

Nile Delta Drill Core and
Sample Database for 1985–1994:
Mediterranean Basin
(MEDIBA) Program

*Daniel Jean Stanley, James E. McRea, Jr.,
and John C. Waldron*



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ABSTRACT

Stanley, Daniel Jean, James E. McRea, Jr., and John C. Waldron. Nile Delta Drill Core and Sample Database for 1985–1994: Mediterranean Basin (MEDIBA) Program. *Smithsonian Contributions to the Marine Sciences*, number 37, 428 pages, 10 figures, 2 tables, 1996.—This document is designed to serve as the catalog for a complete set of lithologic logs of 87 sediment borings drilled in the northern Nile delta of Egypt in the course of the Nile Delta Project, from 1985 to 1994. The project, part of the Mediterranean Basin (MEDIBA) Program, was initiated to interpret the recent geological evolution of this depocenter, from the time of its formation about 8000 years ago to the present. The data set includes the major petrologic attributes of these borings, which range in length from ~20 to 60 m. The results of textural and sand-sized compositional analyses of 2500 core samples are provided, as well as the ages of 358 radiocarbon-dated samples to as old as ~35,000 years before present. These data constitute the foundation of the Nile Delta Project's investigation. A review of the methods employed in the field and laboratory and an inventory of published articles and theses completed through 1994 as part of this multidisciplinary and multinational effort also are presented. This database facilitates the distinction between anthropogenic and natural factors that determine the evolution of the delta. It is intended to provide a comprehensive record of subsurface deposits in the northern delta, accumulating in late Pleistocene to Holocene time, to be used by those agencies and specialists responsible for monitoring the rapidly changing Nile delta depocenter.

The information published in this document is accessible electronically on the Internet from the Smithsonian Institution's National Museum of Natural History Gopher Server at URL "gopher://nmnhgoph.si.edu/11/paleo" or via hypertext document (http) at "http://nmnhwww.si.edu/gopher-menus/." Further information can be obtained from the National Museum of Natural History's Collection and Research Information System (CRIS) Program, Washington, D.C. 20560.

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Nile Delta Drill Core and Sample Database for 1985–1994: Mediterranean Basin (MEDIBA) Program

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Introduction

Modern marine deltas are vital agricultural and aquacultural resources for the world's rapidly growing population. These coastal depocenters are generally low-lying and thus highly vulnerable to natural environmental changes, such as global sea-level oscillations and vertical displacement of land relative to sea level. Most of the world's large deltas are subsiding, largely as an isostatic response to loading by thick depositional sequences and their compaction. Thus, even if global sea level were not to rise in the future, the lower plains and coasts of deltas are particularly prone to incursion by the sea, which will induce land loss and reduce agricultural productivity at a time when it is most needed. The situation will be substantially aggravated if global sea level should rise, as predicted by some for the next century (Wigley and Raper, 1992).

Until recently, surprisingly little research pertaining to deltas has focused on differentiating the effects of global rise in sea level from those of lowering of land by isostasy, tectonism, and sediment compaction. This problem is of considerable concern,

particularly in view of the increased effects of humans on world river and coastal systems. For example, emplacement of dams, diversion and dredging of river channels, intensification of agricultural projects, construction of increasingly complex and dense irrigation systems, and modification of coastlines are producing unexpected and frequently deleterious side-effects in deltaic areas. Coastal management reports on deltas all concur that this interaction of natural and anthropogenic factors is presently inducing accelerated changes in delta plains and coasts (Kay, 1993), and that these environments now require more active monitoring by scientists and engineers. Geologists can play a valuable role in this type of environmental monitoring in that they are trained to map and evaluate changes in time and space. Moreover, they are adept in using a multidisciplinary approach that integrates stratal geometry and petrologic, biological, and chemical information (Broussard, 1975; Coleman, 1982; Posamentier and Vail, 1987; Stanley and Warne, 1993a).

It is recalled that the Nile delta, positioned in a desert environment on the northeastern African margin, was one of the first such depocenters to attract the attention of scholars interested in recording deltaic phenomena. In the mid-fifth century B.C., the Greek historian Herodotus called attention to some general sedimentological aspects of the Nile delta, and to its triangular shape giving rise to the term "delta" to denote this type of geographical feature. Despite this early interest, no systematic, comprehensive geological and environmental study of the Nile delta had been undertaken prior to the end of this century.

A project to define the late Quaternary geological evolution of the lower Nile delta plain of northern Egypt, taking into account both natural and anthropogenic factors, was thus initiated in 1985 at the National Museum of Natural History,

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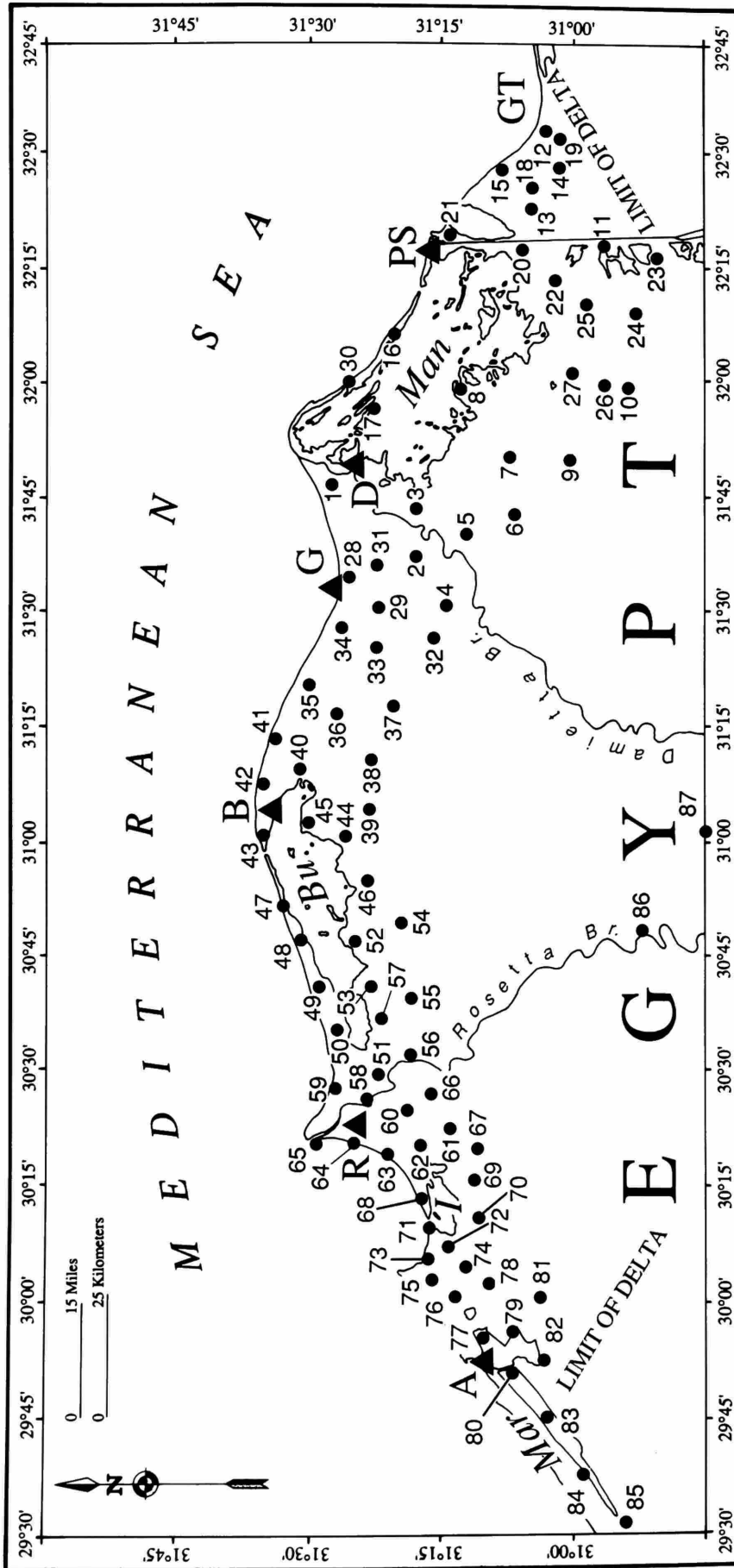


FIGURE 1.—Northern Nile delta of Egypt, showing positions of the 87 Smithsonian sediment boring sites. Also denoted are the four coastal lagoons (Bu = Burullus; I = Idku; Man = Manzala; Mar = Mariut), two main Nile distributaries (Damietta and Rosetta branches), and their promontories. Northern delta and coastal cities include the following: A, Alexandria; B, Baltim; D, Damietta; G, Gamassa; PS, Port Said, the Mediterranean port on the Suez Canal in the northeastern delta; and R, Rosetta.

Smithsonian Institution. The Nile delta depocenter was specifically selected for several reasons: (1) this delta is the major breadbasket for Egypt, where the population is now approaching 60 million; (2) Egypt's already limited percapita arable land has declined steadily to about 0.06 ha, now the lowest figure of any country in Africa (Biswas, 1993); (3) the delta's northern sector is near (elevation of little more than 1 m) and in some areas below sea level, and thus it is particularly vulnerable to even small changes of sea level; (4) the delta has long been occupied, cultivated, and modified by humans (Butzer, 1976; Stanley and Warne, 1993b); and (5) its fluvial regime has been completely altered since the beginning of the century by intensified irrigation projects and emplacement of two dams at Aswan and also a series of barrages along the Nile from upper Egypt to near the Mediterranean coast (Waterbury, 1979).

Following closure of the High Aswan Dam in 1964, numerous studies have focused on increased problems related to land reclamation (Waterbury, 1979; Biswas, 1993) and erosion of the Nile delta coast (UNDP/UNESCO, 1976, 1977, 1978; Abdel-Kader, 1982; Frihy, 1988; Smith and Abdel-Kader, 1988). Recent changes offshore (Stanley and Maldonado, 1977; Maldonado and Stanley, 1978; Coleman et al., 1981; Frihy and Lotfy, 1994), including those in the northern sector of the Suez Canal that crosses the northeastern delta (Morcos and Messieh, 1973; Stanley et al., 1982; Gerges and Stanley, 1985), have also been considered. It is of note, however, that as recently as the early 1980s, no systematic analyses had been made of the recent geological history of the landward part of the delta.

In 1983, the senior author was invited to Egypt to assess the possibility of initiating a long-term geological study of the Nile delta and its evolution from latest Pleistocene to Holocene time. The Nile Delta Project was formalized and officially initiated in early 1985, and for ten years it became the major activity of staff and visiting scientists participating in the Mediterranean Basin (MEDIBA) Program. Throughout this period, the project was directed from the United States' National Museum of Natural History, Smithsonian Institution, in Washington, D.C., and involved the cooperation of Egyptian scientists at the Coastal Research Institute in Alexandria, the Ain Shams University in Abassiya, Cairo, and the University of Cairo. More than 40 scientists from North America, Egypt, Europe, and Asia have been part of the Nile Delta Project team.

To interpret the late Pleistocene and Holocene history of the northern Nile delta, including its coastal plain, lagoons, marshes, and strandline, the project emphasized study of a series of radiocarbon-dated sediment cores. A large number of borings were recovered from drill sites established across the northern delta (Figure 1), enabling us to interpret sedimentary facies and evaluate their changes in time and space by study of the petrology, geochemistry, fauna, and flora of approximately 3500 core samples. Remote sensing and archeological data were also used in this project. As a direct result of this joint effort, 52 articles have been published in scientific journals, 7

theses have been completed, and 25 presentations have been made at scientific meetings by the end of 1994.

A synthesis article summarizing the salient aspects of the late Quaternary history (the past ~30,000 years are considered) of the northern Nile delta, based in large part on the study of the numerous core samples, was recently published (Stanley and Warne, 1993a). The present monograph serves as a companion document and detailed data source to this synthesis and also to earlier project publications. Its main purpose is to present a complete set of simplified lithologic logs of the 87 sediment cores (Appendix 1) and the results of textural and sand-size compositional analyses of 2496 core samples (Appendix 2) that constitute the foundation of Nile Delta Project investigations. We also provide herein a brief review of the various methods employed, and an inventory of specific topics and interpretations published in scientific journals and as theses derived from these and other data collected as part of the project during the past 10 years. The present document is thus intended to provide a comprehensive database for the northern Nile delta during the late Pleistocene to Holocene that may be used by those responsible for monitoring changes in the rapidly evolving Nile delta depocenter.

To facilitate data computer exchange and distribution, all the information published in this document (~75 megabytes) is accessible to users of the Internet from the Smithsonian Institution's National Museum of Natural History Gopher Server at URL "gopher://nmnhgoph.si.edu/11/.paleo" or via hypertext document (http) at "http://nmnhwww.si.edu/gopher-menus/." Further information can be obtained from the National Museum of Natural History's Collections and Research Information System (CRIS) Program, Washington, D.C. 20560.

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Methods

CORE COLLECTION.—The northern Nile delta plain is characterized by low gentle relief and dense vegetal cover, and by the general absence of surface exposures of older Holocene and late Pleistocene deposits. These attributes, plus the variable thickness (< 10 m to > 50 m) and gentle inclination of subsurface Holocene strata, thus required that drilling be used to study the late Quaternary geological evolution of the Nile delta. The basis of the drilling strategy was to systematically recover complete sections of Holocene marine, brackish, and alluvial deposits of the modern Nile delta and portions of the underlying late Pleistocene alluvial deposits. Our preliminary surveys indicated that the area of major interest should extend across the entire deltaic arc, from the east at the Gulf of Tineh to the outskirts of Alexandria as far as Burg el Arab in the west (a distance of ~225 km). The study area in the low-lying northern third of the delta also extends as far south as ~30 km from the present Mediterranean coast (Figure 1) to ensure that long drill cores collected in this sector would allow reasonably detailed stratigraphic correlations and paleogeographic interpretations of former interfingering fluvial, deltaic, and marine sections to be made. It was anticipated that the region selected for drilling would help define those areas of the delta most susceptible to rising sea level and land subsidence.

A total of 87 Smithsonian cores (S1–S87) ranging in depth from ~20 to 60 m (lithologic logs in Appendix 1) and relatively evenly spaced (~10 km) across the northern Nile delta were recovered (Figure 1). These were collected during five field seasons: cores S1–S17 in September–October 1985; cores S18–S30 in April–May 1987; cores S31–S46 in August–September 1988; cores S47–S65 in September 1989; and cores S66–S87 in August–September 1990. Drilling of the cores was made progressively from east to west across the northern Nile delta. Positioning of drill sites in the field was determined using recent detailed contour maps (scale 1:50,000) compiled since the 1970s by the U.S. Defense Mapping Agency Hydrographic/Topographic Center in Washington, D.C. (DMA Map Series P 773 and 1501 NH 36), and also diverse sets of satellite images. Core number, total core length, date of core recovery, latitude and longitude, and approximate geographic position of each of the 87 core sites is listed in Table 1. Accuracy of core site positions in most cases is to

TABLE 1.—Data pertaining to Smithsonian boring sites S1–S87 collected as a primary base for the Nile Delta Project in 1985, 1987, 1988, 1989, and 1990. General information lists the total length of core, date of recovery, latitude, longitude, and approximate location of the drill site (see Figure 1). U.S. Defense Mapping Agency chart series P 773 and 1501 NH 36 served as a control for latitude and longitude, which provides accuracy to within 6 seconds, or ~200 m.

Borehole number	Total length (m)	Date recovered	Latitude	Longitude	Approximate location
S1	28.96	9/25/1985	31°26'54"N	31°46'42"E	In Abbas Zahir
S2	19.81	9/29/1985	31°18'18"N	31°36'18"E	1.2 km ENE Abu Hammuda
S3	29.87	9/23/1985	31°17'48"N	31°43'24"E	0.9 km SW El Ghuneimiya
S4	32.46	9/30/1985	31°13'42"N	31°30'54"E	1.5 km NNW El Hisas
S5	27.43	9/19/1985	31°11'36"N	31°39'30"E	1 km NW Nasl Ez. Hasan Shakir
S6	26.37	9/16/1985	31° 6'30"N	31°42'36"E	1.5 km E El Gineina
S7	24.38	9/12/1985	31° 7'48"N	31°52'18"E	6.5 km SW Manzalah
S8	41.30	9/8/1985	31°12'48"N	32° 2'18"E	2.5 km N El Matariya
S9	15.70	9/4/1985	30°58'42"N	31°52'42"E	1 km E San El Hagar El Qibliya
S10	24.38	9/2/1985	30°51'24"N	32° 1'12"E	2 km NNE El Munagat El Kubra
S11	29.87	9/8/1985	30°55'12"N	32°18'24"E	3.5 km SE Ez. El Cop
S12	23.77	9/12/1985	31° 3'48"N	32°33'18"E	2.5 km NE Tel El Farama
S13	30.48	9/15/1985	31° 4'42"N	32°23'36"E	Israeli Rd. 7.8 km E of Suez Canal
S14	23.16	9/18/1985	30°59'54"N	32°28'12"E	7.5 km WSW Baluza
S15	35.36	9/22/1985	31° 7'30"N	32°30'18"E	9 km NW Tel El Farama
S16	28.04	9/30/1985	31°21'36"N	32° 3'48"E	1 km WSW Ez. Shalabi El Rudi
S17	43.28	10/1/1985	31°22'42"N	31°57'54"E	0.7 km NE Geziret Umm Abdalla
S18	53.19	4/26/1987	31° 4'42"N	32°20'30"E	11.5 km WNW Tel Farama
S19	12.19	5/2/1987	31° 2'54"N	32°33' 0"E	At Tel Farama
S20	50.29	5/4/1987	31° 6'36"N	32°18' 6"E	1 km W Suez Canal NE Extension
S21	49.38	5/17/1987	31°13'48"N	32°20'30"E	3 km SE Port Fouad
S22	37.80	5/12/1987	31° 1'18"N	32°12'30"E	2 km W Ushash Arab Zeidan
S23	13.72	5/10/1987	30°49'48"N	32°15'12"E	In Alawi Umm El Rish
S24	10.97	5/9/1987	30°51' 6"N	32°10'18"E	5.5 km SW Ushash Ibrahim Abu Muh
S25	14.33	5/13/1987	30°57'42"N	32°10'48"E	4 km SW Ushash Arab El Gadadia
S26	13.72	5/12/1987	30°54'24"N	32° 1'48"E	0.2 km SE Minshat Abu Omar
S27	15.24	5/16/1987	31° 0'24"N	32° 1'54"E	3 km S Ubash Mallaha
S28	36.58	5/24/1987	31°26'30"N	31°33'18"E	0.7 km SSW Ez. El Gamasa El Shardy
S29	39.62	5/25/1987	31°21'42"N	31°27' 6"E	0.5 km W Ez. El Mazia
S30	42.67	5/22/1987	31°24'30"N	32° 0'42"E	4 km NW Ez. Shalabi Rudi
S31	45.72	8/21/1988	31°22' 6"N	31°36' 0"E	2.5 km E Kafr Wastani
S32	21.34	9/1/1988	31°16'48"N	31°24'30"E	0.3 km SW Hagg Shirbin Ez. Bahr El Ish
S33	25.91	8/27/1988	31°24'42"N	31°21'48"E	0.5 km N Ez. El Gezira
S34	39.62	8/29/1988	31°27'12"N	31°23'18"E	2 km N Abu Madi
S35	35.05	8/24/1988	31°31'42"N	31°18'30"E	1 km SE Qabr Sidi Durrngnam
S36	45.72	9/5/1988	31°27'48"N	31°15'24"E	0.5 km W ruins Kom Niqueza
S37	21.34	8/31/1988	31°22'12"N	31°16'48"E	3.3 km SE Kabira Gazireyet El Darfil
S38	27.43	9/8/1988	31°25'18"N	31°10'24"E	In Ez. El Baralsa
S39	18.29	8/29/1988	31°25'12"N	31° 4'24"E	0.75 km SE Kom El Masura
S40	28.19	8/24/1988	31°30'48"N	31° 8'30"E	1.7 km NNE Hammad Mahattet El Kasha
S41	51.82	9/14/1988	31°34'30"N	31°12'18"E	In Hammad Mahattet El Kasha
S42	45.72	9/13/1988	31°35'54"N	31° 5'48"E	0.7 km E Baltim Resort Center
S43	42.67	8/25/1988	31°35'12"N	30°58'42"E	In El Burg
S44	21.34	9/4/1988	31°26'12"N	30°59'30"E	1.8 km SE Geziret El Isbiryas
S45	30.48	8/30/1988	31°30'30"N	31° 1'54"E	In Rsa El Bar
S46	45.72	9/10/1988	31°24' 0"N	30° 8'54"E	3.5 km NNE Kom El Nashwein
S47	42.67	9/3/1989	31°32'24"N	30°50'12"E	In Arab El Hanafi
S48	43.28	9/6/1989	31°30'12"N	30°46'30"E	4.5 km SW Kiman El Saiyar
S49	41.15	9/4/1989	31°28'30"N	30°41' 6"E	1 km SW Kom Mastaroh
S50	41.15	9/5/1989	31°26' 6"N	30°34'54"E	3.5 km SSW Kom Mishtil
S51	41.15	9/6/1989	31°22'12"N	30°29'42"E	0.4 km S Ez. El Sakara
S52	41.15	9/7/1989	31°24'24"N	30°46'12"E	2 km NE Ras El Husan
S53	27.43	9/8/1989	31°23'42"N	30°40'36"E	0.4 km SW Atlet El Baqar
S54	19.51	9/9/1989	31°19'36"N	30°47'30"E	0.4 km N El Haddadi
S55	19.81	9/9/1989	31°18'54"N	30°40'18"E	In Ez. El Saiyid Mansur
S56	19.81	9/10/1989	31°19'30"N	30°31'24"E	1 km SW Minyet El Murshid

Borehole number	Total length (m)	Date recovered	Latitude	Longitude	Approximate location
S57	19.81	9/10/1989	31°22'24"N	30°35'42"E	Fish market 1 km SE Gazayir El Minsirib
S58	22.86	9/11/1989	31°23' 6"N	30°25'48"E	0.7 km N Giddiya
S59	41.15	9/12/1989	31°27'42"N	30°26'30"E	3 km NE Abu Khashaba
S60	30.48	9/12/1989	31°19'42"N	30°24'36"E	0.4 km SE El Buseili Station
S61	41.15	9/13/1989	31°13'36"N	30°22'18"E	6 km WSW Hamad Dumeih
S62	24.38	9/14/1989	31°16'30"N	30°19'42"E	3.3 km SE Idku
S63	22.25	9/14/1989	31°21' 0"N	30°18'54"E	1.6 km NE El Nawa Fort
S64	41.15	9/16/1989	31°24'30"N	30°20'42"E	0.2 km SW El Farash Fort
S65	48.62	9/15/1989	31°28'36"N	30°21'30"E	0.6 km SSE Sidi Mansur
S66	20.12	8/29/1990	31°16' 6"N	30°27'24"E	2.2 km W El Faiza
S67	19.81	9/1/1990	31°10'30"N	30°19'54"E	1.5 km S Ibr Zaiyat Ez. Kom Aziza
S68	44.20	8/30/1990	31°16'30"N	30°13'54"E	1.5 km NNE Gazayir El Tawila
S69	19.81	10/1/1990	31°11'36"N	30°16'30"E	1 km NNE Barsig Pumping Station
S70	19.81	9/2/1990	31°10'54"N	30°10'24"E	0.5 km SE Minshat Bulin
S71	44.20	9/2/1990	31°15'54"N	30°10'24"E	0.5 km SW El Miaddiya Outlet
S72	19.81	9/3/1990	31°13'54"N	30° 8' 0"E	In Kom Tarfa
S73	44.20	9/3/1990	31°16'36"N	30° 5' 0"E	0.6 km N Ez. Hod #4
S74	18.29	9/4/1990	31°13'24"N	30° 4'42"E	0.8 km NNE El Akhdar
S75	24.38	9/4/1990	31°16'24"N	30° 2'48"E	In Ez. Maqnas
S76	19.81	10/4/1990	31°13'48"N	30° 0'48"E	3 km SSE Ez. Farqon
S77	40.54	10/6/1990	31°10'48"N	29°55'54"E	1 km SW Fouad 1 Airport
S78	19.81	10/8/1990	31° 9' 0"N	30° 2'24"E	1.5 km NE Kom Lunsan
S79	42.67	9/5/1990	31° 6'12"N	29°56'54"E	3 km SW Prince Omar Tusan's kiosks
S80	45.72	9/7/1990	31° 6' 6"N	29°51'12"E	1.8 km NW Kom El Shuran
S81	21.34	10/10/1990	31° 3'12"N	29°59'30"E	1.8 km NE Prince Omar Tusan's house
S82	30.48	9/8/1990	31° 3' 0"N	29°52'24"E	2 km E Kom Mitauwh
S83	45.72	9/9/1990	31° 3'24"N	29°46'12"E	5.5 km NW El Gamiriya
S84	22.86	9/11/1990	30°59'36"N	29°37' 6"E	0.8 km SSW Manaret fish market
S85	10.21	9/10/1990	30°55'24"N	29°31'36"E	1.5 km NW Burg El Arab
S86	41.15	10/11/1990	30°51'18"N	30°47'48"E	3 km Kafr El Zaiyat
S87	41.15	9/12/1990	30°44'24"N	31° 1'54"E	0.7 km S El Malwani Mosque

within 200 m. More detailed notations made during the course of drilling, including more exact position of boring sites (to within 50 m), are recorded in a series of 12 field books permanently archived at the National Museum of Natural History.

Two ACKER II trailer-mounted rigs were used concurrently by two drilling teams during each of the five expeditions (Figure 2). Casing was used at sites where thick subsurface sections of sand or soft mud prevailed (Figure 3). Sediment recovery at each drill site was continuous, by progressively connecting iron core tube barrels of either 5 foot (1.52 m) or 10 foot (3.05 m) lengths. Sediment core diameter ranged from 8 to 10 cm. Recovery of moderate to well-indurated mud-rich sections was good to excellent, preserving original physical and biogenic structures. Extrusion of very stiff mud, usually highly consolidated clayey silts of late Pleistocene age, was usually accomplished by high-pressure pumping of circulated water (Figure 4). Collection of very soft (undersaturated) mud and thick sand mud sequences proved more difficult. Where sections were comprised essentially of sand, washings from pumped circulated water (rather than cores) were obtained from core tubes (Figure 5), usually at 1 to 2 m depth intervals. Original structures are not preserved in these washings. In the

western part of the study area, between Alexandria and Burg el Arab, semiconsolidated to indurated carbonate sections were recovered (Figure 6) beneath thin Holocene sections.

Upon extrusion from the drill barrel, sediment core sections were cut into ~1.5 m lengths (Figure 7), laid in plastic liners, described, photographed, and then wrapped and sealed with plastic sheeting and placed in specially prepared 1.5 m-long wooden boxes (Figure 8). Washings were collected in plastic jars. Cores were assigned consecutive roman numerals, whereas washings received consecutive arabic numerals, down-boring. Cores and washings were then transported by air to the Smithsonian Institution in Washington, D.C., where they were stored in a refrigerated room prior to study. Upon recovery, representative core and washing samples (30–40 per core) were also selected from each boring and provided to our Egyptian counterpart organizations: cores S1–S17, to Dr. M. Khafagy at the Coastal Research Institute, Alexandria, in 1985; and cores S18–S87, to Dr. A. Bassiouni at the Department of Geology at Ain Shams University in Abbassia, Cairo, in 1987, 1988, 1989, and 1990.

Descriptions recorded in the field for each recovered core section include depth, length of drill barrel used, length of sediment section recovered, sediment color, gross texture and

obvious sedimentary structures, biogenic features (such as shell and peat), and sediment density (hardness, consistency) using a pocket penetrometer. Color, texture, and unusual features were also recorded for sands collected as washings. Upon recovery, 35 mm color slide photographs were made of every core section at approximately 50 cm length intervals, with some overlap, and these include a metric scale to determine core length. These photographs and data notations in field books are maintained at the National Museum of Natural History.

In addition to the above, lithologic logs and representative samples from nine long drill cores collected earlier in the Manzala Lagoon area were provided by the Coastal Research Institute in Alexandria to the Nile Delta Project team for additional study in Washington (Stanley and Liyanage, 1986). We also consulted lithologic logs of northern Nile delta drill borings from various unpublished sources, such as engineering consulting firms, the Egyptian Ministry of Irrigation and Agriculture departments, the Suez Canal authority, and U.S. AID reports, and in publications including those of Attia (1954) and UNDP/UNESCO (1978). These valuable documents supplemented information from the five Smithsonian drilling surveys (published in, respectively, from east to west: Coutellier and Stanley, 1987; Stanley, Warne et al., 1992; Arbouille and Stanley, 1991; Chen et al., 1992; Warne and Stanley, 1993b). Two Smithsonian cores collected in the central delta near Kafr El-Zaiyat and Tanta (S86 and S87) are described by Chen and Stanley (1993).

In addition to the long drill cores cited above, a suite of about 100 short cores, for the most part less than 1 m in length (Figure 9), along with approximately 200 surficial samples, were also collected for more specific study of the Nile delta lagoons (Manzala, Burullus, and Idku), former Abu Qir Lagoon, and Lake Mariut. These sediment samples are not presented in this monograph, but they are described in archival field books and detailed in publications by Randazzo (1992), Loizeau and Stanley (1993), Bernasconi and Stanley (1994), Loizeau and Stanley (1994), and Siegel et al. (1994). Also described elsewhere in a series of publications are data on short cores and surficial samples collected seaward of the delta on the shelf and Nile Cone (Stanley and Maldonado, 1983; Anastasakis and Stanley, 1984, 1985; Stanley, 1985, 1988a; Frihy et al., 1995), in the Suez Canal (Stanley et al., 1982), and in the River Nile (Schneiderman, 1995).

LABORATORY ANALYSES.—Extensive petrological, geochemical, faunal, and floral studies of the 87 long drill cores (S1–S87) were made so as to define the major late Pleistocene and Holocene (to modern) lithofacies in the northern Nile delta and to more precisely distinguish among prodelta, delta-front, strandline, lagoon, and floodplain deposits. This information was then used to make lithostratigraphic correlations and paleogeographic maps of the northern delta, to calculate land subsidence rates, and to interpret sea-level and climate changes through time.

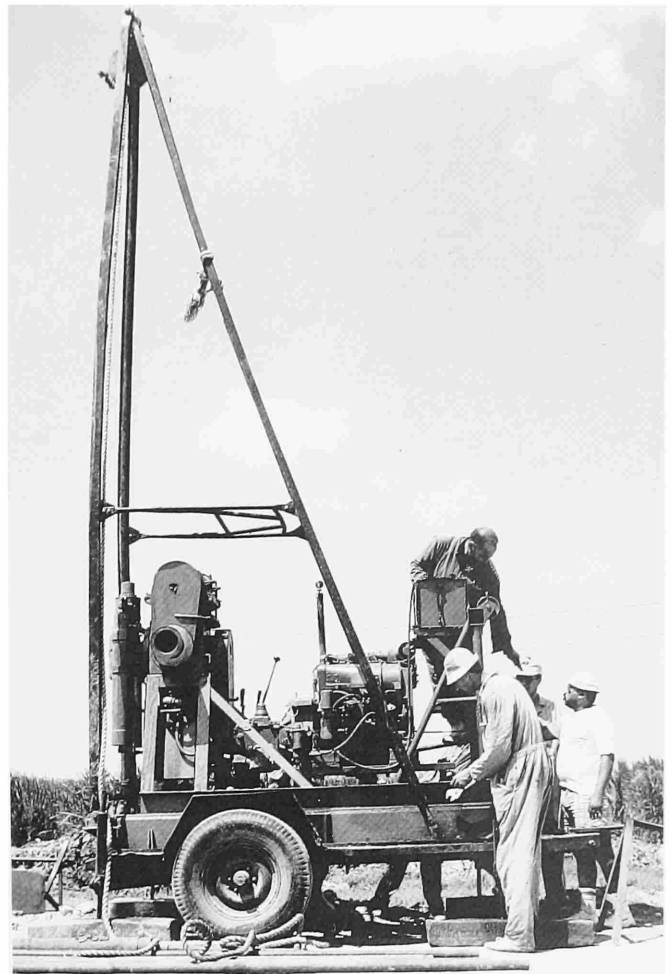


FIGURE 2.—Trailer-mounted ACKER II equipment of the type used during the five Nile delta drilling surveys described in this study. Photograph taken at site S69 in September 1990.

