5		0.45	0.49	0.62	0.64	0.58	0.55	0.47	0.41	0.38	0.45

Table 9b-4. Particle size data for the 06U-6 trench-soil profile, U.S.D.A. scale.

				06U-6		
		Micrometers		0–6 cm	6–25 cm	25–54 cm
SAND	Very Coarse	2000	1000	0.00	0.00	0.00
	Coarse	1000	500	0.00	0.32	0.00
	Medium	500	250	0.00	1.36	0.12
	Fine	250	100	20.85	20.16	22.96
	Very Fine	100	50	32.95	29.90	31.72
SILT	Coarse	50	20	19.50	19.18	18.37
	Medium	20	10	7.12	7.00	6.46
	Fine	10	5	6.69	6.78	6.38
	Very Fine	5	2	6.42	7.24	6.75
CLAY	Coarse	2	1	3.40	4.08	3.73
	Medium	1	0.5	2.57	3.26	2.90
	Fine	<0.5		0.49	0.72	0.60

Table 9b-5. Particle size data for the 06U-7 trench-soil profile, U.S.D.A. scale.

				06U-7								
		Micrometers		0-4 cm	4-13 cm	13-27 cm	27-52 cm	52-71 cm	71-101 cm	101-116 cm	116-135 cm	135-190 cm
SAND	Very Coarse	2000	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
	Medium	500	250	0.00	0.00	0.17	0.00	0.08	0.00	2.13	0.24	4.52
	Fine	250	100	32.77	22.57	24.71	19.93	24.89	21.85	35.79	32.95	37.47
	Very Fine	100	50	47.99	42.40	31.66	30.69	31.01	28.63	33.23	36.50	26.25
SILT	Coarse	50	20	7.56	19.07	16.13	19.40	17.78	19.84	11.45	13.54	9.05
	Medium	20	10	2.78	3.53	6.35	7.49	6.50	7.36	3.79	4.20	5.33
	Fine	10	5	3.36	3.62	6.50	7.08	6.33	6.94	3.86	3.77	5.37
	Very Fine	5	2	2.75	3.86	6.96	7.62	6.66	7.53	4.47	4.08	6.38
CLAY	Coarse	2	1	1.51	2.46	3.86	4.09	3.54	4.10	2.66	2.41	3.10
	Medium	1	0.5	1.09	2.05	3.01	3.09	2.68	3.15	2.15	1.91	2.02
	Fine	<0.5		0.20	0.44	0.65	0.61	0.53	0.62	0.48	0.40	0.34

Table 9b-6. Particle size data for the 06U-8 trench-soil profile, U.S.D.A. scale.

				06U-8					
		Micrometers		0–3 cm	3–8 cm	8–15 cm	15–33 cm	33–57 cm	57–69 cm
SAND	Very Coarse	2000	1000	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	500	0.00	0.00	0.00	0.00	0.00	0.00
	Medium	500	250	0.00	0.00	0.00	0.00	0.00	0.00
	Fine	250	100	26.14	30.44	24.42	30.91	29.43	29.60
	Very Fine	100	50	57.84	47.96	40.26	41.41	37.51	40.07
SILT	Coarse	50	20	8.86	12.68	17.59	14.52	16.51	15.92
	Medium	20	10	1.57	1.81	4.18	2.81	4.90	3.97
	Fine	10	5	2.18	2.81	4.27	3.10	3.79	3.16
	Very Fine	5	2	1.50	2.05	4.30	3.17	3.68	3.28
CLAY	Coarse	2	1	0.99	1.22	2.53	2.03	2.16	2.07
	Medium	1	0.5	0.81	0.91	2.03	1.69	1.70	1.62
	Fine	<0.5		0.11	0.11	0.42	0.37	0.33	0.31

Table 9b-6. Particle size data for the 06U-8 trench-soil profile, U.S.D.A. scale—Continued

				06U-8					
		Micrometers		69–80 cm	80–99 cm	99–120 cm	120–140 cm	140–154 cm	154–173 cm
SAND	Very Coarse	2000	1000	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	500	0.00	0.14	0.00	0.00	0.07	0.00
	Medium	500	250	0.10	1.08	0.00	0.00	0.24	0.19
	Fine	250	100	27.58	28.85	23.59	16.91	17.99	28.71
	Very Fine	100	50	33.97	32.74	33.62	34.62	28.77	30.96
SILT	Coarse	50	20	15.70	14.51	18.99	23.67	21.04	14.78
	Medium	20	10	6.11	5.98	6.61	7.55	10.25	7.04
	Fine	10	5	5.08	5.08	5.28	5.46	8.83	6.11
	Very Fine	5	2	5.39	5.51	5.63	5.48	7.07	6.36
CLAY	Coarse	2	1	3.13	3.15	3.27	3.18	3.05	3.20
	Medium	1	0.5	2.42	2.42	2.51	2.60	2.30	2.24
	Fine	<0.5		0.52	0.53	0.50	0.52	0.38	0.41

Table 9b-7. Particle size data for the 06U-9 trench-soil profile, U.S.D.A. scale.

			06U-9								
Micrometers			0–7 cm	7–13 cm	13–26 cm	26–32 cm	32–65 cm	65–85 cm	85–132 cm	132–150 cm	
SAND	Very Coarse	2000 1000	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	
	Coarse	1000 500	0.00	0.00	0.30	0.26	0.00	0.00	0.00	0.05	
	Medium	500 250	0.00	0.00	0.19	2.31	0.00	0.00	0.00	0.22	
	Fine	250 100	28.93	23.53	27.44	28.78	26.69	29.11	27.19	17.07	
	Very Fine	100 50	42.64	40.70	39.06	34.24	38.27	37.90	32.74	26.80	
SILT	Coarse	50 20	17.18	16.95	17.12	15.09	15.68	15.85	15.94	23.94	
	Medium	20 10	2.66	3.93	3.85	5.28	5.48	4.65	6.74	13.57	
	Fine	10 5	2.94	4.13	3.69	4.48	4.39	3.80	5.38	8.80	
	Very Fine	5 2	2.63	4.66	3.76	4.51	4.50	3.98	5.76	5.52	
CLAY	Coarse	2 1	1.60	2.97	2.26	2.57	2.59	2.42	3.25	2.14	
	Medium	1 0.5	1.26	2.54	1.87	2.03	1.99	1.90	2.47	1.68	
	Fine	<0.5	0.16	0.59	0.41	0.44	0.41	0.39	0.52	0.20	

Table 9b-8. Particle size data for the 06U-11 trench-soil profile, U.S.D.A. scale.

			06U-11							
Micrometers			0–4 cm	4–13 cm	13–25 cm	25–50 cm	50–70 cm	70–90 cm	90–119 cm	
SAND	Very Coarse	2000 1000	0.00	0.04	0.00	0.00	0.00	0.00	0.00	
	Coarse	1000 500	0.00	0.95	0.07	0.33	0.00	0.24	1.41	
	Medium	500 250	0.00	2.04	0.23	1.48	0.04	1.41	11.59	
	Fine	250 100	36.89	27.22	23.34	23.49	23.46	24.09	44.29	
	Very Fine	100 50	46.88	38.63	34.06	32.46	31.86	31.23	23.42	
SILT	Coarse	50 20	7.13	15.89	17.08	17.11	18.74	19.56	6.72	
	Medium	20 10	2.74	3.48	5.69	6.12	6.92	6.84	3.37	
	Fine	10 5	2.63	3.65	5.78	5.85	5.84	5.16	2.47	
	Very Fine	5 2	1.76	3.62	6.48	6.22	6.11	5.20	2.90	
CLAY	Coarse	2 1	1.06	2.25	3.80	3.57	3.52	3.04	1.77	
	Medium	1 0.5	0.81	1.83	2.88	2.79	2.87	2.61	1.59	
	Fine	<0.5	0.10	0.39	0.60	0.59	0.63	0.62	0.45	

Table 9b-9. Particle size data for the 06U-12 trench-soil profile, U.S.D.A. scale.

			06U-12							
Micrometers			0–7 cm	7–17 cm	17–33 cm	33–47 cm	47–77 cm	77–94 cm	94–109 cm	
SAND	Very Coarse	2000 1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Coarse	1000 500	0.00	0.00	0.00	0.00	0.00	0.00	0.81	
	Medium	500 250	0.14	0.00	0.00	0.11	0.00	0.00	7.87	
	Fine	250 100	26.32	21.10	21.99	20.32	21.94	24.21	40.08	
	Very Fine	100 50	39.26	35.09	36.99	31.66	28.86	35.48	27.09	
SILT	Coarse	50 20	19.01	19.45	17.81	19.13	18.25	17.87	8.86	
	Medium	20 10	4.34	6.09	4.69	7.05	7.53	6.47	4.24	
	Fine	10 5	3.98	5.60	4.87	6.63	6.90	4.91	3.26	
	Very Fine	5 2	3.45	6.10	6.10	7.19	7.78	5.05	3.62	
CLAY	Coarse	2 1	1.86	3.53	3.88	4.07	4.46	2.99	2.08	
	Medium	1 0.5	1.42	2.55	2.98	3.17	3.50	2.49	1.71	
	Fine	<0.5	0.22	0.48	0.69	0.68	0.78	0.53	0.40	

Table 9b-10. Particle size data for the 06U-13 trench-soil profile, U.S.D.A. scale.

				06U-13				
		Micrometers		0–4 cm	4–12 cm	12–28 cm	28–42 cm	42–68 cm
SAND	Very Coarse	2000	1000	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	500	0.00	0.19	0.08	0.19	0.00
	Medium	500	250	0.00	0.55	0.24	0.64	0.00
	Fine	250	100	15.55	13.03	10.95	12.86	15.84
	Very Fine	100	50	29.64	24.66	22.47	23.07	21.52
SILT	Coarse	50	20	23.58	22.09	19.79	17.86	15.44
	Medium	20	10	9.59	9.53	13.01	9.62	9.73
	Fine	10	5	8.23	9.85	13.06	11.74	11.37
	Very Fine	5	2	7.28	11.22	12.10	14.05	14.34
CLAY	Coarse	2	1	3.37	5.39	5.14	6.32	7.08
	Medium	1	0.5	2.40	3.17	2.92	3.35	4.18
	Fine	<0.5		0.38	0.31	0.25	0.31	0.50

Table 9b-11. Particle size data for the 06U-14 trench-soil profile, U.S.D.A. scale.

				06U-14							
		Micrometers		0–4 cm	4–12 cm	12–20 cm	20–37 cm	37–67 cm	67–86 cm	86–98 cm	98–110 cm
SAND	Very Coarse	2000	1000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Coarse	1000	500	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00
	Medium	500	250	0.00	0.00	1.12	0.00	0.00	0.34	3.87	1.12
	Fine	250	100	10.58	11.78	13.38	10.82	15.44	16.83	29.47	49.28
	Very Fine	100	50	24.79	23.35	23.23	22.18	29.19	17.72	21.31	30.27
SILT	Coarse	50	20	25.17	22.95	20.25	20.83	19.96	18.43	13.99	5.12
	Medium	20	10	11.60	10.39	10.22	10.89	9.31	13.71	9.24	4.02
	Fine	10	5	10.50	10.17	10.30	11.16	8.43	11.95	7.27	2.95
	Very Fine	5	2	10.10	11.49	11.05	12.69	9.24	11.41	7.34	3.52
CLAY	Coarse	2	1	4.38	5.78	5.59	6.53	4.68	5.26	3.82	1.92
	Medium	1	0.5	2.64	3.61	3.78	4.26	3.24	3.71	3.04	1.48
	Fine	<0.5		0.25	0.48	0.62	0.65	0.52	0.64	0.66	0.31

Table 10. Magnetic properties

[**Sample #:** Unique sample number (for example, 05U3/0-10); presented as site designation (05U3), 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 Am^2/kg .

IRM 1.2: Isothermal remanent magnetization from induction in a 1.2 tesla field at room temperature. Expressed in Am^2/kg .

IRM -0.3: Isothermal remanent magnetization from induction in a -0.3 tesla field at room temperature. Expressed in Am^2/kg .

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

S: (S ratio) calculated as $\text{IRM } -0.3/\text{IRM } 1.2$.]

Sample #	MSlf (m^3/kg)	MShf (m^3/kg)	FDMS (%)	FDMS (m^3/kg)	ARM (Am^2/kg)	IRM 1.2 (Am^2/kg)	IRM -0.3 (Am^2/kg)	HIRM (Am^2/kg)	S
05U3/0-10	1.29E-07	1.26E-07	2.37	3.06E-09	5.60E-05	2.28E-03	1.34E-03	4.69E-04	0.59
05U3/0-18	1.24E-07	1.20E-07	2.52	3.11E-09	5.83E-05	2.21E-03	1.28E-03	4.63E-04	0.58
05U3/18-32	1.25E-07	1.28E-07	-2.09	-2.62E-09	5.67E-05	2.18E-03	1.26E-03	4.57E-04	0.58
05U3/32-45	1.57E-07	1.56E-07	0.33	5.23E-10	6.92E-05	2.57E-03	1.64E-03	4.65E-04	0.64
05U3/45-58	1.49E-07	1.42E-07	4.59	6.84E-09	6.54E-05	2.45E-03	1.55E-03	4.50E-04	0.63
05U3/58-67	1.23E-07	1.21E-07	1.63	2.01E-09	5.50E-05	2.20E-03	1.25E-03	4.75E-04	0.57
05U3/67-76	1.09E-07	1.11E-07	-1.99	-2.18E-09	4.67E-05	2.06E-03	1.04E-03	5.09E-04	0.51
05U3/76-86	1.01E-07	1.03E-07	-1.73	-1.74E-09	4.19E-05	2.01E-03	9.43E-04	5.36E-04	0.47
05U3/86-92	9.08E-08	9.09E-08	-0.12	-1.06E-10	3.44E-05	1.88E-03	8.07E-04	5.39E-04	0.43
05U3/92-98	9.45E-08	9.44E-08	0.08	7.91E-11	3.58E-05	1.92E-03	8.69E-04	5.23E-04	0.45
05U5/0-10	1.63E-07	1.55E-07	4.66	7.58E-09	6.55E-05	2.68E-03	1.76E-03	4.60E-04	0.66
05U5/10-18	1.70E-07	1.72E-07	-1.21	-2.07E-09	7.32E-05	2.79E-03	1.79E-03	4.97E-04	0.64
05U5/18-25	1.61E-07	1.63E-07	-1.12	-1.80E-09	7.00E-05	2.68E-03	1.74E-03	4.73E-04	0.65
05U5/25-33	1.64E-07	1.59E-07	2.75	4.51E-09	6.92E-05	2.68E-03	1.75E-03	4.68E-04	0.65
05U5/33-42	1.59E-07	1.49E-07	6.09	9.68E-09	6.63E-05	2.61E-03	1.71E-03	4.50E-04	0.65
05U5/42-48	1.52E-07	1.46E-07	4.00	6.10E-09	6.40E-05	2.52E-03	1.61E-03	4.55E-04	0.64
05U5/48-55	1.50E-07	1.44E-07	3.57	5.34E-09	6.32E-05	2.49E-03	1.65E-03	4.23E-04	0.66
05U5/55-65	1.48E-07	1.42E-07	4.13	6.11E-09	6.10E-05	2.43E-03	1.58E-03	4.26E-04	0.65
05U5/65-71	1.39E-07	1.33E-07	4.26	5.90E-09	5.81E-05	2.29E-03	1.48E-03	4.04E-04	0.65
05U5/71-77	1.45E-07	1.40E-07	3.38	4.90E-09	5.96E-05	2.41E-03	1.57E-03	4.19E-04	0.65
05U5/77-86	1.39E-07	1.26E-07	9.36	1.30E-08	5.67E-05	2.33E-03	1.50E-03	4.12E-04	0.65
05U5/86-109	1.41E-07	1.41E-07	-0.59	-8.23E-10	5.54E-05	2.37E-03	1.50E-03	4.34E-04	0.63
05U5/109-129	1.42E-07	1.35E-07	5.10	7.26E-09	5.77E-05	2.42E-03	1.50E-03	4.57E-04	0.62
05U5/129-141	1.16E-07	1.16E-07	0.31	3.59E-10	3.98E-05	2.07E-03	1.20E-03	4.35E-04	0.58

Table 10. Magnetic properties—Continued

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
05U6/0-10	1.78E-07	1.77E-07	1.05	1.87E-09	7.77E-05	2.92E-03	1.99E-03	4.67E-04	0.68
05U6/10-30	1.75E-07	1.70E-07	2.84	4.97E-09	7.58E-05	2.81E-03	1.90E-03	4.53E-04	0.68
05U6/30-50	1.51E-07	1.50E-07	0.86	1.30E-09	6.34E-05	2.48E-03	1.63E-03	4.23E-04	0.66
05U7/0-18	1.86E-07	1.75E-07	5.98	1.11E-08	7.75E-05	3.05E-03	1.99E-03	5.30E-04	0.65
05U7/18-31	1.68E-07	1.62E-07	3.49	5.86E-09	7.11E-05	2.76E-03	1.73E-03	5.14E-04	0.63
05U7/31-46	1.61E-07	1.56E-07	2.84	4.56E-09	6.84E-05	2.64E-03	1.67E-03	4.83E-04	0.63
05U7/46-59	1.45E-07	1.42E-07	1.67	2.42E-09	6.12E-05	2.45E-03	1.52E-03	4.67E-04	0.62
05U7/59-73	1.39E-07	1.35E-07	2.80	3.89E-09	5.98E-05	2.40E-03	1.47E-03	4.62E-04	0.61
05U7/73-91	1.52E-07	1.48E-07	3.01	4.58E-09	6.87E-05	2.56E-03	1.63E-03	4.68E-04	0.63
05U7/91-107	1.85E-07	1.77E-07	4.28	7.92E-09	9.25E-05	3.07E-03	1.97E-03	5.47E-04	0.64
05U7/107-120	1.63E-07	1.60E-07	1.91	3.11E-09	8.46E-05	2.87E-03	1.71E-03	5.82E-04	0.59
05U7/120-136	1.14E-07	1.13E-07	0.96	1.10E-09	5.32E-05	2.25E-03	1.08E-03	5.85E-04	0.48
05U8A/0-10	1.75E-07	1.75E-07	0.29	5.15E-10	8.03E-05	2.90E-03	1.95E-03	4.76E-04	0.67
05U8A/10-30	1.68E-07	1.61E-07	4.12	6.94E-09	7.45E-05	2.73E-03	1.78E-03	4.74E-04	0.65
05U8A/30-50	1.41E-07	1.41E-07	0.51	7.22E-10	5.90E-05	2.37E-03	1.50E-03	4.34E-04	0.63
05U8B/0-10	1.77E-07	1.68E-07	5.24	9.28E-09	8.30E-05	2.90E-03	1.94E-03	4.77E-04	0.67
05U8B/10-30	1.59E-07	1.54E-07	3.23	5.13E-09	7.13E-05	2.57E-03	1.66E-03	4.52E-04	0.65
05U8B/30-50	1.51E-07	1.43E-07	4.84	7.29E-09	6.46E-05	2.47E-03	1.59E-03	4.41E-04	0.64
05U9/0-10	1.67E-07	1.59E-07	4.37	7.27E-09	7.52E-05	2.71E-03	1.83E-03	4.42E-04	0.67
05U9/10-26	1.75E-07	1.68E-07	4.01	7.00E-09	7.83E-05	2.81E-03	1.89E-03	4.59E-04	0.67
05U9/26-36	1.66E-07	1.63E-07	1.92	3.18E-09	7.61E-05	2.69E-03	1.78E-03	4.51E-04	0.66
05U9/36-55	1.68E-07	1.61E-07	3.96	6.64E-09	7.63E-05	2.69E-03	1.79E-03	4.51E-04	0.66
05U9/55-67	1.75E-07	1.71E-07	2.12	3.70E-09	8.23E-05	2.77E-03	1.89E-03	4.41E-04	0.68
05U9/67-79	1.96E-07	1.89E-07	3.81	7.49E-09	9.37E-05	3.03E-03	2.18E-03	4.28E-04	0.72
05U9/79-91	2.37E-07	2.34E-07	1.29	3.05E-09	1.02E-04	3.53E-03	2.68E-03	4.24E-04	0.76
05U9/91-102	2.92E-07	2.88E-07	1.14	3.33E-09	1.11E-04	4.28E-03	3.47E-03	4.05E-04	0.81
05U9/102-112	3.77E-07	3.69E-07	2.11	7.98E-09	1.10E-04	5.45E-03	4.63E-03	4.10E-04	0.85
05U9/112-123	4.05E-07	4.00E-07	1.40	5.67E-09	1.05E-04	5.78E-03	4.97E-03	4.06E-04	0.86
05U10/0-10	1.99E-07	1.96E-07	1.42	2.83E-09	9.00E-05	3.25E-03	2.29E-03	4.83E-04	0.70
05U10/10-30	1.97E-07	1.88E-07	4.65	9.18E-09	9.34E-05	3.13E-03	2.15E-03	4.88E-04	0.69
05U10/30-50	1.93E-07	1.86E-07	3.20	6.16E-09	9.48E-05	3.08E-03	2.13E-03	4.77E-04	0.69
05U11/0-10	2.27E-07	2.21E-07	2.29	5.19E-09	1.17E-04	3.76E-03	2.61E-03	5.70E-04	0.70
05U11/10-20	2.10E-07	2.06E-07	1.88	3.94E-09	1.04E-04	3.37E-03	2.25E-03	5.59E-04	0.67
05U11/20-35	2.39E-07	2.35E-07	1.65	3.95E-09	1.23E-04	3.65E-03	2.64E-03	5.06E-04	0.72
05U11/35-45	2.75E-07	2.69E-07	2.07	5.70E-09	1.43E-04	4.06E-03	3.12E-03	4.70E-04	0.77