The core sections were placed in a high humidity refrigerated room, with the temperature maintained at 4° C, until they were ready for study. After the cores were split, all sections were X-radiographed using 14 × 17 inch (35.6 × 43.2 cm) industrial film, and positive prints (1:1 scale) were made from the X-radiographs. Split core sections, while still moist, were then photographed, using 35 mm color slide film, at about 40 cm length intervals, with some overlap. A detailed lithological log was made of each Smithsonian core on the basis of visual observations, including color, details of sedimentary and biogenic structures in the strata, subtle features noted in X-radiographs, and penetrometer sediment hardness readings of the split cores. These notations were compiled and recorded during the period 1985 to 1992 in laboratory books presently archived, along with the complete set of X-radiographs and



FIGURE 3.—Large-diameter pipes in foreground are used for casing, particularly when drilling in thick sections of sand and/or soft mud. Note 10-foot (3.05 m) lengths of drill pipe assembled near the drilling equipment. Photograph taken at site S11 in September 1985.



FIGURE 4.—Extrusion from drill pipe of stiff clayey silt of late Pleistocene age, using high pressure pumping of circulated water. Photograph taken at site S55 in September 1989.



FIGURE 5.—Recovery of sediment from washings of circulated water in a thick sand sequence. Photograph taken at site S77 in September 1990.

color slides of split cores, at the National Museum of Natural History. Petrologic attributes for core sections and washings derived from these documents were used to draft detailed lithologic logs of the 87 borings. Simplified logs are presented in Appendix 1.

To obtain more detailed petrologic information, samples were collected down-boring at every change of lithology, or in the case of homogenous sections at a minimum of 50 cm intervals (except in the case of washings) along the entire length of the boring. More than 2500 samples were selected from the 87 borings, or an overall average of ~30 samples per core, for standard textural and compositional analyses (data listed in Appendix 2). Core and washing sample numbers and depths in this listing correspond to those shown on the lithologic logs in Appendix 1.



FIGURE 6.—Drilling through consolidated carbonate section of late Pleistocene age in the region west of Alexandria. Pumped water is typically white when circulated through drilled carbonate sequences. Photograph taken at site S85 in September 1990.

The proportions of sand ($> 63 \mu\text{m}$), silt ($2\text{--}63 \mu\text{m}$), and clay ($< 2 \mu\text{m}$) fractions were determined by sieve and pipette analyses. A separate study of the relative percentages of components forming the sand-sized fraction in all samples was made using a binocular microscope, following the petrographic method of Coutellier and Stanley (1987), Frihy and Stanley (1988), and Stanley and Chen (1991). Relative percentages of major sand-sized components were calculated from point counts of > 300 grains for all samples. The 16 components counted include 8 mineralogical (light and heavy minerals, mica, glauconite/verdine, pyrite, evaporite/gypsum, lithic fragments, aggregate), 6 faunal (indeterminate shell fragments, foraminifera, ostracod, gastropod, pelecypod, sponge), and 2 floral (plant fragments, including seed and fiber, and diatom).



FIGURE 7.—Mud-rich sediment core of Holocene age placed in a plastic liner after extrusion from the drill barrel. Photograph taken at site S18 in April 1987.

Proportions of the various sand-sized compositional components and their positions along the core length (data in Appendix 2) are graphically depicted on each of the core lithologic logs (Appendix 1). All this information has been used in a series of geological studies of the northern delta, including the five regional surveys by Coutellier and Stanley (1987), Arbouille and Stanley (1991), Stanley, Warne et al. (1992), Chen et al. (1992), and Warne and Stanley (1993b).

In addition to the 2500 samples taken from the 87 long cores cited above, another ~1000 core samples were selected for separate, more specific, petrographic and faunal study. These include those of the sand-sized fraction examined for glauconite/verdine (Pimmel and Stanley, 1989), surface features of quartz (Frihy and Stanley, 1987; Stanley and Chen, 1991), heavy minerals (Stanley et al., 1988; Foucault and Stanley, 1989; Stanley, 1989), and carbonates (Stanley and Hamza,

1992). Biogenic fractions of sand-sized material in numerous core samples also were examined: foraminifera (Kulyk, 1987); ostracods (Pugliese and Stanley, 1991); molluscs (Bernasconi et al., 1991; Longo, 1992; Bernasconi and Stanley, 1994); and plant matter (Howa and Stanley, 1991). Volcanic shards (Stanley and Sheng, 1986) and pollen (Leroy, 1992) were detailed in the silt-size fraction of some long core samples in the Manzala Lagoon area. Analyses of clay minerals also were made (Stanley and Liyanage, 1986; Abu-Zeid and Stanley, 1990; Abdel Wahab and Stanley, 1991). Geochemical analyses of long core samples were made in the northeastern Nile delta using either the sand fraction (Hamroush and Stanley, 1991; Allen et al., 1993), the silt and clay fractions (Dominik and Stanley, 1993), or primarily the clay fraction (Gerber, 1988; Gupta, 1989; Shergill, 1990; Siegel et al., 1995).

The petrology, including structures, petrography, and texture, of short core sections and surficial grab samples in different localities was also examined, using methods comparable to those employed for study of the long cores. These areas include the following: the Nile delta shelf and Nile Cone (Stanley and Maldonado, 1983; Anastasakis and Stanley, 1984, 1985; Stanley, 1985, 1988a, 1989; Frihy et al., 1995); Suez Canal (Stanley et al., 1982); delta lagoons (Randazzo, 1992; Longo, 1992; Loizeau and Stanley, 1993, 1994; Siegel et al., 1994); and the River Nile between Aswan and the Mediterranean coast (Schneiderman, 1995).

RADIOCARBON DATING.—An essential part of the Nile delta core study was to clearly distinguish subsurface Holocene from late Pleistocene sections and to subdivide Holocene sections into viable mappable stratigraphic sequences. It was anticipated that by obtaining a large set of radiocarbon dates we could establish a chronostratigraphic framework that would enhance regional litho- and biostratigraphic correlations. A total of 412 samples in 86 of the borings (all except core S65) were submitted for radiocarbon dating (Table 2); of these samples, 358 provided radiocarbon ages, and 54 had insufficient carbon for reliable dates. This constitutes a base of approximately four dates per boring. Sample positions and depth in the borings are shown in the lithologic logs in Appendix 1. Material selected for dating was obtained from split core sections 10–12 cm in length. Most of these dates were obtained using total carbon in dark olive organic-rich layers (for the most part lagoonal deposits) and peats (marsh deposits); shell matter was also used in a few instances. Most analyses were made by Beta Analytic Inc.© of Miami, Florida; an additional 19 samples, selected from borings S7 and S8, were treated by the Smithsonian Institution's Radiobiology Laboratory. The dates are shown in Table 2 and in Appendices 1 and 2, and the permanent radiocarbon record numbers are also listed in Table 2. Chronostratigraphic correlations based on these data are depicted in a series of published studies made across the northern delta, from east to west: Coutellier and Stanley (1987); Stanley, Warne et al. (1992); Arbouille and Stanley (1991); Chen et al. (1992); and Warne and Stanley (1993b).



FIGURE 8.—After extraction from the drill barrel, mud-rich sediment cores are cut into 5-foot (1.5 m) lengths, placed in plastic liners, and described prior to storage in boxes. Photograph taken at site S55 in September 1989.

Short cores in other sectors have also been radiocarbon dated, and this information is available in several publications: in the northern Suez Canal (Stanley et al., 1982); and in the Nile delta shelf and Nile Cone (Stanley and Maldonado, 1983; Anastasakis and Stanley, 1984, 1985; Stanley, 1985, 1988a).

Identified archeological material preserved in cores (Stanley et al., 1992; Warne and Stanley, 1993a) and a dating study emphasizing the amino acid racemization methodology on several long cores (Goodfriend and Stanley, 1996) provide additional age information on the Holocene delta sections.

Nile Delta Project Data Used in Scientific Literature

STUDIES LISTED BY LOCATION

A recent bibliographic listing of all known publications through 1993 that pertain to the geology and geography of the Nile delta proper and its immediate vicinity, on land and offshore, recently has been compiled (Stanley et al., 1994). It is of note that during the past decade there have been over 50 articles published in the scientific literature and seven of these have been completed as a direct result of research undertaken in Egypt as sponsored by the Nile Delta Project. These describe in considerable detail the various methods used in the study of the

Nile materials cited above. Most of these documents include at least some of the S1–S87 core data referred to in the previous section and presented in Appendices 1 and 2.

A series of publications that draw upon the Smithsonian Institution's borings and core sample data focus on the late Pleistocene to Recent paleogeographic evolution of the northern delta plain. Many of these emphasize petrologic descriptions, lithofacies interpretations, chrono- and lithostratigraphic core-to-core correlations of late Quaternary sections, and the effects of sea-level change, climate, neotectonism, and sediment transport processes on Nile delta deposits. These investigations include studies of the northeastern delta (Coutellier and Stanley, 1987; cores S1–S17; Stanley, 1988b; cores S1–S36); the northern delta (Stanley, Warne et al., 1992; cores S1–S16, S28–S46); the north-northwestern delta (Arbouille and Stanley, 1991; cores S38–S59); and the northwestern delta (Chen et al., 1992; cores S51–S78; Stanley and Hamza, 1992; cores S74–S85; Warne and Stanley, 1993b; cores S72–S85). A study using selected borings in the central delta (cores S86 and S87) was made by Chen and Stanley (1993).

Other Nile Delta Project studies of the lower plain region, focusing on the late Holocene to present time, have primarily used short cores (< 1 m length) and surficial sediment grab samples, rather than the long S-cores. Study areas include

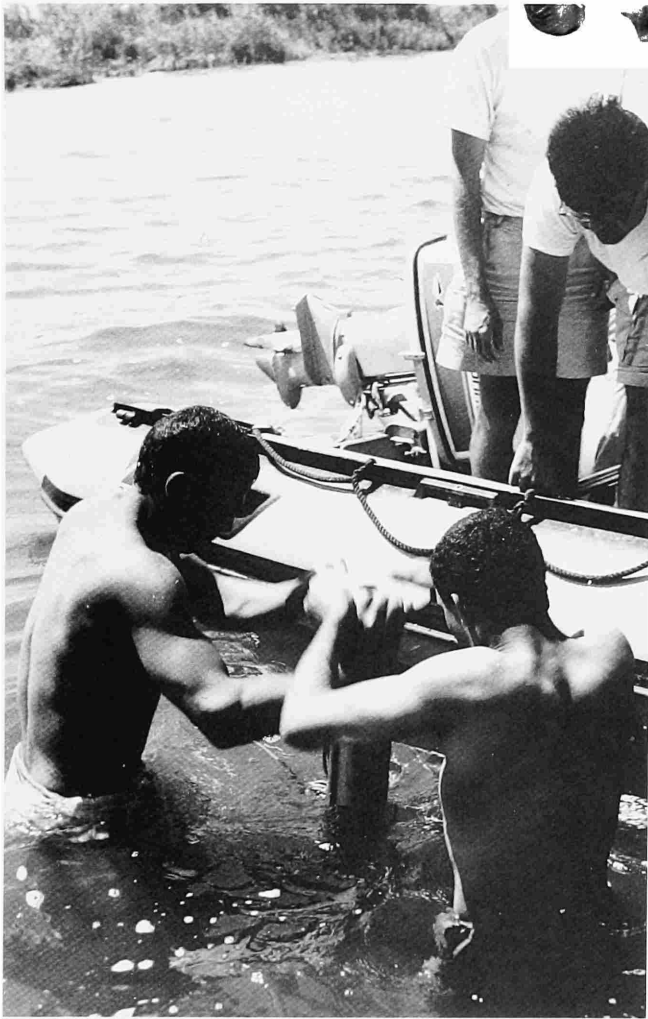


FIGURE 9.—Recovery of a short core (~1 m) in Manzala Lagoon. Photograph taken at short core site Man-IV and collected in September 1989.

Manzala Lagoon (Randazzo, 1992; Slaboda, 1993; Bernasconi and Stanley, 1994; Siegel et al., 1994), Burullus Lagoon (Bernasconi and Stanley, 1994), Idku Lagoon (Loizeau and Stanley, 1993; Bernasconi and Stanley, 1994), and Mariut Lake (Bernasconi and Stanley, 1994; Loizeau and Stanley, 1994). Analyses were also made on Suez Canal sediments, including those in its northern sector, positioned in the northeastern Nile delta (Stanley et al., 1982; Gerges and Stanley, 1985; Bernasconi and Stanley, in press). A petrologic investigation of lower Nile River deposits, between the Egypt–Sudan border and Cairo, has been initiated with a first study on heavy minerals completed by Schneiderman (1995). Studies of late Quaternary deposits seaward of the Nile delta include those on Abu Qir Bay (Frihy et al., 1995) and several on the Nile delta shelf and Nile Cone (Stanley and Maldonado, 1983; Anastasakis and Stanley, 1984, 1985; Stanley, 1985, 1988a, 1989).

STUDIES LISTED BY TOPIC AND THEME

In addition to geographic attribution, most of the studies listed above, along with other published scientific articles and theses completed during the course of the Nile Delta Project, can be listed by specific topic or theme. We recognize 12 major categories in which we can incorporate data collected as part of the project. As would be expected, most published articles and theses can be assigned to at least two or three of these. Each category comprises contributions listed chronologically, including year, last name of author(s), and abbreviated topic notation. For complete reference citations, the reader is directed to the Literature Cited in this publication.

PETROLOGY, COMPOSITION, AND TEXTURE.—Most studies made during the course of the project consider lithologic attributes, such as sedimentary and biogenic structures, grain size, and composition of sand- and clay-size fractions. It is primarily on this basis that Nile delta facies of late Pleistocene and Holocene age are defined and interpreted, and their distribution mapped in time and space.

- | | |
|-------|---|
| 1982 | Stanley, Freeland, and Sheng: Suez Canal sediments |
| 1983 | Stanley and Maldonado: Nile Cone sedimentation |
| 1984 | Anastasakis and Stanley: Sapropels on the Nile Cone |
| 1985 | Stanley: Mud redeposition on the Nile Cone |
| 1985 | Anastasakis and Stanley: Sapropels on the Nile Cone |
| 1986 | Stanley and Sheng: Volcanic shards in the delta |
| 1986 | Stanley and Liyanage: Clay minerals in the northeastern delta |
| 1987 | Frihy and Stanley: Quartz grain surface textures |
| 1987 | Coutellier and Stanley: Petrology and lithofacies, northeastern delta |
| 1988 | Frihy and Stanley: Texture and composition of delta deposits |
| 1988 | Stanley, Sheng, and Pan: Heavy minerals, northeastern delta |
| 1988 | Gerber: Clays and geochemistry, northeastern delta cores |
| 1988a | Stanley: Sedimentation on the Nile delta shelf |
| 1989 | Pimmel and Stanley: Verdinized fecal pellets in Holocene deposits |
| 1989 | Foucault and Stanley: Heavy minerals, northeastern delta |
| 1989 | Gupta: Clays and geochemistry, northeastern delta |
| 1989 | Stanley: Heavy minerals between the delta and Israeli margin |
| 1990 | Abu-Zeid and Stanley: Clay minerals, northeastern delta |
| 1990 | Shergill: Clays and geochemistry, northeastern delta |
| 1991 | Abdel Wahab and Stanley: Clay minerals, northern delta |

- 1991 Arbouille and Stanley: Petrology and lithofacies, northern delta
- 1991 Howa and Stanley: Petrology and plant matter across the delta
- 1991 Stanley and Chen: Stain-grained and sand-size composition of diverse modern delta facies
- 1992 Stanley and Hamza: Carbonate sediments, northwestern delta
- 1992 Stanley, Warne et al.: Petrology and lithofacies, northern delta
- 1992 Randazzo: Petrology of Manzala Lagoon sediments
- 1992 Chen, Warne, and Stanley: Petrology and lithofacies, northwestern delta
- 1993 Chen and Stanley: Alluvial stiff muds, late Pleistocene
- 1993b Warne and Stanley: Petrology and lithofacies, northwestern delta
- 1993 Loizeau and Stanley: Lithofacies, Idku Lagoon
- 1994 Loizeau and Stanley: Lithofacies, Mariut Lake
- 1995 Frihy, Moussa, and Stanley: Abu Qir Bay sediments
- 1995 Schneiderman: River Nile sands between Aswan and the delta

FAUNAL ANALYSES.—Studies in this category include micro- and macro-fossil analyses in long cores in the northern Nile delta, and also short core and grab samples collected in delta lagoons. These investigations provide ecological information on depositional environments.

- 1987 Kulyk: Foraminifera in the northeastern delta
- 1991 Bernasconi, Stanley, and DiGeronimo: Molluscan faunas in the northeastern delta
- 1991 Pugliese and Stanley: Ostracodes in the northeastern delta
- 1992 Longo: Molluscan faunas and palaeoecology in delta lagoons
- 1994 Bernasconi and Stanley: Molluscan biofacies in delta lagoons

FLORAL ANALYSES.—To date, only two floral studies in Nile delta sediments have been completed within the framework of this project. Plant matter of sand size and pollen in long cores provide information on paleoclimatological and paleoecological changes with time in the study area.

- 1991 Howa and Stanley: Plant matter distribution across the northern delta
- 1992 Leroy: Palynological assemblages, northeastern delta

GEOCHEMICAL ANALYSES.—Included in this category are investigations of trace and rare earth elements, which provide information on environmental and paleoclimatic changes through time, provenance, and dispersal, and the means to

gauge increased pollution in northern delta sectors, including lagoons.

- 1988 Gerber: Trace elements, northeastern delta
- 1989 Gupta: Trace elements, northeastern delta
- 1990 Shergill: Trace elements, northeastern delta
- 1991 Hamroush and Stanley: Rare earth elements and paleoclimate oscillations
- 1993 Allen, Hamroush, and Stanley: Trace elements and archaeological implications
- 1993 Dominik and Stanley: Trace elements and peats
- 1993 Slaboda: Trace elements in recent Manzala Lagoon
- 1994 Siegel, Slaboda, and Stanley: Trace elements and pollution in Manzala Lagoon
- 1995 Siegel et al.: Trace elements in cores of the northeastern delta

NEOTECTONISM AND ITS EFFECTS ON THE DELTA.—Studies listed below emphasize the vertical motion of land, rates of subsidence, and evidence of tilting to the northeast of the Nile delta during the late Quaternary. Measurements involve displacement of radiocarbon-dated lithofacies, which were originally deposited at or near sea level and are now buried below the delta plain surface.

- 1985 Stanley and Wetzel: Structural displacement in the southeastern Mediterranean
- 1988b Stanley: Subsidence rates in the northeastern delta
- 1990 Stanley: Subsidence and tilting of the delta plain
- 1991 Arbouille and Stanley: Subsidence in the northern delta
- 1992 Stanley, Warne et al.: Subsidence in the northern delta
- 1992 Chen, Warne, and Stanley: Subsidence in the northwestern delta
- 1992 Stanley: Subsidence rates of the northern delta plain
- 1992 Stanley, Arnold, and Warne: Subsidence and burial of a Predynastic site
- 1993a Stanley and Warne: Synthesis of delta subsidence
- 1993a Warne and Stanley: Measuring subsidence rates using archeological data
- 1993b Warne and Stanley: Subsidence in the northwestern delta

SEA-LEVEL AND CLIMATIC FACTORS AFFECTING THE DELTA.—Investigations in this category emphasize the influences of global (eustatic) sea-level oscillations, excluding land motion, and effects of climate change, which controlled fluvial and sediment input and delta aggradation during the late Quaternary.

- 1987 Coutellier and Stanley: Northeastern delta
- 1991 Arbouille and Stanley: North-central delta
- 1991 Hamroush and Stanley: Paleoclimatic oscillations
- 1992 Stanley, Warne et al.: North-central delta

TABLE 2.—Radiocarbon dates for samples from boreholes S1–S87, in uncorrected years before present (BP). Data listing includes depth from top of boring, Smithsonian sample letter code, and number code assigned by Beta Analytic Inc.®; the 19 samples analyzed by the Smithsonian's Radiobiology Laboratory are designated by the SI letter code prefix.

Borehole number	Depth (m)	Smithsonian sample number	Beta sample number	Age (years BP)	Borehole number	Depth (m)	Smithsonian sample number	Beta sample number	Age (years BP)	
S1	2	A	19414	2930 ± 90	S8	12.5	J	SI7050A	14030 ± 240	
	8	B	19415	3230 ± 160		15.5	K	SI7051A	Insufficient C	
	9.5	C	19416	2360 ± 100		16	D	17246	32910 ± 1740	
	15.5	D	19417	6410 ± 180		18	L	SI7052A	26800 ± 560	
	23	E	19418	7590 ± 130		19	M	SI7053A	38220 ± 800	
	28	F	19419	7440 ± 90		1	A	17248	4170 ± 120	
S2	1.5	A	18554	1830 ± 70		3	A'	SI7106	4025 ± 180	
	3.5	B	18555	3800 ± 90		5	B	17249	4230 ± 90	
	7.5	C	18556	5110 ± 80		9.5	B	SI7107	4695 ± 115	
	9.5	D	18557	6580 ± 100		16	C	SI7108	5110 ± 90	
	12.5	E	18558	7110 ± 70		20	D	SI7109	6965 ± 110	
	19	F	18559	14000 ± 280		25	E	17110	Insufficient C	
S3	3	A	20255	3030 ± 80		26	F	17111	Insufficient C	
	8.5	B	20256	4200 ± 100		27	E	17250	6760 ± 140	
	11	C	20257	5950 ± 100		36	F	17251	7300 ± 110	
	15.5	D	20258	7510 ± 110		40	G	SI7112	9060 ± 90	
	21.5	E	20259	7180 ± 110		S9	2	A	17252	3740 ± 150
	26	F	20260	7480 ± 90			4.5	B	17253	5140 ± 80
S4	1	A	18905	2990 ± 90			12	C	17254	Insufficient C
	2.5	B	18906	2150 ± 100	S10	7	A	17255	21880 ± 970	
	5.5	C	18907	4080 ± 130		8	B	17256	Insufficient C	
	7.5	D	18908	5330 ± 120	S11	2	A	16686	2550 ± 80	
	10	E	18909	5510 ± 150		5.5	B	16687	4570 ± 170	
	12.5	F	18910	6880 ± 100		8.5	C	16688	5190 ± 100	
	14	G	18911	7020 ± 120		11	D	16689	6110 ± 120	
	16	H	18912	7020 ± 140		14.5	E	16690	6475 ± 90	
S5	2	A	20544	1450 ± 80		23	F	16691	9820 ± 400	
	4.5	B	20545	2450 ± 80	S12	2	A	18115	Insufficient C	
	7.5	C	20546	4340 ± 120		5.5	B	18116	1500 ± 80	
	13	D	20547	6390 ± 110		9.5	C	18117	3550 ± 100	
	17	E	20548	7010 ± 140		13.5	D	18118	7280 ± 490	
	21.5	F	20549	7620 ± 110		18	E	18119	Insufficient C	
	28.5	G	20550	7500 ± 110		24	F	-	Insufficient C	
	29	H	20551	11290 ± 160		S13	5	A	16534	3760 ± 70
S6	1.5	A	16340	1910 ± 70			8	B	16535	3640 ± 120
	5.5	B	16341	3750 ± 60	11.5		C	16536	4050 ± 110	
	10.5	C	16342	6930 ± 110	16		D	16537	3000 ± 110	
	18	D	16343	7790 ± 110	21		E	16538	5130 ± 90	
	20.5	E	16344	24820 ± 400	S14	1.5	A	18120	Insufficient C	
S7	1.5	A	SI7041A	2340 ± 90		5	B	18121	Insufficient C	
	2	A	17243	4230 ± 100		6.5	E	18125	Insufficient C	
	2.5	B	SI7042B	3805 ± 40		7.5	C	18123	> 23210	
	3.5	C	SI7043B	2110 ± 100		8.5	D	18124	26270 ± 3850	
	5	B	17244	6300 ± 100		13	F	18126	7440 ± 370	
	5.5	E	17247	Insufficient C		16	G	18127	Insufficient C	
	6	E	SI7045B	6325 ± 120		22	H	18128	Insufficient C	
	7	F	SI7046B	5720 ± 70		S15	3.5	A	17831	1620 ± 70
	8	C	17245	6500 ± 100			7	B	17832	4370 ± 160
	8	G	SI7047A	8215 ± 155			10.5	C	17833	2620 ± 80
	8	G	SI7047B	7610 ± 90	14.5		D	17834	3870 ± 80	
9.5	H	SI7048A	Insufficient C	20	E		17835	4170 ± 90		
10	H	SI7048B	5285 ± 155	25.5	F		17836	6760 ± 90		
11	I	SI7049A	12870 ± 180							

Borehole number	Depth (m)	Smithsonian sample number	Beta sample number	Age (years BP)	Borehole number	Depth (m)	Smithsonian sample number	Beta sample number	Age (years BP)		
S16	35	H	17838	7420 ± 90	S25	3.5	A	25463	3860 ± 90		
	3	A	16345	2360 ± 90		8	B	25464	6630 ± 110		
	9	B	16346	1940 ± 90		12.5	C	25465	6760 ± 100		
	14	C	16347	4500 ± 90		14	D	25466	6210 ± 100		
	S17	18	D	16348	4820 ± 80	S26	1	K	24895	2500 ± 170	
		23	E	16349	7700 ± 110		2.5	L	24896	2820 ± 120	
27.5		F	16350	7340 ± 90	5		M	24897	4370 ± 170		
S18		2	A	20079	1420 ± 80	S27	5.5	N	24898	4210 ± 90	
		8	B	20080	4200 ± 120		6.5	O	24899	Insufficient C	
		12.5	C	20081	4480 ± 110	S28	2	A	25537	3160 ± 120	
	19	D	20082	4890 ± 110	6		B	25538	2520 ± 90		
	30	E	20083	7980 ± 90	6.5		C	25539	2980 ± 70		
	35	F	20084	7850 ± 100	9		D	25540	3330 ± 90		
S19	42.5	G	20085	8940 ± 120	S29	10.5	E	25541	6560 ± 90		
	30	F	16539	7150 ± 110		5	F	26381	4500 ± 120		
	S20	1.5	A	24004	1400 ± 80	S30	18	G	26382	8640 ± 110	
		6.5	B	24005	4650 ± 120		23.5	H	26383	7230 ± 80	
		11	C	24006	4100 ± 70		26	I	26384	Insufficient C	
		17.5	D	24007	4480 ± 110		28	J	26385	10950 ± 90	
26		E	24008	7400 ± 80	S31	35	K	26386	Insufficient C		
27.5		F	24009	4040 ± 100		4	A	26387	3460 ± 100		
S21	41	G	24010	11530 ± 80	S32	6	B	26388	4580 ± 100		
	52.5	H	24011	12070 ± 370		7	C	26389	5190 ± 90		
	S19	1	F	24890		Insufficient C	9	D	26390	4910 ± 90	
		4	G	24891	3070 ± 110	S33	18	E	26391	8870 ± 170	
		6.5	H	24892	3960 ± 100		18.5	A	26910	5270 ± 90	
	8.5	I	24893	4080 ± 90	22.5		B	26911	5020 ± 110		
S22	11.5	J	24894	Insufficient C	S34	26.5	C	26912	8090 ± 120		
	S20	2	A	25256		2890 ± 130	27.5	D	26913	8040 ± 250	
		11	B	25257		4190 ± 90	28.5	E	26914	Insufficient C	
		22	C	25258		5110 ± 110	S35	34	F	26915	10770 ± 120
		27.5	D	25259		7460 ± 80		4.5	A	32455	3260 ± 90
		34	E	25260		7260 ± 90	S21	10.5	B	32456	5840 ± 140
40		F	25261	7630 ± 90	15	C		32457	6590 ± 110		
42	G	25262	7360 ± 90	19.5	D	32458		7650 ± 150			
45	H	25263	15110 ± 640	25	E	32459		7850 ± 140			
S23	1	A	25937	3400 ± 140	S31	27		F	32460	6880 ± 80	
	9.5	B	25938	3530 ± 90		28		G	32461	Insufficient C	
	16	C	25939	3870 ± 100		S32	28.5	H	33115	> 25670	
	25	D	25940	4520 ± 110	7.5		A	33116	5880 ± 170		
	34	E	25941	5780 ± 130	11.5		B	33117	7100 ± 130		
	S24	40.5	F	25942	7140 ± 110	S22	12	C	33118	7960 ± 150	
46		G	25943	8190 ± 110	19		D	33119	Insufficient C		
48		H	25944	8140 ± 130	12		A	30599	5500 ± 190		
S25		0.5	A	23672	3630 ± 110		12.5	B	30600	3560 ± 150	
		3	B	23673	3770 ± 90		21	C	30601	Insufficient C	
		8	C	23674	4670 ± 80		S33	21.5	D	30602	34380 ± 1740
	14	D	23675	6630 ± 150	13	A		30603	8370 ± 180		
	21.5	E	23676	7910 ± 150	13.5	B		30604	6710 ± 190		
	S26	22	F	23677	7540 ± 70	S34	24	C	30605	19450 ± 840	
31		G	23678	32920 ± 930	25		D	30606	21050 ± 920		
37		H	23679	24320 ± 2030	S35		10	F	31486	6160 ± 80	
S27		0.5	C	24887A		4130 ± 180	17.5	E	31485	7730 ± 120	
		7.5	D	24887B		9200 ± 110	21	A	30607	7260 ± 110	
		10	E	24889	24240 ± 1510	22.5	B	30608	4770 ± 110		
	S28	30	C	25463	3860 ± 90	30	C	30609	Insufficient C		
		8	B	25464	6630 ± 110						
		12.5	C	25465	6760 ± 100						
14		D	25466	6210 ± 100							
1		K	24895	2500 ± 170							
2.5		L	24896	2820 ± 120							

Borehole number	Depth (m)	Smithsonian sample number	Beta sample number	Age (years BP)	Borehole number	Depth (m)	Smithsonian sample number	Beta sample number	Age (years BP)	
S36	14	A	30610	7080 ± 120	S46	8	A	34478	7130 ± 80	
	14.5	B	30611	Insufficient C		10.5	B	34479	6620 ± 70	
	25	C	30612	27720 ± 670		12	C	34480	12940 ± 240	
	34.5	D	30613	25570 ± 720		18	D	34481	Insufficient C	
S37	5	A	33120	3260 ± 80	S47	5.5	A	36764	4270 ± 110	
	12.5	B	33121	6870 ± 170		15	B	36765	8050 ± 140	
S38	12	G	31487	7240 ± 90		23	C	36767	Insufficient C	
	13	A	30117	7210 ± 130	30	D	36766	Insufficient C		
	14	B	30118	3380 ± 200	37	E	36768	26820 ± 1340		
	18	C	30119	21090 ± 600	S48	3	A	37298	1610 ± 60	
	23	D	30120	Insufficient C		4.5	B	37299	1670 ± 50	
	29.5	E	30121	Insufficient C		7.5	C	37300	4480 ± 80	
S39	31	F	30122	> 29260	14	D	37301	6340 ± 100		
	1.5	D	33122	3840 ± 100	S49	6	A	36769	3190 ± 90	
	2.5	A	29858	4540 ± 290		11	B	36770	5410 ± 100	
	4	C	29860	Insufficient C		15	C	36771	7170 ± 180	
	13.5	E	33123	21700 ± 2460		26	D	36772	Insufficient C	
S40	13.5	B	29859	11320 ± 290	S50	4.5	A	37302	2870 ± 80	
	3	E	33124	3430 ± 110		16	B	37303	6600 ± 80	
	15.5	A	29861	7450 ± 120		24	C	37304	7950 ± 90	
	16.5	C	29863	3540 ± 150		25.5	D	37305	11040 ± 330	
	25.5	D	29864	6050 ± 140	S51	5.5	A	37747	3800 ± 60	
	27.5	F	33125	19350 ± 950		8	B	37748	5930 ± 130	
26.5	B	29862	Insufficient C	11.5		C	37749	6580 ± 110		
S41	8.5	D	29867	Insufficient C	S52	2	A	37750	1670 ± 60	
	9	F	31489	3060 ± 70		6	B	37751	3250 ± 100	
	18	A	31488	6630 ± 250		7.5	C	37752	4790 ± 70	
	20	B	29865	6330 ± 100		11.5	D	37753	6550 ± 80	
	20.5	E	29868	3490 ± 100		12	E	37754	10510 ± 130	
	24	C	29866	Insufficient C	S53	4	A	37755	2470 ± 60	
	25	D	29867	Insufficient C		10	B	37756	5820 ± 100	
	25.5	G	33126	Insufficient C		11	C	37757	11930 ± 170	
	14.5	G	31490	3870 ± 110		14.5	D	37758	Insufficient C	
S42	5	E	31492	3610 ± 110	S54	5	A	38098	3080 ± 70	
	11	F	31493	4890 ± 100		9.5	B	38099	5990 ± 100	
	21	D	31491	7410 ± 100		10	C	38100	12310 ± 120	
	23	A	29869	8290 ± 120		14.5	D	38101	22820 ± 770	
	24	B	29870	6730 ± 150	S55	3.5	A	37759	2420 ± 110	
	28	C	29871	7860 ± 90		6	B	37760	3400 ± 100	
S43	4	E	31494	4620 ± 130		7	C	37761	4170 ± 90	
	7	F	31495	5610 ± 110		9.5	D	37762	14120 ± 160	
	14	A	29872	6970 ± 110		S56	8.5	A	37763	1490 ± 80
	14.5	D	29875	Insufficient C	S57		6	A	38102	3630 ± 70
	18	B	29873	Insufficient C			12	B	38103	6310 ± 90
	18.5	E	33127	Insufficient C		13.5	C	38104	13630 ± 100	
25	F	33128	Insufficient C	S58	3	A	38091	3020 ± 80		
24.5	C	29874	Insufficient C		5.5	B	38092	3770 ± 80		
S44	2	A	46010		2570 ± 70	11.5	C	38093	4890 ± 80	
	5	B	46011		3980 ± 80	16	D	38094	7500 ± 70	
	6.5	C	46012		3260 ± 90	S59	11.5	A	37306	3140 ± 100
	10.5	A	30123		6370 ± 180		17	B	37307	3560 ± 80
	14	B	30124	Insufficient C	27.5		C	37308	9110 ± 120	
S45	14.5	C	33129	15600 ± 290	S60	8.5	A	36773	4760 ± 110	
	12.5	A	30125	7100 ± 160		11	C	36774	5020 ± 90	
	13	B	30126	Insufficient C						
	19	C	30127	24320 ± 1080						
24	D	30128	29000 ± 1380							

Borehole number	Depth (m)	Smithsonian sample number	Beta sample number	Age (years BP)	Borehole number	Depth (m)	Smithsonian sample number	Beta sample number	Age (years BP)
S61	1.5	A	37309	2990 ± 80	S77	8	B	45642	6680 ± 100
	6	B	37310	4220 ± 100		5.5	A	46283	6430 ± 90
	13	C	37311	3430 ± 110		8.5	B	46284	6170 ± 110
	16.5	D	37312	7310 ± 100		10.5	E	48367	> 28000
S62	6	A	38095	3660 ± 70	S78	11.5	C	46285	Insufficient C
	13	B	38096	6220 ± 100		17	D	46286	Insufficient C
	17.5	C	38097	7160 ± 70		4.5	A	46287	3250 ± 60
S63	19	A	36775	6590 ± 110	6.5	B	46288	6730 ± 70	
S64	13.5	A	37313	2250 ± 100	S79	7.5	C	46289	15920 ± 140
	19.5	B	37314	3780 ± 120		4	D	48368	3850 ± 80
S65	-		None	-	4.5	A	47331	4480 ± 70	
S66	6.5	A	45078	4020 ± 100	S80	5	B	47332	17900 ± 220
	9	B	45079	3950 ± 70		6.5	C	47333	Insufficient C
	12	C	45080	5480 ± 80		3	A	46290	Insufficient C
	14.5	D	45081	7230 ± 70		3.5	C	48369	3530 ± 60
S67	5	A	45633	11890 ± 380	7.5	D	48370	23070 ± 1880	
S68	5	A	45082	2730 ± 80	S81	8	B	46291	Insufficient C
	6.5	B	45083	4980 ± 70		1.5	A	48371	1350 ± 80
	13.5	C	45084	6830 ± 80		2.5	D	48372	19630 ± 140
	14	D	45085	7170 ± 70		3	B	47334	28200 ± 460
S69	3.5	A	45634	4410 ± 80	S82	5.5	E	48373	29480 ± 330
	7.5	C	46282	23670 ± 370		11	F	48374	> 38000
	12.5	B	45635	35260 ± 610		12.5	C'	47335	Insufficient C
S70	2.5	A	45086	3220 ± 120	S83	3	C	48375	5050 ± 70
	4	B	45087	3690 ± 140		3.5	A	46292	5850 ± 150
S71	2	C	48364	3030 ± 90	S84	4	D	48376	16540 ± 220
	5.5	A	45636	4660 ± 80		4.5	B	46293	Insufficient C
	12	D	48365	6860 ± 50		3	E	58280	5410 ± 120
	12.5	B	45637	7250 ± 100		3.5	D	48379	8350 ± 140
S72	4.5	A	46014	2900 ± 70	S85	4	A	47336	8860 ± 130
	8.5	B	46015	6420 ± 80		4.5	B	48377	14990 ± 100
S73	4.5	A	45638	3990 ± 90	S86	5	C	48378	24770 ± 240
	12.5	B	45639	7590 ± 90		1	C	48380	2890 ± 60
	12	D	48366	12760 ± 110		2	A	46294	16760 ± 120
	14.5	C	45640	Insufficient C		2.5	D	48381	23510 ± 260
S74	3.5	A	45088	6290 ± 140	S87	5.5	B	46295	39350 ± 800
	8.5	B	45089	6420 ± 90		2.5	B	48382	20330 ± 270
S75	2.5	A	46016	2900 ± 60	S88	6.5	A	46296	> 39730
	7	B	46017	5830 ± 90		1.5	A	51454	1690 ± 80
	13.5	C	46018	6960 ± 110		7	B	51455	4910 ± 100
S76	5	A	45641	4950 ± 130	S89	16.5	C	51456	6430 ± 110
						0.5	A	51457	1720 ± 80
					9	B	51458	7030 ± 130	

- 1992 Chen, Warne, and Stanley: Northwestern delta
 1992 Leroy: Palynology and climate change
 1993 Dominik and Stanley: Trace elements and climate change
 1993a Stanley and Warne: Synthesis of effects on the delta
 1993b Stanley and Warne: Sea-level effects and archeology
 1993 Stanley: Severe climatic effects in winter of 1992
 1993b Warne and Stanley: Northwestern delta
 1994 Stanley and Warne: Sea level and its role in Holocene delta initiation
 1995 Warne and Stanley: World deltas concurrently affected by sea level

CHRONO- AND LITHOSTRATIGRAPHIC CORRELATIONS.—

Many of the project studies depict core-to-core correlations, most involving well-defined radiocarbon-dated lithofacies in the delta proper and sectors seaward of the coast to the Nile Cone.

- 1983 Stanley and Maldonado: Outer Nile shelf and Nile Cone
 1985 Stanley and Wetzel: Nile Cone and southeastern Mediterranean
 1985 Anastasakis and Stanley: Nile Cone
 1987 Coutellier and Stanley: Northeastern delta
 1987 Kulyk: Using foraminifera, northeastern delta
 1988 Frihy and Stanley: Methods using petrology
 1988a Stanley: Nile delta shelf
 1988 Gerber: Using geochemistry, northeastern delta
 1989 Pimmel and Stanley: Delta-front and prodelta facies
 1989 Gupta: Using trace elements, northeastern delta
 1990 Stanley: Correlations to measure subsidence of the delta plain
 1990 Shergill: Using geochemistry, northeastern delta
 1991 Arbouille and Stanley: North-central delta
 1991 Howa and Stanley: Using plant biofacies, across the northern delta
 1991 Pugliese and Stanley: Biofacies correlations, northeastern delta
 1992 Stanley, Warne et al.: North-central delta
 1992 Chen, Warne, and Stanley: Northwestern delta
 1993b Warne and Stanley: Northwestern delta
 1993a Stanley and Warne: Synthesis of delta correlations

PROVENANCE, DISPERSAL, AND PALEOGEOGRAPHY.—This group of investigations includes topics pertaining to the origin and dispersal of sediments, displacement of depositional environments, and paleogeographic changes through time in the Nile delta. This category is based on correlation of well-defined, radiocarbon-dated lithofacies of late Pleistocene to Holocene age.

- 1983 Stanley and Maldonado: Outer Nile shelf and Nile Cone
 1985 Gerges and Stanley: Northern Suez Canal
 1985 Stanley and Wetzel: Nile Cone and southeastern Mediterranean
 1985 Anastasakis and Stanley: Outer Nile shelf and Nile Cone
 1987 Coutellier and Stanley: Northeastern delta
 1989 Foucault and Stanley: Upper River Nile system to the northern delta
 1989 Stanley: Nile delta to Israeli margin, based on heavy minerals
 1990 Abu-Zeid and Stanley: Northeast delta, based on clays
 1991 Abdel Wahab and Stanley: North-central delta, based on clays
 1991 Arbouille and Stanley: North-central delta
 1992 Stanley, Warne et al.: North-central delta
 1992 Chen, Warne, and Stanley: Northwestern delta
 1993 Chen and Stanley: Central delta plain
 1993b Warne and Stanley: Northwestern delta
 1993a Stanley and Warne: Synthesis of lower delta plain
 1993 Slaboda: Trace elements in Manzala Lagoon
 1995 Frihy, Moussa, and Stanley: Abu Qir Bay
 1995 Schneiderman: Lower River Nile system, based on mineralogy

ARCHEOLOGICAL CONSIDERATIONS.—Publications in this category involve the results of petrological, sedimentological, and stratigraphic analyses in archaeological investigations.

- 1986 Stanley and Sheng: Santorini volcanic shards, Manzala Lagoon region, and possible Biblical exodus
 1992 Stanley, Arnold, and Warne: Discovery of oldest Pharaonic site in the northern delta
 1993 Allen, Hamroush, and Stanley: Egyptian civilization, environmental change, and geochemistry
 1993b Stanley and Warne: Predynastic culture as related to sea level
 1993a Warne and Stanley: Northern delta archaeological site and subsidence rates

ANTHROPOGENIC FACTORS AND IMPACT.—A series of studies takes into account the growing influence of humans on the Nile delta, including the much altered River Nile system and pollution.

- 1985 Gerges and Stanley: Human influence on the northern Suez Canal
 1993 Loizeau and Stanley: Altered Idku Lagoon environment
 1993a Stanley and Warne: Effects of altered River Nile system and predictions for the future

- 1993 Stanley: Some recent anthropogenic effects and responses in the Alexandria region
- 1994 Loizeau and Stanley: Altered Mariut Lagoon subenvironment
- 1994 Siegel, Slaboda, and Stanley: Recent increased pollution in Manzala Lagoon

NILE DELTA LAGOONS.—Increased attention is being paid to the recent evolution of the shallow Manzala, Burullus, Idku, and Mariut water bodies in the northern Nile delta and the sedimentary and faunal facies therein.

- 1992 Randazzo: Petrology of recent Manzala Lagoon deposits
- 1992 Longo: Molluscan faunas and palaeoecology in modern lagoons
- 1993 Loizeau and Stanley: Changing lithofacies, Idku Lagoon
- 1994 Loizeau and Stanley: Changing lithofacies, Mariut Lagoon
- 1994 Bernasconi and Stanley: Changes in molluscan biofacies
- 1994 Siegel, Slaboda, and Stanley: Recently increased pollution in Manzala Lagoon

COMPARING THE NILE WITH OTHER WORLD DELTAS.—A more recent research effort considers attributes of the Holocene Nile delta, which enable it to be compared with other such depocenters elsewhere in the world. Of special consideration are the timing and factors responsible for initiation of modern world deltas.

- 1986 Stanley: Mediterranean deltas, fans, and cones
- 1994 Stanley and Warne: Timing of delta initiation and the role of sea level
- 1995 Warne and Stanley: Comparing factors controlling the development of world deltas

Applications For Delta Management

The northern Nile delta is presently undergoing rapid environmental deformation and ecological decline. Most serious are the combined effects of natural factors, such as land subsidence and rising sea level, with anthropogenic factors, such as irrigation and damming. This results in, among other changes, seawater incursion into the delta's water table and coastal erosion (Stanley and Warne, 1993a). Salination has increased substantially since closure of the Aswan High Dam in 1964, reducing agricultural productivity (Biswas, 1993) and altering the chemistry of the delta's lagoon and lake waters (Kerambrun, 1986). The dam now controls the flood cycle, which previously flushed the delta plain and prevented substantial accumulation of salts in this evaporitic setting. Also significant is the trapping of sediments at Lake Nasser behind

the dam, reducing nutrients formerly carried downstream in the flow to the delta and offshore. At the same time, the rapidly increasing population has necessitated intensified agricultural development, unprecedented municipal expansion, accelerated diversion of Nile waters through a dense and complex irrigation system, and land reclamation of vital delta water bodies, such as lagoons and marshes. These activities, particularly the much-reduced sediment discharge, have also contributed to heightened coastal erosion by Mediterranean nearshore currents (Figure 10).

It is our hope that the information collected in this document can be of assistance to geologists, ecologists, agronomists, and engineers having the responsibility of maintaining and improving environmental conditions in the lower Nile delta plain. With the available database, specialists will be able to distinguish and measure changes, both natural- and human-induced, over time. Our work, focusing on dated subsurface sedimentary sections, serves this purpose for the lower Nile delta from the time of its initiation in the early Holocene (~8000 years ago) to the 1990s. Of primary value are the data serving to compile paleogeographic reconstructions of the northern delta, including positions of earlier Nile channels, strandplains, lagoons, and marshes, prior to and during the early phases of human settlement.

Data gathered from the borings provide a means to distinguish the effects of natural from anthropogenic factors. In essence, we have compiled a temporal and spatial record of change from the time when human impact was minimal, prior to ~7000 years ago (Stanley and Warne, 1993b), when sea-level and climate oscillations, neotectonism, and effects of fluvial and coastal processes were dominant in controlling the configuration of the lower Nile delta plain. Although our data indicate that fluctuations of these natural factors continue to modify the delta, the record shows that the escalating role of people began to overtake the influence of natural factors as early as the Dynastic period (Butzer, 1976). Since the beginning of Egypt's industrialization, and particularly since the latter part of the nineteenth and the beginning of the twentieth century (when the first dam at Aswan was completed, along with a series of barrages and River Nile channelization projects), our records show that human influence on the delta has expanded by several orders of magnitude. The dated borings thus serve as a gauge against which present changes can be compared. For example, rates and amounts of land subsidence and delta tilting (Stanley, 1990) and recent increases in pollutants in lagoon and marsh areas can be measured accurately against the long-term record (Siegel et al., 1994).

As in the case of many of the world's major deltas, the Nile is low-lying and highly vulnerable to even minor changes in sea level and subsidence. Inasmuch as the sediment supply has now been artificially curtailed, this depocenter has become increasingly subject to marine incursion, which further reduces its










FIGURE 10.—Section of the town of Ras El-Barr at the Damietta promontory (north of Damietta, D on Figure 1), recently abandoned and undergoing destruction by intense coastal current erosion. Relatively rapid incursion of the sea in this region is due to concurrent subsidence of land and rise in sea level as indicated by analyses of radiocarbon-dated drill cores. Photograph taken in October 1992. (Courtesy of G. Drapeau.)

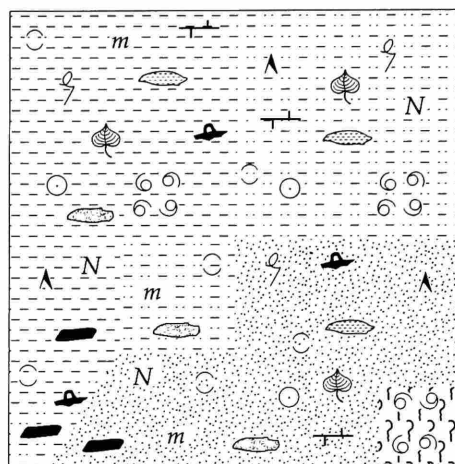
ability to sustain a dense and burgeoning population. Given this rapidly changing dynamic of interplay among human and natural factors, the availability of a comprehensive database

becomes essential for the implementation of effective protection measures in a region where dependency on agricultural production has reached a critical stage.

Appendix 1: Core Lithological Logs

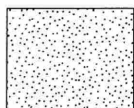
Legend for core logs S1-S87

-  Plant Fossil
-  Root
-  Shell Fragments
-  Potsherd
-  Gypsum
-  Whole Shell
-  Organic Matter
-  Mica
-  Nodule
-  Pebbles
-  Sand Pocket
-  Clay Pocket
-  Limestone Pocket
-  Limestone

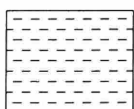


- | Core
- W₁ Washing
- 3 Sample
- ³ Spoon Sample
- ⊠ Radiocarbon Sample

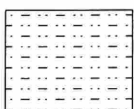
Lithologic Patterns



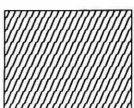
Sand



Clay



Silt/Mud



Peat

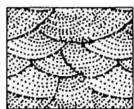
Structural Patterns



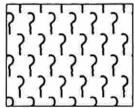
Planar
Laminae



Non-
Planar
Beds



Cross-
Bedded

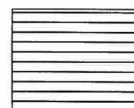


Bio-
turbated

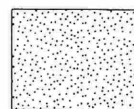


Peat

Textural Patterns



Silt



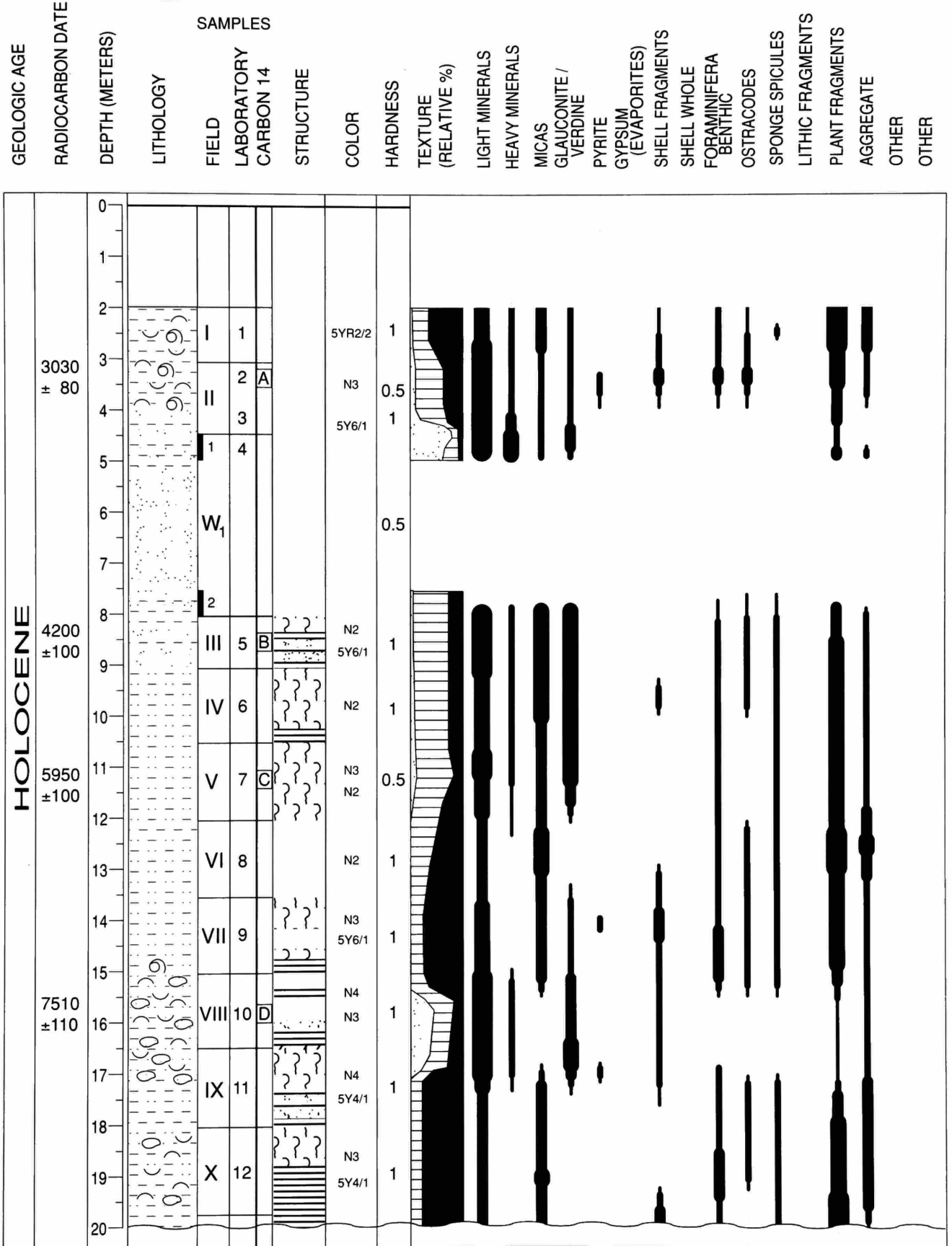
Sand



Clay

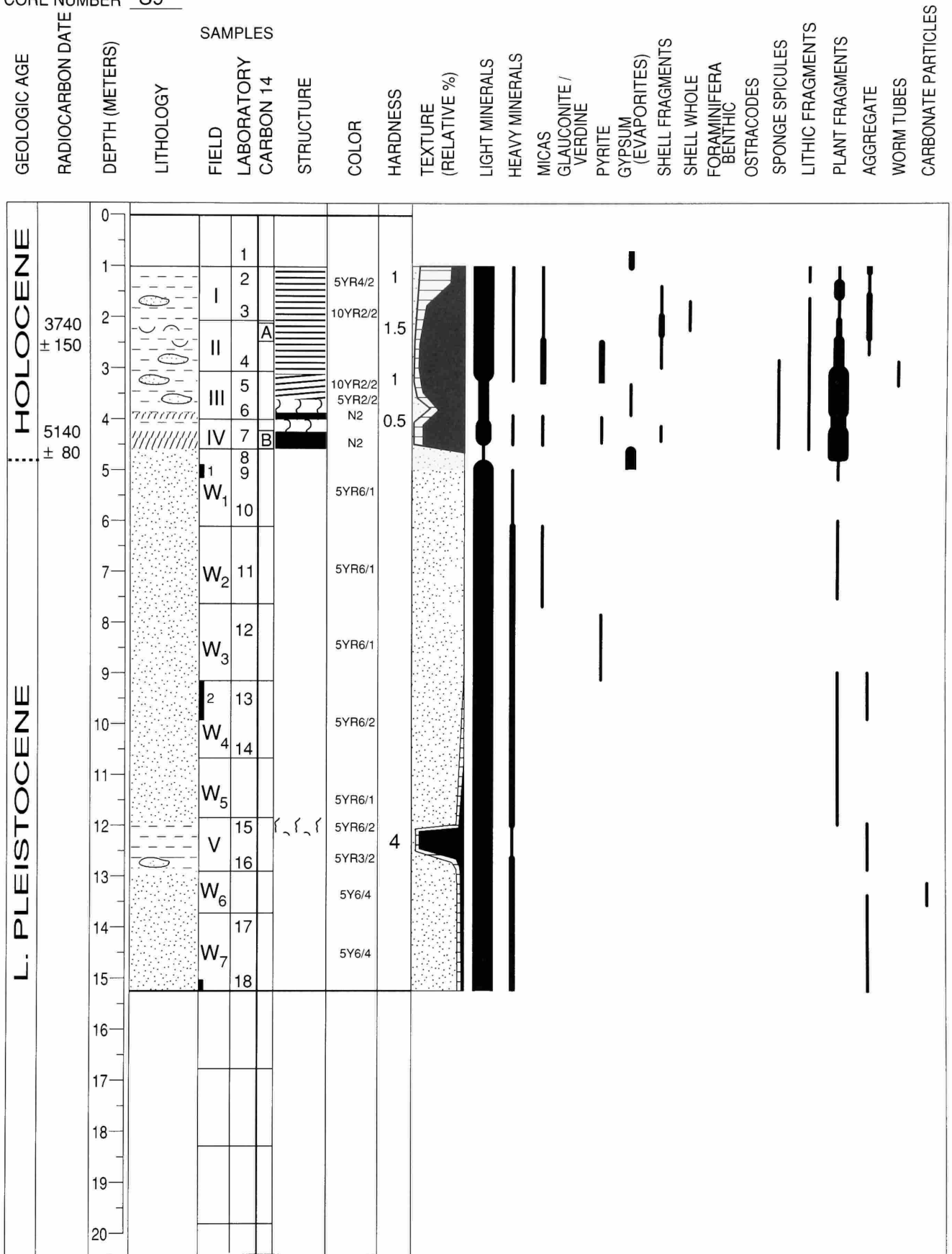
APPENDIX 1.—Continued.

CORE NUMBER S3 I



APPENDIX 1.—Continued.

CORE NUMBER S9



APPENDIX 1.—Continued.

CORE NUMBER S11 II

GEOLOGIC AGE	RADIOCARBON DATE	DEPTH (METERS)	LITHOLOGY	SAMPLES		STRUCTURE	COLOR	HARDNESS	TEXTURE (RELATIVE %)	LIGHT MINERALS	HEAVY MINERALS	MICAS	GLAUCONITE / VERDINE	PYRITE	GYPSUM (EVAPORITES)	SHELL FRAGMENTS	SHELL WHOLE	FORAMINIFERA BENTHIC	OSTRACODES	SPONGE SPICULES	LITHIC FRAGMENTS	PLANT FRAGMENTS	AGGREGATE	OTHER	CALCIC AGGREGATES
				LABORATORY CARBON 14	FIELD																				
L. PLEISTOCENE	9820 ±400	20	[Lithology: Dotted pattern with small circles]	3	23		5YR7/2		[Texture: Dotted pattern]																
		21		W ₉			5Y5/2																		
		22		W ₁₀	24		5YR7/2																		
		23		W ₁₁			5YR7/2																		
		23		W ₁₂	25	F	5YR7/2																		
		24																							
		25																							
		26																							
		27																							
		28																							
		29																							
		30																							
31																									
32																									
33																									
34																									
35																									
36																									
37																									
38																									
39																									
40																									

APPENDIX 1.—Continued.

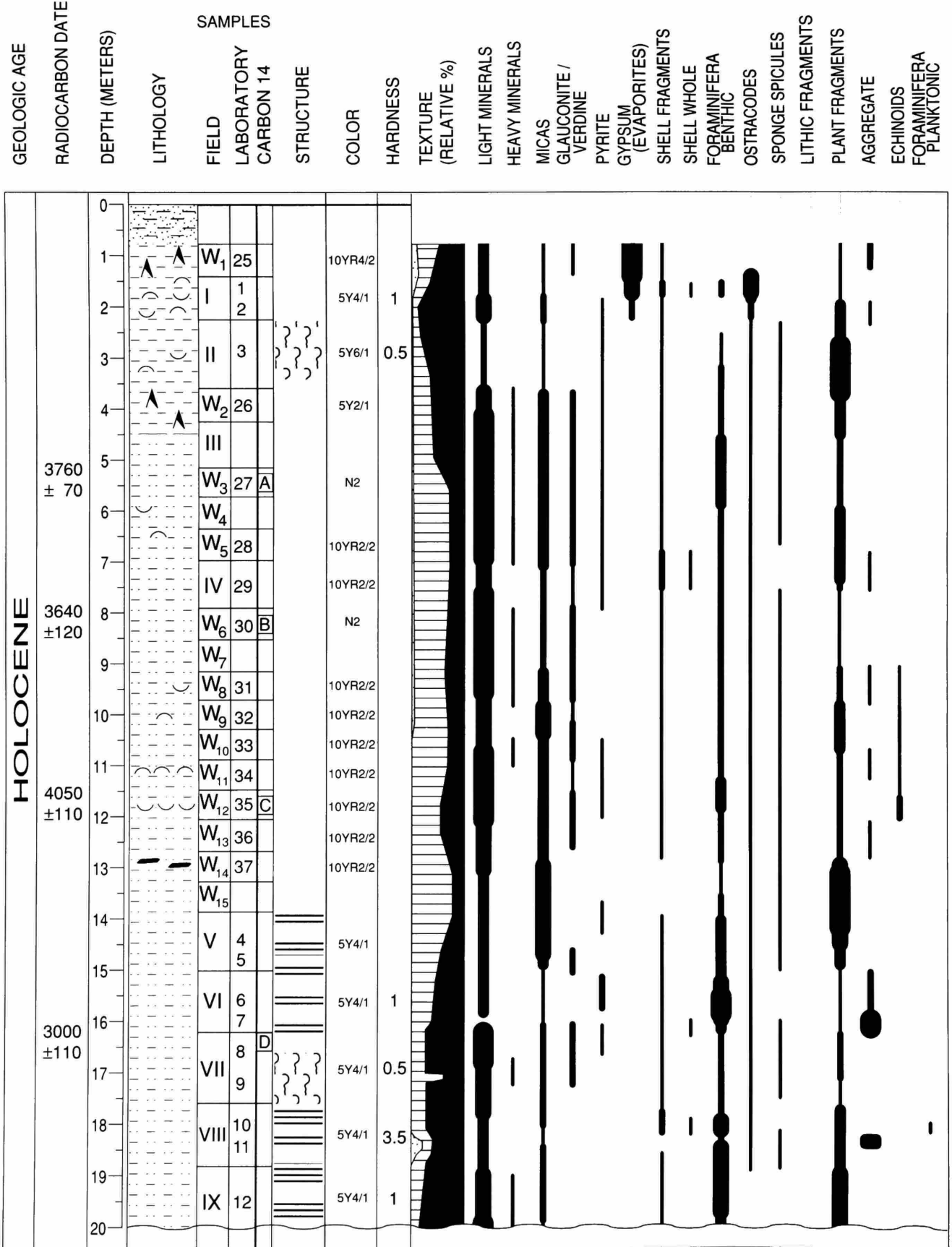
CORE NUMBER S12 II

GEOLOGIC AGE	RADIOCARBON DATE	DEPTH (METERS)	LITHOLOGY	SAMPLES		STRUCTURE	COLOR	HARDNESS	TEXTURE (RELATIVE %)	LIGHT MINERALS	HEAVY MINERALS	MICAS	GLAUCONITE / VERDINE	PYRITE	GYPSUM (EVAPORITES)	SHELL FRAGMENTS	SHELL WHOLE	FORAMINIFERA BENTHIC	OSTRACODES	SPONGE SPICULES	LITHIC FRAGMENTS	PLANT FRAGMENTS	AGGREGATE	ECHINOIDS	OTHER	
				FIELD	LABORATORY CARBON 14																					
L. PLEISTOCENE		20		W ₉			5Y7/1																			
		21		W ₁₀	19		5Y4/1																			
		22		6																						
		23		W ₁₁	20		5Y4/1																			
		24		7	21	F																				
		25																								
		26																								
		27																								
		28																								
		29																								
	30																									
	31																									
	32																									
	33																									
	34																									
	35																									
	36																									
	37																									
	38																									
	39																									
	40																									

INSUF

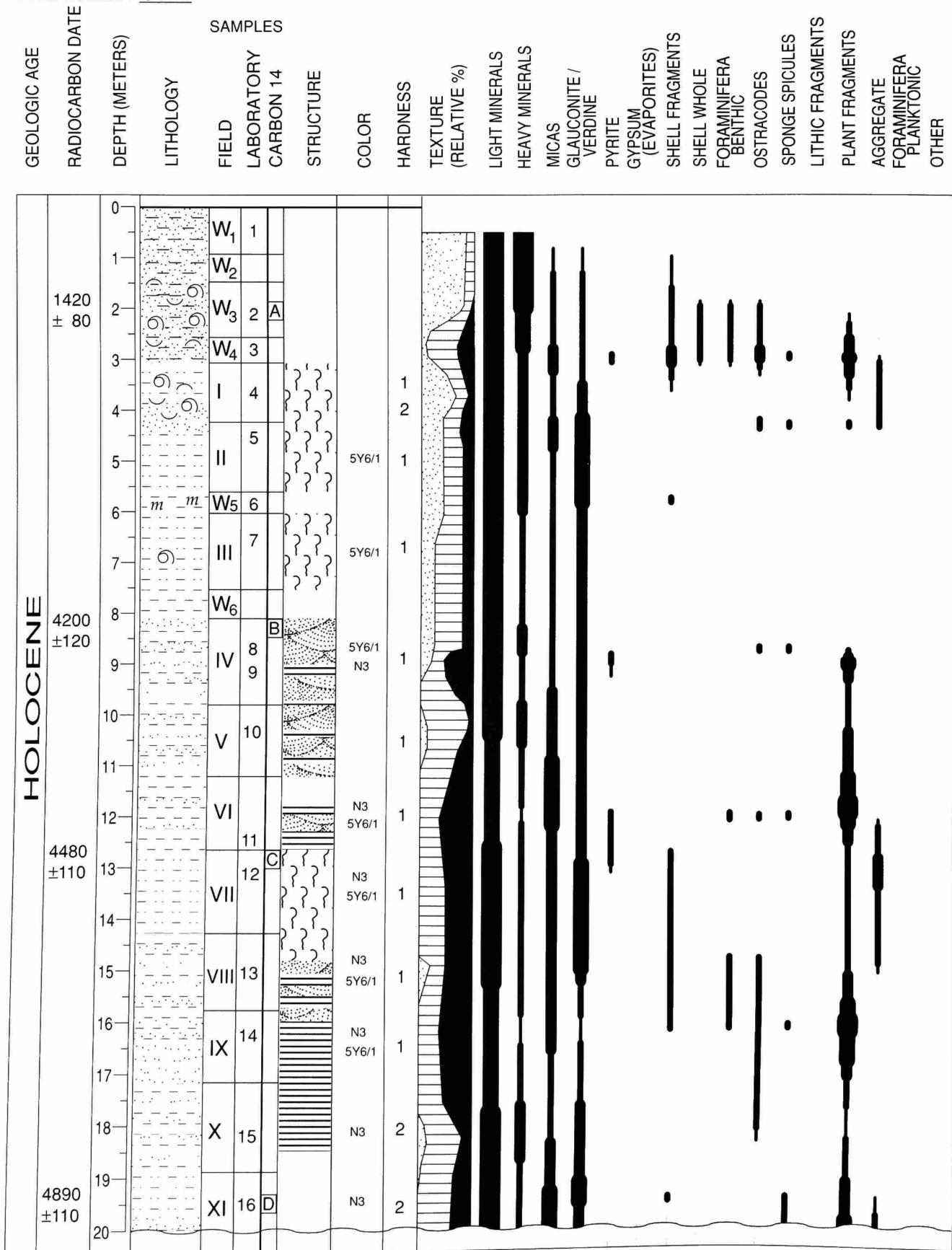
APPENDIX 1.—Continued.