Table 10. Magnetic properties—Continued

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
05U11/45-57	3.06E-07	2.98E-07	2.56	7.84E-09	1.49E-04	4.37E-03	3.49E-03	4.41E-04	0.80
05U11/57-69	2.95E-07	2.90E-07	1.69	5.01E-09	1.28E-04	4.21E-03	3.41E-03	3.98E-04	0.81
05U11/65-81	2.12E-07	2.12E-07	0.38	8.04E-10	7.52E-05	3.15E-03	2.41E-03	3.71E-04	0.76
05U11/81-94	8.21E-08	8.30E-08	-1.08	-8.83E-10	3.23E-05	1.31E-03	7.29E-04	2.92E-04	0.55
05U11/94-105	3.38E-08	3.69E-08	-9.02	-3.05E-09	1.47E-05	7.31E-04	3.42E-04	1.95E-04	0.47
05U11/105-114	4.08E-08	4.46E-08	-9.48	-3.86E-09	1.73E-05	8.20E-04	4.33E-04	1.94E-04	0.53
05U13/0-10	2.42E-07	2.35E-07	2.91	7.05E-09	1.36E-04	3.83E-03	2.70E-03	5.66E-04	0.70
05U13/10-25	2.25E-07	2.21E-07	2.02	4.55E-09	1.12E-04	3.52E-03	2.47E-03	5.24E-04	0.70
05U13/25-38	2.45E-07	2.40E-07	2.26	5.56E-09	1.19E-04	3.78E-03	2.80E-03	4.90E-04	0.74
05U13/38-47	2.87E-07	2.82E-07	1.72	4.94E-09	1.20E-04	4.30E-03	3.42E-03	4.37E-04	0.80
05U13/47-57	2.81E-07	2.78E-07	1.07	3.00E-09	1.05E-04	4.19E-03	3.42E-03	3.84E-04	0.82
05U13/57-68	1.96E-07	1.96E-07	0.17	3.37E-10	6.24E-05	3.03E-03	2.29E-03	3.72E-04	0.75
05U13/68-80	7.87E-08	8.07E-08	-2.50	-1.97E-09	2.69E-05	1.38E-03	8.05E-04	2.89E-04	0.58
05U13/80-95	6.29E-08	6.47E-08	-2.82	-1.78E-09	2.61E-05	1.17E-03	6.58E-04	2.55E-04	0.56
05U13/95-105	1.19E-07	1.19E-07	0.34	4.03E-10	5.39E-05	1.96E-03	1.41E-03	2.74E-04	0.72
05U13/105-114	2.42E-08	2.66E-08	-9.94	-2.41E-09	1.03E-05	5.68E-04	3.08E-04	1.30E-04	0.54
05U15/0-10	2.30E-07	2.23E-07	3.22	7.41E-09	1.14E-04	3.67E-03	2.56E-03	5.59E-04	0.70
05U15/10-24	1.93E-07	1.89E-07	1.93	3.72E-09	8.93E-05	3.07E-03	2.13E-03	4.72E-04	0.69
05U15/24-40	1.99E-07	1.96E-07	1.77	3.52E-09	9.01E-05	3.15E-03	2.22E-03	4.66E-04	0.70
05U15/40-53	2.02E-07	2.00E-07	1.04	2.11E-09	9.65E-05	3.22E-03	2.31E-03	4.56E-04	0.72
05U15/53-65	2.22E-07	2.18E-07	2.01	4.48E-09	1.11E-04	3.49E-03	2.60E-03	4.46E-04	0.74
05U15/65-77	2.71E-07	2.64E-07	2.34	6.33E-09	1.25E-04	4.14E-03	3.17E-03	4.83E-04	0.77
05U15/77-93	3.41E-07	3.38E-07	1.11	3.79E-09	1.25E-04	5.06E-03	4.16E-03	4.48E-04	0.82
05U15/93-107	2.87E-07	2.83E-07	1.29	3.71E-09	8.97E-05	4.38E-03	3.58E-03	4.00E-04	0.82
05U15/107-121	1.26E-07	1.27E-07	-1.01	-1.27E-09	4.73E-05	2.25E-03	1.38E-03	4.34E-04	0.61
05U15/121-135	1.40E-07	1.41E-07	-0.63	-8.80E-10	6.17E-05	2.57E-03	1.48E-03	5.44E-04	0.58
05U15/135-148	7.29E-08	7.47E-08	-2.42	-1.76E-09	2.92E-05	1.79E-03	5.58E-04	6.14E-04	0.31
05U15/148-154	8.22E-08	8.38E-08	-1.88	-1.54E-09	3.35E-05	1.78E-03	7.74E-04	5.02E-04	0.44
05U17/0-10	1.81E-07	1.79E-07	1.16	2.09E-09	8.37E-05	3.02E-03	2.07E-03	4.77E-04	0.68
05U17/10-23	1.76E-07	1.74E-07	1.17	2.06E-09	8.14E-05	2.87E-03	1.89E-03	4.90E-04	0.66
05U17/23-46	1.64E-07	1.63E-07	0.53	8.66E-10	7.75E-05	2.72E-03	1.78E-03	4.67E-04	0.66
05U17/46-62	1.58E-07	1.55E-07	1.77	2.79E-09	7.20E-05	2.68E-03	1.72E-03	4.80E-04	0.64
05U17/62-78	1.67E-07	1.63E-07	2.14	3.57E-09	7.93E-05	2.80E-03	1.84E-03	4.77E-04	0.66
05U17/78-92	1.86E-07	1.81E-07	2.73	5.07E-09	9.61E-05	3.08E-03	2.12E-03	4.83E-04	0.69
05U17/92-107	2.02E-07	1.96E-07	3.08	6.23E-09	1.13E-04	3.31E-03	2.27E-03	5.20E-04	0.69

Table 10. Magnetic properties—Continued

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
05U17/107-121	2.18E-07	2.13E-07	2.27	4.95E-09	1.22E-04	3.68E-03	2.41E-03	6.33E-04	0.66
05U17/121-132	2.85E-07	2.79E-07	2.15	6.14E-09	1.42E-04	4.50E-03	3.29E-03	6.04E-04	0.73
05U17/132-139	3.01E-07	2.96E-07	1.66	4.98E-09	1.29E-04	4.63E-03	3.61E-03	5.09E-04	0.78
05U19/0-10	1.64E-07	1.62E-07	1.33	2.17E-09	7.08E-05	2.75E-03	1.79E-03	4.79E-04	0.65
05U19/10-25	1.54E-07	1.52E-07	1.16	1.79E-09	6.69E-05	2.49E-03	1.59E-03	4.55E-04	0.64
05U19/25-36	1.47E-07	1.45E-07	1.61	2.36E-09	5.61E-05	2.45E-03	1.53E-03	4.63E-04	0.62
05U19/36-50	1.35E-07	1.36E-07	-1.11	-1.50E-09	6.03E-05	2.27E-03	1.38E-03	4.47E-04	0.61
05U19/50-59	1.38E-07	1.36E-07	1.33	1.83E-09	5.57E-05	2.31E-03	1.42E-03	4.42E-04	0.62
05U19/59-68	1.37E-07	1.35E-07	0.85	1.17E-09	5.70E-05	2.29E-03	1.44E-03	4.25E-04	0.63
05U19/68-80	1.47E-07	1.46E-07	0.79	1.16E-09	6.65E-05	2.45E-03	1.57E-03	4.40E-04	0.64
05U19/80-97	1.80E-07	1.75E-07	2.96	5.32E-09	9.03E-05	2.90E-03	1.93E-03	4.86E-04	0.66
05U19/97-109	1.69E-07	1.67E-07	1.04	1.76E-09	7.77E-05	2.74E-03	1.79E-03	4.77E-04	0.65
05U19/109-120	2.09E-07	2.08E-07	0.45	9.38E-10	8.69E-05	3.29E-03	2.33E-03	4.81E-04	0.71
05U19/120-129	3.05E-07	3.02E-07	0.85	2.58E-09	1.07E-04	4.54E-03	3.57E-03	4.84E-04	0.79
05U19/129-141	4.13E-07	4.05E-07	1.95	8.05E-09	1.15E-04	5.96E-03	5.06E-03	4.48E-04	0.85
05U20/0-10	1.85E-07	1.81E-07	2.19	4.06E-09	8.65E-05	3.10E-03	2.04E-03	5.31E-04	0.66
05U20/10-30	1.70E-07	1.66E-07	2.20	3.75E-09	7.89E-05	2.75E-03	1.75E-03	5.00E-04	0.64
05U20/30-50	1.60E-07	1.56E-07	2.16	3.45E-09	7.31E-05	2.67E-03	1.70E-03	4.84E-04	0.64
05U21/0-10	1.81E-07	1.77E-07	2.09	3.80E-09	8.40E-05	3.02E-03	2.00E-03	5.10E-04	0.66
05U21/10-30	1.76E-07	1.72E-07	2.32	4.09E-09	8.27E-05	2.89E-03	1.90E-03	4.97E-04	0.66
05U21/30-50	1.54E-07	1.49E-07	3.12	4.81E-09	6.86E-05	2.61E-03	1.67E-03	4.70E-04	0.64
05U22/0-10	1.66E-07	1.64E-07	1.42	2.36E-09	7.52E-05	2.84E-03	1.81E-03	5.15E-04	0.64
05U22/10-30	1.88E-07	1.84E-07	2.10	3.95E-09	9.05E-05	3.12E-03	2.09E-03	5.14E-04	0.67
05U22/30-50	1.67E-07	1.63E-07	2.37	3.96E-09	7.64E-05	2.76E-03	1.81E-03	4.78E-04	0.65
05U23/0-10	1.19E-07	1.19E-07	0.00	-5.35E-12	4.94E-05	2.11E-03	1.22E-03	4.46E-04	0.58
05U23/10-30	1.68E-07	1.66E-07	1.15	1.93E-09	7.81E-05	2.87E-03	1.87E-03	4.99E-04	0.65
05U23/30-50	1.78E-07	1.74E-07	2.46	4.38E-09	8.40E-05	2.99E-03	1.93E-03	5.33E-04	0.64
05U24/0-10	1.35E-07	1.33E-07	1.73	2.34E-09	4.95E-05	2.37E-03	1.45E-03	4.62E-04	0.61
05U24/10-30	1.53E-07	1.51E-07	1.71	2.62E-09	7.53E-05	2.63E-03	1.69E-03	4.74E-04	0.64
05U24/30-50	1.91E-07	1.88E-07	1.78	3.39E-09	9.77E-05	3.18E-03	2.14E-03	5.21E-04	0.67
05U25/0-10	1.61E-07	1.59E-07	0.93	1.49E-09	7.25E-05	2.74E-03	1.80E-03	4.74E-04	0.65
05U25/10-30	1.91E-07	1.89E-07	1.15	2.20E-09	8.44E-05	3.19E-03	2.16E-03	5.16E-04	0.68
05U25/30-50	1.65E-07	1.64E-07	0.84	1.38E-09	7.53E-05	2.79E-03	1.81E-03	4.94E-04	0.65
05U26/0-10	1.76E-07	1.72E-07	2.29	4.03E-09	9.57E-05	2.93E-03	1.98E-03	4.73E-04	0.68
05U26/10-23	1.88E-07	1.83E-07	2.96	5.58E-09	1.04E-04	2.97E-03	1.91E-03	5.28E-04	0.64

Table 10. Magnetic properties—Continued

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
05U26/23-38	1.79E-07	1.74E-07	2.39	4.27E-09	9.99E-05	2.81E-03	1.95E-03	4.32E-04	0.69
05U26/38-49	1.94E-07	1.89E-07	2.22	4.29E-09	9.79E-05	2.94E-03	2.18E-03	3.82E-04	0.74
05U26/49-60	1.95E-07	1.93E-07	1.15	2.25E-09	7.79E-05	2.88E-03	2.22E-03	3.28E-04	0.77
05U26/60-71	1.88E-07	1.86E-07	0.81	1.52E-09	6.72E-05	2.80E-03	2.17E-03	3.18E-04	0.77
05U26/71-81	2.05E-07	2.04E-07	0.71	1.45E-09	6.08E-05	3.03E-03	2.41E-03	3.11E-04	0.79
05U26/81-91	2.50E-07	2.48E-07	0.71	1.78E-09	6.49E-05	3.75E-03	3.07E-03	3.38E-04	0.82
05U26/91-103	2.98E-07	2.96E-07	0.68	2.03E-09	7.41E-05	4.42E-03	4.27E-03	7.43E-05	0.97
05U26/103-112	3.24E-07	3.22E-07	0.67	2.17E-09	7.69E-05	4.79E-03	4.00E-03	3.92E-04	0.84
05U26/112-121	3.23E-07	3.21E-07	0.64	2.07E-09	7.69E-05	4.79E-03	4.03E-03	3.81E-04	0.84
05U26/121-133	1.43E-07	1.43E-07	-0.15	-2.13E-10	4.31E-05	2.21E-03	1.65E-03	2.80E-04	0.75
05U26/133-144	9.31E-08	9.38E-08	-0.77	-7.19E-10	3.41E-05	1.60E-03	1.03E-03	2.86E-04	0.64
05U26/144-153	1.12E-07	1.12E-07	-0.02	-2.25E-11	3.88E-05	1.90E-03	1.27E-03	3.19E-04	0.67
05U27/0-10	1.74E-07	1.71E-07	1.98	3.45E-09	7.56E-05	2.71E-03	1.82E-03	4.45E-04	0.67
05U27/10-22	1.80E-07	1.78E-07	0.97	1.75E-09	8.41E-05	2.79E-03	1.89E-03	4.52E-04	0.68
05U27/22-31	1.95E-07	1.94E-07	0.45	8.74E-10	8.65E-05	2.99E-03	2.12E-03	4.35E-04	0.71
05U27/31-40	2.08E-07	2.05E-07	1.32	2.74E-09	9.11E-05	3.16E-03	2.32E-03	4.18E-04	0.74
05U27/40-48	2.31E-07	2.27E-07	1.63	3.77E-09	9.89E-05	3.43E-03	2.61E-03	4.08E-04	0.76
05U27/48-56	2.61E-07	2.58E-07	1.35	3.52E-09	1.12E-04	3.81E-03	3.00E-03	4.07E-04	0.79
05U27/56-64	3.02E-07	2.96E-07	1.77	5.33E-09	1.33E-04	4.33E-03	3.50E-03	4.12E-04	0.81
05U27/64-70	3.66E-07	3.61E-07	1.44	5.28E-09	1.52E-04	5.19E-03	4.36E-03	4.16E-04	0.84
05U27/70-79	4.13E-07	4.05E-07	1.85	7.63E-09	1.49E-04	5.85E-03	4.99E-03	4.28E-04	0.85
05U28/0-10	9.15E-08	9.03E-08	1.28	1.17E-09	5.43E-05	1.47E-03	9.73E-04	2.51E-04	0.66
05U28/10-23	8.48E-08	8.45E-08	0.41	3.46E-10	4.15E-05	1.32E-03	8.63E-04	2.30E-04	0.65
05U28/23-40	7.15E-08	7.04E-08	1.61	1.15E-09	4.03E-05	1.13E-03	7.29E-04	1.98E-04	0.65
05U28/40-53	7.92E-08	7.94E-08	-0.23	-1.80E-10	4.45E-05	1.23E-03	8.17E-04	2.08E-04	0.66
05U28/53-67	7.38E-08	7.43E-08	-0.63	-4.69E-10	4.29E-05	1.16E-03	8.07E-04	1.77E-04	0.69
05U28/67-80	6.07E-08	6.26E-08	-3.18	-1.93E-09	3.47E-05	9.35E-04	6.48E-04	1.44E-04	0.69
05U29/0-10	8.13E-08	7.91E-08	2.79	2.27E-09	4.93E-05	1.38E-03	8.80E-04	2.49E-04	0.64
05U29/10-23	7.17E-08	7.05E-08	1.78	1.27E-09	4.24E-05	1.18E-03	7.38E-04	2.23E-04	0.62
05U29/23-38	6.58E-08	6.23E-08	5.24	3.45E-09	4.13E-05	1.09E-03	6.97E-04	1.99E-04	0.64
05U29/38-52	7.44E-08	7.30E-08	1.92	1.43E-09	4.41E-05	1.22E-03	7.93E-04	2.14E-04	0.65
05U29/52-65	7.62E-08	7.67E-08	-0.58	-4.42E-10	4.43E-05	1.29E-03	8.31E-04	2.32E-04	0.64
05U29/65-77	7.23E-08	7.09E-08	1.93	1.40E-09	4.39E-05	1.23E-03	8.43E-04	1.96E-04	0.68
05U29/77-88	7.09E-08	7.07E-08	0.26	1.85E-10	4.26E-05	1.10E-03	8.25E-04	1.39E-04	0.75
05U29/88-100	6.22E-08	6.30E-08	-1.29	-8.01E-10	3.80E-05	1.07E-03	7.56E-04	1.55E-04	0.71

Table 10. Magnetic properties—Continued

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
05U29/100-112	5.27E-08	5.22E-08	0.86	4.52E-10	3.24E-05	9.24E-04	6.48E-04	1.38E-04	0.70
05U29/112-123	7.00E-08	7.01E-08	-0.18	-1.24E-10	3.93E-05	1.20E-03	8.82E-04	1.57E-04	0.74
05U29/123-132	8.65E-08	8.53E-08	1.37	1.19E-09	4.44E-05	1.46E-03	1.11E-03	1.74E-04	0.76
05U29/132-143	6.69E-08	6.83E-08	-1.98	-1.33E-09	3.74E-05	1.14E-03	8.52E-04	1.43E-04	0.75
05U29/143-157	4.51E-08	4.41E-08	2.20	9.90E-10	2.61E-05	7.92E-04	5.63E-04	1.15E-04	0.71
05U30/0-10	8.70E-08	8.69E-08	0.10	8.43E-11	4.52E-05	1.49E-03	9.94E-04	2.47E-04	0.67
05U30/10-23	8.04E-08	8.03E-08	0.11	8.54E-11	4.36E-05	1.39E-03	9.28E-04	2.31E-04	0.67
05U30/23-40	6.40E-08	6.39E-08	0.13	8.30E-11	3.37E-05	1.13E-03	7.47E-04	1.93E-04	0.66
05U30/40-55	4.78E-08	4.77E-08	0.17	8.20E-11	2.51E-05	8.49E-04	5.28E-04	1.61E-04	0.62
05U30/55-70	3.82E-08	3.82E-08	0.21	8.15E-11	1.97E-05	7.04E-04	4.01E-04	1.52E-04	0.57
05U30/70-82	3.83E-08	3.83E-08	0.22	8.35E-11	1.97E-05	6.67E-04	4.18E-04	1.25E-04	0.63
05U30/82-94	3.23E-08	3.22E-08	0.25	8.05E-11	1.73E-05	5.98E-04	3.39E-04	1.29E-04	0.57
05U30/94-108	3.11E-08	3.10E-08	0.27	8.41E-11	1.73E-05	5.86E-04	3.42E-04	1.22E-04	0.58
05U30/108-123	3.66E-08	3.65E-08	0.23	8.23E-11	1.90E-05	6.63E-04	3.87E-04	1.38E-04	0.58
05U30/123-135	6.15E-08	6.14E-08	0.14	8.42E-11	3.03E-05	1.00E-03	6.33E-04	1.86E-04	0.63
05U30/135-146	5.42E-08	5.41E-08	0.15	8.25E-11	2.69E-05	8.89E-04	5.39E-04	1.75E-04	0.61
05U30/146-159	4.78E-08	4.78E-08	0.17	8.14E-11	2.39E-05	8.28E-04	5.03E-04	1.62E-04	0.61
05U31/0-10	1.30E-07	1.28E-07	1.39	1.81E-09	6.39E-05	2.52E-03	1.39E-03	5.65E-04	0.55
05U31/10-30	1.20E-07	1.17E-07	2.99	3.60E-09	5.86E-05	2.45E-03	1.13E-03	6.61E-04	0.46
05U31/30-50	7.89E-08	7.87E-08	0.24	1.86E-10	3.79E-05	1.78E-03	6.42E-04	5.71E-04	0.36
05U32/0-10	1.11E-07	1.10E-07	1.58	1.76E-09	5.79E-05	2.02E-03	1.23E-03	3.99E-04	0.61
05U32/10-30	8.71E-08	8.47E-08	2.66	2.31E-09	4.53E-05	1.69E-03	9.15E-04	3.87E-04	0.54
05U32/30-50	8.08E-08	7.88E-08	2.46	1.99E-09	3.88E-05	1.61E-03	8.34E-04	3.86E-04	0.52
05U33/0-10	5.92E-08	5.75E-08	2.91	1.72E-09	3.92E-05	1.24E-03	7.39E-04	2.51E-04	0.60
05U33/10-22	6.39E-08	6.27E-08	1.92	1.23E-09	4.47E-05	1.30E-03	7.97E-04	2.53E-04	0.61
05U33/22-39	5.74E-08	5.69E-08	0.96	5.49E-10	3.98E-05	1.21E-03	7.15E-04	2.46E-04	0.59
05U33/39-56	4.30E-08	4.19E-08	2.58	1.11E-09	3.11E-05	9.67E-04	5.32E-04	2.18E-04	0.55
05U33/56-72	5.04E-08	4.99E-08	0.90	4.53E-10	2.76E-05	1.03E-03	5.52E-04	2.40E-04	0.53
05U33/72-85	4.92E-08	4.87E-08	1.08	5.30E-10	2.55E-05	1.00E-03	5.32E-04	2.35E-04	0.53
05U33/85-100	4.36E-08	4.43E-08	-1.64	-7.16E-10	2.23E-05	9.27E-04	4.68E-04	2.30E-04	0.50
05U33/100-110	4.29E-08	4.23E-08	1.39	5.98E-10	2.25E-05	9.21E-04	4.59E-04	2.31E-04	0.50
05U33/110-124	3.35E-08	3.51E-08	-4.56	-1.53E-09	1.84E-05	7.85E-04	3.68E-04	2.08E-04	0.47
05U33/124-136	3.84E-08	3.86E-08	-0.74	-2.83E-10	2.09E-05	8.42E-04	4.17E-04	2.12E-04	0.50
05U33/136-151	3.54E-08	3.65E-08	-3.03	-1.07E-09	1.85E-05	7.85E-04	3.76E-04	2.05E-04	0.48
05U33/151-158	3.74E-08	3.92E-08	-4.86	-1.81E-09	2.02E-05	8.40E-04	4.08E-04	2.16E-04	0.49

Table 10. Magnetic properties—Continued

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
06U3/0-7	1.12E-07	1.10E-07	2.13	2.39E-09	5.43E-05	2.16E-03	1.12E-03	5.18E-04	0.52
06U3/7-15	1.21E-07	1.18E-07	2.22	2.67E-09	5.95E-05	2.35E-03	1.15E-03	6.05E-04	0.49
06U3/15-29	8.74E-08	8.48E-08	2.94	2.57E-09	4.06E-05	1.88E-03	6.68E-04	6.08E-04	0.35
06U3/29-55	3.87E-08	3.81E-08	1.52	5.89E-10	1.51E-05	1.25E-03	9.52E-05	5.78E-04	0.08
06U3/55-78	5.10E-08	4.92E-08	3.59	1.83E-09	2.30E-05	1.45E-03	1.89E-04	6.32E-04	0.13
06U3/78-95	5.74E-08	5.31E-08	7.41	4.25E-09	2.56E-05	1.50E-03	3.21E-04	5.89E-04	0.21
06U3/95-137	5.48E-08	5.07E-08	7.52	4.12E-09	2.28E-05	1.48E-03	3.04E-04	5.89E-04	0.21
06U3/137-186	1.00E-07	9.33E-08	7.09	7.13E-09	5.19E-05	1.92E-03	9.78E-04	4.69E-04	0.51
06U4/0-4	1.23E-07	1.18E-07	4.66	5.74E-09	5.90E-05	2.31E-03	1.24E-03	5.36E-04	0.54
06U4/4-11	1.20E-07	1.15E-07	4.27	5.13E-09	5.93E-05	2.28E-03	1.13E-03	5.75E-04	0.50
06U4/11-17	1.04E-07	9.97E-08	3.91	4.05E-09	5.14E-05	2.08E-03	9.38E-04	5.72E-04	0.45
06U4/17-40	7.42E-08	7.09E-08	4.41	3.27E-09	3.32E-05	1.70E-03	5.11E-04	5.92E-04	0.30
06U4/40-64	6.51E-08	6.23E-08	4.42	2.88E-09	2.75E-05	1.60E-03	3.85E-04	6.09E-04	0.24
06U4/64-88	5.42E-08	5.19E-08	4.28	2.32E-09	2.26E-05	1.40E-03	2.68E-04	5.68E-04	0.19
06U4/88-128	6.14E-08	6.11E-08	0.53	3.25E-10	2.65E-05	1.45E-03	3.83E-04	5.36E-04	0.26
06U4/128-150	5.62E-08	5.26E-08	6.41	3.61E-09	2.53E-05	1.44E-03	3.07E-04	5.64E-04	0.21
06U5/0-4	2.22E-07	2.12E-07	4.63	1.03E-08	1.09E-04	3.49E-03	2.39E-03	5.50E-04	0.68
06U5/4-10	2.46E-07	2.37E-07	3.42	8.41E-09	1.26E-04	3.88E-03	2.83E-03	5.27E-04	0.73
06U5/10-27	2.42E-07	2.37E-07	2.13	5.16E-09	1.23E-04	3.70E-03	2.67E-03	5.16E-04	0.72
06U5/27-39	2.42E-07	2.34E-07	3.44	8.34E-09	1.19E-04	3.63E-03	2.66E-03	4.84E-04	0.73
06U5/39-49	2.37E-07	2.29E-07	3.15	7.46E-09	1.13E-04	3.52E-03	2.57E-03	4.75E-04	0.73
06U5/49-61	2.51E-07	2.39E-07	4.80	1.20E-08	1.15E-04	3.63E-03	2.80E-03	4.13E-04	0.77
06U5/61-83	2.61E-07	2.51E-07	3.57	9.32E-09	9.89E-05	3.77E-03	3.10E-03	3.37E-04	0.82
06U5/83-103	1.53E-07	1.48E-07	3.18	4.87E-09	5.54E-05	2.31E-03	1.71E-03	2.99E-04	0.74
06U5/103-122	1.38E-07	1.33E-07	3.84	5.31E-09	5.53E-05	2.10E-03	1.49E-03	3.05E-04	0.71
06U5/122-132	1.75E-07	1.70E-07	3.06	5.36E-09	7.30E-05	2.61E-03	1.91E-03	3.52E-04	0.73
06U6/0-6	2.50E-07	2.40E-07	3.80	9.49E-09	1.24E-04	3.92E-03	2.87E-03	5.24E-04	0.73
06U6/6-25	2.61E-07	2.50E-07	4.46	1.17E-08	1.30E-04	4.08E-03	3.04E-03	5.20E-04	0.74
06U6/25-54	2.58E-07	2.46E-07	4.80	1.24E-08	1.35E-04	3.96E-03	2.95E-03	5.02E-04	0.75
06U7/0-4	2.42E-07	2.35E-07	2.99	7.23E-09	1.17E-04	3.83E-03	2.78E-03	5.27E-04	0.72
06U7/4-13	2.56E-07	2.49E-07	2.75	7.04E-09	1.31E-04	4.00E-03	2.89E-03	5.56E-04	0.72
06U7/13-27	2.53E-07	2.44E-07	3.87	9.82E-09	1.34E-04	3.87E-03	2.83E-03	5.24E-04	0.73
06U7/27-52	2.63E-07	2.58E-07	2.15	5.66E-09	1.41E-04	4.08E-03	3.03E-03	5.26E-04	0.74
06U7/52-71	2.70E-07	2.61E-07	3.36	9.06E-09	1.41E-04	4.13E-03	3.08E-03	5.24E-04	0.75
06U7/71-101	2.79E-07	2.71E-07	2.94	8.22E-09	1.52E-04	4.37E-03	3.31E-03	5.33E-04	0.76

Table 10. Magnetic properties—Continued

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
06U7/101-116	1.87E-07	1.83E-07	2.28	4.27E-09	9.55E-05	2.78E-03	2.07E-03	3.54E-04	0.75
06U7/116-135	2.05E-07	2.00E-07	2.56	5.26E-09	1.03E-04	3.17E-03	2.38E-03	3.95E-04	0.75
06U7/135-190	1.59E-07	1.56E-07	2.04	3.25E-09	7.40E-05	2.53E-03	1.75E-03	3.86E-04	0.69
06U8/0-3	1.40E-07	1.38E-07	1.30	1.81E-09	6.16E-05	2.27E-03	1.52E-03	3.75E-04	0.67
06U8/3-8	1.68E-07	1.65E-07	1.89	3.17E-09	7.84E-05	2.75E-03	1.89E-03	4.27E-04	0.69
06U8/8-15	2.05E-07	1.99E-07	2.92	5.99E-09	1.01E-04	3.29E-03	2.29E-03	5.02E-04	0.69
06U8/15-33	1.83E-07	1.79E-07	1.96	3.59E-09	8.24E-05	2.87E-03	1.95E-03	4.60E-04	0.68
06U8/33-57	1.78E-07	1.74E-07	2.26	4.02E-09	7.82E-05	2.92E-03	2.03E-03	4.44E-04	0.70
06U8/57-69	1.81E-07	1.76E-07	2.63	4.75E-09	8.51E-05	3.00E-03	1.97E-03	5.14E-04	0.66
06U8/69-80	1.87E-07	1.81E-07	3.59	6.74E-09	9.58E-05	3.13E-03	2.03E-03	5.50E-04	0.65
06U8/80-99	1.75E-07	1.70E-07	2.87	5.03E-09	8.92E-05	2.98E-03	1.87E-03	5.55E-04	0.63
06U8/99-120	3.11E-07	3.05E-07	2.06	6.41E-09	1.37E-04	4.72E-03	3.64E-03	5.42E-04	0.77
06U8/120-140	4.57E-07	4.54E-07	0.74	3.40E-09	1.39E-04	6.52E-03	5.57E-03	4.75E-04	0.85
06U8/140-154	3.94E-07	3.91E-07	0.67	2.65E-09	8.73E-05	5.71E-03	4.84E-03	4.38E-04	0.85
06U8/154-173	1.36E-07	1.39E-07	-2.01	-2.74E-09	2.99E-05	2.37E-03	1.38E-03	4.99E-04	0.58
06U9/0-7	1.81E-07	1.77E-07	2.36	4.29E-09	7.70E-05	3.00E-03	2.03E-03	4.86E-04	0.68
06U9/7-13	1.96E-07	1.85E-07	5.84	1.15E-08	9.10E-05	3.16E-03	2.06E-03	5.50E-04	0.65
06U9/13-26	1.79E-07	1.72E-07	3.96	7.10E-09	8.21E-05	2.91E-03	1.89E-03	5.10E-04	0.65
06U9/26-32	1.54E-07	1.49E-07	3.32	5.10E-09	6.90E-05	2.52E-03	1.61E-03	4.56E-04	0.64
06U9/32-65	1.35E-07	1.30E-07	4.12	5.57E-09	5.90E-05	2.33E-03	1.42E-03	4.57E-04	0.61
06U9/65-85	1.79E-07	1.71E-07	4.74	8.51E-09	8.33E-05	2.97E-03	1.97E-03	4.96E-04	0.67
06U9/85-132	1.75E-07	1.67E-07	4.67	8.16E-09	8.66E-05	3.01E-03	1.82E-03	5.92E-04	0.61
06U9/132-150	3.28E-07	3.20E-07	2.39	7.83E-09	1.62E-04	5.04E-03	3.85E-03	5.96E-04	0.76
06U11/0-4	1.54E-07	1.48E-07	4.01	6.17E-09	6.87E-05	2.45E-03	1.65E-03	4.03E-04	0.67
06U11/4-13	1.87E-07	1.81E-07	3.33	6.22E-09	8.84E-05	3.01E-03	2.05E-03	4.81E-04	0.68
06U11/13-25	2.19E-07	2.12E-07	2.98	6.52E-09	1.14E-04	3.47E-03	2.43E-03	5.20E-04	0.70
06U11/25-50	2.36E-07	2.29E-07	3.19	7.54E-09	1.23E-04	3.71E-03	2.70E-03	5.04E-04	0.73
06U11/50-70	3.46E-07	3.39E-07	2.10	7.28E-09	1.66E-04	5.18E-03	4.21E-03	4.87E-04	0.81
06U11/70-90	3.85E-07	3.78E-07	1.80	6.91E-09	1.36E-04	5.63E-03	4.76E-03	4.36E-04	0.85
06U11/90-119	1.12E-07	1.13E-07	-0.58	-6.55E-10	2.98E-05	1.79E-03	1.18E-03	3.05E-04	0.66
06U12/0-7	2.00E-07	1.97E-07	1.64	3.28E-09	9.81E-05	3.31E-03	2.29E-03	5.10E-04	0.69
06U12/7-17	2.13E-07	2.06E-07	3.41	7.26E-09	1.13E-04	3.51E-03	2.43E-03	5.42E-04	0.69
06U12/17-33	2.12E-07	2.02E-07	4.75	1.01E-08	1.05E-04	3.34E-03	2.29E-03	5.27E-04	0.68
06U12/33-47	2.42E-07	2.36E-07	2.56	6.18E-09	1.30E-04	3.74E-03	2.74E-03	4.97E-04	0.73
06U12/47-77	3.46E-07	3.37E-07	2.85	9.88E-09	1.70E-04	5.14E-03	4.17E-03	4.85E-04	0.81

Table 10. Magnetic properties—Continued

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
06U12/77-94	3.35E-07	3.29E-07	1.80	6.02E-09	1.08E-04	4.86E-03	4.10E-03	3.83E-04	0.84
06U12/94-109	1.51E-07	1.50E-07	0.69	1.04E-09	4.10E-05	2.36E-03	1.71E-03	3.25E-04	0.73
06U13/0-4	2.45E-07	2.36E-07	3.40	8.32E-09	1.32E-04	4.10E-03	2.97E-03	5.64E-04	0.73
06U13/4-12	2.65E-07	2.59E-07	2.40	6.36E-09	1.42E-04	4.46E-03	3.25E-03	6.06E-04	0.73
06U13/12-28	2.73E-07	2.63E-07	3.56	9.72E-09	1.54E-04	4.51E-03	3.25E-03	6.32E-04	0.72
06U13/28-42	2.84E-07	2.73E-07	3.92	1.11E-08	1.71E-04	4.76E-03	3.48E-03	6.39E-04	0.73
06U13/42-68	2.77E-07	2.63E-07	4.98	1.38E-08	1.90E-04	4.67E-03	3.59E-03	5.44E-04	0.77
06U14/0-4	2.60E-07	2.51E-07	3.44	8.94E-09	1.38E-04	4.31E-03	3.14E-03	5.85E-04	0.73
06U14/4-12	2.73E-07	2.63E-07	3.86	1.05E-08	1.54E-04	4.61E-03	3.33E-03	6.36E-04	0.72
06U14/12-20	2.73E-07	2.60E-07	4.48	1.22E-08	1.53E-04	4.54E-03	3.29E-03	6.22E-04	0.73
06U14/20-37	2.74E-07	2.64E-07	3.54	9.68E-09	1.58E-04	4.55E-03	3.34E-03	6.03E-04	0.73
06U14/37-67	3.18E-07	3.03E-07	4.50	1.43E-08	2.16E-04	5.44E-03	4.23E-03	6.05E-04	0.78
06U14/67-86	3.07E-07	2.96E-07	3.54	1.09E-08	2.16E-04	5.28E-03	4.13E-03	5.72E-04	0.78
06U14/86-98	2.20E-07	2.14E-07	2.41	5.28E-09	1.40E-04	3.71E-03	2.89E-03	4.08E-04	0.78
06U14/98-110	1.01E-07	9.91E-08	1.86	1.87E-09	6.07E-05	1.84E-03	1.25E-03	2.95E-04	0.68

Table 11. Geochemical data

This table contains geochemical data obtained by ICP-AES (Inductively coupled plasma – atomic emission spectrometry), ICP-MS (Inductively coupled plasma – mass spectrometry), and INAA (Instrumental Neutron Activation Analysis) techniques (Lichte and others, 1987; Baedeker and McKown, 1987). All analyses were performed at the USGS Geologic Discipline geochemistry laboratories in Denver, Colo. and are reported in either parts per million (ppm) or percent (%); n.d., not determined.

Table 11a. Geochemical data; ICP-AES.

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
05U3/0-18	3.06	1.52	1.03	2.23	0.583	0.223	0.033	0.119	338	12.3
05U3/18-32	3.16	1.74	1.09	2.22	0.561	0.236	0.027	0.128	353	11.9
05U3/32-45	3.41	1.85	1.13	2.33	0.552	0.305	0.032	0.135	343	14.6
05U3/45-58	3.33	2.67	1.08	2.37	0.566	0.270	0.030	0.131	344	13.4
05U3/58-67	3.23	4.06	1.04	2.42	0.641	0.212	0.028	0.121	348	13.1
05U3/67-76	3.23	4.39	1.03	2.53	0.762	0.184	0.028	0.119	375	11.6
05U3/76-86	3.15	4.51	1.03	2.54	0.888	0.158	0.028	0.109	394	12.5
05U3/86-92	3.25	5.05	1.04	2.65	1.00	0.142	0.029	0.120	421	11.9
05U3/92-98	3.15	4.83	1.00	2.56	1.03	0.144	0.029	0.117	407	11.7
05U-5/0-10	3.24	0.91	1.06	2.33	0.584	0.344	0.052	0.135	398	13.5
05U-5/10-18	3.64	1.53	1.24	2.47	0.623	0.315	0.050	0.142	476	16.0
05U-5/18-25	3.52	1.71	1.18	2.45	0.613	0.309	0.041	0.140	425	15.3
05U-5/25-33	3.50	1.99	1.17	2.47	0.604	0.303	0.037	0.142	422	14.8
05U-5/33-42	3.45	2.18	1.14	2.46	0.613	0.300	0.038	0.132	414	14.3
05U-5/42-48	3.36	2.58	1.11	2.43	0.613	0.283	0.036	0.127	383	14.5
05U-5/48-55	3.28	2.65	1.07	2.39	0.589	0.277	0.032	0.125	367	14.2
05U-5/55-65	3.20	3.08	1.04	2.36	0.625	0.268	0.031	0.116	346	12.8
05U-5/65-71	3.17	3.26	1.02	2.38	0.622	0.251	0.032	0.118	339	12.5
05U-5/71-77	3.12	3.10	1.00	2.34	0.641	0.254	0.033	0.127	331	12.1
05U-5/77-86	2.90	3.17	0.92	2.21	0.633	0.235	0.030	0.112	308	12.1
05U-5/86-109	3.06	3.05	0.986	2.35	0.690	0.233	0.030	0.119	324	12.3
05U-5/109-129	3.16	3.23	1.01	2.41	0.792	0.233	0.031	0.116	362	12.4
05U-5/129-141	2.76	4.24	0.878	2.27	0.844	0.181	0.028	0.107	321	10.6
05U-6/0-10	3.68	0.49	1.25	2.51	0.517	0.394	0.050	0.157	465	18.7
05U-6/10-30	3.66	1.46	1.20	2.50	0.580	0.352	0.037	0.138	435	15.5