CORE NUMBER S13 I



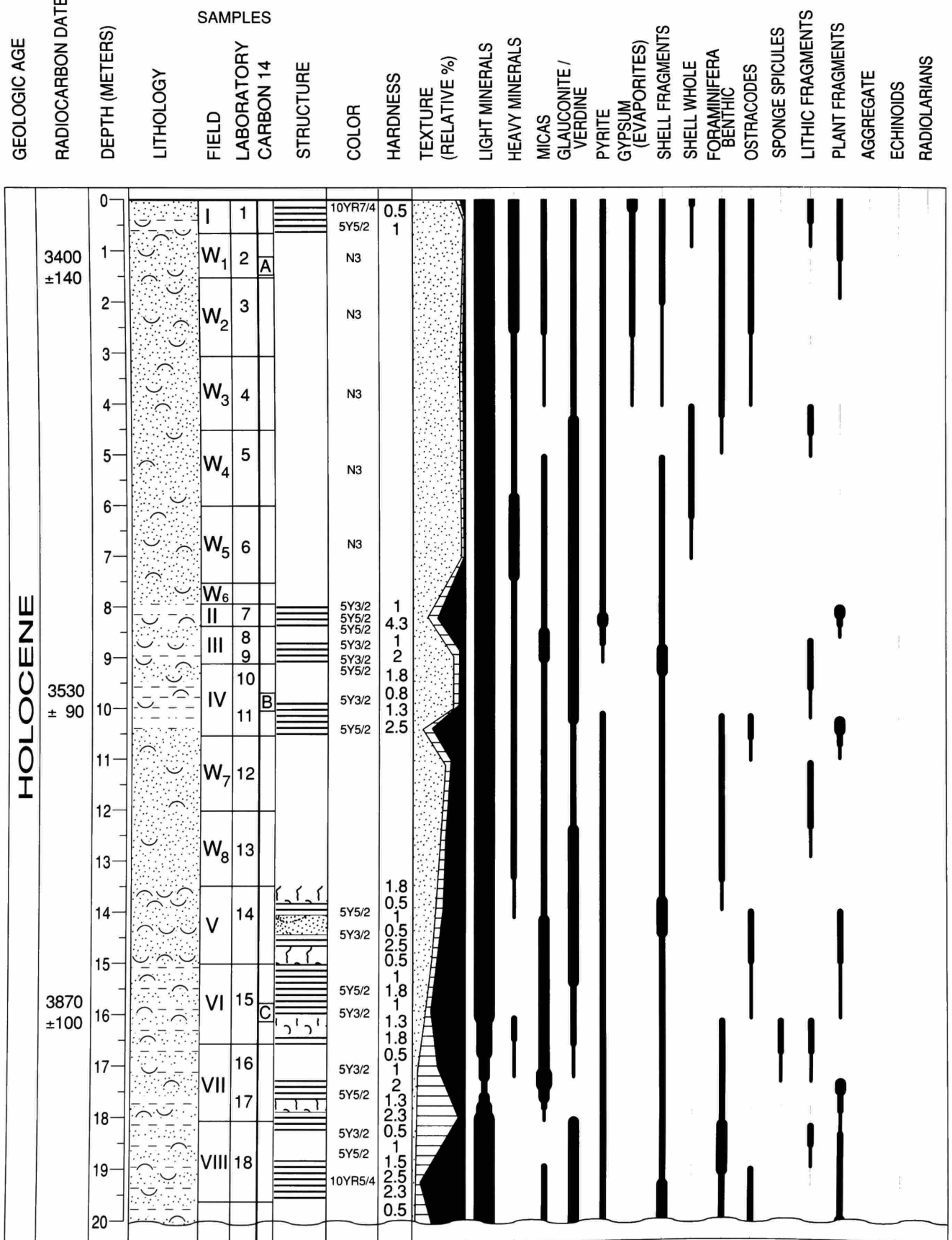
APPENDIX 1.—Continued.

CORE NUMBER S171



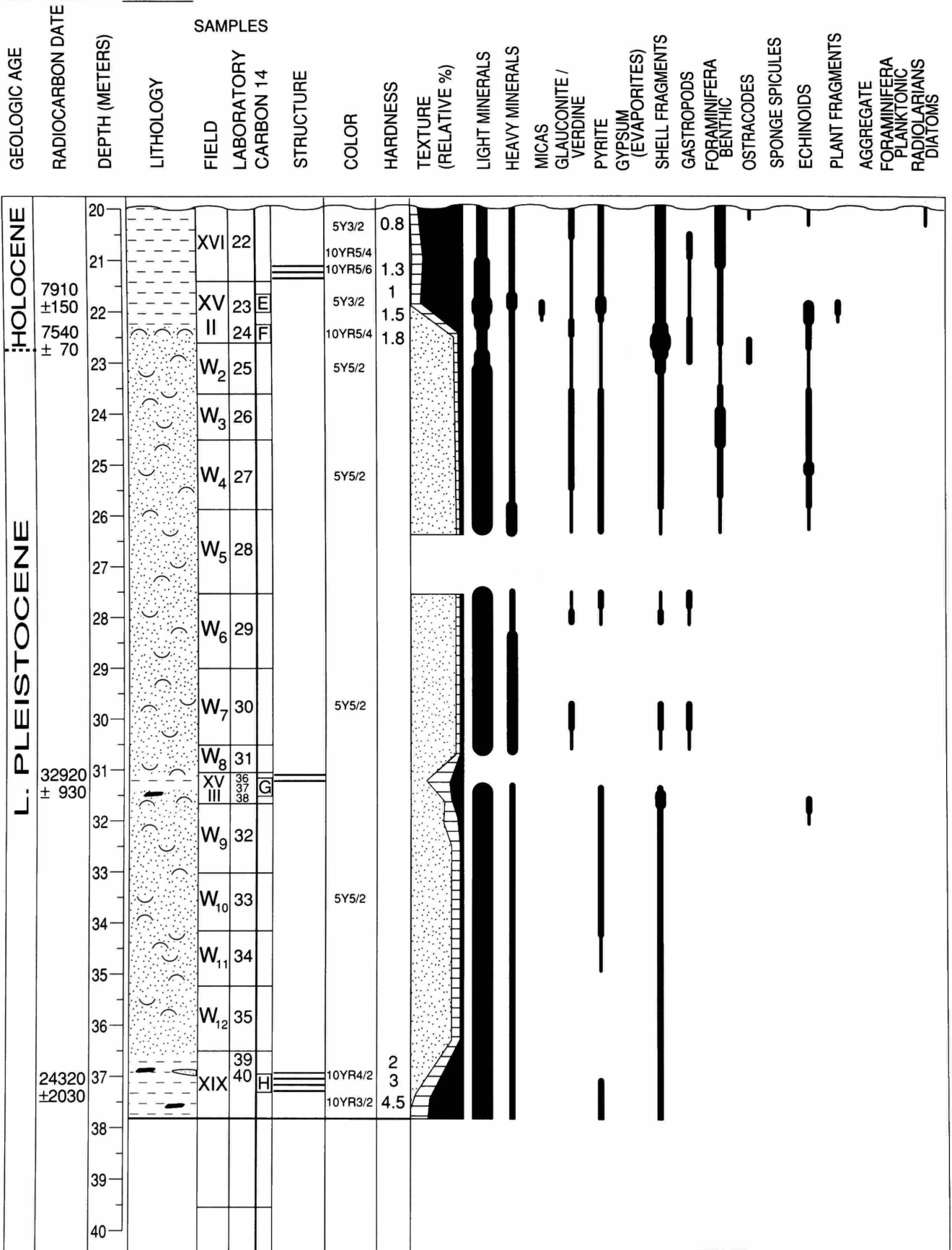
APPENDIX 1.—Continued.

CORE NUMBER S21 I



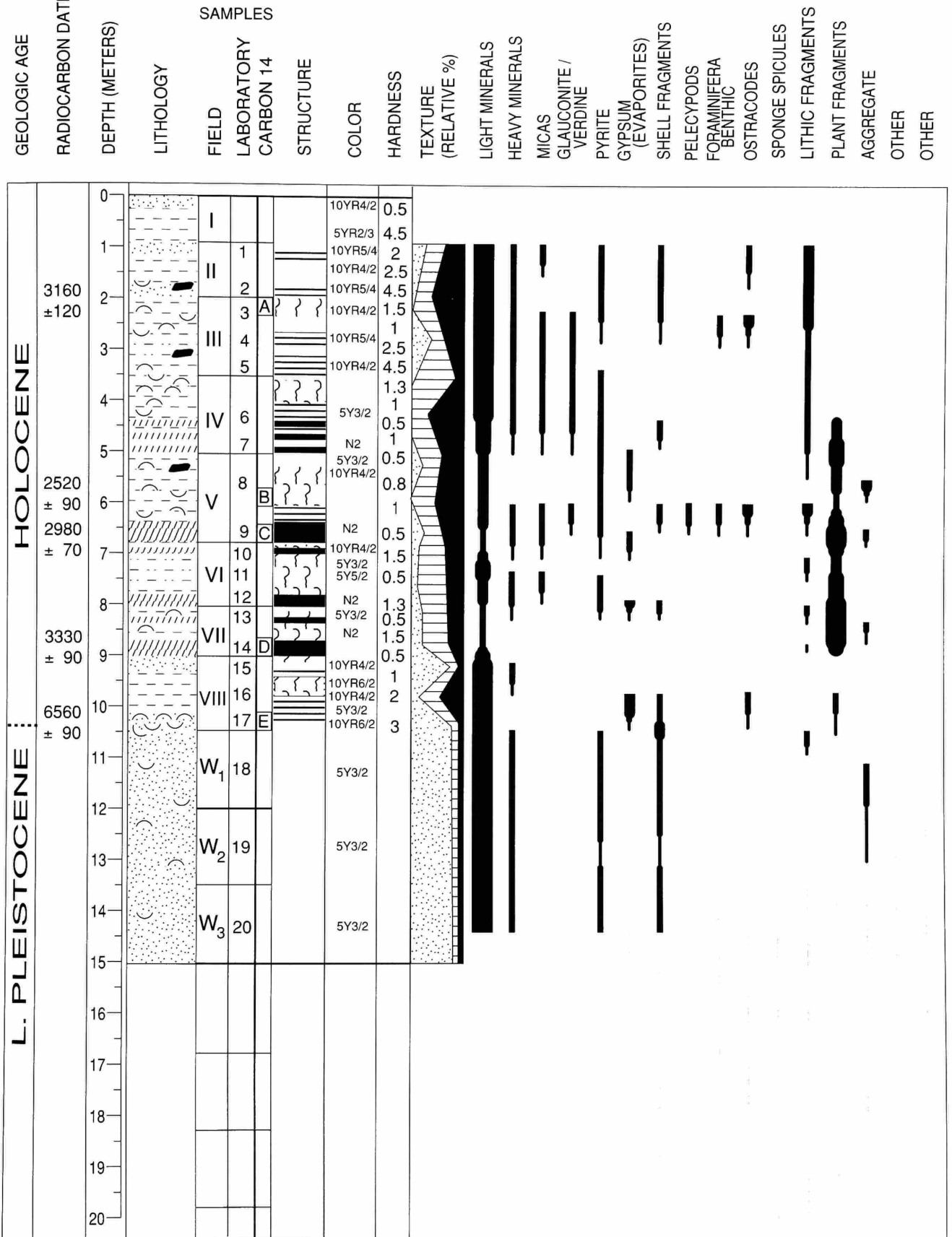
APPENDIX 1.—Continued.

CORE NUMBER S22 II

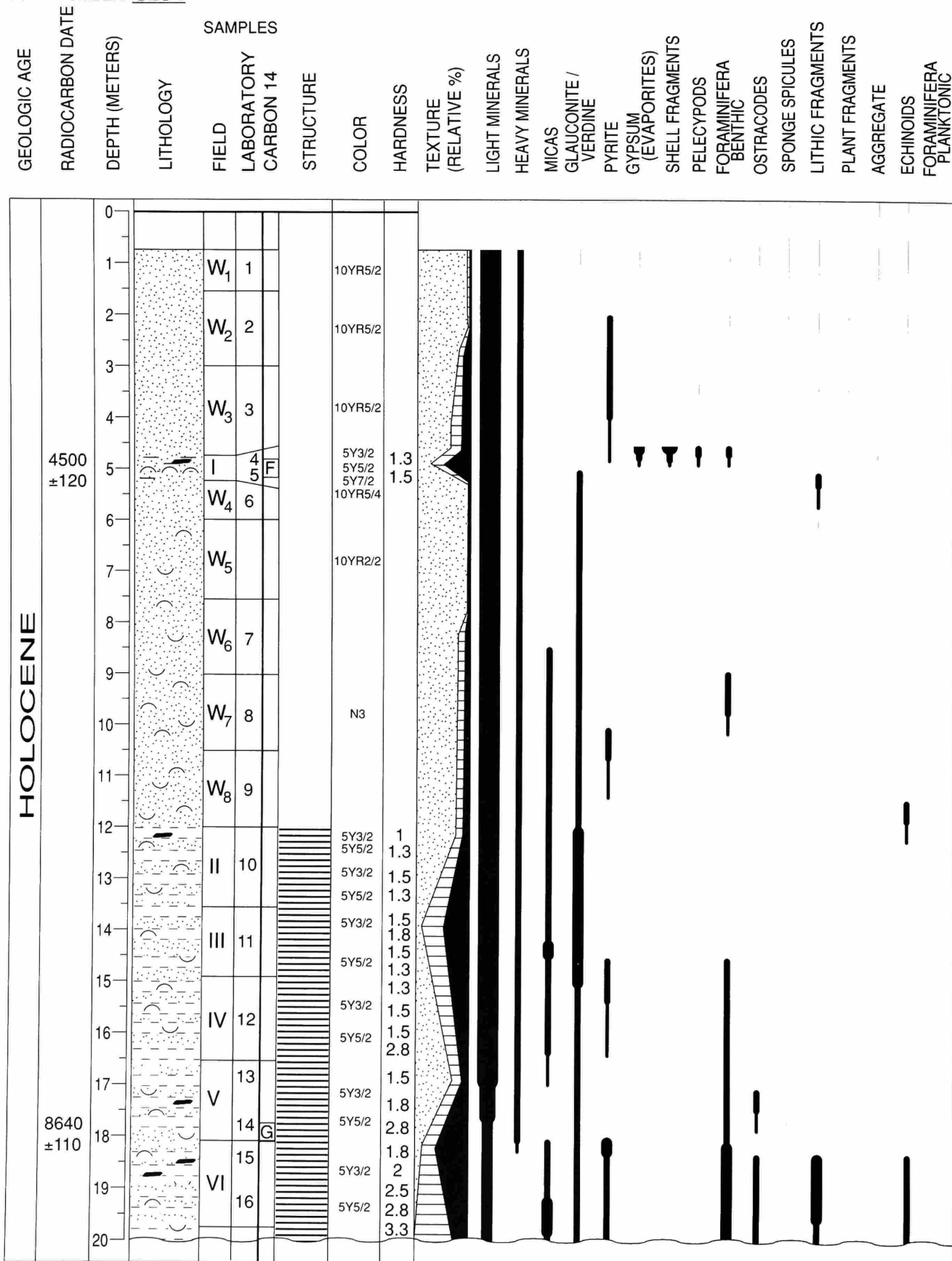


APPENDIX 1.—Continued.

CORE NUMBER S27

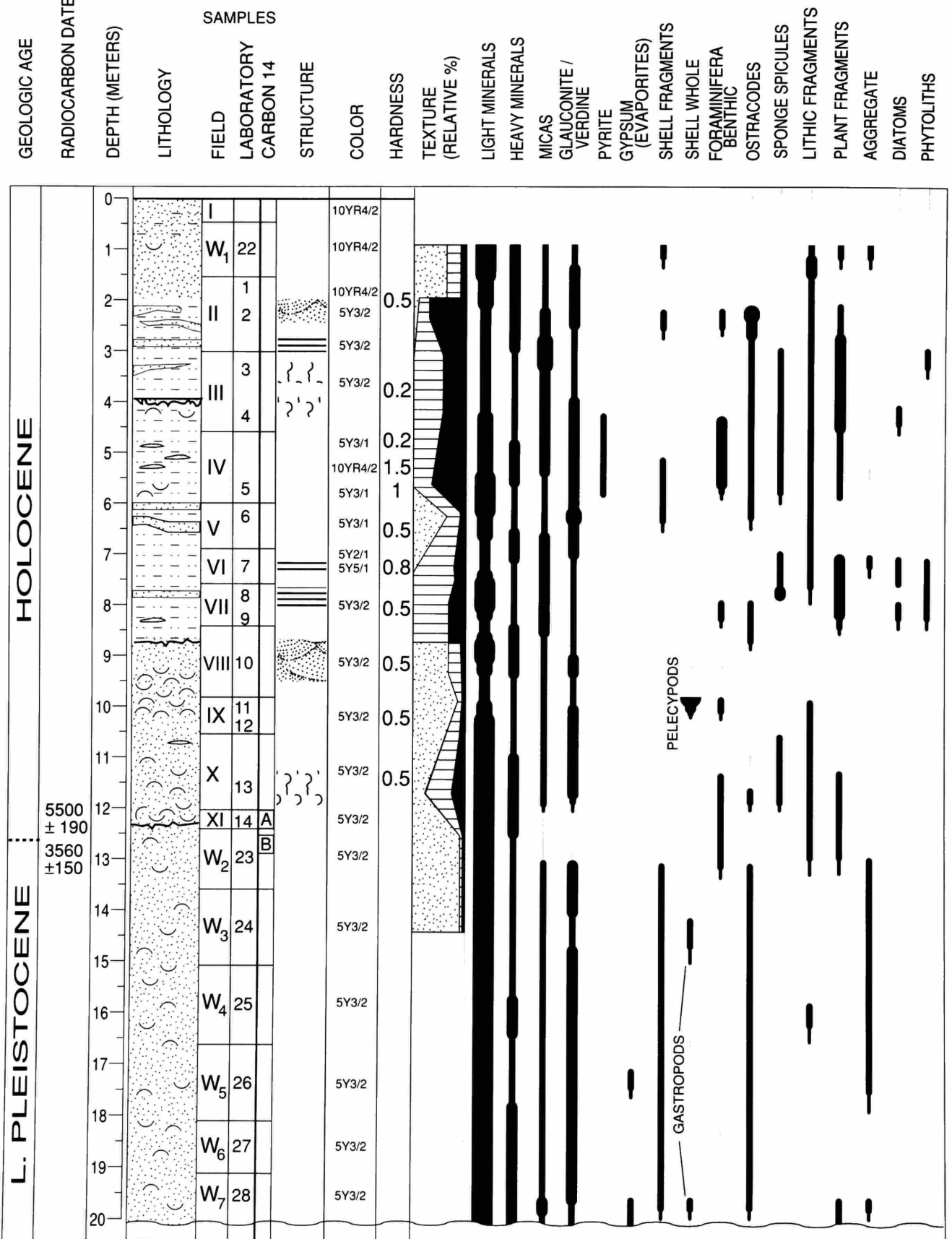


APPENDIX 1.—Continued.

CORE NUMBER S28 I

APPENDIX 1.—Continued.

CORE NUMBER S33 I



HOLOCENE

L. PLEISTOCENE

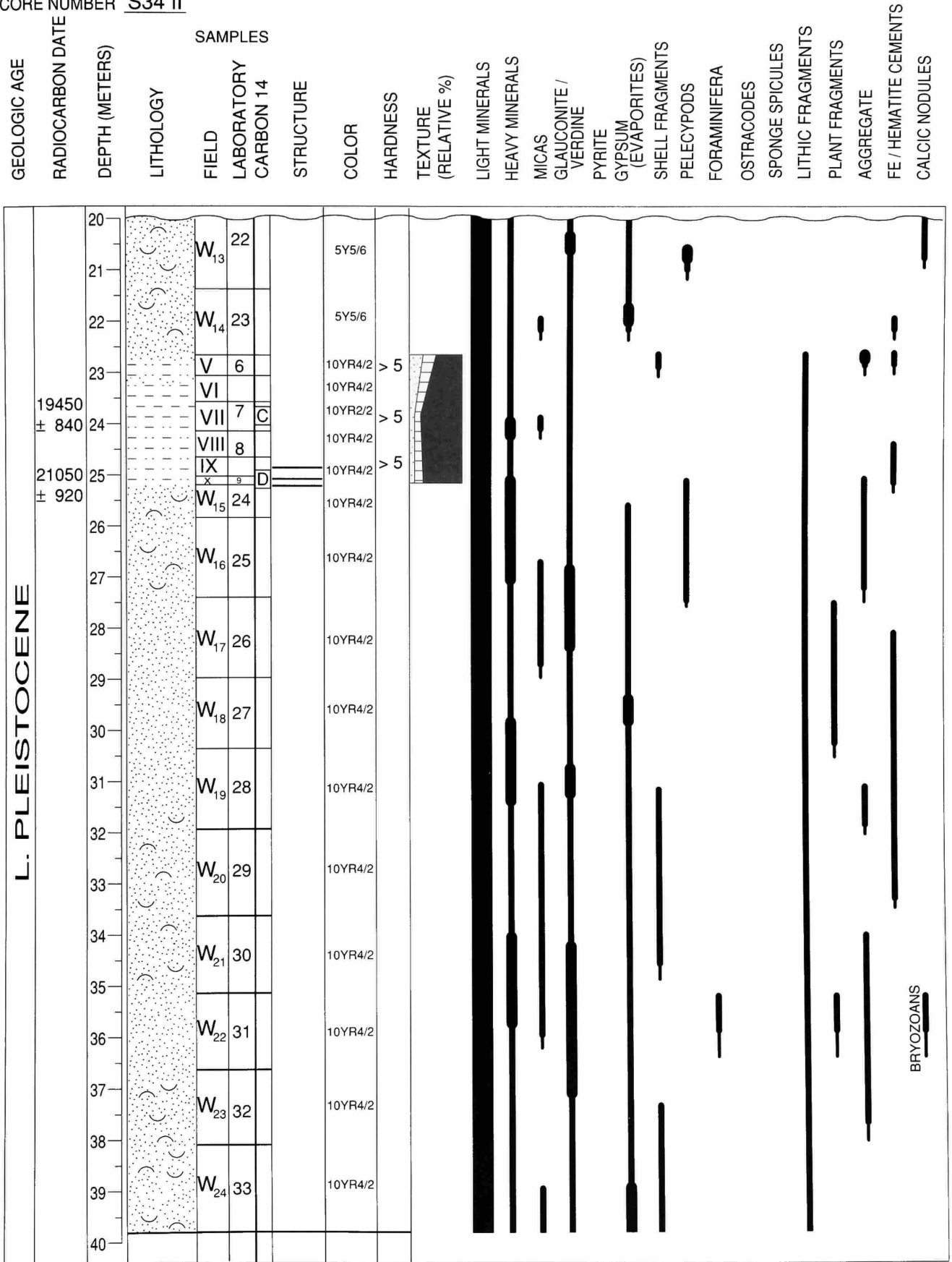
5500 ± 190
3560 ± 150

PELECYPODS

GASTROPODS

APPENDIX 1.—Continued.

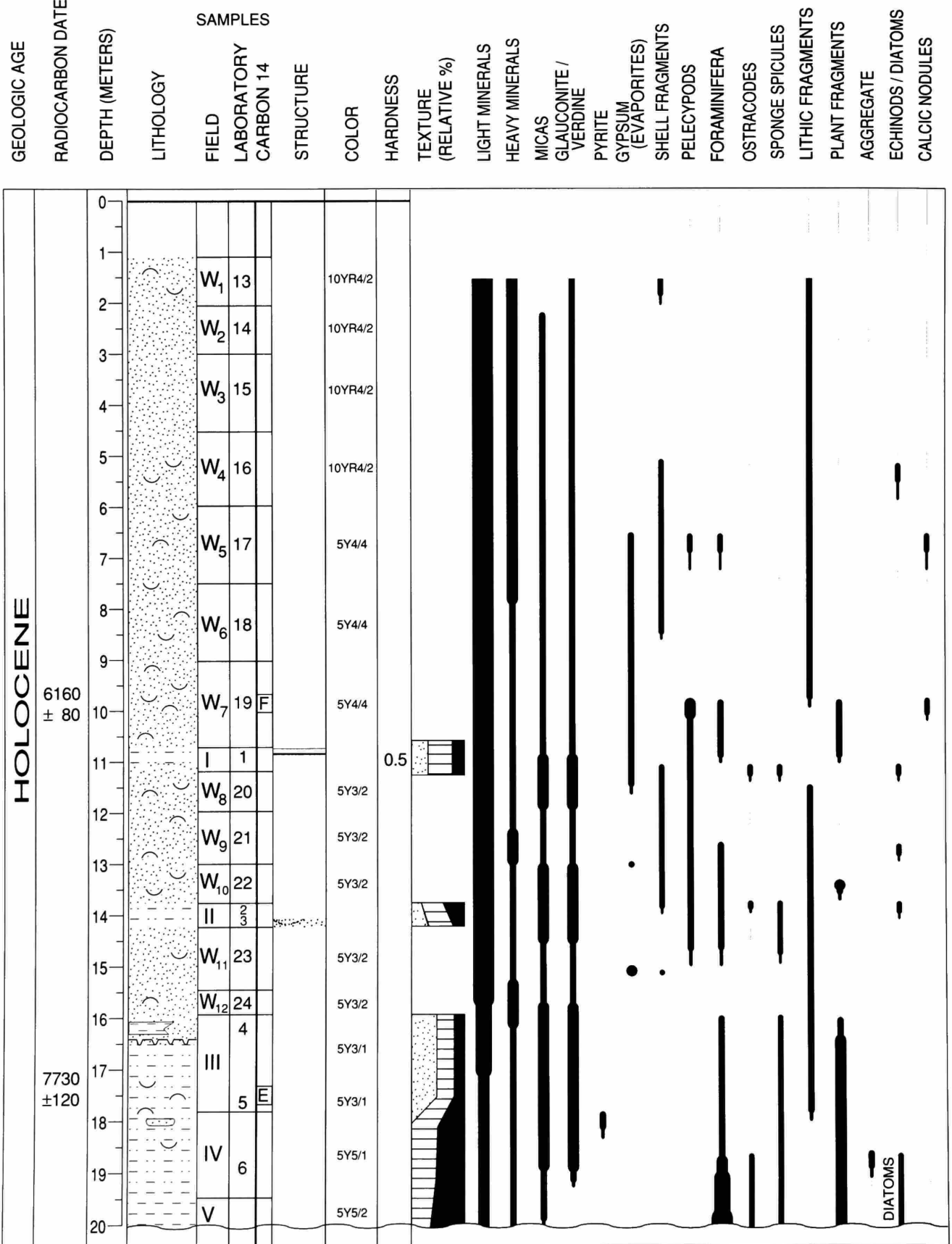
CORE NUMBER S34 II



BRYOZOANS

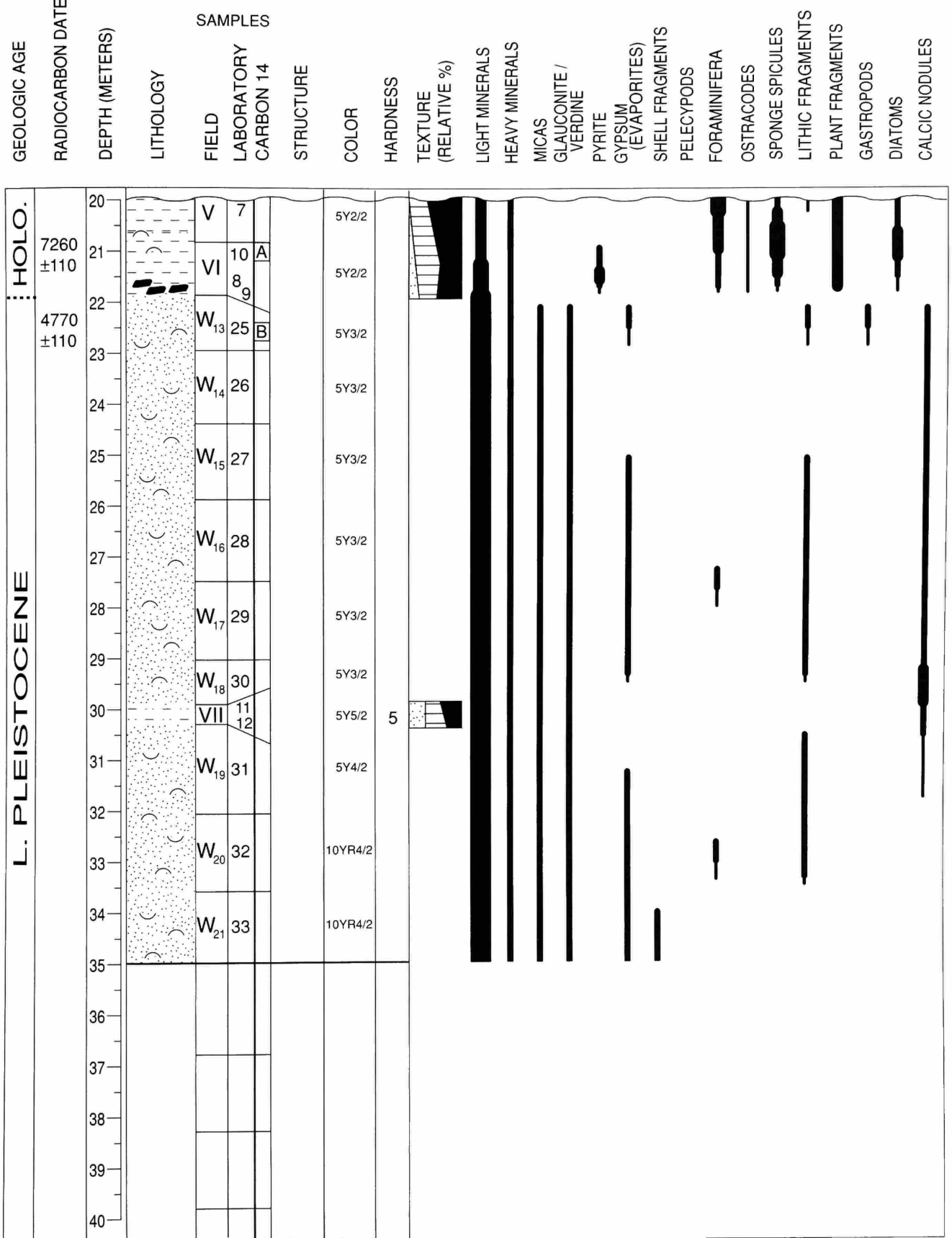
APPENDIX 1.—Continued.