Table 11a. Geochemical data; ICP-AES—Continued

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
05U-6/30-50	3.38	3.10	1.07	2.47	0.612	0.300	0.032	0.123	346	14.1
05U-7/0-18	3.82	0.847	1.31	2.54	0.666	0.369	0.050	0.160	486	18.1
05U-7/18-31	3.87	1.71	1.31	2.61	0.626	0.329	0.033	0.149	472	17.3
05U-7/31-46	3.61	2.26	1.19	2.54	0.590	0.313	0.031	0.152	419	17.3
05U-7/46-59	3.36	3.14	1.12	2.50	0.590	0.266	0.031	0.137	353	13.5
05U-7/59-73	3.12	3.15	0.986	2.43	0.622	0.228	0.027	0.114	330	12.4
05U-7/73-91	3.30	2.91	1.06	2.53	0.603	0.228	0.027	0.114	350	12.6
05U-7/91-107	3.88	2.02	1.27	2.87	0.631	0.232	0.030	0.133	456	14.5
05U-7/107-120	3.94	2.81	1.28	2.91	0.849	0.206	0.033	0.129	470	14.3
05U-7/120-136	3.77	4.34	1.22	2.88	1.20	0.164	0.036	0.123	470	13.5
05U8A/0-10	3.69	0.808	1.22	2.49	0.601	0.371	0.054	0.146	489	16.0
05U8A/10-30	3.68	2.12	1.23	2.52	0.608	0.323	0.034	0.144	434	16.0
05U8A/30-50	3.18	3.56	1.02	2.36	0.562	0.251	0.029	0.118	332	13.1
05U8B/ 0-10	3.67	0.692	1.27	2.45	0.551	0.332	0.053	0.162	472	17.4
05U8B/10-30	3.56	1.66	1.19	2.43	0.561	0.302	0.037	0.151	425	15.2
05U8B/30-50	3.53	3.05	1.14	2.53	0.596	0.282	0.037	0.128	385	13.9
05U9/0-10	3.38	0.765	1.08	2.22	0.618	0.376	0.058	0.140	385	16.7
05U9/10-26	3.95	1.61	1.30	2.54	0.670	0.367	0.045	0.153	423	17.1
05U9/26-36	3.80	2.05	1.24	2.49	0.683	0.347	0.044	0.142	402	15.6
05U9/36-55	3.70	2.56	1.20	2.47	0.691	0.329	0.039	0.133	362	15.6
05U9/55-67	3.62	2.70	1.18	2.49	0.619	0.284	0.030	0.127	341	15.1
05U9/67-79	3.86	2.58	1.27	2.63	0.599	0.294	0.028	0.140	343	15.3
05U9/79-91	3.90	2.73	1.31	2.54	0.632	0.316	0.028	0.145	326	16.5
05U9/91-102	3.63	3.32	1.27	2.20	0.781	0.387	0.035	0.135	300	18.5
05U9/102-112	4.01	4.66	1.41	2.26	0.898	0.442	0.039	0.150	339	18.6
05U9/112-123	3.85	4.33	1.38	2.17	0.963	0.460	0.041	0.146	339	18.7
05U10/0-10	4.61	0.464	1.54	2.76	0.636	0.443	0.068	0.206	609	18.7
05U10/10-30	4.60	1.15	1.54	2.75	0.776	0.426	0.046	0.179	540	18.8
05U10/30-50	4.30	2.64	1.45	2.62	0.771	0.381	0.045	0.163	468	18.1
05U11/0-10	4.63	0.476	1.58	2.63	0.699	0.464	0.067	0.188	630	24.4
05U11/10-20	4.60	1.36	1.63	2.63	0.697	0.391	0.043	0.172	517	19.2
05U11/20-35	4.51	2.76	1.54	2.62	0.693	0.372	0.039	0.176	425	18.8

Table 11a. Geochemical data; ICP-AES—Continued

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
05U11/35-45	4.21	2.44	1.42	2.45	0.667	0.376	0.031	0.157	349	18.7
05U11/45-57	3.97	2.27	1.36	2.32	0.650	0.376	0.028	0.146	310	18.0
05U11/57-69	3.45	2.76	1.15	2.07	0.657	0.350	0.033	0.138	288	17.1
05U11/69-81	3.01	4.93	0.989	1.94	0.813	0.269	0.030	0.105	314	14.4
05U11/81-94	2.49	7.05	0.838	1.53	0.842	0.142	0.025	0.084	254	11.9
05U11/94-105	1.99	7.89	0.483	1.71	0.614	0.130	0.022	0.058	232	6.59
05U11/105-114	1.83	14.2	0.414	1.56	0.874	0.180	0.032	0.057	168	5.60
05U13/0-10	4.82	0.423	1.72	2.61	0.689	0.392	0.058	0.196	635	20.2
05U13/10-25	4.39	0.430	1.48	2.46	0.647	0.409	0.041	0.175	480	20.1
05U13/25-38	4.28	1.62	1.46	2.40	0.658	0.377	0.036	0.154	416	19.6
05U13/38-47	4.04	3.16	1.41	2.26	0.628	0.364	0.033	0.151	327	18.4
05U13/47-57	3.43	4.52	1.17	1.94	0.688	0.344	0.035	0.121	283	17.0
05U13/57-68	3.07	5.77	1.05	1.83	0.697	0.236	0.028	0.107	291	13.8
05U13/68-80	2.78	4.62	0.804	1.86	0.584	0.139	0.019	0.080	203	10.8
05U13/80-95	2.48	6.53	0.684	1.88	0.830	0.142	0.022	0.084	164	8.04
05U13/95-105	2.29	4.81	0.692	1.70	0.832	0.212	0.032	0.082	184	10.3
05U13/105-114	1.74	3.94	0.320	1.65	0.501	0.103	0.017	0.042	129	4.20
05U15/0-10	4.26	0.530	1.50	2.38	0.683	0.394	0.059	0.171	541	23.7
05U15/10-24	3.96	2.10	1.31	2.42	0.634	0.345	0.041	0.148	424	18.0
05U15/24-40	3.89	2.61	1.27	2.42	0.697	0.394	0.041	0.140	388	16.8
05U15/40-53	3.84	2.73	1.24	2.44	0.708	0.345	0.039	0.138	376	15.4
05U15/53-65	3.88	2.27	1.32	2.46	0.689	0.350	0.035	0.144	377	17.2
05U15/65-77	3.80	1.83	1.25	2.34	0.669	0.376	0.035	0.138	357	17.3
05U15/77-93	4.17	2.47	1.44	2.39	0.810	0.442	0.041	0.162	372	19.5
05U15/93-107	3.67	6.31	1.24	2.09	1.04	0.375	0.04	0.146	351	17.0
05U15/107-121	3.44	11.4	1.16	2.12	n.d	n.d	n.d	0.128	384	n.d
05U15/121-135	3.40	5.24	1.14	2.28	1.49	0.280	0.045	0.121	409	14.9
05U15/135-148	3.47	4.37	1.17	2.63	1.70	0.176	0.036	0.140	599	13.2
05U15/148-154	3.26	4.68	1.02	2.49	1.65	0.189	0.034	0.129	657	11.6
05U17/0-10	3.46	0.300	1.05	2.36	0.449	0.390	0.048	0.143	453	14.9

Table 11a. Geochemical data; ICP-AES—Continued

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
05U17/10-23	3.61	0.607	1.12	2.37	0.546	0.366	0.040	0.130	470	16.7
05U17/23-46	3.38	2.43	1.01	2.31	0.611	0.303	0.032	0.117	391	14.2
05U17/46-62	3.32	3.31	0.999	2.37	0.678	0.265	0.030	0.114	346	14.0
05U17/62-78	3.32	2.75	0.982	2.42	0.662	0.255	0.027	0.113	353	12.9
05U17/78-92	3.47	1.99	1.05	2.50	0.619	0.261	0.025	0.121	393	13.6
05U17/92-107	3.51	1.11	1.07	2.50	0.613	0.254	0.024	0.123	424	13.8
05U17/107-121	4.20	2.50	1.34	2.84	1.10	0.310	0.039	0.148	463	16.4
05U17/121-132	4.23	2.31	1.41	2.69	1.03	0.368	0.040	0.152	439	16.3
05U17/132-139	3.88	2.34	1.28	2.42	0.903	0.395	0.037	0.158	397	17.8
05U19/0-10	3.12	0.578	0.943	2.16	0.463	0.316	0.045	0.142	398	14.7
05U19/10-25	3.15	2.09	0.968	2.17	0.546	0.296	0.030	0.114	363	12.8
05U19/25-36	3.03	3.04	0.952	2.13	0.563	0.255	0.030	0.121	344	12.9
05U19/36-50	2.86	3.39	0.851	2.18	0.637	0.232	0.030	0.114	301	12.8
05U19/50-59	2.78	3.29	0.810	2.16	0.597	0.211	0.025	0.109	296	10.9
05U19/59-68	2.75	2.74	0.807	2.17	0.548	0.201	0.022	0.111	296	10.2
05U19/68-80	2.95	2.34	0.893	2.27	0.537	0.209	0.021	0.122	342	11.4
05U19/80-97	3.29	0.946	1.01	2.40	0.498	0.229	0.020	0.136	377	12.8
05U19/97-109	3.24	2.24	0.987	2.41	0.659	0.213	0.025	0.115	363	12.4
05U19/109-120	3.31	3.08	1.04	2.36	0.808	0.254	0.029	0.140	369	13.5
05U19/120-129	3.47	2.65	1.15	2.24	0.798	0.333	0.033	0.149	373	15.0
05U19/129-141	3.75	3.20	1.31	2.16	1.01	0.471	0.043	0.158	380	19.5
06U5/0-4	3.52	0.775	1.20	2.19	0.630	0.396	0.064	0.144	382	17.1
06U5/4-10	3.83	0.869	1.34	2.27	0.694	0.394	0.061	0.164	431	17.7
06U5/10-27	4.24	1.61	1.51	2.45	0.757	0.410	0.046	0.127	445	20.0
06U5/27-39	3.83	1.73	1.35	2.24	0.683	0.364	0.036	0.169	390	18.8
06U5/39-49	3.86	1.66	1.32	2.3	0.678	0.378	0.035	0.149	381	19.2
06U5/49-61	3.46	2.52	1.18	2.12	0.605	0.345	0.030	0.113	308	18.2
06U5/61-83	3.29	7.06	1.09	2.04	0.701	0.349	0.035	0.121	257	17.7
06U5/83-103	2.73	7.01	0.810	1.94	0.727	0.268	0.026	0.083	214	14.1
06U5/103-122	2.71	4.4	0.819	1.95	0.850	0.258	0.025	0.087	224	14.5

Table 11a. Geochemical data; ICP-AES—Continued

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
06U5/122-132	2.93	3.05	0.909	2.04	0.892	0.294	0.028	0.100	261	14.1
06U6/0-6	3.86	1.14	1.34	2.29	0.742	0.418	0.074	0.153	471	18.1
06U6/6-25	4.28	1.74	1.52	2.49	0.806	0.431	0.057	0.167	501	21.0
06U6/25-54	4.26	2.48	1.50	2.44	0.801	0.411	0.043	0.161	444	21.0
06U7/0-4	3.89	0.957	1.35	2.35	0.742	0.432	0.086	0.136	487	18.2
06U7/4-13	4.24	1.21	1.52	2.44	0.824	0.418	0.072	0.187	533	19.6
06U7/13-27	4.06	1.74	1.44	2.33	0.764	0.386	0.049	0.173	480	20.5
06U7/27-52	4.23	2.42	1.51	2.39	0.804	0.408	0.045	0.172	466	21.4
06U7/52-71	4.38	2.29	1.56	2.48	0.825	0.425	0.041	0.172	466	20.7
06U7/71-101	4.40	2.61	1.58	2.43	0.903	0.422	0.049	0.162	474	20.2
06U7/101-116	3.18	3.84	1.03	2.04	0.769	0.305	0.036	0.117	308	15.6
06U7/116-135	3.38	3.15	1.10	2.18	0.771	0.364	0.037	0.123	312	15.8
06U7/135-190	2.95	5.76	1.03	1.93	1.13	0.270	0.034	0.104	432	16.7
06U8/0-3	2.75	0.286	0.815	2.14	0.317	0.314	0.041	0.103	276	12.7
06U8/3-8	3.04	0.294	0.951	2.20	0.378	0.341	0.044	0.125	339	14.1
06U8/8-15	3.69	0.339	1.25	2.37	0.532	0.348	0.053	0.121	446	17.1
06U8/15-33	3.47	1.61	1.11	2.32	0.550	0.373	0.051	0.138	357	16.6
06U8/33-57	3.37	4.26	1.03	2.36	0.678	0.265	0.033	0.110	294	16.0
06U8/57-69	3.43	3.36	1.07	2.48	0.693	0.249	0.027	0.131	333	15.4
06U8/69-80	3.70	2.81	1.17	2.68	0.722	0.243	0.026	0.133	385	16.6
06U8/80-99	3.52	2.85	1.12	2.64	0.736	0.209	0.026	0.125	393	14.8
06U8/99-120	4.20	2.7	1.40	2.77	0.934	0.374	0.033	0.130	403	19.9
06U8/120-140	4.05	2.25	1.44	2.36	0.896	0.492	0.039	0.182	355	20.3
06U8/140-154	3.91	5.64	1.33	2.29	1.09	0.508	0.041	0.147	343	21.4
06U8/154-173	3.02	9.35	0.964	2.18	1.76	0.263	0.032	0.115	338	14.4
06U9/0-7	3.19	0.35	1.08	2.27	0.440	0.358	0.050	0.135	374	15.9
06U9/7-13	3.76	0.416	1.32	2.42	0.622	0.327	0.050	0.154	480	18.5
06U9/13-26	3.79	1.64	1.28	2.53	0.637	0.333	0.038	0.126	438	18.3
06U9/26-32	3.28	4.82	1.05	2.34	0.680	0.248	0.037	0.107	302	16.2
06U9/32-65	3.06	4.15	0.974	2.31	0.674	0.200	0.028	0.113	286	14.8
06U9/65-85	3.31	2.32	1.07	2.46	0.603	0.238	0.023	0.120	335	16.0
06U9/85-132	3.57	2.61	1.18	2.68	0.888	0.214	0.031	0.120	402	15.8

Table 11a. Geochemical data; ICP-AES—Continued

Sample #	Al (%)	Ca (%)	Fe (%)	K (%)	Mg (%)	Na (%)	P (%)	Ti (%)	Mn (ppm)	Nd (ppm)
06U9/132-150	4.35	2.44	1.51	2.79	1.14	0.409	0.043	0.143	424	20.2
06U13/0-4	4.26	1.24	1.48	2.60	0.772	0.411	0.095	0.144	603	19.1
06U13/4-12	4.66	0.971	1.63	2.78	0.819	0.449	0.096	0.129	637	22.6
06U13/12-28	5.24	1.04	1.86	2.96	0.903	0.459	0.058	0.159	702	24.6
06U13/28-42	4.76	1.77	1.70	2.75	0.843	0.416	0.049	0.161	608	22.6
06U13/42-68	4.49	2.2	1.56	2.75	0.707	0.369	0.041	0.150	518	22.0
06U14/0-4	4.64	1.37	1.58	2.84	0.879	0.446	0.105	0.150	641	20.0
06U14/4-12	5.04	1.28	1.76	2.98	0.945	0.451	0.099	0.186	705	24.2
06U14/12-20	4.90	0.869	1.72	2.86	0.836	0.432	0.071	0.177	672	22.9
06U14/20-37	4.78	1.21	1.69	2.78	0.798	0.411	0.047	0.158	621	22.8
06U14/37-67	4.89	1.97	1.72	2.86	0.772	0.414	0.041	0.187	572	24.3
06U14/67-86	5.38	3.36	1.91	2.95	0.997	0.406	0.052	0.157	550	23.8
06U14/86-98	4.11	1.62	1.39	2.48	0.815	0.290	0.041	0.119	350	17.5
06U14/98-110	2.70	0.443	0.823	2.05	0.442	0.144	0.026	0.053	192	10.6

Table 11b. Geochemical data; ICP-MS.

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)
05U3/0-18	<2	34,400	6.1	487	1.2	0.09	16,600	0.08	31.8
05U3/18-32	<2	38,300	6.2	527	1.3	0.09	19,300	0.08	33.9
05U3/32-45	<2	41,800	6.1	563	1.3	0.1	20,800	0.09	35.9
05U3/45-58	<2	39,100	6.3	537	1.4	0.1	29,300	0.08	35.4
05U3/58-67	<2	37,300	7.4	497	1.4	0.09	44,800	0.08	33.3
05U3/67-76	<2	37,000	8.4	484	1.5	0.09	48,200	0.08	32.1
05U3/76-86	<2	37,800	9.3	487	1.5	0.09	52,000	0.08	31.1
05U3/86-92	<2	36,700	10	458	1.4	0.09	54,600	0.07	28.8
05U3/92-98	<2	36,700	9.7	463	1.5	0.08	54,000	0.07	29.2
05U-5/0-10	<2	37,200	4.9	497	1.1	0.12	9,890	0.15	32
05U-5/10-18	<2	42,500	6.6	533	1.4	0.11	17,100	0.14	38.6
05U-5/18-25	<2	43,700	6.7	570	1.4	0.1	20,600	0.13	38.9
05U-5/25-33	<2	41,400	6.4	550	1.3	0.1	22,300	0.12	37.9
05U-5/33-42	<2	39,000	6	519	1.2	0.1	23,200	0.11	33.9
05U-5/42-48	<2	38,700	5.8	515	1.2	0.09	27,700	0.09	32.6
05U-5/48-55	<2	40,700	6.3	553	1.3	0.09	31,000	0.1	35
05U-5/55-65	<2	37,900	5.8	517	1.3	0.08	34,700	0.09	31.2
05U-5/65-71	<2	35,500	5.8	503	1.2	0.08	34,300	0.08	28.9
05U-5/71-77	<2	35,500	5.7	499	1.3	0.08	33,400	0.08	31.2
05U-5/77-86	<2	36,000	5.9	513	1.2	0.08	36,500	0.09	29.5
05U-5/86-109	<2	36,000	6.4	553	1.2	0.08	33,500	0.08	29
05U-5/109-129	<2	35,500	6.6	486	1.3	0.08	33,600	0.08	29
05U-5/129-141	<2	32,500	7.2	463	1.3	0.07	46,800	0.06	25.6
05U-6/0-10	<2	45,700	5.5	557	1.3	0.11	5,610	0.16	40.4
05U-6/10-30	<2	43,900	5.6	544	1.4	0.1	16,600	0.12	39.9
05U-6/30-50	<2	38,800	5.4	511	1.2	0.08	33,700	0.09	33.4
05U-7/0-18	<2	44,900	5.9	524	1.4	0.12	9,140	0.15	40.7
05U-7/18-31	<2	44,600	6.6	520	1.5	0.11	18,400	0.11	39.4
05U-7/31-46	<2	40,000	5.8	490	1.3	0.09	23,100	0.08	33.8
05U-7/46-59	<2	36,500	6.3	493	1.4	0.09	32,900	0.08	31.8

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)
05U3/0-18	4.1	36.5	3	12.5	11,700	7	24,600	17.3	15.1
05U3/18-32	4.6	40.9	3.2	13.3	13,000	7.6	26,000	18.6	17.2
05U3/32-45	4.8	38.4	3.4	16.5	13,800	8.3	27,500	19.4	19.2
05U3/45-58	5.4	32.5	3.2	13.7	12,600	7.7	26,400	19.1	17.3
05U3/58-67	4.8	30.7	3.2	13.9	11,900	7.3	26,600	18.3	15.4
05U3/67-76	5	29.8	3.4	13.3	11,800	7.2	27,700	17.5	14.5
05U3/76-86	5.4	31.4	3.6	14.2	12,300	7.2	29,200	16.9	14.1
05U3/86-92	5.3	30.7	3.5	13	12,000	7	28,900	16	13.2
05U3/92-98	5.3	27.4	3.5	13.4	11,700	7.1	28,700	15.9	13.3
05U-5/0-10	3.8	36.9	2.8	13.5	12,100	7.2	26,000	17.6	17.1
05U-5/10-18	5.2	40.1	3.5	14.9	14,600	8.7	28,100	20.8	20.1
05U-5/18-25	5.2	40.5	3.5	15.8	14,800	8.7	29,800	21	19.9
05U-5/25-33	4.9	37.8	3.3	14.6	13,900	8.2	28,500	20.6	18.6
05U-5/33-42	4.7	33.1	3.1	13.1	12,900	7.8	27,100	18.3	17.4
05U-5/42-48	4.6	32.3	3.1	13.2	12,600	7.6	26,800	18	17.1
05U-5/48-55	4.8	34.7	3.2	13.8	13,100	8	28,400	19.2	18
05U-5/55-65	4.4	32	3	13.6	12,200	7.4	26,800	17	16.9
05U-5/65-71	4.1	32.2	2.8	12.6	11,400	6.8	25,600	15.7	16.1
05U-5/71-77	4.2	29.1	2.8	11.6	11,300	6.9	25,600	16.8	16.2
05U-5/77-86	4.2	29	2.8	11.7	11,100	6.8	26,000	16.2	16
05U-5/86-109	4.3	32.8	2.9	11.9	11,500	6.8	26,400	16	16.1
05U-5/109-129	4.4	27.2	2.9	11.6	11,200	6.7	25,800	15.7	15.5
05U-5/129-141	4.4	27.2	2.7	13.7	10,200	6	25,800	14.1	13.4
05U-6/0-10	4.8	43.7	3.3	15.6	14,900	8.8	30,400	22.1	22.4
05U-6/10-30	4.9	35	3.4	14.4	14,300	8.6	29,200	21.7	21.4
05U-6/30-50	4.5	31	3	12.5	12,200	7.4	27,500	18.1	18.2
05U-7/0-18	5.1	38.5	3.5	14.6	15,100	9	29,200	21.9	21.7
05U-7/18-31	5.3	38.6	3.6	14.8	15,000	8.7	29,100	21.6	21.3
05U-7/31-46	4.6	31.4	3.2	12.9	13,000	7.6	26,900	18.3	19.2
05U-7/46-59	4.7	39.8	3.1	13.3	12,300	7.3	26,100	17.3	15.9

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	Rb (ppm)
05U3/0-18	6,630	335	0.47	2,380	3.9	8.8	381	12.4	72.9
05U3/18-32	6,590	375	0.5	2,660	4.2	9.9	320	13	77.9
05U3/32-45	6,550	369	0.5	3,460	6.1	10.2	364	13.8	82.5
05U3/45-58	6,620	356	0.42	2,950	3.4	9.6	339	13	78.3
05U3/58-67	7,670	356	0.41	2,330	3.5	9	334	11.8	76
05U3/67-76	8,960	380	0.39	1,960	4.6	8.9	339	11.6	76.3
05U3/76-86	10,700	412	0.39	1,720	4.1	9.2	352	11.6	78.5
05U3/86-92	12,000	423	0.4	1,470	3.8	8.8	364	10.9	75.7
05U3/92-98	12,300	421	0.4	1,540	2.9	8.7	359	10.8	76.1
05U-5/0-10	6,550	397	0.53	3,660	6.9	8.7	600	14.2	75.5
05U-5/10-18	7,840	479	0.52	3,500	7.3	11.1	592	13.8	83.5
05U-5/18-25	7,780	475	0.52	3,700	5.8	11.2	516	14.3	87.2
05U-5/25-33	7,540	442	0.5	3,470	4.4	10.4	463	13.6	83.1
05U-5/33-42	7,160	419	0.47	3,300	4.4	9.8	461	12.7	78.4
05U-5/42-48	7,360	395	0.44	3,160	4.1	9.6	423	12.5	77.8
05U-5/48-55	7,730	400	0.44	3,290	2.9	10.7	416	13.3	81.8
05U-5/55-65	7,650	357	0.41	3,000	3.2	9.1	392	12.1	75.7
05U-5/65-71	7,440	329	0.42	2,770	3.2	8.5	371	11.4	72.1
05U-5/71-77	7,550	334	0.4	2,770	2.5	8.2	368	11.4	71.7
05U-5/77-86	7,940	326	0.38	2,670	2.6	8.1	350	11.3	72.7
05U-5/86-109	8,350	330	0.43	2,600	2.6	8.5	335	11.4	74.7
05U-5/109-129	9,360	349	0.4	2,500	2.6	8.1	369	11.1	72.1
05U-5/129-141	10,200	335	0.39	1,970	2.1	7.6	330	10.4	69.8
05U-6/0-10	6,970	501	0.56	4,870	7.1	13.5	673	14.9	88.1
05U-6/10-30	7,200	458	0.48	4,160	5.9	10.5	471	13.7	84.3
05U-6/30-50	7,170	351	0.4	3,190	2.3	8.9	361	12.2	76.7
05U-7/0-18	7,670	508	0.53	4,100	7	11.2	579	14.6	84.4
05U-7/18-31	7,640	476	0.49	3,710	5.6	11.2	418	13.7	84.2
05U-7/31-46	6,960	397	0.42	3,400	3.5	9.5	363	12.1	75.6
05U-7/46-59	6,800	338	0.53	2,750	3.3	9.5	343	11.6	74.8

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
05U3/0-18	0.94	4	84.2	5.67	1,600	0.48	1.14	23.2	11.4	33.6
05U3/18-32	0.88	4.6	94.6	6	1,780	0.51	1.21	26.1	12.9	35.6
05U3/32-45	0.95	4.9	101	6.19	1,960	0.54	1.35	29.2	15.1	38.7
05U3/45-58	0.94	4.5	106	6.22	1,720	0.52	1.25	26.8	12.4	36.2
05U3/58-67	1.2	4.4	123	6.12	1,520	0.5	1.1	24	11.8	36.5
05U3/67-76	1.3	4.3	125	5.77	1,570	0.5	1.06	22.9	13.2	35.6
05U3/76-86	1.5	4.4	135	5.7	1,600	0.53	1.05	22.9	12.1	35.5
05U3/86-92	1.6	4.3	140	5.6	1,590	0.51	0.98	21.7	11.4	34.7
05U3/92-98	1.6	4.3	145	5.38	1,580	0.51	0.95	22	11	36.3
05U-5/0-10	0.89	4.2	84.4	5.56	1,640	0.48	1.24	24.9	12.1	35.7
05U-5/10-18	1.1	5.2	104	6.44	1,940	0.53	1.33	30.3	14.3	43.1
05U-5/18-25	1.1	5.3	115	6.48	2,100	0.55	1.34	31.3	14.8	41.3
05U-5/25-33	1	5	112	6.41	1,880	0.53	1.33	29.5	14	40
05U-5/33-42	0.98	4.6	109	5.77	1,570	0.5	1.16	27	12.4	39.1
05U-5/42-48	0.97	4.6	113	5.67	1,680	0.5	1.16	26.6	12.6	35
05U-5/48-55	0.92	4.6	132	6.01	1,580	0.53	1.2	27.6	12.6	36.7
05U-5/55-65	0.92	4.3	130	5.4	1,570	0.49	1.14	25.3	12.2	32.8
05U-5/65-71	0.89	4	127	5.02	1,580	0.46	1.05	23.6	11.1	30.6
05U-5/71-77	0.78	4	125	5.3	1,390	0.45	1.09	23.5	10.9	31
05U-5/77-86	0.85	3.9	136	5	1,360	0.48	1.01	23.5	10.5	30.6
05U-5/86-109	0.97	3.9	147	5.1	1,390	0.48	1.04	23.7	10.5	30.3
05U-5/109-129	1	3.9	145	4.95	1,450	0.46	1.09	23.4	10.8	31.7
05U-5/129-141	1.1	3.5	148	4.42	1,230	0.44	0.94	19.4	9.4	31.4
05U-6/0-10	0.87	5.2	90.8	6.78	2,000	0.54	1.47	31.2	15.2	43.8
05U-6/10-30	0.88	5.2	97.4	6.56	1,870	0.53	1.39	31	14.2	38.7
05U-6/30-50	0.78	4.3	107	5.59	1,460	0.49	1.13	26.2	11.7	32
05U-7/0-18	0.94	5.4	90.7	6.7	1,890	0.52	1.41	31.7	14.7	42.2
05U-7/18-31	1	5.3	101	6.51	1,790	0.53	1.29	30.9	13.7	42.3
05U-7/31-46	0.86	4.6	97.8	5.72	1,630	0.47	1.14	27.1	12.3	35.2
05U-7/46-59	0.96	4.4	105	5.63	1,580	0.49	1.23	25.5	11.8	36.8

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)
05U-7/59-73	<2	35,600	6.8	501	1.3	0.08	35,000	0.08	30.5
05U-7/73-91	<2	36,400	7.5	500	1.3	0.09	30,900	0.07	29.8
05U-7/91-107	<2	39,600	8.6	486	1.5	0.09	19,600	0.07	31
05U-7/107-120	<2	44,800	10.5	501	1.8	0.11	30,400	0.08	34.3
05U-7/120-136	<2	39,100	10.3	455	1.6	0.1	44,300	0.09	29.6
05U8A/0-10	<2	38,600	4.8	495	1.2	0.11	7,940	0.15	34
05U8A/10-30	<2	39,000	5.3	496	1.3	0.09	21,200	0.11	34.9
05U8A/30-50	<2	34,400	5.6	470	1.3	0.08	36,700	0.09	30
05U8B/ 0-10	<2	40,400	5.5	513	1.3	0.11	7,270	0.17	36.6
05U8B/10-30	<2	36,700	5	471	1.2	0.09	16,500	0.1	36.4
05U8B/30-50	<2	35,000	5.2	463	1.3	0.08	28,600	0.09	29.5
05U9/0-10	<2	36,900	4.4	475	1.1	0.09	7,930	0.13	32
05U9/10-26	<2	38,400	5.2	482	1.3	0.09	15,100	0.12	34.4
05U9/26-36	<2	37,500	5	486	1.2	0.09	19,500	0.1	33.2
05U9/36-55	<2	37,900	5.7	492	1.3	0.09	25,600	0.1	33.1
05U9/55-67	<2	36,200	6	470	1.3	0.08	26,200	0.09	30.6
05U9/67-79	<2	37,100	6.6	473	1.3	0.08	23,600	0.08	32.3
05U9/79-91	<2	38,000	6.6	472	1.4	0.09	25,700	0.08	31.1
05U9/91-102	<2	39,000	6.1	486	1.4	0.09	34,800	0.1	34.4
05U9/102-112	<2	37,900	5.7	519	1.3	0.1	43,300	0.1	33.6
05U9/112-123	<2	38,500	6.1	548	1.4	0.1	42,700	0.11	36.4
05U10/0-10	<2	40,900	4.7	492	1.4	0.11	3,860	0.19	35.2
05U10/10-30	<2	48,600	6.4	548	1.6	0.11	11,400	0.14	42.8
05U10/30-50	<2	43,400	6.4	503	1.4	0.1	25,400	0.13	37.6
05U11/0-10	<2	47,800	6	528	1.5	0.14	4,520	0.22	41
05U11/10-20	<2	39,400	5.5	438	1.3	0.1	11,000	0.12	35.7
05U11/20-35	<2	39,300	6.8	464	1.4	0.12	23,500	0.11	37.5
05U11/35-45	<2	37,200	6.4	461	1.2	0.1	21,100	0.08	33.5
05U11/45-57	<2	36,700	5.6	470	1.2	0.1	20,600	0.07	35
05U11/57-69	<2	35,100	5.1	467	1.2	0.1	27,600	0.09	30.5

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)
05U-7/59-73	4.7	30.1	3	12.6	11,500	7	26,800	16.8	14.1
05U-7/73-91	5	31.5	3.2	13.2	12,100	7.4	26,900	16.6	14.3
05U-7/91-107	5.3	31.2	3.7	12.6	13,100	8	28,300	17.3	16.1
05U-7/107-120	6	33.6	4.4	14.8	14,700	9	31,700	19.3	17.6
05U-7/120-136	5.6	29.8	4	12.7	12,800	7.8	29,000	16.7	14.6
05U8A/0-10	4.4	35.2	3	13.7	12,900	7.8	25,200	19	17.6
05U8A/10-30	4.6	33.8	3.2	13.4	13,100	7.7	25,700	19.3	17.6
05U8A/30-50	4.2	29.4	2.8	11.6	11,200	6.7	24,800	16.6	14.7
05U8B/ 0-10	4.8	39.8	3.2	14.8	14,000	8.2	26,700	20.2	19.1
05U8B/10-30	4.4	35.1	3	13.1	12,500	7.5	24,500	20.5	17.3
05U8B/30-50	4.3	31.1	2.9	15.2	11,500	6.8	23,800	16.4	15.2
05U9/0-10	4.1	30.9	2.8	12.7	11,900	7.4	25,100	17.6	17.1
05U9/10-26	4.4	32.3	3	13.4	12,700	7.7	25,800	19.2	18
05U9/26-36	4.4	32.4	3	12.7	12,400	7.6	25,400	18.2	17.8
05U9/36-55	4.6	33.1	3.1	12.1	12,600	7.6	26,200	18.4	17.2
05U9/55-67	4.4	30	3.1	11.6	11,900	7.2	25,400	16.9	15.7
05U9/67-79	4.5	30.7	3.1	11.2	12,300	7.4	26,100	17.8	16.6
05U9/79-91	4.8	33	3.3	11.8	13,000	7.6	25,600	17.2	17.1
05U9/91-102	5	34.4	3.2	12	13,800	7.9	24,400	19.1	19.1
05U9/102-112	4.9	29.8	2.8	11.4	13,500	7.7	22,000	18.6	19.6
05U9/112-123	5	33.8	2.9	12.3	13,900	7.9	22,000	20.1	20.7
05U10/0-10	4.7	33.9	3.2	14	13,700	8	25,900	19.4	19.8
05U10/10-30	5.7	40.2	3.8	17.2	16,200	9.8	29,800	23.4	23
05U10/30-50	5.3	36	3.6	15.4	14,900	8.7	27,100	20.5	20.6
05U11/0-10	5.7	36	3.8	16.2	16,400	9.7	28,000	22.6	23.1
05U11/10-20	5.4	40.2	3.3	14.9	14,200	8.3	23,700	19.8	19
05U11/20-35	4.9	33.1	3.4	13.2	13,500	8.1	23,500	19.5	19
05U11/35-45	4.5	27.5	3.1	11.5	12,100	7.8	22,400	17.3	17.5
05U11/45-57	4.5	30.7	3	12.2	12,600	7.7	22,000	18.3	16.8
05U11/57-69	4.3	28.3	2.7	13.2	11,800	7.2	21,600	16.1	16.3

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	Rb (ppm)
05U-7/59-73	7,020	333	0.41	2,370	3.1	8.7	305	12	75.1
05U-7/73-91	6,770	352	0.43	2,330	3.2	9.1	293	11.6	75.9
05U-7/91-107	6,730	409	0.41	2,290	4.4	10.2	332	11.5	79
05U-7/107-120	10,100	465	0.44	2,190	3.5	11.2	386	12.4	87.2
05U-7/120-136	13,400	440	0.42	1,590	3.5	9.5	392	10.8	79
05U8A/0-10	6,410	446	0.52	3,760	6.8	10.6	591	13.9	74.6
05U8A/10-30	6,680	404	0.44	3,290	5.9	9.9	379	12.5	75.8
05U8A/30-50	6,270	314	0.41	2,560	2.9	8.5	329	11.1	70.9
05U8B/ 0-10	6,540	464	0.52	3,610	6.3	10.7	640	14.2	79.2
05U8B/10-30	6,100	379	0.46	3,020	5.2	9.8	420	12.2	71.8
05U8B/30-50	6,210	343	0.4	2,730	3	8.8	376	11.2	69.2
05U9/0-10	6,060	406	0.42	3,560	6.5	9	594	12.2	73
05U9/10-26	6,550	400	0.46	3,420	4.3	9.9	466	12.2	74.2
05U9/26-36	6,820	377	0.46	3,320	5	9.4	456	11.9	72.9
05U9/36-55	6,950	363	0.46	3,100	2.9	9.5	412	12	73.7
05U9/55-67	6,310	327	0.39	2,710	2.9	9	324	11.5	70.6
05U9/67-79	5,980	313	0.4	2,750	3.7	9.2	290	11.6	72.8
05U9/79-91	6,340	303	0.44	2,920	3.3	9.8	292	12.2	74
05U9/91-102	7,590	313	0.47	3,550	3.5	10.7	346	12.7	72
05U9/102-112	8,950	307	0.44	4,220	3.2	10.5	395	12.5	66.9
05U9/112-123	10,000	323	0.51	4,480	2.9	10.6	433	12.3	67.7
05U10/0-10	6,040	509	0.49	4,210	7	10.4	710	13.7	75.2
05U10/10-30	8,080	542	0.54	4,340	7.3	12.6	536	14	87.8
05U10/30-50	7,700	458	0.48	3,570	5.2	11.3	474	12.8	79.2
05U11/0-10	7,060	613	0.54	4,450	8.6	12.4	696	15.8	83.8
05U11/10-20	6,390	420	0.51	3,310	6.5	12.2	439	12	71.4
05U11/20-35	6,440	354	0.49	3,230	5.4	10.5	378	11.9	72.1
05U11/35-45	5,440	293	0.42	3,180	4.9	9.4	295	11.8	69.5
05U11/45-57	5,610	277	0.42	3,220	4.2	9.4	272	12.2	69.4
05U11/57-69	6,380	279	0.41	3,230	3.5	9.2	314	11.8	67

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
05U-7/59-73	1.1	4.1	115	5.46	1,520	0.51	1.14	24.1	11.3	31.6
05U-7/73-91	1.2	4.4	122	5.37	1,680	0.51	1.06	25.4	11.4	34.9
05U-7/91-107	1.4	4.8	106	5.67	1,620	0.51	1.05	27.7	11.5	39.6
05U-7/107-120	1.6	5.4	133	6.31	1,740	0.57	1.16	28.9	12.9	45.7
05U-7/120-136	1.6	4.8	138	5.7	1,590	0.52	1.1	23.6	11.8	42.9
05U8A/0-10	0.82	4.6	81.5	5.95	1,760	0.5	1.37	28.1	13.4	39.4
05U8A/10-30	0.86	4.8	97.6	6.04	1,740	0.5	1.29	28.3	13.2	36.3
05U8A/30-50	0.9	4	99.9	5.17	1,410	0.47	1.1	23.7	10.8	31
05U8B/ 0-10	0.89	5	83.6	6.1	1,830	0.52	1.35	29.7	13.7	40.3
05U8B/10-30	0.82	4.6	84	7.1	1,580	0.47	1.21	26.9	12.4	34.6
05U8B/30-50	0.85	4.2	91.8	5.1	1,430	0.44	1.04	24.6	11.2	33.4
05U9/0-10	0.75	4.3	79.2	5.35	1,580	0.47	1.19	25.5	12	34.9
05U9/10-26	0.78	4.6	87.8	5.81	1,500	0.48	1.18	27.8	12.2	35.6
05U9/26-36	0.83	4.5	93	5.68	1,690	0.47	1.23	27.1	12.4	35
05U9/36-55	0.87	4.6	102	5.54	1,570	0.49	1.18	27.6	11.8	36
05U9/55-67	0.93	4.2	105	5.23	1,560	0.47	1.09	26	11.3	33.1
05U9/67-79	1	4.4	107	5.6	1,560	0.47	1.11	27.4	11.4	34.2
05U9/79-91	1	4.5	115	5.28	1,590	0.48	1.13	29.5	11.4	35.6
05U9/91-102	0.86	4.9	139	5.95	1,630	0.48	1.29	32.6	12.6	36.6
05U9/102-112	0.66	4.8	167	5.54	1,520	0.45	1.31	35.8	12.3	36.5
05U9/112-123	0.65	4.8	173	5.95	1,480	0.46	1.34	37	12.5	36.9
05U10/0-10	0.76	5	78.5	5.79	1,630	0.47	1.31	30.1	13.5	41.3
05U10/10-30	0.9	6	98	6.97	1,820	0.55	1.35	35.9	14.7	46.8
05U10/30-50	0.9	5.4	104	6.23	1,750	0.51	1.26	33.1	13.7	41.5
05U11/0-10	0.9	6	90.7	6.72	2,030	0.53	1.48	37.1	15.8	49.1
05U11/10-20	0.78	5.2	81.4	5.89	1,700	0.46	1.18	30.7	13.2	38.9
05U11/20-35	0.88	5	96.2	6.16	1,750	0.47	1.26	31.3	13.5	37.8
05U11/35-45	0.82	4.8	94.7	5.78	1,500	0.47	1.15	30.3	12.4	36.3
05U11/45-57	0.76	4.6	98	6.02	1,490	0.46	1.21	32.3	12.2	33.8
05U11/57-69	0.72	4.2	105	5.24	1,330	0.46	1.16	29.8	11.2	32.4

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)
05U11/69-81	<2	31,200	5.4	450	1.3	0.07	51,100	0.11	27.4
05U11/81-94	<2	28,400	7.3	410	1.8	0.07	80,300	0.12	25.2
05U11/94-105	<2	19,400	3.9	388	0.98	< 0.06	75,800	0.07	12.5
05U11/105-114	<2	18,300	3.8	521	0.88	< 0.06	151,000	0.08	11.5
05U13/0-10	<2	46,100	5.6	515	1.4	0.11	3,850	0.13	41.7
05U13/10-25	<2	43,500	5.1	490	1.4	0.11	3,360	0.12	40.5
05U13/25-38	<2	40,600	5.5	484	1.4	0.11	14,800	0.11	39.7
05U13/38-47	<2	41,900	6	534	1.5	0.11	31,900	0.1	38
05U13/47-57	<2	36,900	5.6	490	1.3	0.09	48,000	0.11	35
05U13/57-68	<2	33,100	6.1	440	1.4	0.08	62,000	0.11	27.8
05U13/68-80	<2	29,000	5.5	403	1.6	0.06	47,000	0.07	22.6
05U13/80-95	<2	27,300	4.8	458	1.4	< 0.06	68,200	0.06	17
05U13/95-105	<2	25,000	4.6	415	1	< 0.06	49,900	0.07	19
05U13/105-114	<2	18,400	3.2	352	0.82	< 0.06	39,400	0.04	9.7
05U15/0-10	<2	46,800	5.4	520	1.5	0.12	5,270	0.16	40.1
05U15/10-24	<2	41,400	5.2	523	1.5	0.1	20,700	0.12	36.3
05U15/24-40	<2	38,800	4.9	510	1.2	0.09	24,400	0.1	36.6
05U15/40-53	<2	45,700	6.5	599	1.6	0.11	30,600	0.12	40.8
05U15/53-65	<2	38,400	5.7	505	1.4	0.09	21,600	0.09	33.8
05U15/65-77	<2	42,500	6.2	544	1.5	0.11	19,800	0.09	39.3
05U15/77-93	<2	45,300	6.2	555	1.5	0.11	25,800	0.1	43.5
05U15/93-107	<2	41,100	6.3	561	1.7	0.1	71,000	0.14	39.4
05U15/107-121	<2	33,600	7.1	496	2.1	0.08	116,000	0.13	28.1
05U15/121-135	<2	41,900	7.3	529	2.7	0.09	62,800	0.14	31.8
05U15/135-148	<2	37,200	6.8	427	3.1	0.07	44,600	0.13	25.3
05U15/148-154	<2	33,500	6.2	413	2.6	0.07	47,200	0.15	21.9
05U17/0-10	<2	34,800	4.3	450	1.1	0.1	2,810	0.12	31.6
05U17/10-23	<2	41,900	5.4	497	1.4	0.1	6,570	0.12	35.4
05U17/23-46	<2	39,000	5.9	480	1.4	0.09	26,400	0.1	36
05U17/46-62	<2	39,700	7.2	493	1.4	0.09	36,800	0.08	33.2