CORE NUMBER S35 I



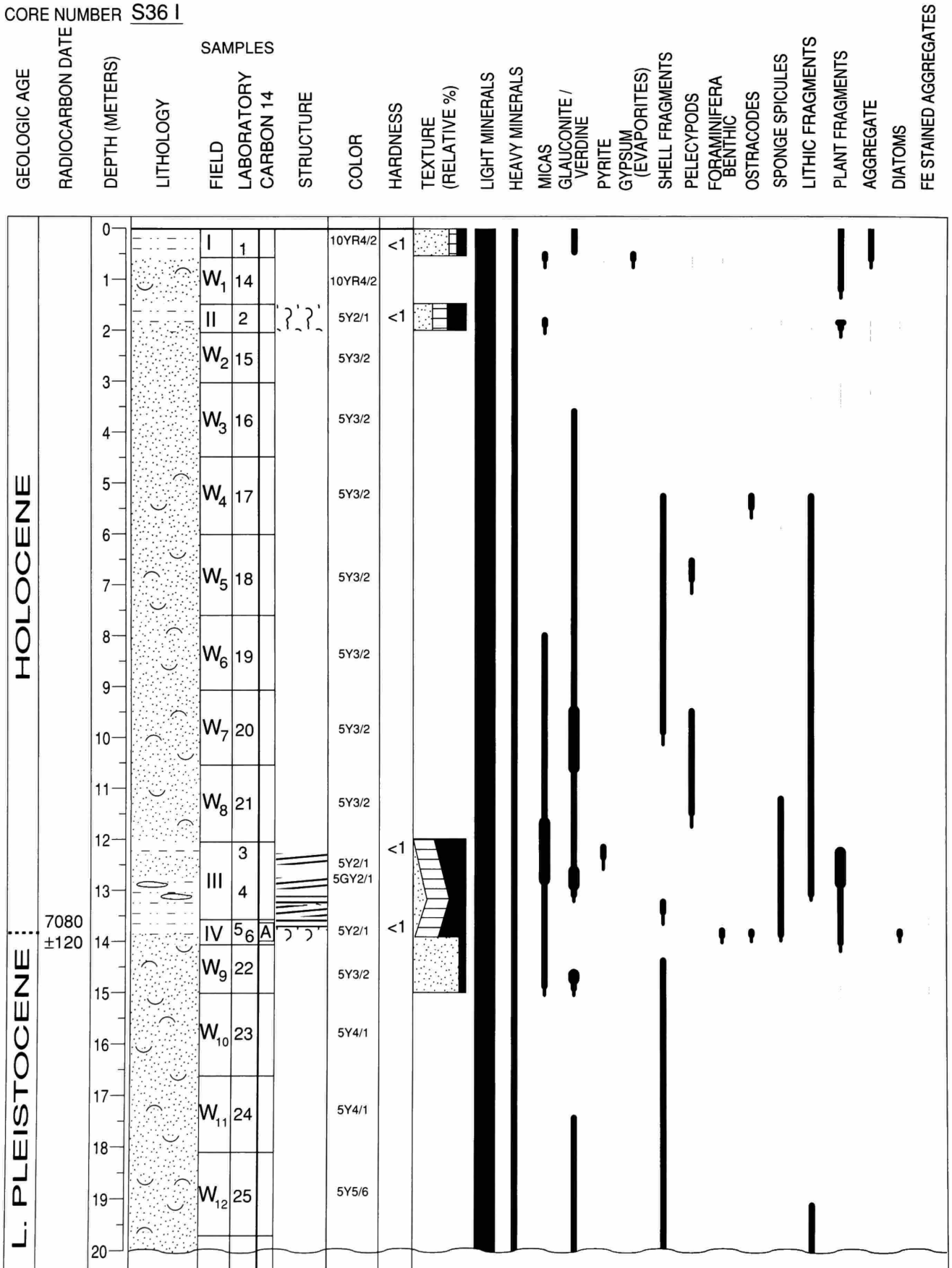
APPENDIX 1.—Continued.

CORE NUMBER S35 II



APPENDIX 1.—Continued.

CORE NUMBER S36 I



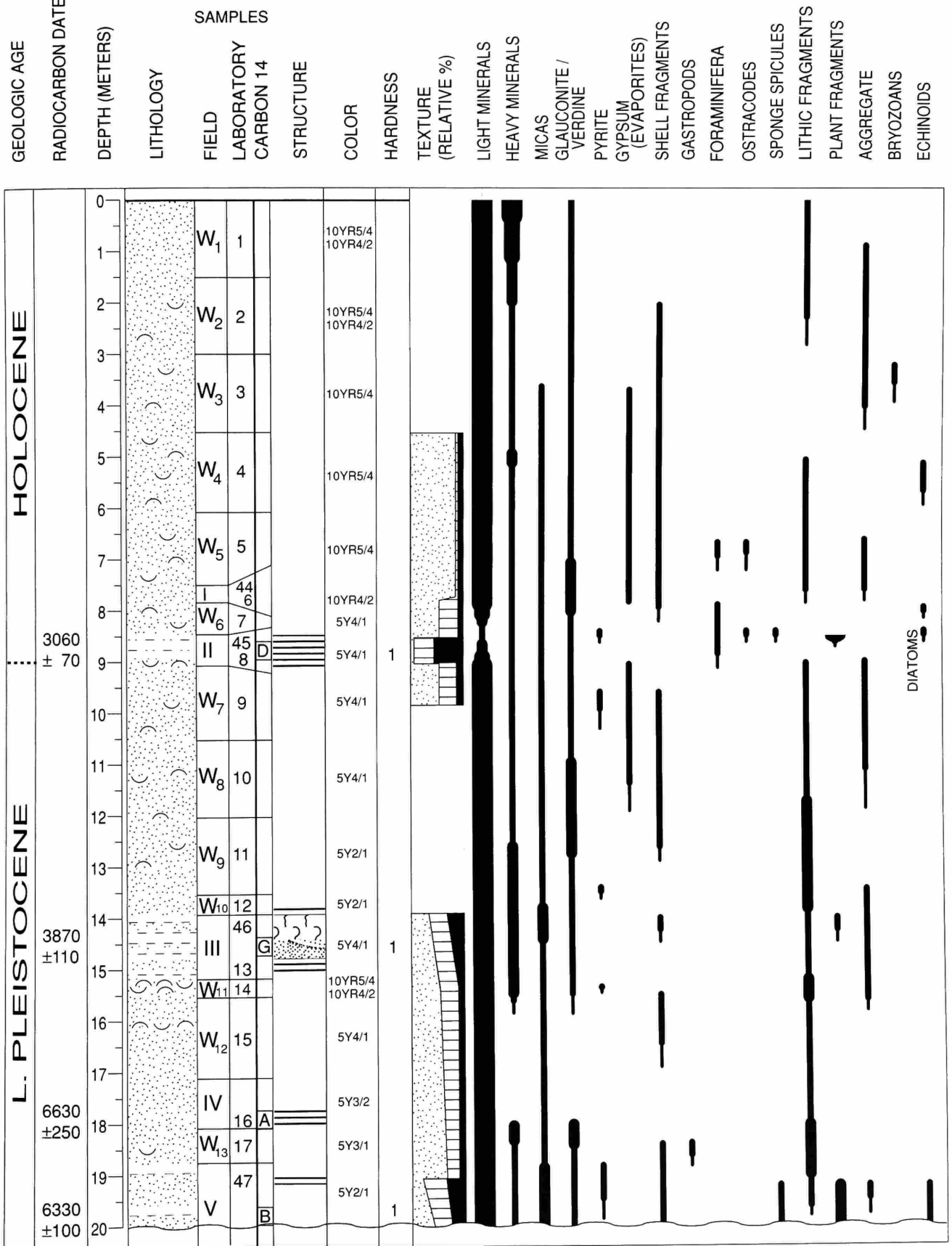
HOLOCENE

L. PLEISTOCENE

7080 ±120

APPENDIX 1.—Continued.

CORE NUMBER S41 I



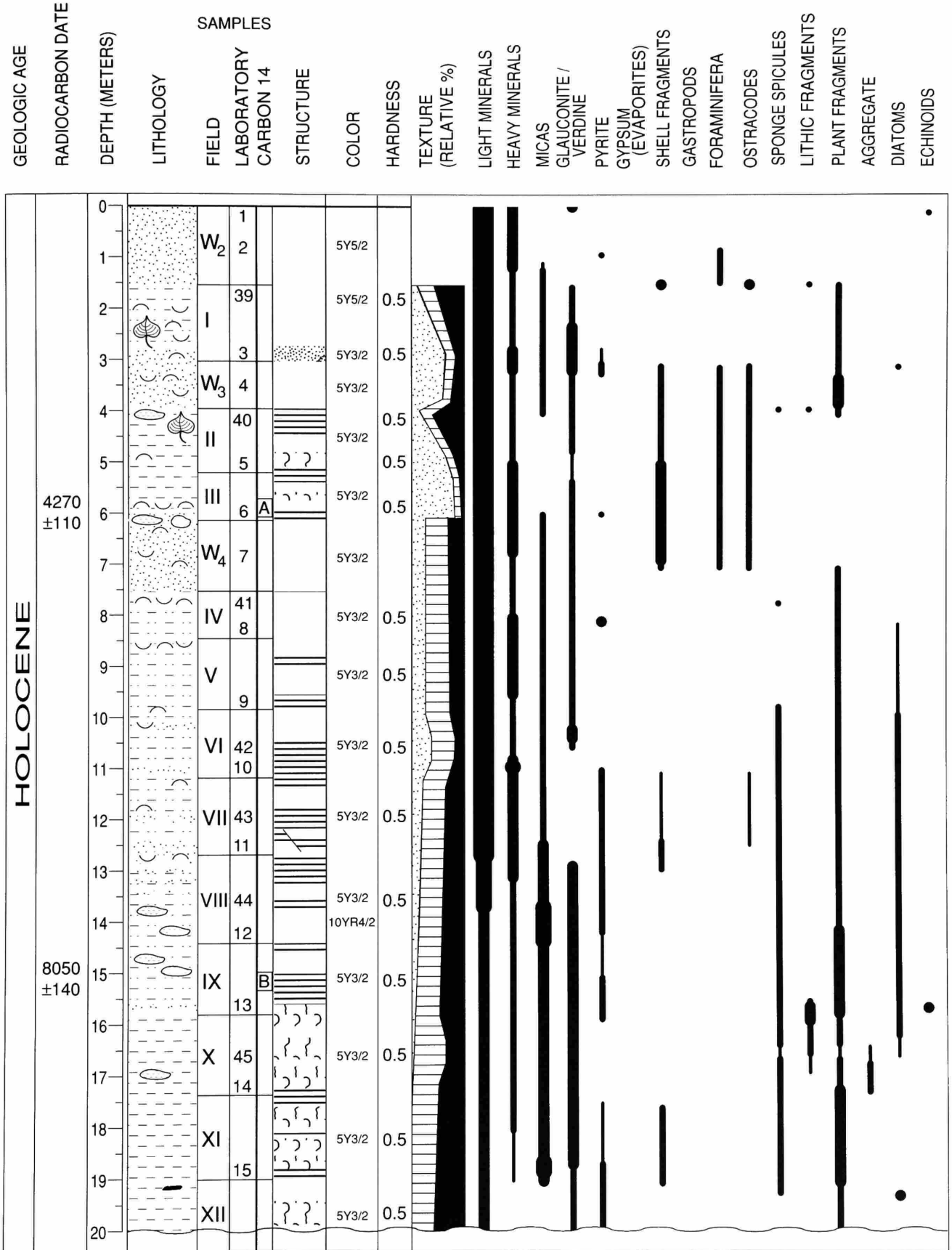
APPENDIX 1.—Continued.

CORE NUMBER S42 II

GEOLOGIC AGE	RADIOCARBON DATE	DEPTH (METERS)	LITHOLOGY	SAMPLES		STRUCTURE	COLOR	HARDNESS	TEXTURE (RELATIVE %)	LIGHT MINERALS	HEAVY MINERALS	MICAS	GLAUCONITE / VERDINE	GYPSUM (EVAPORITES)	PELECYPODS	SHELL FRAGMENTS	GASTROPODS	FORAMINIFERA BENTHIC	OSTRACODES	SPONGE SPICULES	LITHIC FRAGMENTS	PLANT FRAGMENTS	AGGREGATE	BRYOZOANS	FE OXIDES
				FIELD	LABORATORY CARBON 14																				
L. PLEISTOCENE	7410 ±100	20		W ₁₄	14		5Y4/1		1.2																
		I		35 15	D	5Y2/1																			
		22		W ₁₅	16		5Y4/1																		
	8290 ±120	23		II	35 17	A	5Y3/1	1.4																	
	6730 ±150	24		W ₁₆	18	B	5Y3/2																		
		25		W ₁₇	19		5Y3/2																		
		26																							
		27		W ₁₈	20		5Y4/1																		
		28		7860 ± 90	W ₁₉	21	C	5Y4/1																	
		29																							
		30		W ₂₀	22		5Y6/1 10YR4/2																		
		31		W ₂₁	23		5Y4/1																		
		32																							
		33		W ₂₂	24		5Y5/1																		
		34		W ₂₃	25		5Y5/1																		
		35																							
		36		W ₂₄	26		5Y5/1																		
		37		W ₂₅	27		5Y5/2																		
		38																							
		39		W ₂₆	28		5Y5/2 5YR3/4																		
		40																							

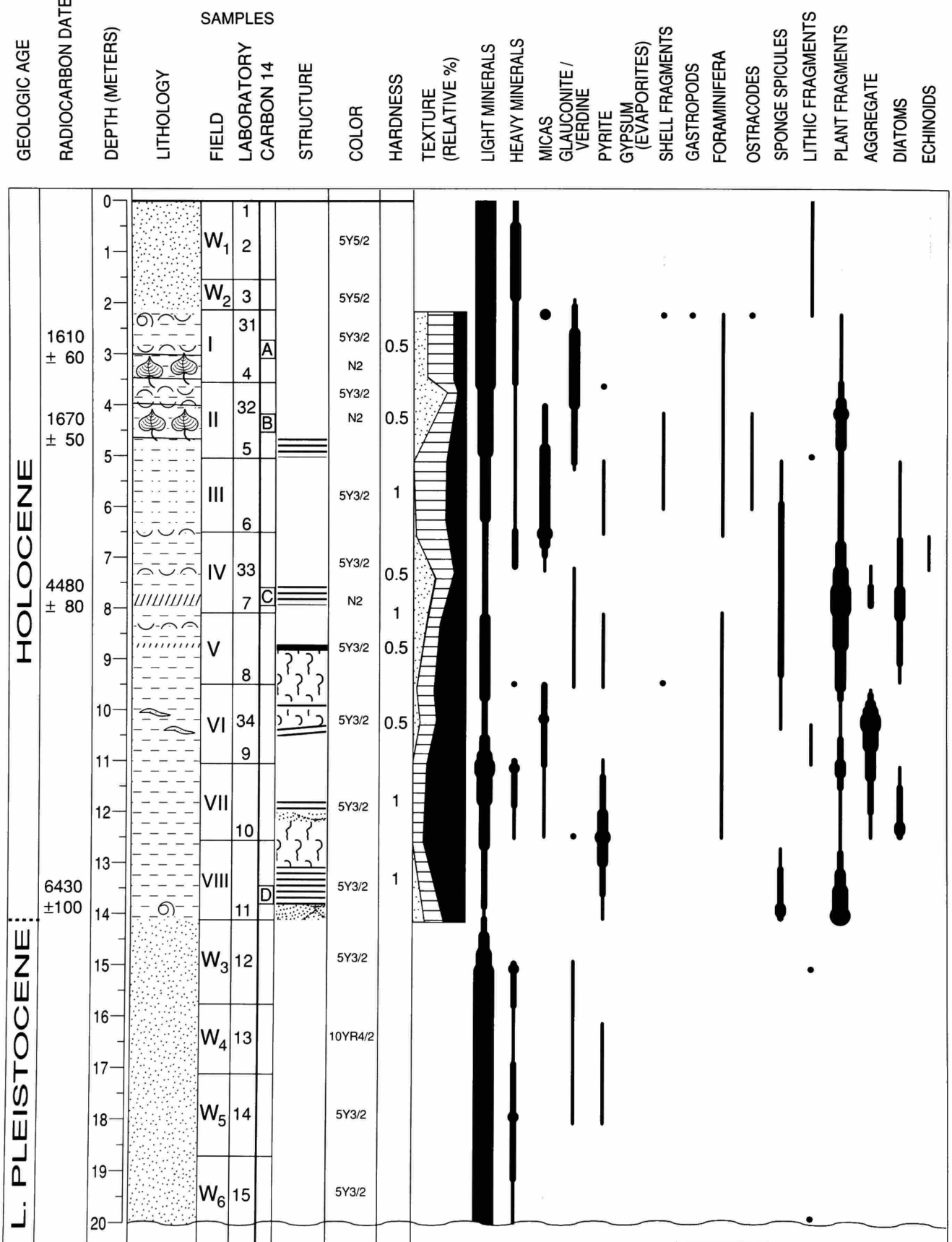
APPENDIX 1.—Continued.

CORE NUMBER **S47 I**



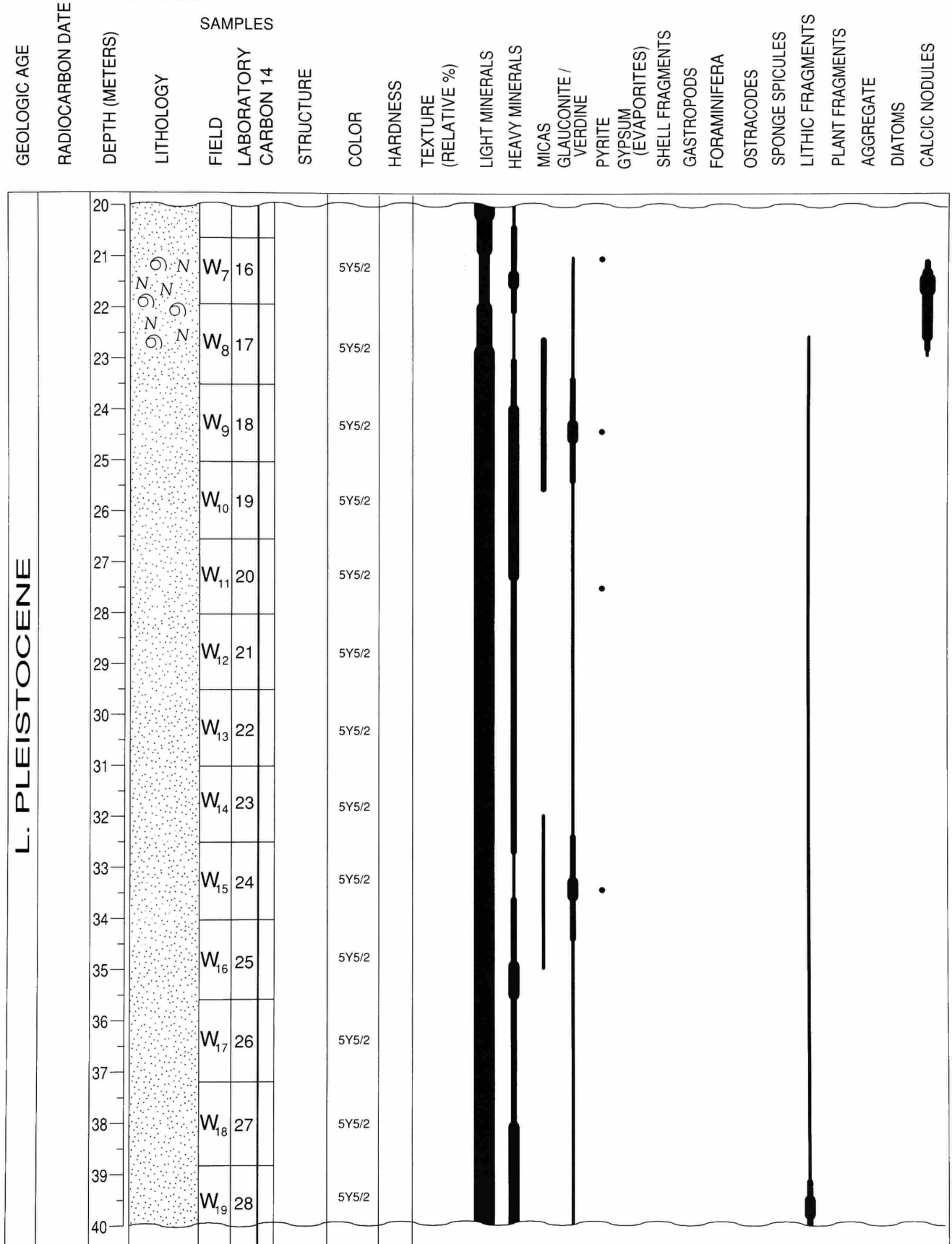
APPENDIX 1.—Continued.

CORE NUMBER **S48 I**



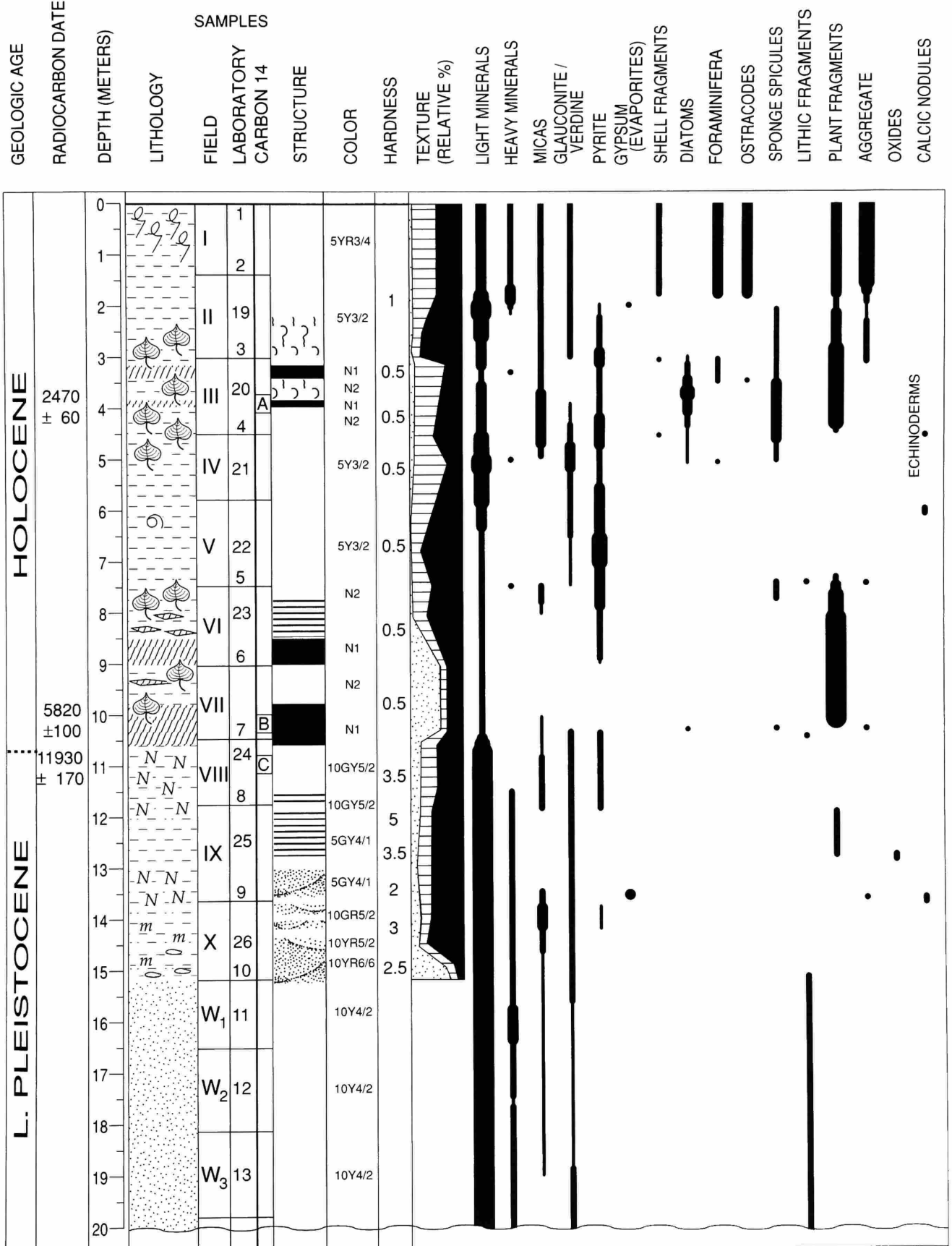
APPENDIX 1.—Continued.

CORE NUMBER S48 II



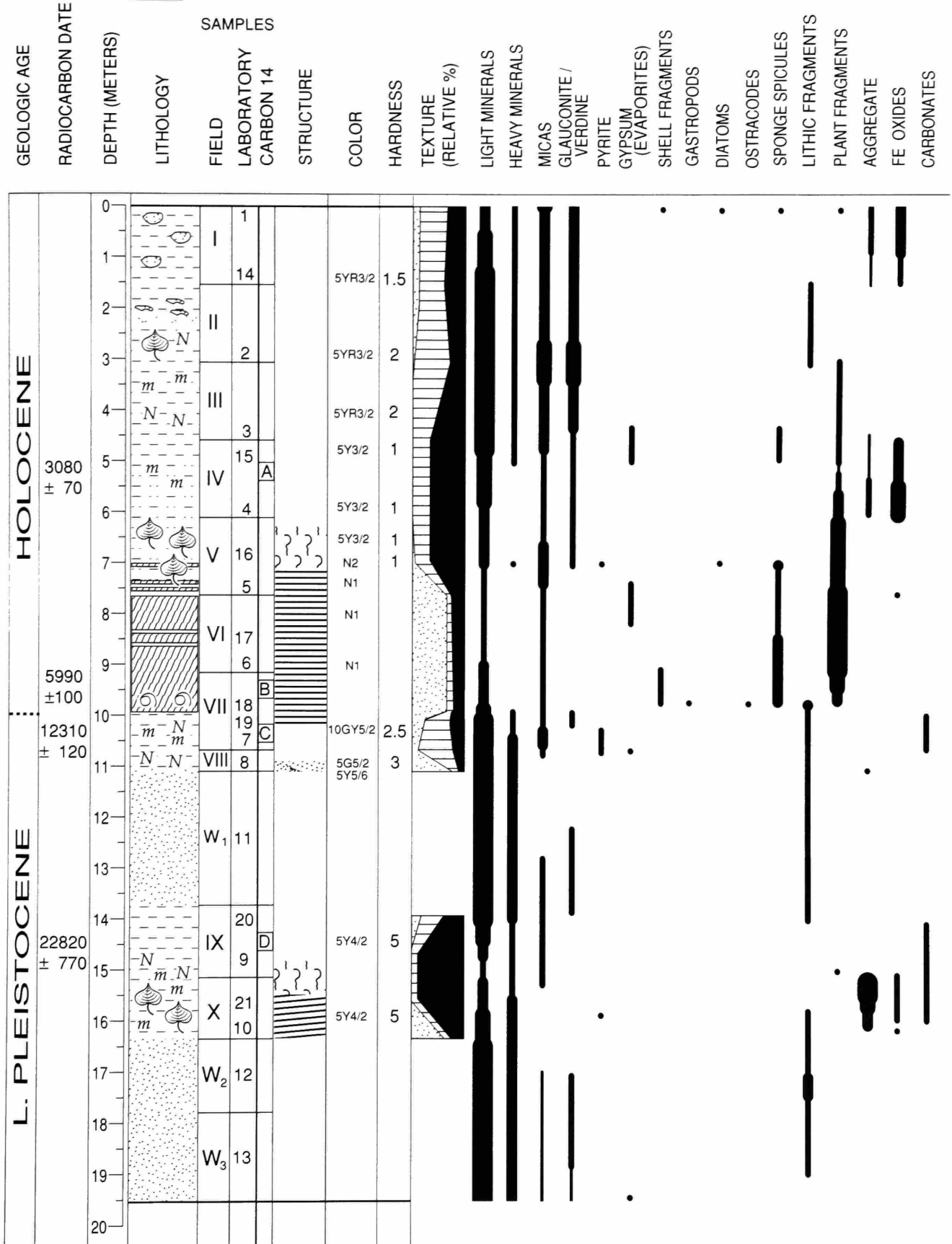
APPENDIX 1.—Continued.

CORE NUMBER **S53 I**



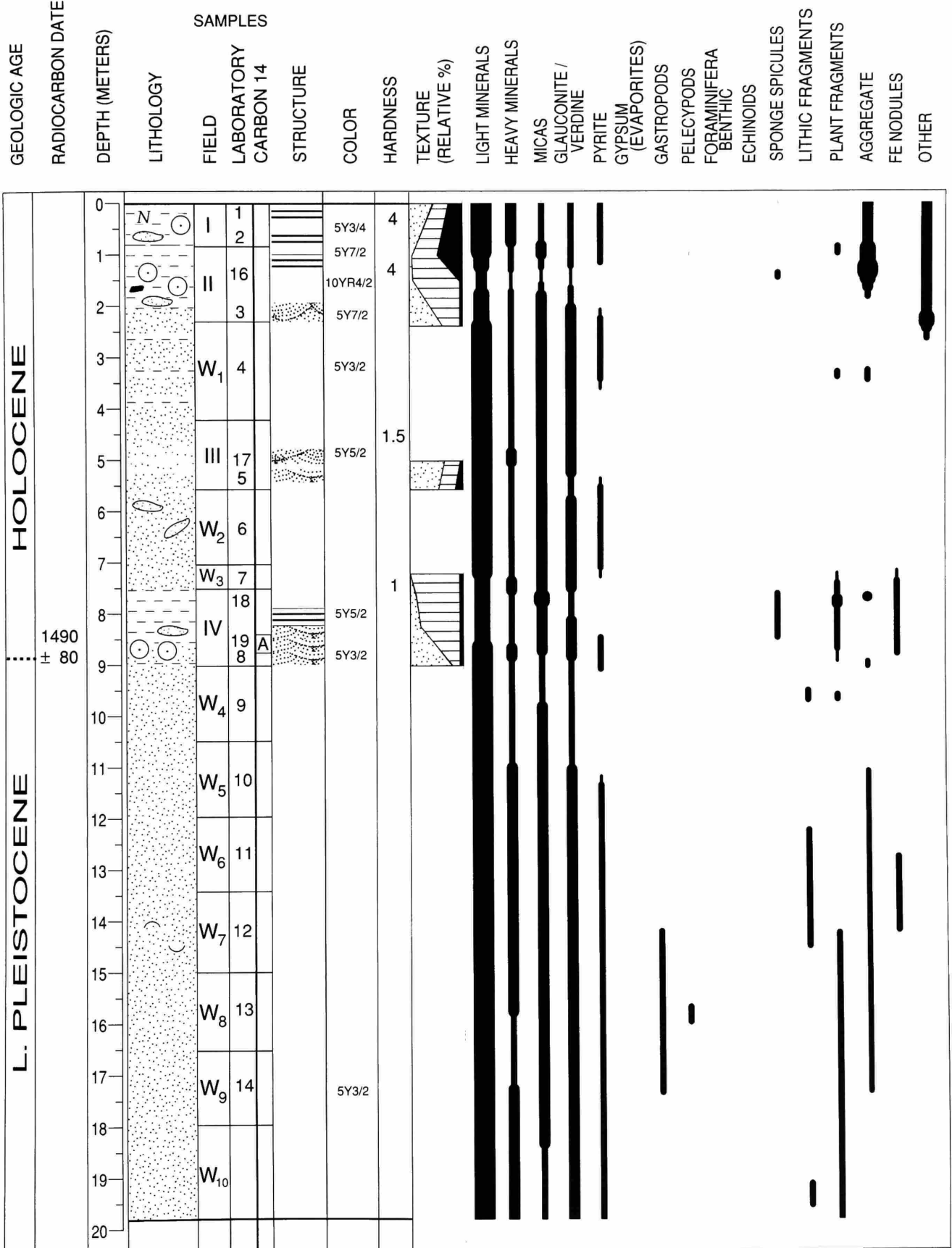
APPENDIX 1.—Continued.

CORE NUMBER S54



APPENDIX 1.—Continued.