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)
05U11/69-81	4.1	24.1	2.5	10	10,300	6.3	20,200	14.6	13.7
05U11/81-94	4.2	18.2	2.8	7.3	9,060	6.1	16,800	13.5	14.2
05U11/94-105	2.6	11.9	1.4	6.6	4,020	3.8	16,200	6.6	8
05U11/105-114	2.4	11.6	1.3	5.4	3,530	3.5	15,500	6	8.8
05U13/0-10	5.3	29.6	3.6	13.9	15,200	9.3	26,000	22	22.4
05U13/10-25	5	28	3.4	13.4	14,500	8.8	24,900	21.5	21.2
05U13/25-38	5	29.8	3.2	13.2	14,100	8.5	23,600	20.9	20
05U13/38-47	5.3	35	3.3	13.5	14,800	8.7	24,200	20	19.6
05U13/47-57	4.9	28.9	2.9	12.4	13,000	7.7	21,400	18.7	17.4
05U13/57-68	4.4	29.2	2.8	10.4	11,500	6.7	20,100	14.9	15
05U13/68-80	3.5	19.4	2.4	7.3	7,770	6	19,900	12.3	14
05U13/80-95	3	19.4	2.1	8.6	6,410	5.6	19,500	9.3	15
05U13/95-105	2.9	22.4	1.8	7.9	6,600	5	18,200	10	13.6
05U13/105-114	1.6	13.8	1.1	5	2,900	3.2	17,300	5	8.4
05U15/0-10	5.7	34.9	3.8	16.1	16,000	9.4	27,000	21.1	22.7
05U15/10-24	4.8	30.8	3.2	14.6	13,600	8.4	25,300	19.2	19
05U15/24-40	4.5	28.3	3.1	12.7	12,600	7.7	24,400	19.7	17.2
05U15/40-53	5.3	35	3.6	15.8	14,900	9.1	28,800	21.4	19.9
05U15/53-65	4.6	36.5	3.1	14.5	13,000	7.5	24,800	17.9	17
05U15/65-77	5.1	28.6	3.4	13.2	14,200	8.7	26,400	20.9	19.1
05U15/77-93	5.6	33	3.5	15.8	15,700	9.2	26,200	22.8	21.3
05U15/93-107	5.2	27.8	3.2	14.4	14,100	8.4	24,000	20.8	21.2
05U15/107-121	4.4	26	3	10.2	11,400	6.8	21,300	15.2	16.9
05U15/121-135	5	31.8	3.7	13	14,100	8	28,300	17.6	18.7
05U15/135-148	4.8	31.1	3.5	9.5	12,300	7.2	28,700	14.3	12.9
05U15/148-154	4.8	23	2.9	9.9	10,300	6.6	25,900	12.4	12.7
05U17/0-10	3.7	20.8	2.6	11.6	10,700	6.7	23,200	17.4	17.4
05U17/10-23	4.6	21.8	3.3	13	13,300	8	26,600	19.7	20.9
05U17/23-46	4.6	25.8	3.1	11.7	12,300	7.5	26,100	19.6	19.4
05U17/46-62	4.6	21.6	3.2	11.6	12,100	7.5	27,300	18.1	18.6

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	Rb (ppm)
05U11/69-81	7,710	311	0.35	2,390	3	8.5	293	10.8	61.4
05U11/81-94	8,410	270	0.31	1,190	2.2	9.2	243	9.65	52.8
05U11/94-105	5,530	201	0.2	950	0.98	4.6	210	6.71	44.2
05U11/105-114	8,800	144	0.2	1,500	1.8	3.5	323	6.15	41.1
05U13/0-10	6,590	461	0.45	4,030	7.4	11.5	442	13.6	80.9
05U13/10-25	6,280	438	0.42	3,820	6.9	11.1	424	13.2	77.1
05U13/25-38	6,290	370	0.49	3,560	6.5	10.5	380	13	74.4
05U13/38-47	6,660	333	0.48	3,750	4.3	11.3	383	13.6	76.8
05U13/47-57	6,760	293	0.4	3,200	6.6	10.3	379	12.2	67.6
05U13/57-68	7,370	295	0.39	2,220	2.8	9.9	314	10.9	60.8
05U13/68-80	5,640	206	0.25	1,060	2.5	8.1	189	10	59
05U13/80-95	8,040	142	0.23	1,110	3.3	6.9	216	9.14	55.6
05U13/95-105	7,880	184	0.34	1,800	2.3	6.5	315	8.59	52
05U13/105-114	5,260	108	0.2	832	1.2	3.6	176	6.98	46.1
05U15/0-10	7,040	552	0.49	3,800	6.8	12.5	614	14.3	83.2
05U15/10-24	6,810	414	0.44	3,420	4.4	10.7	452	12.9	78.4
05U15/24-40	6,690	368	0.39	3,280	3.6	9.2	397	12.1	73.5
05U15/40-53	8,190	426	0.5	3,750	4.2	11.2	443	14.2	86.6
05U15/53-65	6,720	356	0.48	3,180	3.4	10	342	12	73.3
05U15/65-77	7,140	378	0.4	3,750	5.4	10.6	380	13.6	81.1
05U15/77-93	8,620	382	0.55	4,500	5.1	11.9	452	14.1	80.5
05U15/93-107	12,300	374	0.48	4,070	3.5	11	475	12.7	72.9
05U15/107-121	17,300	366	0.42	2,200	3.6	9.3	456	10.3	62.2
05U15/121-135	17,400	473	0.55	2,840	2.5	11.2	512	12.8	79.2
05U15/135-148	19,400	613	0.42	1,600	2.3	10.4	412	12.4	76.3
05U15/148-154	17,900	649	0.31	1,680	2	9	372	11.6	70.1
05U17/0-10	4,400	379	0.34	3,730	4.8	7.9	504	12.7	67.4
05U17/10-23	6,130	434	0.32	3,760	5.2	9.9	480	13.7	77.9
05U17/23-46	6,870	375	0.26	3,280	3.9	9.2	376	12.5	74
05U17/46-62	7,790	331	0.27	2,810	4.6	8.9	364	12.2	74.7

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
05U11/69-81	0.9	3.7	155	4.67	1,090	0.4	1.07	25.3	10.3	28.2
05U11/81-94	1.2	3.4	206	4.22	909	0.36	0.9	24.8	8.6	29.1
05U11/94-105	0.87	1.7	171	2.05	517	0.29	0.57	13.9	3.9	17.4
05U11/105-114	1	1.5	316	1.97	539	0.27	0.72	13.3	4.1	14.8
05U13/0-10	0.84	5.8	84.9	7.07	1,780	0.5	1.43	35.4	15.2	42.8
05U13/10-25	0.78	5.5	80	6.95	1,670	0.5	1.35	33.8	14.2	40.7
05U13/25-38	0.83	5.2	90.6	6.45	1,820	0.48	1.34	33.8	13.6	37.9
05U13/38-47	0.83	5.4	112	6.33	1,620	0.5	1.31	37	14	37.8
05U13/47-57	0.86	4.7	134	6.29	1,380	0.45	1.27	34.1	12.3	34.2
05U13/57-68	1.1	4	153	4.64	1,210	0.41	1	28.6	10.1	30
05U13/68-80	1.2	3.1	143	3.7	931	0.4	0.82	22.6	7	23.7
05U13/80-95	1.2	2.6	248	2.76	746	0.36	0.7	20.6	5.4	21.2
05U13/95-105	0.87	2.6	208	2.9	723	0.34	0.84	22.1	7.5	19.8
05U13/105-114	0.74	1.2	150	1.45	319	0.29	0.46	10.7	2.4	10
05U15/0-10	0.89	6	84.9	6.37	1,550	0.54	1.23	35.2	13.6	46.6
05U15/10-24	0.84	5.1	104	5.6	1,400	0.5	1.1	30.8	12.2	37.8
05U15/24-40	0.84	4.7	103	5.68	1,360	0.48	1.16	29	13.4	34.5
05U15/40-53	1.1	5.5	146	6.42	1,810	0.56	1.31	34.8	13.9	41.5
05U15/53-65	0.99	4.6	115	5.39	1,450	0.47	1.06	29	11.8	35.6
05U15/65-77	1.1	5.1	127	6.08	1,660	0.52	1.26	34.1	13.1	38.3
05U15/77-93	0.96	5.9	153	6.73	1,890	0.53	1.53	38.6	15.3	42.5
05U15/93-107	0.97	5.3	265	6.53	1,620	0.49	1.48	36.4	14	38.5
05U15/107-121	1.9	4.1	396	4.36	1,200	0.4	1.5	29.8	10.1	33.6
05U15/121-135	2.4	4.9	312	4.91	1,490	0.51	1.29	33.6	10.8	41.1
05U15/135-148	3.3	4.3	248	3.74	1,150	0.49	0.93	30.3	8.6	47.8
05U15/148-154	2.4	3.7	240	3.29	958	0.44	0.87	27.1	7.7	46.1
05U17/0-10	0.62	3.9	70.9	5.17	1,320	0.44	1.1	23.9	10.4	32.1
05U17/10-23	0.78	5	83.7	5.99	1,770	0.51	1.31	29.5	13.5	38.3
05U17/23-46	0.73	4.7	100	6.08	1,780	0.49	1.24	28	12.5	35.9
05U17/46-62	1	4.5	124	5.68	1,720	0.49	1.18	26.8	11.9	34.7

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)
05U17/62-78	<2	40,000	7.8	499	1.4	0.08	30,500	0.08	31.6
05U17/78-92	<2	40,500	7.7	488	1.4	0.08	21,400	0.08	34.3
05U17/92-107	<2	50,400	9.8	564	1.9	0.11	14,900	0.09	40.7
05U17/107-121	<2	54,600	12.6	523	2.3	0.12	29,900	0.11	44.5
05U17/121-132	<2	60,400	13.2	576	2.5	0.14	29,800	0.12	48.3
05U17/132-139	<2	52,800	10.1	579	1.9	0.12	29,400	0.11	45.6
05U19/0-10	<2	43,300	5.1	546	1.4	0.12	7,370	0.15	39.6
05U19/10-25	<2	42,600	5.8	520	1.4	0.09	25,500	0.09	36.4
05U19/25-36	<2	43,300	6.6	529	1.4	0.09	39,000	0.1	36.5
05U19/36-50	<2	38,100	6.7	495	1.4	0.08	41,000	0.08	31.3
05U19/50-59	<2	40,000	7.2	523	1.4	0.08	42,800	0.08	34.4
05U19/59-68	<2	40,800	7.4	543	1.4	0.07	36,500	0.07	31.7
05U19/68-80	<2	39,000	7.5	508	1.5	0.08	27,800	0.07	31
05U19/80-97	<2	44,600	8.4	523	1.6	0.08	11,700	0.07	35.5
05U19/97-109	<2	41,800	7.9	479	1.6	0.08	26,200	0.08	32.7
05U19/109-120	<2	50,300	9.4	570	1.7	0.1	42,300	0.1	39.9
05U19/120-129	<2	55,200	9.3	597	1.9	0.12	38,200	0.12	48.8
05U19/129-141	<2	50,900	8	548	1.8	0.12	39,400	0.12	46.6
06U5/0-4	<1	40,300	4.2	476	1.1	0.1	6,780	0.16	39.8
06U5/4-10	<1	44,400	4.8	485	1.2	0.1	7,760	0.16	43.9
06U5/10-27	<1	40,700	5.1	476	1.2	0.11	13,800	0.13	41
06U5/27-39	<1	39,600	5.1	467	0.99	0.1	15,500	0.11	37.9
06U5/39-49	<1	43,000	4.5	490	1.2	0.1	14,200	0.13	41.7
06U5/49-61	<1	35,100	4.7	452	0.96	0.09	22,300	0.08	36.3
06U5/61-83	<1	36,200	5.2	470	1	0.07	61,300	0.11	33.7
06U5/83-103	<1	32,000	5	448	0.9	< 0.06	62,200	0.08	25.9
06U5/103-122	<1	28,300	4.7	453	0.78	0.06	41,100	0.09	24.1
06U5/122-132	<1	35,400	4.9	478	0.86	0.06	27,600	0.09	29.8
06U6/0-6	<1	46,800	4.9	498	1.5	0.11	10,400	0.23	43.8

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)
05U17/62-78	4.8	22.5	3.3	11.1	12,100	7.4	28,200	17.5	18.8
05U17/78-92	4.8	19.4	3.4	11.2	12,500	7.6	28,500	18.8	19.1
05U17/92-107	6.1	20.6	4.5	14.2	15,700	9.5	35,300	22.2	23.3
05U17/107-121	6.8	24.3	5.2	14.5	17,800	10.4	35,900	24.3	25.5
05U17/121-132	7.4	30.5	5.3	15.9	20,100	11.4	36,900	26.4	29.1
05U17/132-139	6.4	25.9	4.3	14.2	17,500	10.1	32,000	25.1	27.3
05U19/0-10	4.2	25.7	3	12.6	13,100	7.9	29,400	21.8	22.3
05U19/10-25	4.6	25	3.1	13	13,100	7.8	28,300	19.9	22.4
05U19/25-36	4.8	32.4	3.2	12.7	13,400	7.9	29,000	19.9	22.3
05U19/36-50	4.4	27.2	2.8	10.9	11,300	6.8	27,900	17	18.9
05U19/50-59	4.6	27.2	3	14.6	11,500	7	29,600	19	19.9
05U19/59-68	4.6	24.4	3	11.3	11,800	7.1	31,100	17.8	19.4
05U19/68-80	4.5	28	3	11.2	11,800	7	29,100	17.2	19.6
05U19/80-97	5.1	27.3	3.6	11.8	13,400	8	31,800	19.3	22.1
05U19/97-109	4.9	21.8	3.4	11.6	12,700	7.6	30,100	18.2	20.4
05U19/109-120	6	31.7	3.9	14.4	15,700	9	34,700	21.7	24.7
05U19/120-129	6.6	39.8	4.1	15.4	18,200	10.2	34,300	26.6	28.8
05U19/129-141	6.1	39.7	3.6	14.4	17,700	9.6	28,600	25.6	29.6
06U5/0-4	4.2	29.6	3.1	12.8	12,200	7.8	21,700	21.3	20.8
06U5/4-10	4.9	32.6	3.6	14.3	14,000	8.5	22,500	23.6	24.9
06U5/10-27	5.3	35.3	3.5	14.2	14,500	8.7	23,100	21.3	22.6
06U5/27-39	5.1	31.7	3.3	12.8	13,900	8.6	22,300	20	20.8
06U5/39-49	4.8	28.8	3.4	12.2	13,500	8.4	22,100	21.9	23.9
06U5/49-61	4.5	27.8	2.9	11.3	12,200	7.4	20,800	18.7	18.8
06U5/61-83	4.1	24.6	2.9	10.2	10,700	6.7	18,400	18.4	19.7
06U5/83-103	3.2	17	2.5	8.2	8,100	5.5	18,400	13.7	17.3
06U5/103-122	3.2	22	2.4	7.7	8,490	5.5	19,500	12.6	16.3
06U5/122-132	3.4	20.8	2.9	9.2	9,400	6.3	20,400	16.4	19.8
06U6/0-6	5	31.1	3.8	14	14,200	8.9	23,700	23.6	24.9

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	Rb (ppm)
05U17/62-78	7,640	344	0.24	2,810	4.8	9.2	329	12.3	77.5
05U17/78-92	7,080	371	0.28	2,870	4.5	9.4	302	12.4	77.7
05U17/92-107	8,640	486	0.38	3,400	6.2	11.7	355	14.8	95.9
05U17/107-121	14,000	493	0.43	3,720	7.1	12.9	530	14.6	96.1
05U17/121-132	14,600	497	0.5	4,900	7.6	14.7	603	16.1	102
05U17/132-139	11,900	436	0.42	4,920	6.9	12.8	511	15.4	90.4
05U19/0-10	6,550	442	0.29	4,200	4.5	8.9	663	16	81.4
05U19/10-25	7,130	392	0.28	3,660	3.6	9.8	393	13.3	79.4
05U19/25-36	7,900	392	0.31	3,330	4.7	9.7	422	13.1	79.9
05U19/36-50	7,740	325	0.22	2,680	3.4	8	361	11.7	74.9
05U19/50-59	8,330	343	0.24	2,720	3.9	8.4	368	12.2	78.7
05U19/59-68	8,050	347	0.32	2,800	3.3	8.6	330	12.4	81.2
05U19/68-80	7,330	362	0.27	2,640	4.1	8.4	290	11.7	77.3
05U19/80-97	6,540	398	0.32	2,880	5.4	9.9	276	12.9	85.2
05U19/97-109	8,470	367	0.22	2,590	3.2	9.2	324	12.2	80
05U19/109-120	12,200	452	0.39	3,650	5.6	11.7	449	14.3	91.6
05U19/120-129	12,900	472	0.46	4,950	5.8	13.3	510	16.2	94.7
05U19/129-141	12,900	414	0.5	5,760	6.8	13.3	550	15.2	83.1
06U5/0-4	6,420	353	0.44	4,400	6.20	9.2	640	13.10	72.3
06U5/4-10	7,330	418	0.44	4,420	7.80	11.3	642	13.60	76.2
06U5/10-27	6,960	400	0.48	4,080	8.50	11.9	475	13.10	73.6
06U5/27-39	6,620	376	0.46	3,820	8.2	10.9	382	12.7	72.5
06U5/39-49	7,020	353	0.42	4,100	6.7	10.3	381	13.2	73.1
06U5/49-61	5,840	298	0.4	3,630	7.1	9.6	325	11.9	66.2
06U5/61-83	7,400	234	0.36	3,770	4.8	8.6	376	10.8	61.6
06U5/83-103	8,030	198	0.23	3,020	4.1	7.2	282	9.55	58
06U5/103-122	8,490	220	0.33	2,780	4.5	7.3	278	9.66	58.6
06U5/122-132	9,880	242	0.45	3,450	3.9	7.5	324	10.6	62.5
06U6/0-6	8,210	453	0.48	4,910	8.3	11.2	797	14.4	77.8

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
05U17/62-78	1.1	4.5	127	5.33	1,750	0.51	1.06	26.8	11.1	35.2
05U17/78-92	1.1	4.6	122	5.8	1,650	0.51	1.11	26.7	11.4	37
05U17/92-107	1.6	5.8	132	6.78	2,060	0.61	1.29	31.8	13.2	48.7
05U17/107-121	1.9	6.6	165	7.86	2,380	0.62	1.47	36	14.8	54.9
05U17/121-132	1.8	7.2	168	8.09	2,530	0.66	1.69	43.7	17	58.1
05U17/132-139	1.3	6.4	155	7.61	2,400	0.59	1.66	41	15.9	48.2
05U19/0-10	0.75	4.6	87	6.39	1,690	0.52	1.26	28.3	12.2	38.4
05U19/10-25	0.63	4.9	103	6.14	1,720	0.51	1.21	28.5	12.2	35.5
05U19/25-36	0.93	5	119	6.26	1,820	0.52	1.29	28.6	12.9	37.2
05U19/36-50	0.99	4.1	119	5.61	1,610	0.48	1.21	23.3	11.1	30.7
05U19/50-59	1	4.3	131	5.84	1,620	0.52	1.14	24	11.7	33.3
05U19/59-68	0.87	4.2	130	5.32	1,440	0.51	1.02	23.8	10.5	31.2
05U19/68-80	1.1	4.2	124	5.06	1,610	0.48	0.99	24.5	10.6	31.4
05U19/80-97	1.2	4.9	107	5.84	1,800	0.54	1.14	28.4	12.1	41.6
05U19/97-109	0.99	4.6	118	5.58	1,710	0.48	1.06	24.6	11.1	37
05U19/109-120	1.3	5.7	159	6.8	2,070	0.59	1.45	32.7	14.1	42.8
05U19/120-129	1.1	6.6	171	8	2,480	0.6	1.82	41.8	16.6	48.5
05U19/129-141	0.81	6.4	172	7.53	2,310	0.54	1.83	45	16.3	45.1
06U5/0-4	0.47	4.3	82.6	5.90	1,590	0.43	1.29	28.6	13.5	37.0
06U5/4-10	0.5	5.1	90.9	6.61	1,800	0.47	1.41	34.3	15.6	42.2
06U5/10-27	0.6	5.6	94.8	6.88	1,920	0.48	1.45	35.6	14.3	41.9
06U5/27-39	0.56	5.2	99	6.3	1,830	0.47	1.32	34.4	13.6	40.1
06U5/39-49	0.52	4.7	103	6.2	1,770	0.47	1.38	33.1	14.4	36.9
06U5/49-61	0.52	4.6	102	6.12	1,630	0.44	1.28	30.8	12.4	34.2
06U5/61-83	0.46	3.8	155	5.15	1,380	0.37	1.19	29.6	12	28.7
06U5/83-103	0.44	3.1	202	3.86	1,060	0.36	0.98	24	9.4	24.7
06U5/103-122	0.54	3.2	206.0	3.88	1,060	0.38	1.00	25.0	8.7	26.9
06U5/122-132	0.53	3.5	193	4.43	1,180	0.4	1.18	25.8	10.4	29.4
06U6/0-6	0.58	5.2	96.3	6.5	1,910	0.47	1.4	33.5	19.9	43