CORE NUMBER S56



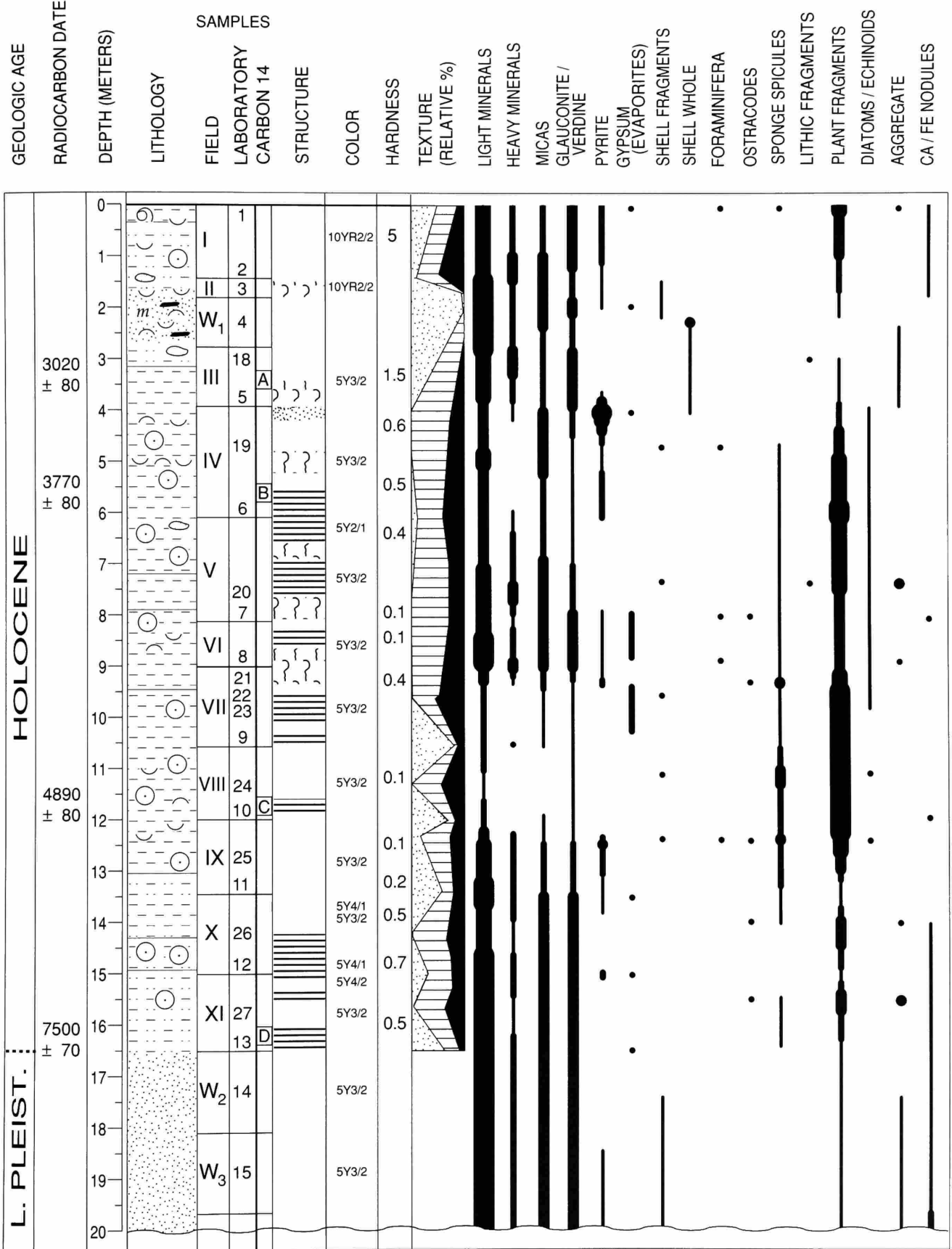
1490 ± 80

HOLOCENE

L. PLEISTOCENE

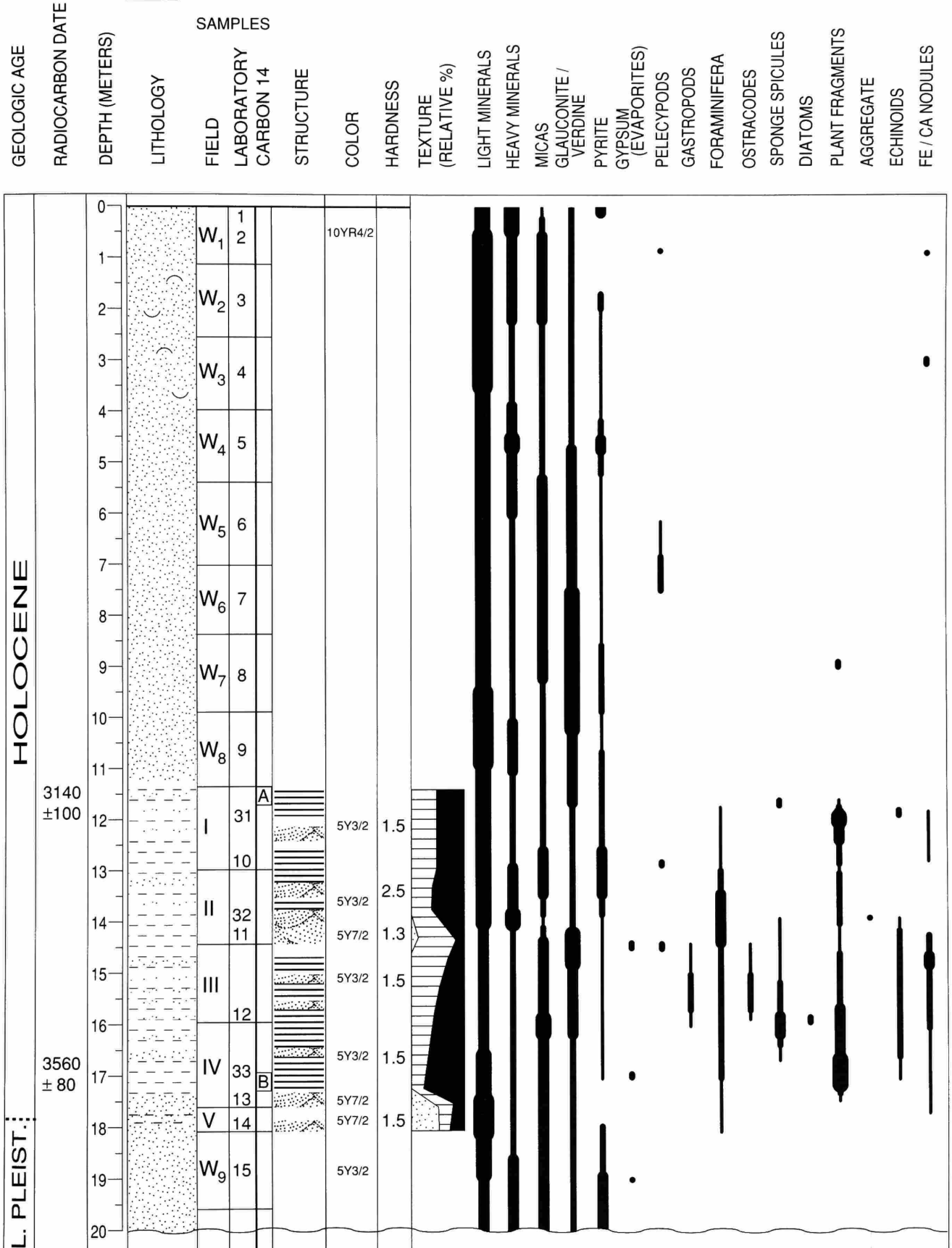
APPENDIX 1.—Continued.

CORE NUMBER **S58 I**



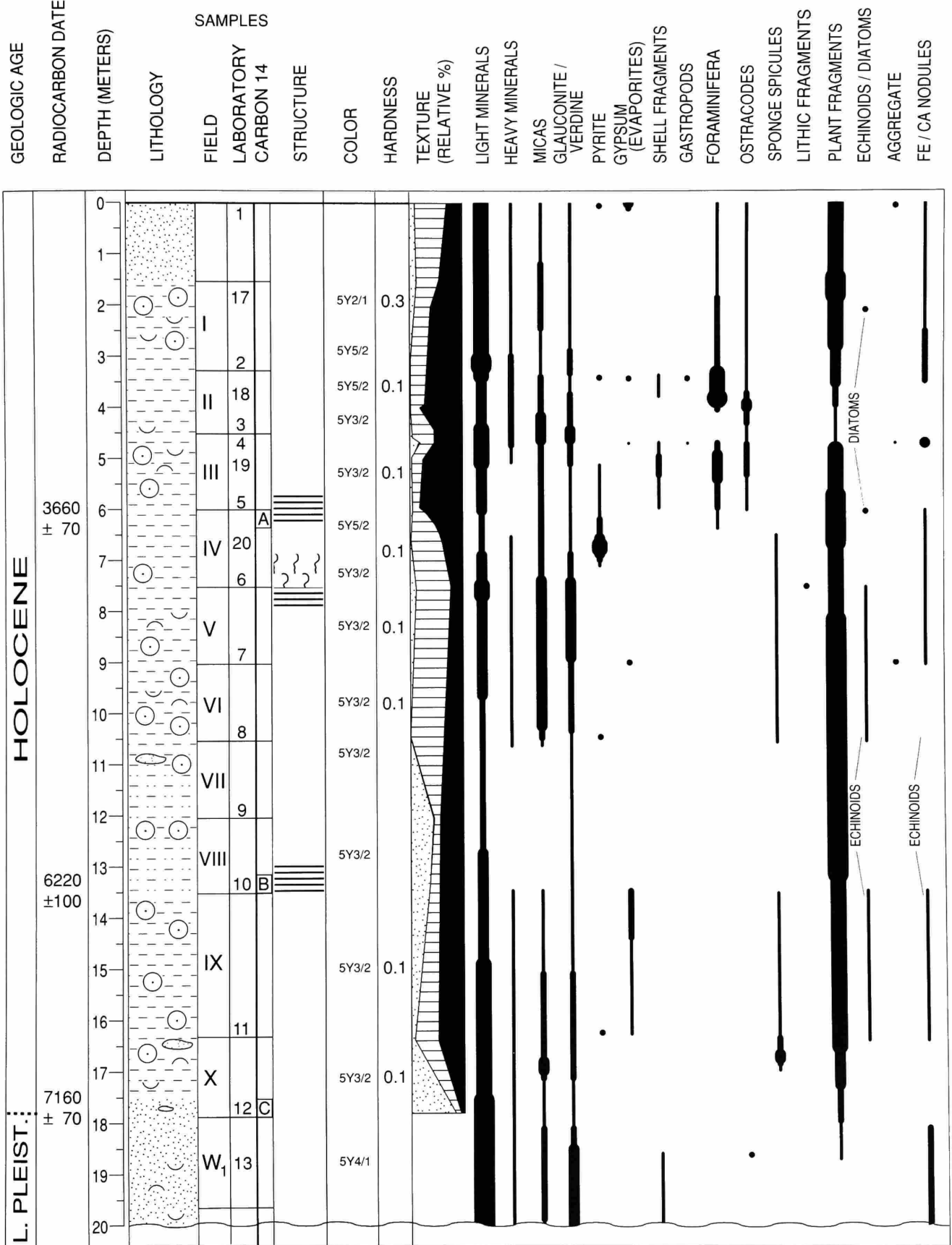
APPENDIX 1.—Continued.

CORE NUMBER S59 I



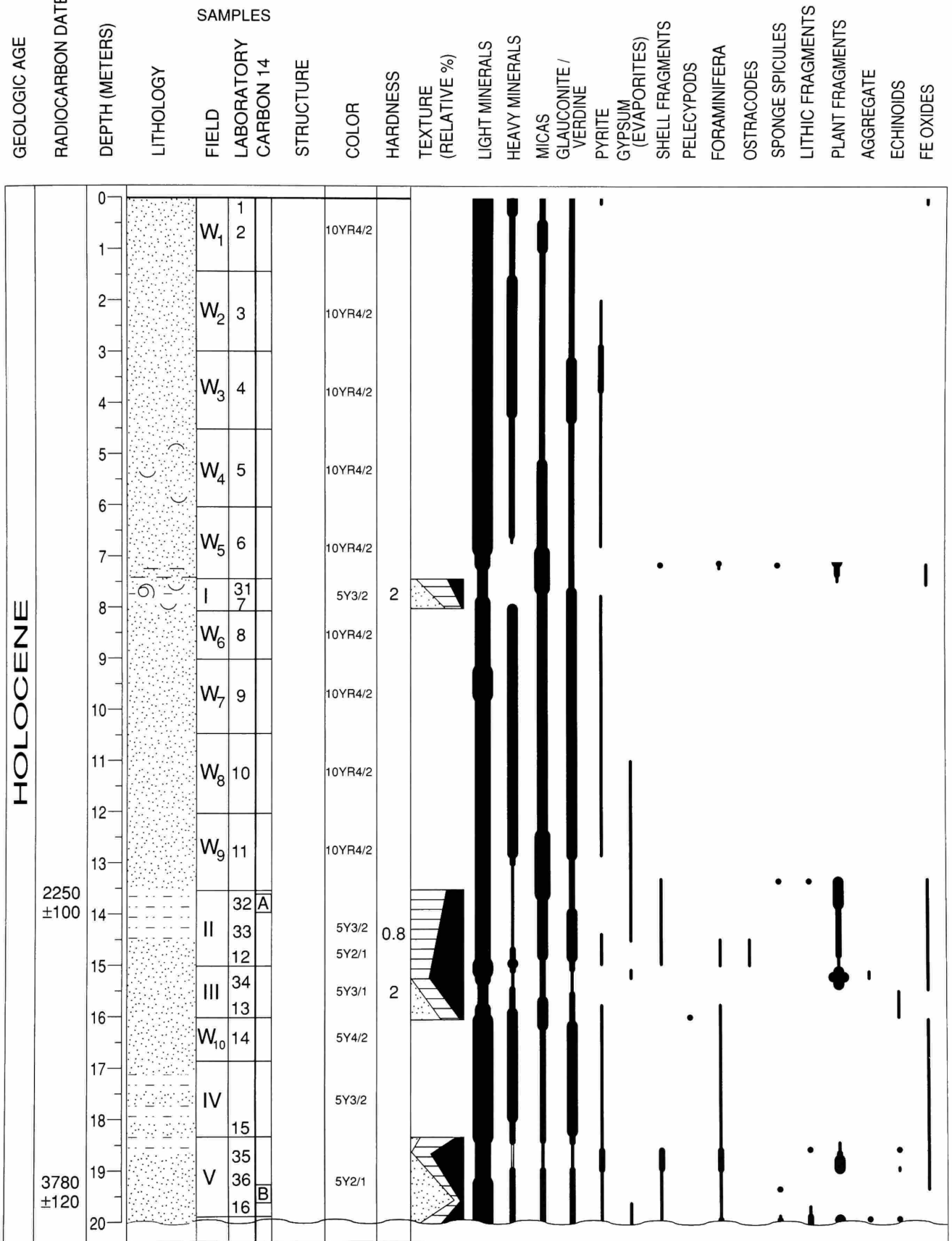
APPENDIX 1.—Continued.

CORE NUMBER **S62 I**



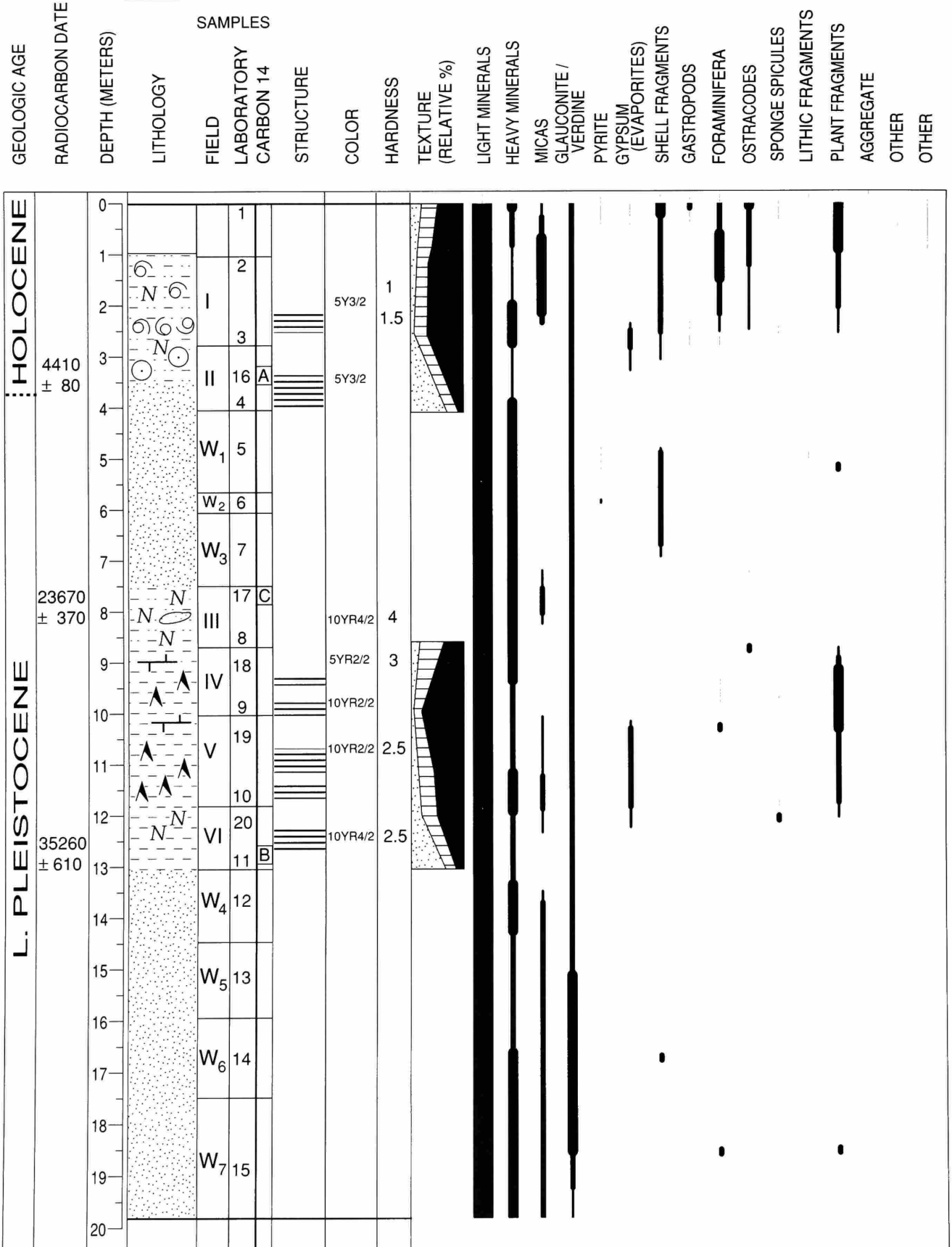
APPENDIX 1.—Continued.

CORE NUMBER S64 I



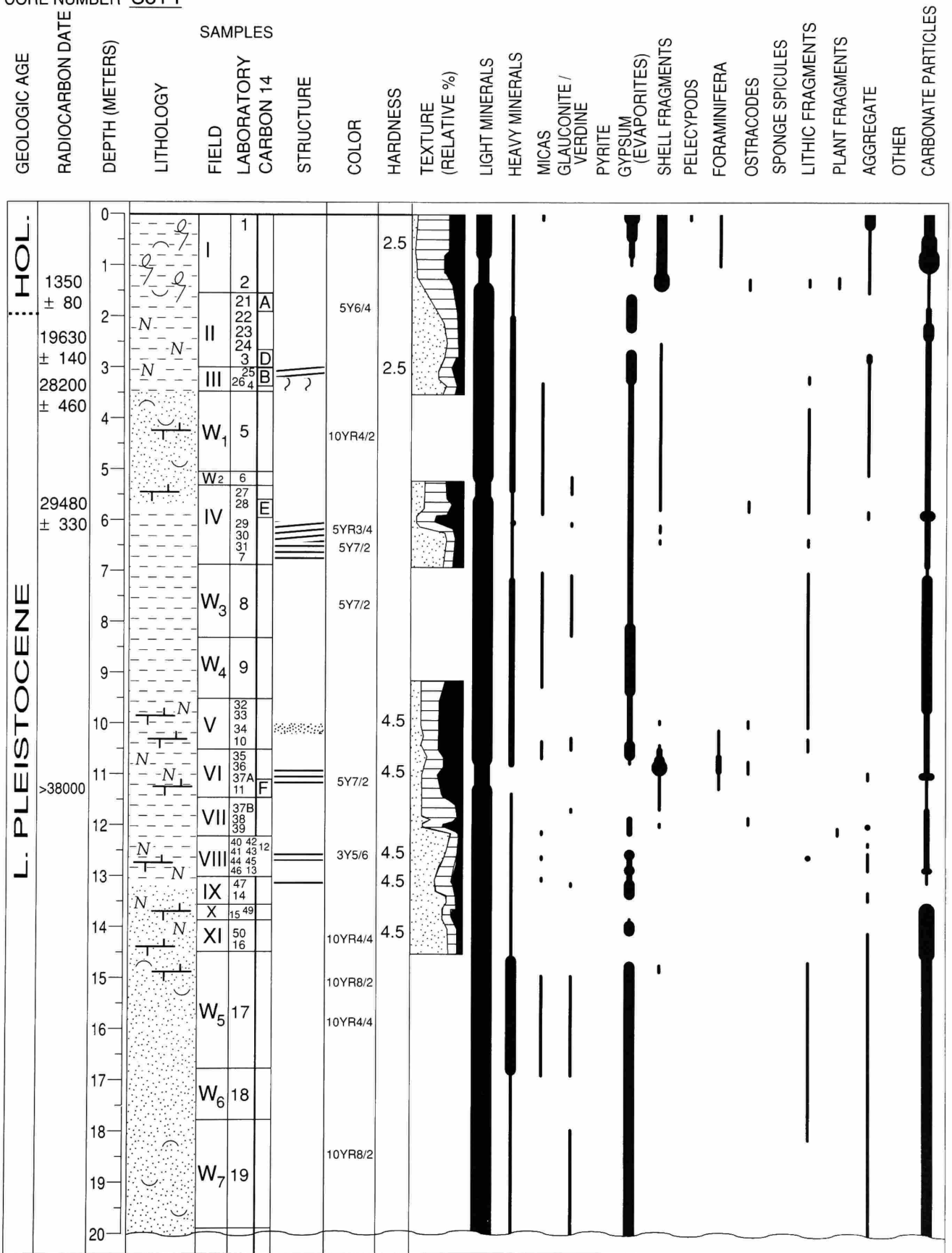
APPENDIX 1.—Continued.

CORE NUMBER S69



APPENDIX 1.—Continued.

CORE NUMBER **S81 I**



Appendix 2: Core Sample Data Listings

Legend

TEXTURAL ANALYSIS

SAND	Sand
SILT	Silt
CLAY	Clay
TOTAL = 100%	

POINT COUNT ANALYSIS

Abbreviation	Composition
LT	Light mineral
HVY	Heavy mineral
MICA	Mica
GLAU	Glauconite/Verdine
PYRT	Pyrite
EVAP	Evaporite
GYP	Gypsum
LITH	Lithic fragment
AGG	Aggregate
PLTM	Plant material
FORB	Foraminifera, Benthic
FORP	Foraminifera, Planktonic
GSHW	Gastropod shell, Whole
GSHF	Gastropod shell, Fragment
PSHW	Pelecypod shell, Whole
PSHF	Pelecypod shell, Fragment
SHLW	Shell, Whole
SHLF	Shell, Fragment
OSTR	Ostracode
SPNG	Sponge spicule
ECHIN	Echinoderm
BRYO	Bryozoa
WRMT	Worm tube
PTER	Pteropod
DIAT	Diatom
INSCT	Insect
RADIO	Radiolaria
OTH	Other
Fe OXIDE	Iron Oxide
WHITE	White calcareous carbonite
CARBT	Carbonate

TOTAL = 100%

CARBON-14 Radiocarbon date

APPENDIX 2.—Continued.