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)
06U6/6-25	<1	45,900	4.9	485	1.3	0.13	15,300	0.18	44.6
06U6/25-54	<1	44,300	5.5	484	1.2	0.12	21,900	0.13	43
06U7/0-4	<1	42,200	4.6	472	1.3	0.14	8,430	0.24	41.8
06U7/4-13	<1	46,100	5.5	492	1.4	0.13	11,100	0.23	45.4
06U7/13-27	<1	44,300	5.5	468	1.4	0.12	16,300	0.18	41.4
06U7/27-52	<1	46,200	5.8	491	1.2	0.17	21,900	0.15	43.8
06U7/52-71	<1	44,200	5.6	489	1.2	0.12	19,400	0.12	41.5
06U7/71-101	<1	45,900	5.8	483	1.3	0.12	22,600	0.13	42.7
06U7/101-116	<1	34,800	4.9	454	0.97	0.08	34,800	0.12	29.4
06U7/116-135	<1	37,000	5	484	1.1	0.09	28,400	0.1	31.5
06U7/135-190	<1	32,500	6.2	406	0.9	0.08	52,400	0.15	29.1
06U8/0-3	<1	30,200	2.8	447	0.85	0.08	2,520	0.11	26.1
06U8/3-8	<1	33,100	3.3	446	0.91	0.1	2,610	0.14	28.8
06U8/8-15	<1	37,800	4.4	467	1.1	0.12	3,070	0.14	34.2
06U8/15-33	<1	36,000	4.2	454	1.2	0.09	14,000	0.09	31.4
06U8/33-57	<1	35,000	6.1	472	1.2	0.08	40,000	0.08	29.1
06U8/57-69	<1	36,500	7.2	473	1.3	0.09	30,000	0.08	30.9
06U8/69-80	<1	36,800	8.2	476	1.6	0.09	24,800	0.09	30.7
06U8/80-99	<1	35,600	7.9	434	1.5	0.09	24,900	0.08	30.2
06U8/99-120	<1	38,100	7.4	465	1.4	0.1	22,400	0.09	38.1
06U8/120-140	<1	43,000	6.5	534	1.2	0.11	19,700	0.1	44.5
06U8/140-154	<1	37,200	5.5	497	1.3	0.1	49,600	0.11	37
06U8/154-173	<1	32,400	5.5	457	2.3	0.08	85,100	0.1	26.1
06U9/0-7	<1	36,400	3.9	469	1	0.11	3,260	0.16	33.7
06U9/7-13	<1	41,200	5	463	1.3	0.1	3,820	0.14	35.2
06U9/13-26	<1	37,700	4.7	458	1	0.09	13,700	0.11	32.4
06U9/26-32	<1	34,700	5.3	432	1.2	0.08	42,300	0.1	30
06U9/32-65	<1	33,100	6.1	438	1.2	0.07	36,400	0.08	25.8
06U9/65-85	<1	37,500	6.6	488	1.3	0.08	21,400	0.07	32.6
06U9/85-132	<1	37,900	8.5	435	1.6	0.09	23,200	0.08	31.9

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)
06U6/6-25	5.8	36	3.7	15.8	15,900	9.4	24,600	23.3	24.1
06U6/25-54	5.7	35.8	3.8	15.9	15,500	9.4	23,600	22.6	23.8
06U7/0-4	4.7	35.4	3.4	15.3	14,100	8.7	23,900	22	20.5
06U7/4-13	5.8	37	4	16	16,200	9.5	25,000	24.2	24
06U7/13-27	5.6	36.4	3.8	15.5	15,600	9.4	24,000	22.6	23.8
06U7/27-52	5.9	36.9	4	15.6	16,000	9.4	24,300	23.4	25.1
06U7/52-71	5.4	34.9	3.8	16.2	15,300	8.8	23,600	21.9	23.5
06U7/71-101	5.7	33.7	4	14.5	15,900	9.5	23,000	22.8	24.9
06U7/101-116	4	22.3	2.9	10.2	11,000	6.7	20,000	15.8	19.2
06U7/116-135	4.2	27.2	3.1	10.8	11,400	7.1	21,500	17	19.1
06U7/135-190	4.2	27.5	3	9.4	10,800	6.2	18,800	16.3	16.9
06U8/0-3	2.7	25.7	2	10.7	8,480	5.7	21,300	13.9	12.3
06U8/3-8	3.3	26.9	2.4	12	9,820	6.4	22,200	15.2	13.9
06U8/8-15	4.6	29	3	12.5	12,400	7.7	23,300	17.7	18
06U8/15-33	4.2	25.2	2.9	11.9	11,100	7.1	22,500	16.8	16.1
06U8/33-57	4.5	26.2	2.9	11.1	11,000	6.9	23,500	15.7	14.9
06U8/57-69	4.6	25.6	3.2	10.6	11,300	7	24,000	16.6	15.4
06U8/69-80	5	26.9	3.4	10.7	12,000	7.4	25,500	16.2	15.5
06U8/80-99	4.9	26	3.4	11	11,200	7	25,000	16.2	14.2
06U8/99-120	5.2	28.8	3.3	11.7	12,900	7.7	24,600	18.6	17.3
06U8/120-140	5.4	33.4	3.2	13.9	14,800	8.6	22,800	22.1	20.8
06U8/140-154	5.1	36.1	2.9	11.2	13,200	7.9	21,000	19.7	19.8
06U8/154-173	4	21.5	3.1	7.7	10,000	6.5	21,200	14.1	14.3
06U9/0-7	3.8	38.9	2.6	13.2	11,400	6.7	23,800	18	15.8
06U9/7-13	5	34.3	3.3	13.8	13,600	8.4	24,900	18.8	19.4
06U9/13-26	4.5	34.2	3.1	13.1	12,300	7.5	24,400	17.4	17
06U9/26-32	4.2	27.6	2.8	12.1	10,700	6.6	22,700	15.8	14.8
06U9/32-65	4.1	29	2.8	10.1	9,880	6.1	23,100	14	13
06U9/65-85	4.6	31.8	3.2	11.4	11,600	6.9	25,800	16.5	14.8
06U9/85-132	5.1	31.4	3.7	11.4	12,300	7.4	27,100	17	15.1

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	Rb (ppm)
06U6/6-25	8,020	488	0.49	4,610	8.6	13.1	587	13.9	78.6
06U6/25-54	7,820	428	0.49	4,310	8.7	12.5	467	13.9	78
06U7/0-4	7,360	477	0.47	4,620	8.8	11.1	858	15.4	75.9
06U7/4-13	8,190	556	0.49	4,610	7	13.5	764	14.6	79.9
06U7/13-27	7,800	485	0.47	4,240	7	12.4	531	13.3	78.9
06U7/27-52	8,220	462	0.51	4,520	5.8	12.9	503	13.6	81.1
06U7/52-71	7,860	434	0.5	4,420	6.2	12.4	432	13.4	77.8
06U7/71-101	8,710	446	0.49	4,450	7.2	12.6	488	13.7	79.6
06U7/101-116	7,940	306	0.37	3,370	3.4	8.7	378	11.2	64.8
06U7/116-135	7,710	297	0.4	3,930	4.6	9.3	397	11.6	68.8
06U7/135-190	11,500	417	0.36	2,920	2.9	8.8	363	11.1	58.6
06U8/0-3	3,160	268	0.37	3,500	5.3	6.5	406	12.4	64.9
06U8/3-8	3,640	322	0.39	3,720	6	7.2	439	13.9	69.3
06U8/8-15	5,040	414	0.39	3,690	7	9.9	529	13.8	73.2
06U8/15-33	5,190	332	0.34	3,240	6.4	8.6	342	12.1	71.3
06U8/33-57	6,830	288	0.36	2,850	6.2	9	365	11.3	69.4
06U8/57-69	6,880	331	0.35	2,670	6.4	9.4	301	11.4	72.7
06U8/69-80	6,900	363	0.36	2,530	6.7	9.3	297	12.1	74.6
06U8/80-99	7,020	370	0.37	2,140	6.2	9	288	12.3	72.9
06U8/99-120	8,160	344	0.44	3,480	7.6	10.1	332	12.9	74.1
06U8/120-140	8,770	342	0.52	5,220	8.9	11.9	434	14.2	75.2
06U8/140-154	10,100	319	0.47	4,970	7.8	11	410	13.3	67.5
06U8/154-173	18,200	327	0.3	2,830	5.1	8.8	344	11.3	60.9
06U9/0-7	4,430	368	0.53	4,030	6.5	8.6	546	14.4	71.8
06U9/7-13	6,000	471	0.46	3,640	7.1	10.8	512	13	78.9
06U9/13-26	5,720	401	0.42	3,410	5.8	10.1	380	12.2	75.2
06U9/26-32	6,560	296	0.43	2,670	5.8	8.6	381	11.2	67.5
06U9/32-65	6,650	276	0.4	2,190	5.1	7.8	299	10.3	65.7
06U9/65-85	6,200	339	0.4	2,690	6.6	9.1	269	11.6	76.8
06U9/85-132	8,610	386	0.42	2,340	6.7	9.7	340	11.2	76.6

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
06U6/6-25	0.59	6.2	105	7.35	2,200	0.52	1.56	38.6	15.6	46.8
06U6/25-54	0.65	6.2	114	6.9	2,100	0.49	1.44	39	14.7	45.9
06U7/0-4	0.58	5.3	89.9	6.58	1,890	0.49	1.46	33.7	14.1	45.5
06U7/4-13	0.62	6.3	97.5	7.69	1,950	0.52	1.48	38.8	15.2	49.8
06U7/13-27	0.56	6.1	99.9	6.8	2,000	0.48	1.41	38.2	15	46.4
06U7/27-52	0.59	6.5	113	7.05	2,090	0.5	1.5	40.7	15.2	48.6
06U7/52-71	0.57	6.2	114	6.99	2,000	0.47	1.43	37.7	16.8	43.1
06U7/71-101	0.6	6.1	120	7.09	1,990	0.51	1.48	39.6	14.8	45.9
06U7/101-116	0.5	4.1	142	4.48	1,250	0.43	1.06	28.2	10.2	32
06U7/116-135	0.55	4.5	132	5.05	1,460	0.44	1.22	29.9	11.2	32.4
06U7/135-190	0.7	4.3	198	4.73	1,350	0.4	1.15	28.6	11.4	35
06U8/0-3	0.56	3	68	4.29	1,210	0.4	0.99	18.4	8.5	25.9
06U8/3-8	0.62	3.5	72.3	4.75	1,450	0.42	1.12	21.5	10	30.2
06U8/8-15	0.72	4.5	78.2	5.61	1,610	0.46	1.24	28.8	12.1	38.7
06U8/15-33	0.7	4.2	86	5.23	1,550	0.44	1.07	25.9	10.9	32.7
06U8/33-57	0.94	4.1	119	4.9	1,450	0.44	0.99	25.6	10.6	31.6
06U8/57-69	1.2	4.4	122	5.31	1,530	0.47	1.02	26.3	10.4	32.3
06U8/69-80	1.3	4.2	118	5.53	1,550	0.48	0.97	28.2	10.6	36.5
06U8/80-99	1.4	4.4	109	5.29	1,560	0.48	1.03	24.6	10.4	34.7
06U8/99-120	1.2	4.7	121	5.91	1,730	0.48	1.27	31.5	11.9	38.1
06U8/120-140	0.86	5.4	134	6.76	2,050	0.48	1.56	40.5	14	40.2
06U8/140-154	0.84	4.7	185	6.22	1,760	0.45	1.47	37.6	13.1	36
06U8/154-173	2.5	3.9	363	4.18	1,370	0.41	1.06	26.3	9.1	30.8
06U9/0-7	0.72	4	77.3	5.8	1,670	0.44	1.29	24.8	11.6	32.7
06U9/7-13	0.82	5.2	81.5	5.97	1,700	0.47	1.22	26.6	13.4	43.2
06U9/13-26	0.78	4.4	87.7	5.38	1,490	0.46	1.07	27.2	11.1	38.5
06U9/26-32	0.83	4.1	107	5.03	1,420	0.44	1.02	24.3	10	34
06U9/32-65	1	3.6	110	4.52	1,320	0.43	0.88	21	8.8	27.5
06U9/65-85	1.2	4.4	116	5.16	1,620	0.47	0.99	26.6	10.3	33.3
06U9/85-132	1.6	4.4	114	5.44	1,700	0.47	1.05	25	10.5	38.7

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Ag (ppm)	Al (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (ppm)	Cd (ppm)	Ce (ppm)
06U9/132-150	<1	44,400	10.2	481	1.6	0.11	20,900	0.1	41.3
06U13/0-4	<1	45,600	5.8	497	1.5	0.15	11,200	0.39	43.1
06U13/4-12	<1	50,700	6.2	524	1.4	0.15	9,100	0.33	46.7
06U13/12-28	<1	53,000	7.6	508	1.9	0.14	9,130	0.26	49.2
06U13/28-42	<1	48,300	7.6	491	1.9	0.14	16,200	0.21	47.1
06U13/42-68	<1	42,500	7.7	481	1.7	0.12	18,600	0.14	41.7
06U14/0-4	<1	46,400	6.8	503	1.5	0.17	11,800	0.3	42.3
06U14/4-12	<1	48,400	7.3	496	1.7	0.15	10,900	0.29	44.5
06U14/12-20	<1	50,900	7.2	513	1.7	0.14	8,100	0.29	48.6
06U14/20-37	<1	50,400	8	498	1.9	0.13	11,100	0.2	46.5
06U14/37-67	<1	49,100	8.9	496	1.6	0.14	17,800	0.17	47
06U14/67-86	<1	49,700	10.2	476	2.4	0.14	27,400	0.14	44.5
06U14/86-98	<1	41,200	7.5	523	1.9	0.12	14,000	0.08	32.4
06U14/98-110	<1	28,400	5.3	364	1.3	0.07	4,030	0.04	19.1

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (ppm)	Ga (ppm)	K (ppm)	La (ppm)	Li (ppm)
06U9/132-150	5.8	37.3	4	12.6	15,100	8.9	26,800	21.4	19.2
06U13/0-4	5.8	37.8	3.7	16.7	15,500	9.5	26,900	22.5	22.1
06U13/4-12	6.6	42.6	4.1	18	17,900	10.7	28,600	24.6	23.4
06U13/12-28	7.1	40.4	4.4	18.4	19,000	11.4	28,400	26.1	26.8
06U13/28-42	6.8	37.8	4.3	15.9	17,600	10.4	26,800	24.1	25.3
06U13/42-68	6.1	34	3.6	14.2	15,000	8.8	25,500	21.1	21.8
06U14/0-4	5.9	35.7	3.7	16	15,800	9.3	26,500	21.7	23.1
06U14/4-12	6.4	36.1	4.1	16	17,000	10.3	28,300	22.8	26
06U14/12-20	6.9	40.4	4.3	18	18,400	11.2	28,900	25.1	26.9
06U14/20-37	6.9	39.8	4.1	17.3	17,900	10.7	28,300	24.1	24.9
06U14/37-67	7	39.7	4.2	16.4	17,800	10.4	28,500	23.8	24
06U14/67-86	7.2	39.8	4.4	14.1	18,300	10.6	26,800	23.1	24.9
06U14/86-98	5.1	32.3	3.6	10	13,900	8.7	23,500	17.6	20.5
06U14/98-110	3	26.3	2.3	7.1	8,600	5.7	20,400	10.6	12

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Mg (ppm)	Mn (ppm)	Mo (ppm)	Na (ppm)	Nb (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	Rb (ppm)
06U9/132-150	10,500	410	0.5	4,260	8.7	11.5	439	13.3	81.4
06U13/0-4	7,640	632	0.57	4,470	9.5	12.3	948	17.1	82.2
06U13/4-12	8,130	696	0.6	4,860	11	14.6	971	16.8	88.4
06U13/12-28	8,450	732	0.59	4,620	11	16.1	580	16.6	92.6
06U13/28-42	8,330	620	0.61	4,340	10	14.2	510	16.7	85.6
06U13/42-68	6,590	465	0.56	3,630	8.5	12.1	389	16.1	80.6
06U14/0-4	8,420	637	0.6	4,590	9.2	12.7	1000	18	82.9
06U14/4-12	8,830	678	0.57	4,490	9.9	14.4	940	16.7	84.3
06U14/12-20	8,370	705	0.62	5,020	10	15.6	752	16.3	88.8
06U14/20-37	7,870	660	0.63	4,440	9.8	15.4	501	16.2	89.4
06U14/37-67	7,440	571	0.61	4,310	10	14.1	428	16.9	86.3
06U14/67-86	8,730	502	0.65	3,900	9.3	15.3	488	18.2	83.9
06U14/86-98	7,810	328	0.6	2,990	7.1	11.3	430	15.3	76
06U14/98-110	4,310	181	0.39	1,530	4.5	7.6	259	12.4	61.7

Table 11b. Geochemical data; ICP-MS—Continued

Sample #	Sb (ppm)	Sc (ppm)	Sr (ppm)	Th (ppm)	Ti (ppm)	Tl (ppm)	U (ppm)	V (ppm)	Y (ppm)	Zn (ppm)
06U9/132-150	1.4	5.4	130	6.89	2,050	0.52	1.38	36.6	13.5	47.1
06U13/0-4	0.94	5.8	116	6.84	2,250	0.5	1.49	37.6	15.1	51.6
06U13/4-12	1.2	6.8	127	7.38	2,560	0.53	1.63	42.7	16.9	55.6
06U13/12-28	1.1	7.4	136	7.87	2,440	0.55	1.64	46.8	17.2	59.8
06U13/28-42	1.1	6.7	142	7.81	2,170	0.57	1.59	44.6	16	55.7
06U13/42-68	1.3	5.7	160	6.61	1,880	0.52	1.35	39.1	13.7	49
06U14/0-4	1	5.9	115	7.05	2,090	0.53	1.52	38.2	15.8	52.6
06U14/4-12	1.1	6.6	122	7.26	2,180	0.56	1.56	41	15.4	55
06U14/12-20	1.1	6.7	128	7.79	2,350	0.56	1.62	44.7	16.6	57.8
06U14/20-37	1.2	6.8	137	7.51	2,210	0.56	1.55	44.9	15.5	55.5
06U14/37-67	1.4	6.7	168	7.27	2,290	0.55	1.47	45.2	16.1	57.7
06U14/67-86	1.9	6.8	214	7.42	2,070	0.55	1.46	45.9	14.4	61.1
06U14/86-98	1.9	5.2	173	5.36	1,540	0.5	1.21	36.2	10.9	43.5
06U14/98-110	1.8	2.8	114	3.09	984	0.4	0.78	21.1	6.9	23.5

Table 11c. Geochemical data; INAA.