CORE SI	DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
	1.0	1	98.88	0.25	0.87	82.2	7.5	0.0	6.6	0.0	0.0	2.5	0.0	0.0	0.0	0.0
	2.2	2	98.30	0.53	1.17	82.6	7.8	0.0	5.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0
	3.2	3	87.03	7.60	5.37	75.9	11.1	0.0	9.6	0.0	0.0	1.9	0.0	0.0	0.0	0.0
	4.0	4	96.81	2.25	0.94	81.5	7.2	0.5	7.2	0.0	0.0	2.8	0.0	0.0	0.0	0.0
	5.2	5	95.90	2.33	1.77	76.9	9.8	0.1	9.8	0.0	0.0	3.4	0.0	0.0	0.0	0.0
	6.2	6	59.69	31.78	8.53	76.9	13.2	0.1	6.3	0.0	0.0	3.4	0.0	0.0	0.0	0.0
	7.0	7	95.24	2.73	2.03	75.6	12.4	0.0	7.9	0.0	0.0	3.3	0.0	0.0	0.0	0.0
	8.3	8	94.30	2.76	2.94	70.9	9.0	1.1	14.6	0.0	0.0	4.0	0.0	0.0	0.2	0.0
	9.8	9	5.45	50.29	44.26	70.3	4.0	4.3	12.6	0.0	0.0	2.2	0.0	6.0	0.0	0.0
	10.1	10	44.25	41.42	14.33	68.5	3.9	2.5	19.4	0.0	0.0	4.6	0.0	0.0	0.2	0.0
	11.4	11	0.64	46.85	52.51	10.9	0.2	3.9	2.1	33.9	0.0	0.0	33.9	14.4	0.0	0.0
	10.7	12	13.25	64.43	22.32	43.5	2.2	7.0	27.8	0.7	0.0	0.0	15.8	1.9	0.0	0.0
	12.7	13	1.15	55.91	42.94	27.7	0.2	27.0	24.4	0.0	0.0	0.0	12.3	5.3	0.2	0.0
	13.0	14	20.55	59.36	20.09	66.3	3.8	5.6	18.8	0.0	0.0	5.1	0.0	0.2	0.0	0.0
	13.7	15	0.16	27.53	72.31	66.1	0.5	3.4	12.0	0.2	0.0	0.0	1.0	13.6	2.1	0.2
	14.3	16	38.82	48.46	12.72	80.5	2.9	1.8	11.9	0.0	0.0	2.4	0.0	0.0	0.1	0.0
	15.3	17	39.25	25.08	35.67	87.4	2.7	0.0	7.1	0.0	0.0	2.7	0.0	0.0	0.0	0.0
	16.2	18	0.19	37.31	62.50	27.6	0.4	18.4	9.2	0.0	0.0	0.0	23.4	12.4	5.2	0.0
	17.0	19	30.51	30.83	38.66	76.9	3.1	0.1	14.6	0.0	0.0	3.1	0.0	1.1	0.2	0.0
	17.6	20	0.91	43.88	55.21	11.6	0.0	14.5	2.4	0.0	0.0	0.0	5.5	62.0	0.4	0.0
	18.4	21	4.41	60.17	35.42	29.4	0.2	18.6	7.8	0.0	0.0	0.0	0.2	42.5	0.5	0.0
	19.3	22	0.06	31.58	68.86	69.8	0.4	3.8	6.2	0.4	0.0	0.4	0.1	17.2	1.4	0.0
	21.0	23	37.09	32.23	30.68	72.2	4.7	4.2	8.6	0.5	0.0	1.1	0.0	2.2	2.5	0.0
	22.0	24	0.98	36.64	62.38	23.1	0.0	8.2	22.6	12.8	0.0	0.0	0.7	9.4	9.0	0.0
	23.4	25	0.83	39.01	60.16	17.0	0.0	12.1	10.2	18.3	0.0	0.0	0.8	18.9	4.8	0.0
	23.8	26	0.49	33.43	66.08	19.8	0.5	8.6	6.0	9.7	0.0	0.0	6.6	23.2	11.7	0.0
	24.2	27	75.28	9.11	15.61	90.0	5.5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
	25.2	28	74.81	21.59	3.60	20.5	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	28.0	29	81.53	7.35	11.12	72.1	5.6	0.5	0.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S3		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
2.3	1	1.73	23.91	74.35	43.70	0.84	4.20	1.96	0.0	0.0	0.0	0.0	0.0	3.64	45.38	0.28	0.0
3.3	2	4.44	56.72	38.85	59.89	2.51	1.67	1.11	0.0	0.0	1.67	0.0	0.0	1.95	15.32	5.02	0.0
4.3	3	73.66	13.82	12.52	78.62	10.53	0.33	6.25	0.0	0.0	0.0	0.0	3.95	0.0	0.33	0.0	0.0
4.9	4	56.86	26.32	16.64	76.61	12.90	1.34	2.15	0.0	0.0	0.0	0.0	2.15	0.27	4.57	0.0	0.0
8.5	5	0.30	59.84	39.87	53.94	0.58	14.58	25.66	0.0	0.0	0.0	0.0	0.29	0.29	3.50	0.29	0.0
9.8	6	2.87	58.57	38.61	39.75	0.75	24.00	15.00	0.0	0.0	0.0	0.0	0.0	2.75	15.50	0.25	0.0
11.1	7	4.88	66.71	28.41	51.25	2.22	8.59	22.99	0.0	0.0	0.0	0.0	0.83	1.11	13.02	0.10	0.0
12.7	8	0.13	47.56	52.31	9.32	0.0	12.54	0.0	0.0	0.0	0.0	0.0	0.0	10.29	65.27	0.32	0.0
14.1	9	0.08	32.71	67.21	31.31	0.0	10.05	3.04	0.0	0.0	1.64	0.0	0.0	0.47	39.02	8.41	0.0
15.7	10	39.42	42.07	18.51	85.80	0.91	0.0	10.88	0.0	0.0	0.0	0.0	0.30	0.30	0.91	0.30	0.0
17.2	11	0.31	35.44	64.25	56.82	0.85	8.24	16.48	0.0	0.0	0.28	0.0	0.0	7.67	4.55	2.56	0.0
19.0	12	0.20	32.15	67.64	8.07	0.0	21.43	0.0	0.0	0.0	0.0	0.0	0.0	26.09	40.06	4.22	0.0
20.0	13	0.15	27.93	71.92	8.76	0.0	4.38	0.0	0.0	0.0	0.0	0.0	0.0	1.55	77.32	2.06	0.0
21.6	14	0.80	34.32	64.89	41.84	0.51	9.95	5.36	0.0	0.0	1.02	0.0	0.0	8.16	23.98	5.36	0.0
23.5	15	0.09	25.36	74.55	36.29	0.51	1.78	0.0	0.0	0.25	0.25	0.0	0.0	32.23	7.11	16.75	0.0
25.0	16	0.48	20.98	78.54	33.50	0.0	0.51	0.0	0.0	1.52	1.52	0.0	0.0	0.0	3.55	18.02	0.0
26.8	18	70.67	15.68	13.65	97.11	2.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.1	17	42.87	12.15	44.98	42.22	1.94	1.11	5.56	0.0	0.0	0.0	0.0	1.11	3.33	0.0	0.17	0.0
27.1	19	86.15	8.44	5.41	84.17	8.04	1.76	5.03	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0
29.0	20	90.36	4.19	5.45	86.79	4.58	0.81	6.47	0.0	0.0	0.0	0.0	1.35	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S4		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
1.2	1	0.32	55.10	44.58	16.3	0.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	52.2	0.0	0.0
2.1	2	0.95	60.82	38.23	59	0.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0	66.3	16.5	0.0	0.0
2.7	3	0.71	32.23	67.05	86.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	9.5	0.0	0.0
3.1	4	0.84	60.46	38.70	53.7	0.7	25.2	11.4	0.0	0.0	0.0	0.0	0.0	1.3	4.5	0.0	0.0
3.8	5	0.67	21.64	77.69	45.2	1.0	0.1	1.3	0.0	0.0	0.0	0.0	0.0	50.9	1.2	0.0	0.0
4.2	6	2.33	48.80	48.87	65.8	1.9	9.6	5.2	0.0	0.6	0.0	0.0	0.6	5.9	10.7	0.0	0.0
4.9	7	73.11	11.83	15.06	80.6	10.6	0.0	5.1	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.5	8	0.38	6.72	92.90	19.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	6.7	72.2	0.0	0.0
5.8	9	34.86	38.03	27.11	47.9	3.0	8.0	28.4	0.3	0.0	0.0	0.0	0.0	0.6	8.9	0.0	0.0
6.7	10	34.17	33.52	32.31	79.9	2.2	0.9	15.4	0.0	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
7.1	11	57.26	21.70	21.04	79.1	4.9	2.7	12.9	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
7.8	12	0.45	69.70	29.85	12.7	0.0	18.5	0.0	5.6	0.0	0.0	0.0	0.0	3.2	54.7	1.4	0.0
8.0	13	0.75	65.74	33.51	8.3	0.6	28.5	0.0	0.6	0.0	0.0	0.0	0.0	2.5	57.3	0.6	0.0
8.9	14	0.51	61.00	38.49	12.1	0.0	31.7	3.0	1.2	0.0	0.0	0.0	0.0	3.2	46.1	0.1	0.0
9.2	15	1.14	60.90	37.95	15.0	0.0	30.7	0.9	1.1	0.0	0.0	0.0	0.0	1.3	46.0	0.9	0.0
10.1	16	0.61	41.20	58.19	9.0	0.0	25.4	0.5	0.8	0.0	0.0	0.0	0.0	14.8	41.6	0.8	0.0
10.8	17	3.53	33.88	62.59	6.9	0.2	3.0	0.0	1.3	0.0	0.0	0.0	0.0	10.3	24.5	11.7	0.0
12.2	18	1.87	36.35	61.78	7.0	0.1	16.2	1.9	2.2	0.0	0.0	0.0	0.0	4.7	39.0	4.4	0.0
13.7	19	0.67	33.19	66.14	14.5	0.0	17.1	0.0	0.2	0.0	0.0	0.0	0.0	3.4	41.7	0.9	0.0
14.0	20	1.94	41.34	56.72	17.8	0.0	31.8	3.4	1.1	0.0	0.0	0.0	0.0	0.9	38.9	0.4	0.0
14.3	21	78.97	6.12	14.91	67.3	7.4	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
14.7	22	80.41	9.06	10.53	65.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.4	0.0
14.9	23	87.01	8.33	4.66	75.8	6.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
15.2	24	90.97	4.77	4.26	80.0	6.0	0.8	1.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
16.0	25	96.10	1.06	2.84	86.4	6.6	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.5	26	69.99	16.01	14.00	73.6	19.4	1.6	4.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S5	DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
	1.3	1	0.16	62.15	37.69	23.53	0.0	69.52	1.34	0.0	0.0	0.0	0.0	5.35	0.0	0.0
	2.0	2	35.80	50.92	13.26	74.06	4.24	2.99	15.96	0.0	0.0	2.74	0.0	0.0	0.0	0.0
	2.3	5	4.72	21.07	74.19	4.89	0.0	0.0	0.0	0.0	0.0	0.0	91.21	3.58	0.0	0.0
	3.5	4	0.23	17.73	82.03	31.56	0.0	1.06	0.0	0.0	0.0	0.0	24.93	36.87	0.0	0.0
	5.0	5	44.18	33.34	22.46	3.99	0.0	0.0	0.0	0.0	0.0	0.0	3.99	83.48	0.0	0.0
	5.7	6	7.09	16.54	76.36	4.64	0.0	0.93	0.0	0.0	0.0	0.0	0.0	94.12	0.34	0.0
	6.3	7	0.13	58.55	41.31	8.22	0.0	3.18	0.0	23.08	0.0	0.0	17.51	49.36	0.0	0.0
	7.3	8	9.69	65.32	24.98	43.56	0.27	19.45	0.0	1.65	17.81	0.0	0.0	18.36	0.0	0.0
	8.0	9	0.98	52.74	46.27	13.74	0.0	15.93	2.20	0.0	0.0	0.0	4.40	55.6	2.47	0.0
	9.4	10	2.44	73.07	24.67	1.52	0.0	45.2	0.0	0.0	0.0	0.0	2.02	41.16	1.01	0.0
	12.0	11	1.05	58.78	40.15	12.63	0.0	19.37	3.16	0.42	1.52	0.0	2.11	55.58	0.63	0.0
	13.0	12	3.05	38.78	58.15	7.71	0.0	28.00	0.86	1.14	0.0	0.0	5.14	36.29	10.00	0.0
	14.2	13	0.90	34.52	64.50	6.83	0.0	24.84	0.0	0.0	0.62	0.0	0.31	45.03	8.70	0.0
	15.3	14	0.87	61.83	37.28	3.63	0.0	21.55	0.0	0.0	0.0	0.0	5.57	61.26	0.24	0.0
	16.4	15	0.34	41.64	58.00	4.44	0.0	11.6	0.0	0.0	0.0	0.0	38.77	38.27	3.70	0.0
	16.8	16	1.33	43.54	55.11	30.52	0.0	28.07	5.99	0.82	0.0	0.0	1.09	23.71	1.91	0.0
	18.5	17	0.24	52.07	47.67	2.46	0.0	16.94	0.0	0.0	0.55	0.0	24.32	51.91	2.73	0.0
	19.9	18	0.13	34.52	65.33	1.09	0.0	7.65	0.0	0.0	0.55	0.0	5.74	70.77	7.11	0.0
	21.2	19	0.02	43.67	56.29	7.46	0.0	0.34	0.0	0.68	0.0	0.0	67.12	6.10	18.30	0.0
	21.9	20	0.69	26.05	73.24	1.14	0.0	0.0	0.0	1.43	0.0	0.0	72.0	10.57	12.00	0.0
	23.5	21	0.04	25.47	74.48	11.16	0.0	0.0	0.0	0.45	1.79	0.0	50.00	1.79	23.66	0.0
	25.0	22	0.14	24.88	74.96	8.96	0.0	0.0	0.0	0.0	4.48	0.0	20.90	6.87	30.45	0.0
	26.5	23	0.05	24.21	75.73	17.24	0.0	1.72	0.0	1.23	1.72	0.0	15.27	9.36	35.98	0.0
	28.7	24	1.57	42.38	56.03	15.02	0.0	0.0	6.39	0.32	0.0	0.0	5.11	3.51	12.46	0.0
	29.3	25	60.96	25.58	13.44	76.63	7.54	2.26	0.0	0.0	9.30	0.5	0.0	0.0	0.0	0.0
	29.8	26	95.02	4.02	0.95	81.48	8.55	1.42	0.0	0.0	5.70	1.99	0.85	0.0	0.0	0.0
	32.2	27	84.24	9.58	6.16	82.79	9.84	0.27	0.0	0.0	7.10	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S7		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM	FORB	FORP
1.0	1	0.12	13.89	85.99	58.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	0.6	0.0	0.0
1.5	2	7.30	10.62	82.08	18.2	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.5	78.6	1.7	0.0	0.0
2.0	3	0.50	21.60	77.90	51.5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	43.9	3.5	0.0	0.0
2.7	4	1.17	23.66	75.17	64.9	0.0	0.9	0.0	0.0	0.0	2.0	0.0	0.0	12.6	19.6	0.0	0.0
3.0	5	1.06	23.73	75.21	58.2	1.3	0.0	0.0	0.0	0.0	3.6	0.0	0.0	25.0	10.8	0.0	0.0
3.4	6	36.45	34.20	29.35	84.7	1.4	1.6	0.0	0.0	0.0	0.8	0.0	0.0	5.7	5.2	0.0	0.0
3.5	7	83.91	8.25	7.84	86.6	3.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	4.5	5.6	0.0	0.0
3.7	8	29.32	47.70	22.98	64.7	1.8	1.3	0.5	0.1	0.0	0.1	0.0	0.0	26.3	5.0	0.0	0.0
4.0	31	96.68	1.59	1.73	95.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
4.5	32	91.77	3.47	4.26	90.7	6.2	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
5.0	9	17.24	48.54	34.22	74.0	2.8	11.2	8.9	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.3	0.0
5.5	10	45.44	33.68	20.88	81.3	7.8	3.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0
5.8	11	1.78	67.24	30.98	52.7	1.6	15.1	28.3	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.0	0.0
6.0	12	3.79	52.49	43.72	69.4	1.8	10.6	15.5	0.0	0.0	0.0	0.0	0.0	3.8	0.9	0.1	0.0
6.2	13	4.48	63.87	31.65	54.8	1.7	21.3	10.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	4.6	0.0
6.4	14	13.04	70.69	16.27	57.2	0.9	8.5	29.7	0.0	0.0	0.0	0.0	0.0	1.4	0.4	0.5	0.0
6.5	15	3.15	82.38	14.47	69.4	1.5	8.6	19.1	0.0	0.0	0.0	0.0	0.0	0.8	0.1	0.2	0.0
6.8	16	3.20	61.73	35.07	56.3	1.0	11.0	12.0	0.0	0.0	0.0	0.0	0.0	17.6	0.8	0.5	0.0
7.0	17	1.04	65.03	33.93	19.3	0.9	21.5	0.1	0.0	0.0	0.0	0.0	0.0	53.2	3.6	0.1	0.0
7.6	18	0.37	86.78	12.85	12.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	85.9	1.2	0.0	0.0
7.9	19	17.03	43.66	39.31	54.4	2.7	3.2	37.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0
8.5	20	41.07	30.27	28.66	49.0	1.3	11.2	5.5	0.0	0.0	0.0	0.0	0.0	20.9	1.3	5.1	0.0
9.1	21	14.83	53.59	31.58	37.9	2.6	16.1	0.1	0.0	0.0	0.0	0.0	0.0	21.7	0.9	4.9	0.0
10.0	22	16.16	45.89	37.95	54.4	0.9	14.8	22.7	0.0	0.0	0.0	0.0	0.0	2.9	1.2	0.5	0.0
10.3	23	89.80	6.57	3.63	95.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0
11.0	33	97.10	1.49	1.41	95.1	3.5	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0
13.0	34	87.73	7.36	4.91	90.5	7.0	0.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
14.3	35	96.80	1.41	1.79	97.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
15.5	24	0.44	2.74	96.82	95.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0
15.7	25	0.14	64.61	35.25	59.3	0.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	35.9	1.1	0.4	0.0
16.0	26	31.72	2.92	65.36	41.0	1.6	0.0	0.0	0.0	0.0	0.0	23.8	0.0	33.6	0.1	0.0	0.0
16.8	27	7.00	37.70	55.30	73.3	2.2	2.8	0.0	0.0	0.0	0.0	4.9	0.2	16.4	0.2	0.0	0.0
18.0	28	0.66	46.43	52.91	62.3	0.5	2.1	0.0	0.0	0.0	0.0	0.0	0.3	34.3	0.5	0.0	0.0
18.5	29	7.13	41.87	51.00	9.3	0.8	1.8	0.0	0.0	0.0	9.3	1.3	0.0	77.5	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S8	DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM	FORB	FORP
	0.5	31	23.64	47.23	29.13	72.2	1.2	13.6	7.9	0.0	0.0	0.0	3.0	1.3	0.9	0.0
	1.0	1	31.62	47.17	21.21	71.0	2.6	6.3	16.1	0.0	0.0	0.0	1.0	0.2	0.1	0.0
	1.5	2	8.80	30.54	30.66	77.4	1.8	8.6	11.3	0.0	0.0	0.0	0.9	0.2	0.1	0.0
	2.5	3	0.10	34.81	65.09	69.5	0.5	1.8	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
	3.5	4	1.35	54.55	44.10	23.9	0.0	22.6	0.0	7.6	0.0	0.0	0.0	44.9	0.0	0.0
	4.0	5	9.10	63.99	26.91	78.0	2.3	7.9	7.3	0.3	0.0	0.0	0.0	2.3	0.1	0.0
	5.5	6	0.42	49.38	50.20	64.4	0.8	6.2	2.0	2.0	0.0	0.0	2.0	9.1	8.8	0.0
	6.7	7	0.75	53.97	45.28	8.8	0.6	14.1	0.0	21.7	0.0	0.0	0.0	27.3	7.4	0.0
	10.0	8	9.96	59.45	30.59	54.1	1.4	9.9	34.2	0.0	0.0	0.0	0.0	0.0	0.4	0.0
	11.5	9	0.40	43.40	56.20	71.0	0.8	11.9	9.1	0.3	0.0	0.0	0.0	0.8	4.2	0.0
	13.0	10	0.18	29.67	70.15	45.6	1.1	2.5	0.5	0.3	0.0	0.0	10.1	27.6	8.5	0.0
	14.0	11	0.17	30.77	69.06	54.4	0.0	0.0	3.2	0.8	0.0	0.0	4.8	3.2	16.8	0.0
	15.5	12	0.41	30.71	68.88	41.1	0.4	0.0	0.0	0.0	0.0	0.0	10.8	9.3	27.6	0.0
	17.0	13	0.62	35.22	64.16	35.3	0.3	6.0	4.9	1.4	0.0	0.0	0.8	19.3	26.0	0.0
	18.5	14	1.34	42.10	56.56	29.6	0.8	14.7	4.0	4.6	0.0	0.0	0.0	21.3	21.6	0.0
	20.5	15	0.19	19.90	79.91	50.1	0.5	1.7	3.4	1.2	0.0	0.0	0.0	4.8	35.5	0.0
	22.0	16	0.34	28.80	70.86	34.8	0.3	3.8	0.0	2.8	0.0	0.0	0.0	35.8	19.7	0.0
	23.5	17	0.61	50.36	49.03	45.4	0.3	11.7	10.9	0.5	0.0	0.0	0.0	4.4	24.7	0.0
	25.5	18	0.55	36.03	63.42	57.6	1.0	3.1	13.3	0.5	0.0	0.0	0.0	5.3	15.0	0.0
	27.0	19	0.45	21.00	78.55	54.5	0.3	3.1	4.2	1.6	0.0	0.0	0.0	3.8	29.7	0.0
	28.5	21	0.77	30.43	68.80	52.0	0.9	0.9	0.9	5.8	0.0	0.0	1.4	2.6	27.3	0.0
	30.0	20	0.75	28.94	70.31	49.4	0.9	2.1	4.7	2.1	0.0	0.0	0.7	3.2	26.2	0.0
	31.0	22	1.33	33.52	65.15	34.8	1.1	9.9	7.3	2.9	0.0	0.0	0.0	11.7	23.2	0.0
	32.5	23	0.80	38.75	60.45	29.7	0.8	7.4	6.9	0.4	0.0	0.0	1.4	6.3	34.3	0.0
	33.5	24	0.28	15.38	84.34	41.5	1.5	2.6	0.0	0.4	0.0	0.0	16.5	0.5	28.1	0.0
	34.5	25	0.44	27.11	72.45	55.7	2.0	0.4	0.0	1.5	0.0	0.0	5.7	2.4	21.9	0.0
	36.0	26	0.91	30.83	68.26	31.2	0.5	1.7	1.2	3.9	0.0	0.0	15.6	8.7	15.8	0.0
	37.5	27	0.61	20.10	79.29	58.5	0.3	2.5	1.1	1.1	0.0	0.0	2.2	0.1	30.4	0.0
	38.0	28	2.38	15.96	81.66	30.4	0.0	0.9	0.0	10.9	0.0	0.0	34.2	0.6	14.7	0.0
	39.0	29	0.48	14.06	85.46	41.0	0.6	0.0	0.0	5.2	0.0	0.0	16.6	0.1	12.8	0.0
	39.5	30	21.95	63.94	14.11	18.5	1.1	0.8	0.0	0.0	0.0	0.0	41.5	3.0	11.8	0.0
	40.0	32	69.83	21.64	8.53	30.6	0.0	0.7	0.0	0.0	0.0	0.0	0.0	67.1	0.0	0.0
	41.0	33	93.70	2.42	3.88	93.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0

APPENDIX 2.—Continued.

CORE S10		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
1.0	1	99.3	0.1	0.6	98.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0	2	98.9	0.3	0.8	96.9	2.5	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
4.0	3	99.2	0.1	0.7	97.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.0	4	99.4	0.1	0.5	96.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.8	5	31.4	37.3	31.3	87.7	2.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0
7.5	6	7.3	35.3	57.4	80.5	1.2	4.7	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.0	0.0	0.0
7.8	7	20.2	40.4	39.4	78.4	1.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	17.4	0.0	0.0	0.0
8.4	8	53.3	19.8	26.9	87.6	3.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0
9.0	9	97.7	0.7	1.6	96.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	10	96.6	1.1	2.3	82.3	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	0.0
10.8	11	89.3	4.8	5.9	95.6	3.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.0	0.0	0.0
12.0	12	95.4	1.4	3.2	96.3	2.0	0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0
14.0	13	97.3	0.5	2.2	95.2	4.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
16.5	14	98.9	0.1	1.0	97.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.0	15	97.6	0.5	1.9	92.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.0	0.0	0.0	0.0
21.0	16	98.9	0.3	0.8	96.0	3.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
22.0	17	53.3	22.9	23.8	90.0	3.2	1.7	0.0	0.0	0.0	0.0	0.0	4.3	0.8	0.1	0.0	0.0

APPENDIX 2.—Continued.

CORE S12		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
0.5	1	99.23	0.15	0.62	93.2	5.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0
2.0	2	95.64	1.73	2.63	89.7	2.2	2.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	0.0
4.0	3	71.07	20.11	8.82	90.1	1.4	3.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0
5.0	4	26.95	53.71	19.34	81.8	2.2	7.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0
5.7	5	41.26	40.12	18.62	86.3	1.7	2.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.3	0.0
7.0	6	7.66	62.15	30.19	75.7	1.0	10.7	8.7	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.2	0.0
8.0	7	1.89	42.09	56.02	36.6	0.4	21.3	4.7	0.4	0.0	0.0	0.0	0.0	0.0	29.8	5.1	0.0
8.7	8	0.38	52.35	47.27	15.4	0.0	35.9	5.8	9.3	0.0	0.0	0.0	0.0	0.0	20.3	11.0	0.0
9.4	9	1.50	64.97	33.53	37.1	0.6	40.3	10.4	1.4	0.0	0.0	0.0	0.0	0.0	4.9	2.6	0.0
11.0	10	0.18	35.38	64.44	9.3	0.0	2.7	0.0	1.6	0.0	0.0	0.0	0.0	0.0	57.1	28.1	0.0
12.0	11	0.05	50.29	49.66	18.8	0.0	1.8	0.0	3.6	0.0	0.0	0.0	0.0	0.0	6.5	68.8	0.0
12.8	12	0.24	29.23	70.53	30.5	0.0	0.7	0.0	3.7	0.0	0.0	0.0	0.0	0.0	5.6	46.5	0.0
13.0	13	1.57	41.27	57.16	77.3	0.6	1.4	0.0	1.2	0.0	0.0	0.0	0.0	0.0	4.9	9.8	0.0
13.7	14	99.14	0.07	0.79	98.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.2	15	90.56	1.74	7.70	96.8	2.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
16.0	16	95.64	2.00	2.36	99.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.5	17	87.30	6.82	5.88	91.1	5.2	2.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.6	0.1	0.0
19.5	18	86.20	8.19	7.61	96.0	0.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.0
21.0	19	87.39	6.55	6.06	93.3	3.1	0.8	0.8	0.0	0.8	0.0	0.1	0.0	0.0	0.6	0.3	0.0
23.0	20	92.80	3.32	3.88	92.7	5.9	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.3	0.0
24.0	21	93.62	2.75	3.63	92.0	4.3	2.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.1	0.7	0.0

APPENDIX 2.—Continued.

CORE S13		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
1.0	25	2.0	32.1	65.9	14.4	0.0	0.1	1.5	0.0	0.0	0.0	77.4	0.0	5.2	1.1	0.0	0.0
1.5	1	10.2	32.6	57.2	20.6	0.0	1.1	0.0	0.0	0.0	0.0	29.0	0.0	0.0	1.9	9.8	0.0
2.0	2	0.3	10.9	88.8	61.6	0.0	3.3	0.0	1.1	0.0	1.1	3.6	0.0	1.4	24.2	0.0	0.0
3.0	3	3.0	26.3	70.7	10.5	0.0	1.1	0.0	2.6	0.0	0.6	0.0	0.0	0.0	82.4	1.4	0.0
4.0	26	2.8	39.1	58.1	44.3	0.3	19.1	3.2	0.6	0.0	0.6	0.0	0.0	0.0	24.1	3.5	0.0
5.5	27	2.6	61.4	36.0	49.0	0.2	19.8	6.0	0.2	0.0	0.2	0.0	0.0	0.0	5.7	15.9	0.0
7.0	28	3.5	58.4	38.1	50.0	0.7	17.2	8.3	0.1	0.0	0.1	0.0	0.0	0.0	11.7	8.0	0.0
7.5	29	1.8	45.8	52.4	48.2	0.0	10.4	1.6	0.3	0.0	0.3	0.0	0.0	3.2	17.2	13.7	0.0
8.0	30	2.5	39.9	57.6	72.8	0.6	5.3	12.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.3	0.0
9.5	31	2.6	60.5	36.9	56.7	0.6	19.0	3.4	0.0	0.0	0.0	0.0	0.0	0.6	7.2	9.5	0.0
10.0	32	2.0	50.4	47.6	44.9	0.0	25.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	19.1	7.7	0.0
10.5	33	0.5	34.7	64.8	58.7	0.4	13.2	5.2	1.2	0.0	1.2	0.0	0.0	1.0	9.2	9.3	0.0
11.0	34	0.7	58.1	41.2	52.8	0.0	20.3	2.4	0.2	0.0	0.2	0.0	0.0	0.0	5.8	15.0	0.0
11.5	35	1.2	47.8	51.0	55.3	0.0	14.8	7.9	1.6	0.0	1.6	0.0	0.0	0.0	6.1	10.7	0.0
12.5	36	1.3	50.2	48.5	57.5	0.0	22.1	3.7	0.0	0.0	0.0	0.0	0.0	1.2	4.8	8.5	0.0
13.0	37	0.7	74.8	24.5	19.7	0.0	42.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.1	2.7	0.0
14.5	4	0.1	56.2	43.7	20.6	0.0	25.2	0.0	0.5	0.0	0.5	0.0	0.0	0.0	33.8	18.2	0.0
14.7	5	14.1	60.1	25.8	21.6	0.0	24.9	8.4	0.0	0.0	0.0	0.0	0.0	0.0	24.1	19.4	0.0
15.5	6	0.2	30.4	69.4	17.2	0.0	0.1	0.0	0.8	0.0	0.8	0.0	0.0	4.7	1.2	75.1	0.0
16.0	7	0.3	42.9	56.8	1.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	73.3	6.7	15.9	0.0
16.5	8	0.6	32.6	66.8	71.9	0.0	6.6	6.3	0.2	0.0	0.2	0.0	0.0	0.0	7.4	6.8	0.0
17.0	9	0.6	76.3	23.1	50.5	0.2	29.1	8.2	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.3	0.0
18.0	10	0.1	30.2	69.7	21.5	0.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	43.5	0.3
18.5	11	21.3	31.6	47.1	8.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	70.0	15.2	3.6	0.0
19.0	12	0.2	43.2	56.6	23.9	0.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.1	35.2	0.0
20.0	13	0.2	21.5	78.3	67.0	0.0	0.3	1.6	1.3	0.0	1.3	0.0	0.0	0.0	5.1	20.3	0.0
21.0	14	13.4	27.3	59.3	8.7	0.0	0.7	0.0	5.5	0.0	5.5	0.0	0.0	0.0	1.7	46.3	0.0
21.3	15	0.3	26.4	73.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.5	1.0	21.0	0.0
23.0	16	0.2	37.7	62.1	58.4	0.0	1.9	1.0	2.3	0.0	2.3	0.0	0.0	0.0	10.4	16.5	0.9
24.0	17	0.1	43.2	56.7	27.5	0.2	4.9	0.0	0.2	0.0	0.2	0.0	0.0	8.5	8.2	42.8	0.0
25.0	18	0.2	26.5	73.3	32.8	0.0	0.5	1.0	1.5	0.0	1.5	0.0	0.0	4.5	29.7	10.1	0.0
26.0	19	0.2	35.2	64.6	19.6	0.0	1.4	0.0	0.3	0.0	0.3	0.0	0.0	37.3	6.3	30.2	0.0
26.3	20	0.3	29.4	70.3	61.9	0.0	2.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	3.0	25.7	0.0
27.0	21	0.2	26.3	73.5	56.2	0.0	2.0	1.5	1.5	0.0	1.5	0.0	0.0	0.0	2.5	31.8	0.5
27.5	22	0.2	30.2	69.6	21.0	0.2	0.8	1.0	0.5	0.0	0.5	0.0	0.0	0.8	2.0	56.9	0.0
30.5	24	0.2	27.9	71.9	52.0	0.4	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.4	12.7	24.4	0.0

APPENDIX 2.—Continued.

CORE S13

DEPTH	NO	SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
1.0	25	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.5	1	0.0	10.2	27.1	0.0	0.0	0.0	0.0	0.0	0.0	
2.0	2	0.0	1.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	
3.0	3	0.0	0.6	1.1	0.3	0.0	0.0	0.0	0.0	0.0	
4.0	26	0.0	2.3	2.3	0.3	0.0	0.0	0.0	0.0	0.0	
5.5	27	0.0	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3,760 +/- 70
7.0	28	0.0	2.4	1.2	0.1	0.0	0.0	0.0	0.2	0.0	
7.5	29	0.0	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.0	30	0.0	1.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	3,640 +/- 120
9.5	31	0.0	0.6	0.3	0.6	1.4	0.0	0.0	0.0	0.0	
10.0	32	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.1	0.0	
10.5	33	0.0	0.4	0.4	0.2	0.4	0.0	0.0	0.0	0.0	
11.0	34	0.0	0.0	0.2	1.0	2.1	0.0	0.0	0.0	0.0	
11.5	35	0.0	0.3	0.1	0.1	3.1	0.0	0.0	0.0	0.0	4,050 +/- 110
12.5	36	0.0	1.4	0.1	0.9	0.0	0.0	0.0	0.0	0.0	
13.0	37	0.0	0.0	0.1	2.0	0.0	0.0	0.0	0.0	0.0	
14.5	4	0.0	0.3	0.1	0.8	0.0	0.0	0.0	0.3	0.0	
14.7	5	0.0	0.3	0.1	1.1	0.0	0.0	0.0	0.1	0.0	
15.5	6	0.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	
16.0	7	0.0	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	3,000 +/- 110
16.5	8	0.0	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	
17.0	9	0.0	0.7	0.1	2.4	0.0	0.0	0.0	0.0	0.0	
18.0	10	0.0	4.3	0.7	0.3	0.0	0.0	0.0	0.0	0.0	
18.5	11	0.0	0.0	2.2	0.3	0.0	0.0	0.0	0.1	0.0	
19.0	12	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	
20.0	13	0.0	4.1	0.3	0.0	0.1	0.0	0.0	0.0	0.0	
21.0	14	0.0	12.9	9.0	0.3	13.9	0.0	0.0	0.0	0.0	5,130 +/- 90
21.3	15	0.0	0.3	0.0	0.0	0.9	0.0	0.0	0.0	0.0	
23.0	16	0.0	4.2	0.0	0.1	4.5	0.0	0.0	0.0	0.0	
24.0	17	0.0	7.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	
25.0	18	0.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26.0	19	0.0	4.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	
26.3	20	0.0	1.5	0.1	0.0	1.9	0.0	0.0	0.1	0.0	
27.0	21	0.0	1.5	0.1	0.1	2.5	0.0	0.0	0.0	0.0	
27.5	22	0.0	11.1	0.2	0.0	4.8	0.0	0.0	0.0	0.0	
30.5	24	0.0	2.5	0.0	0.0	0.4	0.0	0.0	0.4	0.0	

APPENDIX 2.—Continued.

CORE S14		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
0.3	1	93.43	1.62	4.95	91.1	6.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0
1.8	2	91.40	2.64	5.96	95.8	2.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
3.2	3	91.88	2.22	5.90	95.2	3.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
5.0	4	80.30	5.68	14.02	95.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.5	5	91.88	3.32	4.98	94.7	5.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
6.2	6	19.39	46.14	34.47	97.0	0.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
6.5	7	78.39	9.83	11.78	93.6	4.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
7.0	8	1.64	51.52	46.84	86.9	1.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0	4.7	2.5	0.0	0.0
7.5	9	32.47	42.19	25.34	98.0	1.5	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
8.0	10	6.63	57.50	35.87	96.5	0.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
8.5	11	1.58	32.62	65.80	67.2	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	12.1	20.3	0.0	0.0
9.5	12	32.32	25.94	41.74	40.9	0.7	0.0	0.0	0.0	0.0	0.0	47.9	0.0	6.4	4.1	0.0	0.0
10.5	13	10.51	17.35	72.14	75.9	0.9	0.3	0.0	0.0	0.0	0.0	3.8	0.0	13.8	5.3	0.0	0.0
11.3	14	19.79	13.52	66.69	86.4	0.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	12.1	0.0	0.0	0.0
12.8	15	6.88	26.07	67.05	93.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.9	0.0	0.0
13.3	16	2.11	18.84	79.05	98.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
14.0	17	96.00	1.10	2.90	97.7	1.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.6	0.0	0.0	0.0
15.2	18	80.30	6.89	12.81	98.6	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
16.0	19	95.56	1.06	3.38	95.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
17.0	20	94.98	1.12	3.90	96.1	2.9	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6	0.0	0.0	0.0
20.0	21	93.60	1.51	4.89	97.4	2.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0
22.0	22	95.62	1.34	3.04	94.5	4.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.0
23.0	23	94.98	1.57	3.84	96.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S14

DEPTH	NO	SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
0.3	1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.8	2	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
3.2	3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
5.0	4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
5.5	5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
6.2	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
6.5	7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
7.0	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
7.5	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	>23,210
8.0	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.5	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,270 +/-3850
9.5	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.5	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11.3	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12.8	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13.3	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14.0	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15.2	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
16.0	19	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
17.0	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	
20.0	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22.0	22	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
23.0	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	

APPENDIX 2.—Continued.

CORE S15		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
0.5	1	99.2	0.1	0.7	91.7	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
2.0	2	98.7	0.5	1.1	94.6	4.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
4.0	3	97.9	0.2	1.6	93.0	5.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0
5.5	4	82.3	11.0	6.7	88.1	3.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0	3.6	0.1	0.1	0.0
7.2	5	22.1	62.5	15.4	87.6	0.3	2.1	9.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.1	0.0
8.8	6	21.7	58.5	19.8	88.4	0.9	1.8	7.7	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.1	0.0
10.0	7	19.3	60.9	19.8	87.5	0.7	3.4	7.4	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.0	0.0
10.5	8	2.6	59.0	38.4	50.6	0.9	19.9	11.3	0.1	0.0	0.0	0.0	0.0	15.1	1.2	0.0	0.0
10.8	9	12.0	62.7	25.3	68.0	0.0	8.5	11.6	0.3	0.0	0.0	0.0	0.0	7.3	2.4	0.0	0.0
11.2	10	4.3	78.8	16.9	72.6	0.3	4.8	18.2	0.0	0.0	0.0	0.0	0.0	2.6	0.1	0.0	0.0
11.4	11	9.5	64.9	25.3	77.3	0.6	6.6	13.3	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.0
11.9	12	0.1	28.4	71.5	19.1	0.0	0.7	2.5	0.0	0.0	0.0	0.0	0.0	28.1	47.2	0.0	0.0
12.7	13	0.8	40.0	59.2	1.2	0.0	5.3	0.0	0.6	0.0	0.0	0.0	0.0	89.2	4.0	0.0	0.0
14.0	14	0.1	23.4	76.5	19.1	2.0	4.1	2.0	0.0	0.0	0.0	0.0	12.3	22.0	33.5	0.0	0.0
14.8	15	0.1	35.8	64.1	9.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	9.3	78.1	0.0	0.0
16.0	16	0.2	24.1	75.7	34.2	0.0	1.1	1.1	0.3	0.0	0.0	0.0	0.0	23.1	25.3	0.0	0.0
17.5	17	0.1	27.7	72.2	8.7	0.3	0.0	0.0	17.8	0.0	0.0	0.0	0.0	1.7	66.7	0.0	0.0
19.0	18	0.1	35.1	64.8	6.5	0.0	5.0	0.0	0.3	0.0	0.0	0.0	0.0	30.5	48.4	0.0	0.0
20.0	19	0.2	24.4	75.4	12.2	0.0	0.3	0.3	0.3	0.0	0.0	0.0	3.5	0.6	74.2	0.0	0.0
21.3	20	1.5	28.3	70.2	58.2	1.7	0.7	0.0	0.3	0.0	0.0	0.0	0.0	7.2	26.8	0.0	0.0
22.5	21	3.7	21.9	74.4	4.1	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.7	41.1	0.0	0.0
25.0	22	0.2	26.3	73.5	28.7	0.0	0.0	1.1	11.7	0.0	0.0	0.0	0.0	2.5	30.5	0.1	0.0
26.0	23	0.1	28.3	71.6	25.7	0.0	2.2	0.0	4.5	0.0	0.0	0.0	0.0	6.7	17.4	0.0	0.0
27.5	24	0.1	31.7	68.2	18.0	0.3	2.6	0.0	0.6	0.0	0.0	0.0	1.6	2.0	40.6	0.0	0.0
28.6	25	0.1	31.4	68.5	38.4	0.0	2.5	9.2	5.3	0.0	0.0	0.0	0.0	3.9	14.2	0.0	0.0
30.0	26	0.1	25.3	74.6	14.4	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	1.4	34.7	0.0	0.0
30.8	27	0.2	18.2	81.6	44.8	1.1	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	22.8	0.0	0.0
31.7	28	63.4	3.9	32.7	79.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	0.0	0.0
32.7	29	90.2	3.1	6.7	92.4	3.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
34.0	30	95.3	2.0	2.7	91.0	6.5	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.6	0.0	0.0
35.0	31	89.0	2.4	8.6	95.8	1.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0

APPENDIX 2.—Continued.

CORE S15

DEPTH	NO	SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
0.5	1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.0	2	0.1	0.7	0.1	0.0	0.1	0.0	0.0	0.0	0.0	
4.0	3	0.2	0.7	0.1	0.0	0.1	0.0	0.0	0.0	0.0	1,620 +/- 70
5.5	4	0.2	1.6	0.1	0.0	0.0	0.0	0.0	0.1	0.0	
7.2	5	0.0	0.1	0.3	0.1	0.1	0.0	0.0	0.0	0.0	4,370 +/- 160
8.8	6	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
10.0	7	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
10.5	8	0.0	0.3	0.3	0.1	0.1	0.0	0.0	0.0	0.0	
10.8	9	0.4	1.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	2,620 +/- 80
11.2	10	0.0	0.9	0.1	0.3	0.0	0.0	0.0	0.0	0.0	
11.4	11	0.0	0.3	0.6	0.3	0.1	0.0	0.0	0.0	0.0	
11.9	12	0.0	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
12.7	13	0.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
14.0	14	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14.8	15	0.0	2.1	0.7	0.0	0.3	0.0	0.0	0.0	0.0	3,870 +/- 80
16.0	16	0.0	6.2	0.7	0.0	7.8	0.0	0.0	0.0	0.0	
17.5	17	0.0	2.8	0.7	0.0	1.0	0.0	0.0	0.0	0.0	
19.0	18	0.0	2.4	1.8	0.1	4.7	0.0	0.0	0.0	0.0	
20.0	19	0.0	6.0	0.9	0.0	1.5	0.0	0.0	0.0	0.0	4,170 +/- 90
21.3	20	0.0	1.4	0.1	0.0	3.4	0.0	0.0	0.0	0.0	
22.5	21	0.0	24.8	0.7	0.0	28.1	0.0	0.0	0.0	0.0	
25.0	22	0.0	1.8	0.3	0.0	23.1	0.0	0.0	0.0	0.0	6,670 +/- 90
26.0	23	0.0	1.9	0.0	0.0	41.4	0.0	0.0	0.0	0.0	
27.5	24	0.0	10.6	0.0	0.0	23.3	0.0	0.0	0.0	0.0	
28.6	25	0.0	2.5	0.0	0.1	23.9	0.0	0.0	0.0	0.0	
30.0	26	0.0	36.3	0.1	0.0	7.2	0.0	0.0	0.0	0.0	
30.8	27	0.0	10.3	0.0	0.3	12.4	0.0	0.0	0.0	0.0	7,420 +/- 90
31.7	28	0.4	12.4	0.4	0.0	5.0	0.0	0.0	0.0	0.0	
32.7	29	0.2	3.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	
34.0	30	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35.0	31	0.0	1.4	0.0	0.0	0.3	0.0	0.0	0.1	0.0	

APPENDIX 2.—Continued.