Sample #	Fe %	Ca %	Na %	K %	Rb ppm	Sr ppm	Cs ppm	Ba ppm	Th ppm	U ppm
06U5/10-27	1.51	1.27	0.40	2.25	77.60	105.00	3.67	483.00	6.79	2.02
06U5/27-39	1.45	1.61	0.38	2.15	74.30	108.00	3.51	474.00	6.52	1.90
06U5/49-61	1.28	1.99	0.36	1.95	69.30	105.00	3.10	460.00	6.06	1.88
06U5/103-122	0.88	3.84	0.26	1.82	58.90	206.00	2.50	451.00	4.12	1.50
06U8/8-15	1.30	0.28	0.36	2.17	75.50	80.40	3.18	477.00	6.25	1.90
06U8/33-57	1.09	3.45	0.26	2.12	68.00	113.00	2.95	461.00	5.10	1.46
06U8/69-80	1.21	2.24	0.24	2.30	73.60	118.00	3.50	474.00	5.45	1.48
06U8/99-120	1.36	2.29	0.34	2.18	75.70	128.00	3.54	481.00	6.30	1.85
06U8/140-154	1.37	4.86	0.48	1.86	68.40	189.00	3.03	502.00	6.37	2.04
06U14/12-20	1.83	0.70	0.45	2.61	89.60	122.00	4.44	512.00	7.78	2.10
06U14/20-37	1.79	1.04	0.43	2.73	87.50	134.00	4.37	502.00	7.60	2.02
06U14/37-67	1.76	1.67	0.42	2.55	85.30	168.00	4.37	497.00	7.48	1.93
06U14/67-86	1.89	2.72	0.39	2.53	87.10	221.00	4.83	501.00	7.31	1.85

Sample #	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Ho ppm	Tm ppm	Yb ppm	Lu ppm
06U5/10-27	21.10	42.80	21.00	4.12	0.80	4.07	0.55	0.83	0.36	2.21	0.34
06U5/27-39	20.20	41.10	19.10	3.94	0.76	3.80	0.53	0.82	0.35	2.11	0.33
06U5/49-61	18.60	38.00	17.40	3.73	0.70	3.38	0.48	0.72	0.33	2.14	0.32
06U5/103-122	12.90	26.30	13.00	2.64	0.50	2.24	0.34	0.51	0.23	1.45	0.22
06U8/8-15	18.40	37.40	17.50	3.54	0.71	3.40	0.50	0.77	0.35	2.16	0.33
06U8/33-57	14.90	30.60	14.30	2.97	0.59	2.53	0.40	0.58	0.26	1.70	0.26
06U8/69-80	15.90	32.40	15.20	3.08	0.62	2.47	0.40	0.61	0.28	1.72	0.26
06U8/99-120	18.50	38.10	17.50	3.58	0.71	3.18	0.48	0.71	0.32	2.03	0.31
06U8/140-154	19.30	39.30	18.30	3.71	0.73	3.18	0.50	0.73	0.33	2.02	0.31
06U14/12-20	24.80	49.80	23.50	4.82	0.94	4.28	0.64	0.87	0.37	2.40	0.36
06U14/20-37	23.80	48.20	22.60	4.64	0.92	3.85	0.62	0.84	0.38	2.41	0.36
06U14/37-67	23.80	48.80	22.00	4.67	0.94	3.93	0.61	0.84	0.36	2.25	0.34
06U14/67-86	23.00	46.40	22.10	4.59	0.93	4.07	0.57	0.78	0.33	2.00	0.30

Table 11c. Geochemical data; INAA—Continued

Sample #	Zr ppm	Hf ppm	Ta ppm	W ppm	Sc ppm	Cr ppm	Co ppm	Ni ppm	Zn ppm	As ppm	Sb ppm
06U5/10-27	366.00	9.22	0.69	1.13	5.48	41.20	5.10	12.10	37.10	4.71	0.66
06U5/27-39	358.00	9.08	0.66	1.19	5.26	39.60	4.94	11.50	37.30	4.62	0.64
06U5/49-61	382.00	9.72	0.60	1.18	4.63	35.30	4.40	10.30	30.90	4.41	0.60
06U5/103-122	318.00	7.83	0.42	0.54	3.15	28.80	3.08	8.34	23.80	4.56	0.60
06U8/8-15	423.00	10.60	0.64	1.25	4.67	38.00	4.34	9.82	34.00	4.15	0.84
06U8/33-57	299.00	7.49	0.53	1.46	3.89	30.80	4.14	10.30	27.00	5.50	1.01
06U8/69-80	299.00	7.55	0.57	1.07	4.26	31.80	4.73	10.10	31.00	7.24	1.45
06U8/99-120	366.00	9.20	0.65	1.02	4.71	36.40	5.08	12.10	33.50	7.06	1.30
06U8/140-154	349.00	8.59	0.63	1.63	4.73	34.50	4.88	11.30	31.20	4.84	0.94
06U14/12-20	340.00	8.49	0.78	2.08	6.54	45.30	6.54	16.70	51.20	6.71	1.39
06U14/20-37	342.00	8.43	0.76	2.65	6.40	46.50	6.45	13.60	49.20	7.08	1.58
06U14/37-67	304.00	7.47	0.76	2.59	6.25	43.80	6.60	13.60	52.00	8.44	1.76
06U14/67-86	245.00	6.15	0.72	3.28	6.63	43.90	7.00	13.70	56.40	9.67	2.51

Table 11c. Geochemical data; INAA, Chondrite normalized; n.d. – not determined.

Sample #	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
06U5/10-27	67.85	52.64	n.d.	34.77	n.d.	21.02	10.80	15.65	11.64	n.d.	11.52	n.d.	10.98	10.52	10.59
06U5/27-39	64.95	50.55	n.d.	31.62	n.d.	20.10	10.30	14.62	11.28	n.d.	11.43	n.d.	10.86	10.05	10.09
06U5/49-61	59.81	46.74	n.d.	28.81	n.d.	19.03	9.45	13.00	10.21	n.d.	10.08	n.d.	10.18	10.19	9.94
06U5/103-122	41.48	32.35	n.d.	21.52	n.d.	13.47	6.80	8.62	7.23	n.d.	7.10	n.d.	7.06	6.90	6.94
06U8/8-15	59.16	46.00	n.d.	28.97	n.d.	18.06	9.53	13.08	10.66	n.d.	10.78	n.d.	10.67	10.29	10.15
06U8/33-57	47.91	37.64	n.d.	23.68	n.d.	15.15	8.01	9.73	8.43	n.d.	8.09	n.d.	8.01	8.10	8.05
06U8/69-80	51.13	39.85	n.d.	25.17	n.d.	15.71	8.39	9.50	8.53	n.d.	8.44	n.d.	8.56	8.19	8.08
06U8/99-120	59.49	46.86	n.d.	28.97	n.d.	18.27	9.57	12.23	10.19	n.d.	9.83	n.d.	9.85	9.67	9.50
06U8/140-154	62.06	48.34	n.d.	30.30	n.d.	18.93	9.80	12.23	10.62	n.d.	10.10	n.d.	10.18	9.62	9.47
06U14/12-20	79.74	61.25	n.d.	38.91	n.d.	24.59	12.68	16.46	13.51	n.d.	12.08	n.d.	11.47	11.43	11.27
06U14/20-37	76.53	59.29	n.d.	37.42	n.d.	23.67	12.42	14.81	13.15	n.d.	11.63	n.d.	11.60	11.48	11.08
06U14/37-67	76.53	60.02	n.d.	36.42	n.d.	23.83	12.68	15.12	13.00	n.d.	11.66	n.d.	11.17	10.71	10.40
06U14/67-86	73.96	57.07	n.d.	36.59	n.d.	23.42	12.51	15.65	12.02	n.d.	10.81	n.d.	10.06	9.52	9.32

Sample #	Ho	Er	Tm	Yb	Lu
06U5/10-27	11.52	n.d.	10.98	10.52	10.59
06U5/27-39	11.43	n.d.	10.86	10.05	10.09
06U5/49-61	10.08	n.d.	10.18	10.19	9.94
06U5/103-122	7.10	n.d.	7.06	6.90	6.94
06U8/8-15	10.78	n.d.	10.67	10.29	10.15
06U8/33-57	8.09	n.d.	8.01	8.10	8.05
06U8/69-80	8.44	n.d.	8.56	8.19	8.08
06U8/99-120	9.83	n.d.	9.85	9.67	9.50
06U8/140-154	10.10	n.d.	10.18	9.62	9.47
06U14/12-20	12.08	n.d.	11.47	11.43	11.27
06U14/20-37	11.63	n.d.	11.60	11.48	11.08
06U14/37-67	11.66	n.d.	11.17	10.71	10.40
06U14/67-86	10.81	n.d.	10.06	9.52	9.32

Table 12. Plant-essential chemical data

[P-Bicarb: NaHCO_3 -extractable phosphorus.

K-av: NaHCO_3 -extractable potassium.

OM: Organic matter content; Walkley and Black method (Singer and Janitzky, 1986).

pH: As determined from a saturated paste extract.

EC: Electrical conductivity.

CEC: Cation exchange capacity (Na displacement by 1M NH_4OAc at pH 7.0).

Zn-Dtpa: Zinc extractable with diethylenetriaminepentaacetic acid.

Fe-Dtpa: Iron extractable with diethylenetriaminepentaacetic acid.

Mn-Dtpa: Manganese extractable with diethylenetriaminepentaacetic acid.

Cu-Dtpa: Copper extractable with diethylenetriaminepentaacetic acid.

$\text{SO}_4\text{-S}$: KCl-extractable sulfur.

Ca-Ex: Exchangeable Ca^{2+} extractable with NH_4OAc buffered to pH 8.5.

Mg-Ex: Exchangeable Mg^{2+} extractable with NH_4OAc buffered to pH 8.5.

K-Ex: Exchangeable K^+ extractable with NH_4OAc buffered to pH 8.5.

Na-Ex: Exchangeable Na^+ extractable with NH_4OAc buffered to pH 8.5.

TKN: Total Kjeldahl Nitrogen.]

Table 12. Plant essential chemical data.

Sample	P-Bicarb (ppm)	K-av (ppm)	OM (%)	pH	EC (dS\M)	CEC (meq\100g)	Zn-Dtpa (ppm)	Fe-Dtpa (ppm)
05U3/018	13.76	92.80	0.27	8.02	0.41	9.61	0.28	1.64
05U5/0-10	14.67	220.80	1.02	7.89	0.52	10.57	0.54	2.21
05U6/0-10	11.05	188.80	0.69	7.87	0.40	10.04	0.26	1.89
05U7/0-18	10.13	281.60	0.67	7.81	0.43	11.96	0.22	1.48
05U8A/0-10	10.91	179.20	0.85	7.73	0.42	11.65	0.50	1.93
05U8B/0-10	10.46	192.00	0.59	7.76	0.43	12.52	0.26	1.37
05U9/0-10	18.86	265.60	1.13	7.79	0.53	18.04	0.38	2.21
05U10/0-10	13.14	208.00	0.80	7.96	0.51	12.26	0.54	2.10
05U11/0-10	15.60	217.60	1.17	7.77	0.41	16.13	0.56	2.55
05U13/0-10	18.86	128.00	0.57	7.53	0.54	16.09	0.24	2.40
05U15/0-10	26.22	124.80	0.70	8.22	0.41	15.65	0.52	3.02
05U17/0-10	15.67	217.60	1.09	7.59	0.46	12.17	0.44	3.30
05U19/0-10	35.47	153.60	0.91	7.85	0.42	10.61	0.40	3.27
05U20/0-10	21.28	204.80	0.78	7.88	0.44	12.78	0.64	2.28
05U21/0-10	20.49	233.60	0.86	7.74	0.61	3.74	0.50	2.82
05U22/0-10	17.35	204.80	0.72	7.96	0.43	11.13	0.44	2.03
05U23/0-10	19.16	201.60	0.81	8.00	0.46	8.39	0.42	2.77
05U24/0-10	18.02	182.40	1.11	7.90	0.53	12.00	0.54	2.93
05U25/ 0-10	15.60	198.40	0.93	7.98	0.44	12.26	0.50	2.49
05U26/0-10	21.84	118.40	0.46	7.56	1.00	10.74	0.32	3.75
05U27/0-10	21.04	99.20	0.72	7.91	0.31	10.96	0.30	3.91
05U28/0-10	17.87	115.20	0.44	7.30	0.45	9.26	0.08	5.02
05U29/0-10	15.38	80.00	0.70	7.15	0.41	9.22	0.40	5.59
05U30/0-10	17.87	185.60	0.53	7.80	0.69	8.61	0.26	2.51
05U31/0-10	15.60	195.20	0.79	7.56	0.77	10.83	0.74	2.15
05U32/0-10	17.42	201.60	0.07	8.03	0.53	9.57	0.66	3.27
05U33/0-10	16.39	147.20	0.54	7.81	0.83	6.96	0.72	3.78

Table 12. Plant essential chemical data—Continued

Sample	Mn-Dtpa (ppm)	Cu-Dtpa (ppm)	SO ₄ -S (ppm)	Ca-Ex (ppm)	Mg-Ex (ppm)	K-Ex (ppm)	Na-Ex (ppm)	TKN (ppm)
05U3/018	3.22	0.50	0.00	6984.00	181.42	144.72	48.40	220.10
05U5/0-10	7.32	0.66	0.00	5744.00	306.40	293.80	45.74	979.50
05U6/0-10	6.45	0.53	0.00	4746.00	368.60	315.60	52.52	382.50
05U7/0-18	6.19	0.57	0.00	7054.00	338.00	497.00	49.66	315.60
05U8A/0-10	6.87	0.55	0.13	6658.00	414.80	303.40	56.60	424.80
05U8B/0-10	5.04	0.79	0.13	6070.00	329.00	367.80	54.80	350.30
05U9/0-10	10.10	0.39	0.01	5920.00	378.40	398.20	46.88	491.50
05U10/0-10	11.33	0.75	0.07	4656.00	495.60	350.20	54.40	546.70
05U11/0-10	10.41	0.81	0.33	5560.00	493.00	386.20	58.10	608.10
05U13/0-10	5.69	0.80	0.00	5744.00	671.40	293.80	57.06	380.00
05U15/0-10	6.93	0.95	0.28	6984.00	558.40	261.00	60.54	384.20
05U17/0-10	11.10	0.54	0.18	4564.00	445.00	329.00	57.52	513.50
05U19/0-10	8.73	0.40	0.05	5980.00	213.60	234.60	55.44	430.40
05U20/0-10	5.99	0.77	0.00	6228.00	503.00	346.60	60.44	491.40
05U21/0-10	6.21	0.81	0.00	4746.00	478.60	402.60	69.44	471.70
05U22/0-10	6.15	0.93	0.00	8512.00	270.20	332.80	49.64	397.20
05U23/0-10	5.68	0.44	0.00	7750.00	233.00	301.00	58.02	347.40
05U24/0-10	4.66	0.60	0.00	8162.00	220.00	289.20	62.60	482.70
05U25/ 0-10	6.72	0.95	0.07	6602.00	300.40	343.40	62.44	487.20
05U26/0-10	7.45	0.59	0.00	4302.00	397.60	210.60	55.72	286.40
05U27/0-10	4.90	0.57	0.00	4982.00	327.60	184.60	57.00	311.00
05U28/0-10	6.18	0.17	0.00	3576.00	263.40	175.40	59.34	246.10
05U29/0-10	6.71	0.28	0.00	3840.00	321.80	123.86	55.90	285.40
05U30/0-10	6.14	0.20	0.00	5086.00	210.80	263.20	58.40	284.20
05U31/0-10	5.74	0.37	0.03	5824.00	479.40	348.40	59.54	412.00
05U32/0-10	6.83	0.27	0.07	5600.00	362.40	333.40	56.64	410.10
05U33/0-10	6.00	0.27	0.14	4424.00	160.70	186.86	62.90	421.30

Table 13. Age data

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

Table 13-1. ^{14}C age from Trench 1A, site CS1.

Field Sample #	Lab Sample # ^a	Material dated	Stratigraphic unit	Depth below surface (m)	^{14}C age ^b	Calibrated age ^c
Trench 1A/95-105	WW6075	Charcoal	Contact of units 1A-1 and 1A-2	0.95 - 1.00	4610 $\pm$ 35	5275 $\pm$ 190

^a Samples processed and lab number assigned at ^{14}C laboratory of the U.S. Geological Survey in Reston, Va.

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

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

Table 13-2. OSL ages from Trenchs 1A, 1B, 2, 4, and 5.

Sample	Laboratory number ^a	Aliquots	Equivalent dose (Gray) ^b	U (ppm) ^c	Th (ppm) ^c	K20 (%) ^c	A value ^d	H20 (%)	Cosmic dose (mGray/yr) ^e	Dose rate (mGray/yr)	Optical age (yr) ^f
Trench 1A O6U-15	UIC2315	19	8.73 ± 0.76	1.5 ± 0.1	5.1 ± 0.1	2.64 ± 0.03	0.071 ± 0.007	5 ± 2	0.29 ± 0.03	4.04 ± 0.29	2110 ± 215
Trench 1A O6U-16	UIC2310	25	26.93 ± 1.49	1.4 ± 0.1	4.9 ± 0.1	3.03 ± 0.03	0.067 ± 0.007	5 ± 2	0.26 ± 0.03	4.32 ± 0.22	6220 ± 510
Trench 1A O6U-17	UIC2335	22	19.84 ± 1.07	1.5 ± 0.1	5.6 ± 0.1	2.99 ± 0.03	0.060 ± 0.006	5 ± 2	0.27 ± 0.03	4.36 ± 0.22	4550 ± 365
Trench 1A O6U-18	UIC2336	28	35.39 ± 2.59	1.4 ± 0.1	4.1 ± 0.1	2.19 ± 0.02	0.073 ± 0.007	5 ± 2	0.24 ± 0.02	3.41 ± 0.17	10,370 ± 925
Trench 1B O6U-19	UIC2316	26	6.70 ± 0.49	2.0 ± 0.1	7.1 ± 0.1	3.15 ± 0.03	0.054 ± 0.005	5 ± 2	0.28 ± 0.03	4.82 ± 0.24	1385 ± 125
Trench 2 O6U-6	UIC2312	22	7.98 ± 0.43	2.1 ± 0.1	7.3 ± 0.1	2.79 ± 0.03	0.059 ± 0.006	5 ± 2	0.28 ± 0.03	4.57 ± 0.23	1740 ± 135
Trench 2 O6U-6	UIC2312Q	29	8.17 ± 0.53	2.1 ± 0.1	7.3 ± 0.1	2.79 ± 0.03	0.059 ± 0.006	5 ± 2	0.28 ± 0.03	4.57 ± 0.23	1780 ± 150
Trench 2 O6U-7	UIC2314	22	11.87 ± 0.63	2.0 ± 0.1	6.8 ± 0.1	2.75 ± 0.03	0.081 ± 0.008	5 ± 2	0.26 ± 0.03	4.60 ± 0.23	2575 ± 195
Trench 2 O6U-10	UIC2334	30	31.88 ± 1.40	2.2 ± 0.1	6.6 ± 0.1	2.38 ± 0.02	0.072 ± 0.007	5 ± 2	0.26 ± 0.03	4.22 ± 0.21	7555 ± 520
Trench 2 O6U-10	UIC2334Q	25	30.98 ± 1.65	2.2 ± 0.1	6.6 ± 0.1	2.38 ± 0.02	0.072 ± 0.007	5 ± 2	0.26 ± 0.03	4.22 ± 0.21	7350 ± 550
Trench 4 O6U-20	UIC2317	21	22.78 ± 1.02	4.0 ± 0.1	7.6 ± 0.1	3.20 ± 0.02	0.070 ± 0.007	5 ± 2	0.27 ± 0.03	5.05 ± 0.25	4505 ± 330
Trench 5 O6U-4 30cm	UIC2313	17	15.42 ± 1.78	1.5 ± 0.1	5.5 ± 0.1	3.03 ± 0.02	0.033 ± 0.003	5 ± 2	0.29 ± 0.03	4.23 ± 0.21	3640 ± 465
Trench 5 O6U-4 100cm	UIC2318	25	8.31 ± 1.24	1.6 ± 0.1	5.0 ± 0.1	3.03 ± 0.02	0.050 ± 0.005	5 ± 2	0.26 ± 0.03	4.22 ± 0.21	1965 ± 300
Trench 5 O6U-4 145cm	UIC2311	30	undetectable	1.6 ± 0.1	5.0 ± 0.1	2.85 ± 0.02	undetectable	5 ± 2	0.24 ± 0.02	incalculable	incalculable

^aFine-grained (4–11 micron) polymineral fraction analyzed with a prior infrared (880 ± 40 nm) exposure and subsequent blue-light excitation (470 ± 20 nm) by single aliquot regeneration protocol (Murray and Wintle, 2003; Banerjee and others, 2001). “Q” designates the fine-grained quartz extract from digestion of the polymineral sample in hydrofluosilicic acid (silica saturated) for six days (Berger, 1980; Roberts, 2007), subsequently analyze by single aliquot regeneration protocols (Murray and Wintle, 2003).

^bEquivalent dose calculated using the central age model of Galbraith and others (1999).

^cU, Th, and K20 content analyzed by inductively coupled plasma-mass spectrometry analyzed by Activation Laboratory LTD, Ontario, Canada.

^dFrom Aitken and Bowman, 1975.

^eFrom Prescott and Hutton, 1994.

^fAll errors are at 1 sigma. Ages from the reference year AD 2000 and rounded to nearest half decade.