CORE S17		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
0.3	1	87.72	9.72	2.56	53.40	46.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0	2	77.08	13.95	8.98	69.08	26.61	0.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.53	0.0
2.7	3	14.39	50.33	35.28	54.45	3.40	4.18	1.83	0.26	0.0	0.0	0.0	0.0	1.04	20.68	2.88	0.0
3.6	4	65.09	15.94	18.97	83.85	5.66	1.13	5.66	0.0	0.0	0.0	0.0	0.0	0.1	1.70	0.0	0.0
4.5	5	36.27	31.61	35.12	76.36	5.11	4.15	11.18	0.0	0.0	0.0	0.0	0.0	0.1	2.88	0.0	0.0
5.7	6	39.53	36.51	23.96	79.64	4.56	1.52	13.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.5	7	24.08	53.47	22.45	88.45	2.43	0.91	7.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.5	8	23.63	57.13	19.24	81.99	3.86	2.25	9.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.8	9	1.23	49.32	49.45	47.73	0.68	21.59	9.55	0.68	0.0	0.0	0.0	0.0	0.0	18.86	0.0	0.0
10.2	10	9.38	76.89	13.73	80.94	3.96	5.20	7.18	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0
12.0	11	0.26	34.26	65.48	21.11	0.0	14.07	4.27	0.50	0.0	0.0	0.0	0.0	0.0	54.77	3.26	0.0
13.0	12	1.03	40.36	58.61	63.29	0.94	7.29	16.24	0.24	0.0	0.0	0.0	0.0	8.71	2.35	0.94	0.0
14.8	13	20.45	22.01	57.54	71.65	1.29	6.70	18.04	0.0	0.0	0.0	0.0	0.0	0.26	1.29	0.1	0.0
16.2	14	0.05	34.28	65.67	20.73	0.0	4.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.95	1.52	0.0
18.0	15	22.39	55.94	21.67	82.20	4.85	1.94	9.71	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0
19.3	16	3.70	51.86	44.44	65.71	0.95	12.14	11.67	0.0	0.0	0.0	0.0	0.0	0.0	8.33	0.24	0.0
21.0	17	0.25	37.51	62.24	31.39	0.0	11.00	1.29	0.0	0.0	0.0	0.0	0.0	7.44	47.9	0.65	0.0
22.6	18	0.30	41.47	58.53	17.20	0.0	43.01	0.0	0.0	0.0	0.0	0.0	0.0	2.96	34.41	0.27	0.0
24.2	19	5.32	26.22	68.46	30.11	0.0	9.38	1.14	0.0	0.0	0.0	0.0	0.0	8.52	30.40	12.50	0.0
25.2	20	11.70	48.31	39.99	45.73	1.26	12.31	10.55	0.0	0.0	0.0	0.0	0.0	0.50	9.30	5.03	0.0
27.2	21	7.03	55.43	37.54	44.97	1.85	8.20	31.48	0.0	0.0	0.0	0.0	0.0	0.53	3.70	2.91	0.0
28.8	22	2.02	53.52	44.46	40.91	0.91	15.45	17.88	5.15	0.0	0.0	0.0	0.0	0.91	6.36	7.88	0.0
30.3	23	1.13	41.60	57.27	18.46	0.0	19.28	3.63	0.0	0.0	0.0	0.0	0.0	17.08	24.52	10.19	0.0
32.3	24	1.15	86.64	12.21	52.74	1.44	7.78	33.72	0.0	0.0	0.0	0.0	0.0	1.15	0.86	1.15	0.0
33.7	25	0.17	31.81	68.02	4.18	0.0	3.62	0.0	0.0	0.0	0.0	0.0	0.0	72.42	19.22	0.56	0.0
35.0	26	0.23	33.88	65.89	40.15	2.49	2.24	2.99	0.0	0.0	0.0	0.0	0.0	47.13	4.74	1.75	0.0
36.4	27	0.14	29.86	70.02	12.76	0.59	3.86	0.0	0.0	0.0	0.0	0.0	0.0	44.27	22.26	3.86	0.0
37.8	28	0.15	26.03	73.82	8.86	0.28	2.77	0.0	0.55	0.0	0.0	0.0	0.0	56.79	6.37	7.48	0.28
39.3	29	0.10	24.06	75.84	18.54	0.0	2.25	0.0	7.87	0.0	0.0	0.0	0.0	32.58	7.87	13.64	0.0
40.8	30	0.92	28.12	70.96	27.62	2.23	3.56	1.11	2.00	0.0	0.0	0.0	0.0	36.75	2.67	4.01	0.0
42.3	31	0.16	17.48	82.35	52.49	1.10	2.76	0.0	0.0	0.0	0.0	1.6	0.0	8.84	6.08	7.73	0.0

APPENDIX 2.—Continued.

CORE S17

DEPTH	NO	SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
0.3	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.0	2	0.2	0.13	0.53	0.0	0.0	0.0	0.0	0.0	0.0	1,420 +/- 80
2.7	3	0.2	5.75	5.23	0.26	0.0	0.0	0.0	0.0	0.0	
3.6	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	
4.5	5	0.0	0.0	0.1	0.1	0.32	0.0	0.0	0.0	0.0	
5.7	6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6.5	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.5	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,200 +/- 120
8.8	9	0.0	0.0	0.1	0.68	0.23	0.0	0.0	0.0	0.0	
10.2	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12.0	11	0.0	0.0	0.50	1.01	0.25	0.0	0.0	0.25	0.0	4,480 +/- 110
13.0	12	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14.8	13	0.0	0.77	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
16.2	14	0.0	0.30	0.30	0.30	0.0	0.0	0.0	0.30	0.0	
18.0	15	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
19.3	16	0.0	0.24	0.0	0.24	0.0	0.0	0.0	0.0	0.0	4,890 +/- 110
21.0	17	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	
22.6	18	0.0	0.0	0.0	1.34	0.27	0.0	0.0	0.54	0.0	
24.2	19	0.0	6.53	0.0	0.0	1.42	0.0	0.0	0.0	0.0	
25.2	20	0.0	5.78	1.76	0.0	7.79	0.0	0.0	0.0	0.0	
27.2	21	0.0	2.91	0.26	0.0	3.17	0.0	0.0	0.26	0.0	
28.8	22	0.0	1.21	0.0	0.61	3.64	0.0	0.0	0.0	0.0	7,150 +/- 110
30.3	23	0.1	3.58	0.1	0.83	3.03	0.0	0.0	0.0	0.0	7,980 +/- 90
32.3	24	0.0	0.0	0.0	0.29	0.86	0.0	0.0	0.0	0.0	
33.7	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35.0	26	0.0	0.25	0.25	0.0	1.00	0.0	0.0	0.0	0.0	7,850 +/- 100
36.4	27	0.3	8.61	0.30	0.0	3.26	0.0	0.0	0.0	0.0	
37.8	28	0.0	6.93	0.10	0.0	9.70	0.0	0.0	0.0	0.0	
39.3	29	0.28	10.11	0.84	0.0	5.62	0.0	0.0	0.0	0.0	
40.8	30	0.44	13.14	0.0	0.0	6.46	0.0	0.0	0.0	0.0	
42.3	31	0.0	10.50	0.0	0.0	8.84	0.0	0.0	0.0	0.0	8,940 +/- 120

APPENDIX 2.—Continued.

CORE S18		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM	FORB	FORP
1.77	1	3.9	65.0	31.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	99.0	0.0	0.0	0.0	0.0	0.0
2.09	2	57.4	12.2	30.4	45.8	3.7	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.3	0.0	0.5	0.0
2.38	3	2.4	3.9	93.7	53.4	0.3	0.0	0.0	0.0	0.0	0.9	29.2	5.1	0.6	0.0	0.3	0.0
2.69	4	77.3	8.5	14.2	77.4	3.5	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	3.4	0.0
3.60	21	76.2	4.4	28.2	74.3	0.3	0.6	1.3	1.7	0.3	1.7	0.3	0.0	0.0	0.0	0.6	0.0
5.71	22	68.9	5.3	25.8	57.5	0.0	0.5	1.5	2.4	0.0	2.4	0.0	0.0	0.5	0.0	1.0	0.0
6.36	5	0.09	72.1	27.81	57.7	1.7	6.7	4.2	12.8	9.8	4.3	0.0	0.0	0.3	0.0	0.6	0.0
7.45	6	4.2	68.0	27.8	73.7	2.9	5.1	11.7	4.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
8.50	7	6.0	61.6	32.4	77.6	2.4	1.0	9.2	0.0	6.4	0.0	6.4	0.0	0.5	0.5	0.0	0.0
9.91	23	0.5	71.0	28.5	64.7	0.8	2.9	8.2	11.2	1.2	11.2	1.2	0.0	2.5	0.3	0.8	0.0
11.48	8	1.4	60.4	38.2	77.6	2.3	14.2	0.0	2.5	0.0	2.5	0.0	0.9	0.0	0.0	0.9	0.0
12.33	9	0.1	28.8	71.1	52.3	3.4	0.3	0.0	1.9	0.0	1.9	0.0	0.5	0.0	0.8	31.0	0.0
14.07	10	0.1	36.8	63.1	10.6	0.6	0.0	0.0	2.6	0.0	2.6	0.0	0.9	0.3	0.0	68.0	0.0
15.24	11	0.5	41.6	57.9	18.9	1.4	4.4	2.7	1.6	0.0	1.6	0.0	0.0	0.0	4.4	57.8	0.0
16.29	12	0.1	34.9	65.0	3.5	0.8	0.0	0.0	0.9	0.0	0.9	0.0	0.0	0.6	0.5	85.9	0.0
17.44	13	0.05	42.7	57.25	34.5	1.1	0.8	0.0	7.6	0.0	7.6	6.2	0.0	0.0	0.3	39.2	0.0
18.84	14	0.09	31.2	68.71	28.7	0.4	0.0	0.0	3.9	0.0	3.9	0.0	0.0	0.0	0.4	62.7	0.0
20.68	15	0.2	52.6	47.2	5.1	1.6	0.6	0.0	30.4	0.0	30.4	0.0	0.0	0.0	0.6	56.0	0.0
22.12	16	0.3	10.8	88.0	33.1	1.7	0.0	6.7	0.6	0.0	0.6	0.0	0.0	14.7	0.3	18.5	0.0
23.50	17	0.2	44.8	55.0	50.9	5.2	0.5	1.5	2.3	0.0	2.3	0.0	0.0	0.8	1.3	25.7	0.0
25.09	18	0.1	29.5	70.4	9.0	1.2	0.0	0.0	3.8	0.0	3.8	0.0	0.0	3.5	2.0	38.9	0.0
26.53	19	0.3	18.5	81.4	26.4	0.0	0.0	0.0	4.6	0.0	4.6	0.0	0.0	1.7	0.3	38.8	0.0
26.92	20	75.9	5.3	18.8	89.8	0.3	0.0	1.5	5.4	0.0	5.4	0.0	0.0	0.3	0.0	1.5	0.0
27.90	24	98.4	0.04	1.56	98.3	0.3	0.0	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0
31.41	25	98.2	0.4	1.4	93.3	0.3	0.0	0.8	2.8	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
32.93	26	97.7	0.0	1.4	95.4	0.6	0.0	0.6	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
34.92	27	98.5	0.04	1.46	95.2	0.0	0.0	0.9	1.2	0.0	1.2	0.0	0.0	0.0	0.0	0.6	0.0
37.05	28	97.8	1.0	1.2	97.8	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
39.80	29	95.9	1.7	2.4	92.3	0.0	0.0	0.3	1.2	0.0	1.2	0.0	0.6	0.0	0.0	0.0	0.0
43.15	30	97.5	0.7	1.8	98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44.07	31	96.9	0.6	2.5	94.7	3.1	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
48.03	32	96.9	0.7	2.4	98.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.61	33	98.1	0.4	1.5	95.9	0.9	0.0	0.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S18

DEPTH	NO	SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
1.77	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1,400 +/- 80
2.09	2	0.3	42.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	
2.38	3	0.0	9.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	
2.69	4	0.0	10.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	
3.60	21	0.3	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.71	22	0.0	35.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	
6.36	5	0.0	5.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	4,650 +/- 120
7.45	6	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.50	7	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9.91	23	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11.48	8	0.0	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	4,100 +/- 70
12.33	9	0.0	8.4	1.1	0.0	0.3	0.0	0.0	0.0	0.0	
14.07	10	0.0	13.2	2.0	0.0	0.0	0.0	0.0	1.8	0.0	
15.24	11	0.0	6.3	2.2	0.0	0.0	0.0	0.0	0.3	0.0	
16.29	12	0.0	2.4	2.9	0.0	0.0	0.0	0.0	2.5	0.0	
17.44	13	0.0	4.8	2.2	0.0	0.3	0.0	0.0	3.0	0.0	4,480 +/- 110
18.84	14	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.7	0.0	
20.68	15	0.3	3.6	1.2	0.0	0.0	0.0	0.0	0.6	0.0	
22.12	16	0.0	13.2	1.5	0.0	0.0	0.0	0.0	9.7	0.0	
23.50	17	0.0	6.5	0.3	0.0	0.0	0.0	0.0	5.0	0.0	
25.09	18	0.0	34.8	3.5	0.0	0.0	0.0	0.0	3.3	0.0	
26.53	19	0.0	26.7	0.0	0.0	0.0	0.0	0.0	1.5	0.0	7,400 +/- 80
26.92	20	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,040 +/- 100
27.90	24	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31.41	25	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
32.93	26	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
34.92	27	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
37.05	28	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
39.80	29	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11,530 +/- 80
43.15	30	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
44.07	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	
48.03	32	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	
52.61	33	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.7	0.0	12,070 +/- 370

APPENDIX 2.—Continued.

CORE S19		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM	FORB	FORP
		3.3cm	14	52	20.0	74.8	81.5	0.0	0.6	0.0	2.8	0.0	94	54	0.0	0.0	0.0
		14.4cm	15	72.5	12.3	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		95.1cm	16	87.4	4.6	8.0	90.9	0.6	0.0	0.0	1.8	0.0	0.0	0.4	0.0	0.0	0.0
		1.45m	17	60.6	21.6	17.8	53.9	0.0	0.0	0.0	1.6	0.0	34.7	3.9	0.0	0.0	0.0
		1.90	26	92.5	3.0	4.5	95.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		3.35	27	91.8	3.1	5.1	87.7	3.9	2.9	0.0	0.0	0.0	0.0	0.0	0.6	1.1	0.0
		4.03	18	13.5	55.2	31.3	75.1	1.6	5.2	0.0	11.5	0.0	1.1	3.5	0.9	0.3	0.0
		4.05	19	0.4	30.1	69.5	84.5	8.2	1.4	0.0	1.0	0.0	0.0	0.8	0.5	0.0	0.0
		4.84	20	83.4	12.8	3.8	86.6	6.2	0.0	0.0	1.3	0.0	0.3	3.2	0.6	0.6	0.0
		5.57	21	16.4	56.8	26.8	85.5	2.7	0.8	0.0	4.3	0.0	0.0	6.2	0.5	0.0	0.0
		6.90	22	15.5	57.1	27.4	82.8	2.8	4.8	0.0	4.7	0.0	0.3	4.0	0.0	0.6	0.0
		8.56	23	0.4	33.9	65.7	80.8	0.9	0.9	0.0	9.4	0.0	1.7	4.4	0.0	2.1	0.0
		9.34	24	2.7	50.8	46.5	64.4	3.0	6.6	0.0	9.1	0.0	0.6	0.6	9.4	5.2	0.0
		9.71	25	76.3	12.9	10.8	96.8	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.6	0.0
		10.37	28	94.0	3.9	3.1	88.2	5.9	1.4	0.0	1.1	0.0	1.1	0.6	0.0	0.6	0.0
		11.94	29	94.9	3.4	1.7	85.1	5.9	0.6	0.0	0.3	0.0	4.3	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S19		SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
DEPTH	NO										
3.3cm	14	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
14.4cm	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
95.1cm	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	
1.45m	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	
1.90	26	0.0	3.6	0.3	0.0	0.0	0.0	0.0	0.8	0.0	
3.35	27	0.0	2.4	0.6	0.0	0.0	0.0	0.0	0.8	0.0	
4.03	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	
4.05	19	0.0	1.9	0.0	0.0	0.0	0.0	0.0	1.7	0.0	3,070 +/- 110
4.84	20	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.57	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6.90	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,960 +/- 100
8.56	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9.34	24	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.3	0.0	4,080 +/- 90
9.71	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.37	28	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.8	0.0	
11.94	29	0.0	0.3	0.0	0.0	0.0	0.0	0.0	3.2	0.0	

APPENDIX 2.—Continued.

CORE S20		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
		37.5cm	1	22.74	45.92	31.33	80.5	0.3	0.0	13.4	1.6	0.0	0.0	0.0	0.0	0.3	0.0
		97.5cm	2	12.34	52.52	35.14	83.5	0.3	0.8	10.3	3.1	0.0	1.4	0.0	0.3	0.3	0.0
		1.54m	3	38.14	39.74	22.12	76.3	0.7	0.7	18.2	3.0	0.0	0.2	0.0	0.2	0.0	0.0
		2.26	4	2.66	39.87	57.46	22.8	0.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0	7.8	0.0
		3.77	5	12.90	33.27	53.83	33.9	0.0	0.9	5.4	0.9	0.0	0.3	0.0	0.0	4.7	0.0
		4.93	6	1.60	27.75	70.65	50.9	0.5	1.1	6.2	7.7	0.0	0.3	0.0	3.7	6.0	0.0
		5.85	7	2.97	75.37	21.66	43.8	1.3	31.3	6.2	5.6	0.0	0.0	0.0	1.9	2.7	0.0
		6.86	8	5.05	34.62	60.33	53.9	0.6	2.8	1.8	10.6	0.0	0.0	0.0	28.2	0.6	0.0
		7.98	9	34.41	51.63	13.97	48.6	0.8	22.8	2.8	10.4	0.0	0.0	0.3	11.1	0.3	0.0
		8.95	10	4.68	62.08	33.23	42.2	0.0	29.5	6.5	6.5	0.0	0.0	0.3	1.1	4.1	0.0
		10.09	11	2.98	75.13	21.89	66.9	0.9	9.7	18.9	1.5	0.0	0.0	0.0	0.0	0.9	0.0
		11.75	12	9.08	60.28	30.64	55.9	1.3	22.2	10.9	3.9	0.0	0.0	0.0	0.5	2.1	0.0
		12.85	13	3.52	63.46	33.02	26.3	0.0	16.5	23.0	11.2	0.0	3.7	0.0	0.0	6.4	0.0
		13.62	14	3.98	63.81	32.20	27.4	2.2	14.5	20.6	2.2	0.9	24.9	0.0	0.3	2.7	0.0
		14.82	15	0.18	55.07	44.75	28.8	0.0	33.8	2.8	12.8	0.0	0.0	0.0	7.8	6.6	0.0
		15.85	16	0.92	51.48	47.59	20.4	0.0	35.3	2.6	7.6	0.0	6.0	0.0	15.9	5.0	0.0
		16.92	17	0.26	55.82	43.92	5.0	0.0	21.8	0.3	18.3	0.0	0.0	0.0	16.9	32.4	0.0
		17.97	18	0.14	47.32	52.54	59.0	0.8	0.8	2.8	4.6	0.0	1.2	0.0	3.7	25.4	0.0
		19.12	19	7.84	41.91	50.26	38.8	1.6	0.0	2.6	6.3	0.0	9.8	0.3	1.5	37.2	0.0
		20.08	20	0.04	35.34	64.61	46.9	0.6	3.6	0.0	14.6	0.0	12.8	3.6	2.7	6.8	0.0
		21.10	21	3.52	55.58	40.90	42.4	1.2	12.2	0.0	9.6	0.0	4.9	9.0	0.6	8.2	0.0
		22.10	22	0.42	45.09	54.49	18.0	0.0	1.4	6.2	5.6	0.0	14.5	0.0	2.1	42.4	0.0
		23.11	23	0.88	41.78	57.34	6.6	0.0	2.7	0.0	14.3	0.0	2.5	0.0	3.0	27.9	0.0
		24.06	24	0.32	38.02	61.66	39.5	1.4	0.4	7.8	6.9	0.0	8.3	0.0	0.0	31.2	0.0
		24.48	25	0.29	26.15	73.56	4.9	0.3	0.0	0.3	2.2	0.0	0.0	0.0	0.3	61.4	0.0
		26.77	26	0.54	35.35	64.11	24.3	0.8	1.6	1.6	23.9	0.0	0.0	0.0	0.0	41.4	0.0
		27.73	27	0.63	31.24	68.13	70.7	1.2	0.0	0.0	0.3	9.4	0.0	0.0	16.3	1.2	0.0
		28.82	28	0.25	34.03	65.72	29.0	0.0	0.0	2.1	1.8	0.0	4.5	0.0	0.3	55.5	0.0
		29.93	29	0.25	32.97	66.77	36.2	0.4	0.0	20.6	0.8	0.4	0.0	0.0	0.7	35.8	0.0
		31.10	30	0.24	30.66	69.11	59.7	0.0	0.0	0.0	7.7	0.0	4.2	5.5	0.3	16.9	0.0
		32.07	31	0.23	32.36	67.41	58.5	0.0	0.0	0.0	5.6	0.0	3.4	3.9	0.3	16.7	0.0
		32.90	32	0.23	32.90	66.87	35.9	0.3	0.0	0.0	5.3	0.0	1.9	1.7	0.3	50.4	0.0
		34.20	33	0.18	29.16	70.66	40.4	0.0	0.3	0.0	5.3	0.0	1.4	1.4	0.3	17.1	0.0
			34	0.08	30.60	69.32	44.8	1.7	0.0	2.3	2.1	0.0	0.9	0.0	0.0	36.7	0.0

APPENDIX 2.—Continued.

CORE S20		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
35.74	35	0.12	30.35	69.52	28.6	1.2	0.0	5.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	45.8	0.0
37.00	36	0.19	28.88	70.93	21.9	0.3	0.0	0.6	1.3	0.0	0.0	34.7	0.0	0.0	0.0	25.9	0.0
37.96	37	0.06	28.01	71.93	25.7	1.6	0.0	1.6	5.8	0.0	0.0	6.3	0.0	0.6	0.0	37.3	0.0
39.05	38	0.25	25.62	74.13	70.7	0.9	0.0	0.4	2.6	0.0	0.0	1.9	0.0	0.0	0.0	13.6	0.0
39.93	39	59.89	8.29	31.82	1.8	0.6	0.0	0.0	2.9	0.0	0.0	92.3	0.0	0.0	0.0	1.2	0.0
40.98	40	0.09	25.13	74.78	18.4	0.4	0.0	0.0	39.4	0.0	0.0	11.9	0.0	0.0	0.0	17.4	0.0
41.95	41	0.75	26.95	72.30	65.7	0.0	0.0	0.0	3.2	0.0	0.0	24.0	0.0	0.0	0.0	5.6	0.0
42.86	42	55.36	15.13	29.52	92.1	1.5	0.0	0.0	1.2	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0
43.36	43	95.28	1.50	3.22	98.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44.24	44	95.08	1.69	3.22	97.2	0.9	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
46.51	45	94.63	1.99	3.38	96.6	1.9	0.0	0.0	0.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
48.03	46	94.65	1.64	3.71	99.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
49.51	47	96.87	0.85	2.28	99.4	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S20		DEPTH	NO	SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
37.5cm	1	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
97.5cm	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.54m	3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	2,890 +/- 130
2.26	4	0.0	65.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3.15	5	0.0	49.1	4.5	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
3.77	6	0.0	21.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
4.93	7	0.0	1.3	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.85	8	0.0	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6.86	9	0.0	2.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7.98	10	0.0	8.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.95	11	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.09	12	0.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11.75	13	0.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	4,190 +/- 90
12.85	14	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	
13.62	15	0.0	4.9	1.1	0.0	0.3	0.0	0.0	0.0	0.0	1.1	0.0	
14.82	16	0.0	4.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	
15.85	17	0.0	1.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16.92	18	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17.97	19	0.0	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19.12	20	0.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	
20.08	21	0.0	11.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	
21.10	22	0.0	9.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	
22.10	23	0.0	42.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	5,110 +/- 110
23.11	24	0.0	2.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
24.06	25	0.0	9.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	17.1	0.0	
24.48	26	0.0	4.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	
26.77	27	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27.73	28	0.0	3.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	7,460 +/- 80
28.82	29	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	
29.93	30	0.0	5.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31.10	31	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	
32.07	32	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
32.90	33	0.0	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	
34.20	34	0.0	3.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	7,260 +/- 90

APPENDIX 2.—Continued.

CORE S21

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
22.8cm	1	88.65	4.73	6.62	75.7	3.5	1.3	1.6	1.3	2.4	1.6	0.0	0.3	1.6	0.0
1.18m	2	96.94	2.88	0.18	80.9	5.7	1.7	1.7	0.8	1.1	0.0	0.0	0.3	0.9	0.0
2.28	3	94.53	2.46	3.02	88.1	3.2	1.9	2.8	0.6	0.4	0.0	0.0	0.0	0.3	0.0
3.81	4	98.33	0.25	1.42	84.8	1.7	0.0	9.3	2.1	0.0	0.6	0.0	0.0	0.9	0.0
5.33	5	97.22	0.37	2.41	85.6	1.4	0.3	10.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
7.09	6	90.11	3.93	5.95	86.0	4.8	1.5	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
8.15	7	25.37	45.35	29.28	70.7	5.8	2.8	7.4	4.4	0.0	0.0	0.0	7.4	0.0	0.0
8.50	8	85.71	5.44	8.84	75.9	1.2	6.2	12.3	0.8	0.0	1.9	0.0	0.0	0.0	0.0
8.92	9	74.39	16.02	9.58	67.9	1.1	15.2	8.3	0.0	0.6	2.8	0.0	0.0	0.0	0.0
9.43	10	74.07	15.02	10.91	77.9	2.4	7.6	10.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0
10.20	11	8.16	30.16	61.68	68.8	0.5	8.5	5.7	5.8	0.0	0.0	0.0	5.7	2.1	0.0
11.43	12	82.77	6.27	10.96	88.5	2.6	1.9	3.2	1.3	0.0	0.3	0.0	0.0	0.6	0.0
12.96	13	54.16	12.63	33.21	84.1	1.7	3.0	7.3	2.5	0.0	0.0	0.0	0.0	0.3	0.0
14.97	14	38.59	31.23	30.19	76.4	0.0	5.3	8.8	2.7	0.0	0.0	0.0	1.8	0.0	0.0
15.88	15	11.15	24.70	64.14	61.4	0.6	24.3	3.4	1.5	0.0	4.2	0.0	0.3	1.9	0.0
17.71	16	1.74	45.8	52.46	2.1	0.0	44.8	0.0	2.1	0.0	0.0	0.0	48.9	1.8	0.0
17.96	17	1.05	86.54	12.41	80.1	0.0	0.0	3.6	4.5	0.0	0.3	0.0	1.3	8.3	0.0
19.04	18	1.87	14.05	84.08	68.3	0.0	2.9	10.8	3.9	0.0	0.9	0.0	2.5	7.1	0.0
20.21	19	2.85	37.07	60.08	48.3	0.0	22.9	6.4	2.5	0.0	0.0	0.0	11.6	3.6	0.0
21.02	20	27.29	22.66	50.05	82.3	0.3	3.0	3.6	6.3	0.0	1.2	0.0	0.3	1.8	0.0
22.14	21	0.30	33.28	66.42	71.2	0.3	0.3	3.2	3.2	0.0	1.7	0.0	2.6	5.8	0.0
23.04	22	2.39	56.81	40.80	70.9	0.7	2.9	18.1	2.4	0.0	0.0	0.0	0.7	3.1	0.0
23.95	23	1.19	57.18	41.63	75.2	0.0	1.5	10.3	5.3	0.0	0.0	0.0	2.4	3.2	0.0
25.10	24	0.32	7.34	92.34	27.1	0.6	0.8	3.3	9.7	0.0	0.3	0.0	10.2	37.9	0.0
26.07	25	4.17	42.00	53.83	23.6	0.3	0.0	1.2	11.8	0.0	0.0	0.0	30.2	22.6	0.0
27.08	26	0.45	50.36	49.19	27.5	0.0	3.2	1.8	4.4	0.0	0.0	0.0	29.9	31.7	0.0
28.43	27	1.70	36.20	62.10	10.6	0.0	0.3	0.0	1.8	0.0	0.0	0.0	7.7	1.8	0.0
29.45	28	24.83	31.00	44.17	84.4	0.3	0.3	10.0	2.5	0.0	0.3	0.0	0.0	0.3	0.3
30.21	29	1.40	35.22	63.37	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0
30.82	30	1.02	35.57	63.41	65.9	0.8	0.3	2.1	0.8	0.0	1.6	0.0	0.0	11.8	0.0
31.76	31	0.92	34.53	64.55	28.2	0.3	0.9	0.0	4.8	0.0	0.6	28.9	0.3	8.3	0.0
32.14	32	4.95	27.84	67.21	78.2	1.5	0.6	2.7	1.5	0.0	0.3	0.0	0.0	5.0	0.0
32.96	33	1.00	36.38	62.62	33.8	0.0	0.3	0.3	9.7	0.0	0.0	0.9	0.0	12.7	0.0
34.36	34	1.09	42.24	56.67	30.2	0.2	0.0	0.0	14.4	0.0	0.0	0.0	0.0	39.4	0.0

APPENDIX 2.—Continued.

CORE S21

DEPTH	NO	SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
35.40	35	0.0	2.2	0.3	0.0	12.8	0.0	0.0	0.0	0.0	
36.30	36	0.0	1.9	0.3	0.3	12.7	0.0	0.0	0.0	0.0	
37.00	37	0.0	10.0	0.6	0.0	17.9	0.0	0.0	0.0	0.0	
37.90	38	0.0	1.6	0.0	0.0	44.6	0.0	0.0	0.0	0.0	
38.81	39	0.0	0.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0	
39.42	40	0.0	10.1	0.0	0.0	7.1	0.0	0.0	0.0	0.0	
40.12	41	0.0	2.8	0.0	0.3	23.5	0.0	0.0	0.0	0.0	7,140 +/- 110
40.91	42	0.0	3.1	0.0	0.0	1.6	0.0	0.0	0.0	0.0	
41.84	43	0.0	2.8	0.3	0.0	0.6	0.0	0.0	0.0	0.0	
43.02	44	0.3	9.8	0.0	0.0	2.9	0.0	0.0	0.6	0.0	
43.82	45	0.3	11.4	0.0	10.2	12.3	0.0	0.0	1.6	0.0	
44.47	46	1.9	14.1	0.3	3.8	19.7	0.0	0.0	3.5	0.0	
45.38	47	1.8	17.4	2.1	0.0	6.9	0.0	0.0	3.6	0.0	8,190 +/- 110
46.03	48	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	
46.93	49	0.3	5.7	0.3	0.0	2.5	0.0	0.0	0.0	0.0	
47.93	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
48.00	51	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	8,140 +/- 130
49.00	52	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	

APPENDIX 2.—Continued.

CORE S22		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM	FORB	FORP
		10cm	1	0.8	27.0	72.2	6.6	5.0	0.0	7.5	4.6	0.0	0.5	0.0	67.9	2.5	0.0
		59.7cm	2	0.3	28.0	71.7	83.6	7.7	0.0	0.0	0.9	0.0	0.0	0.0	2.1	0.7	0.0
		90.7cm	3	1.3	39.4	59.3	73.0	4.8	0.0	0.3	0.0	0.0	0.9	0.0	6.6	0.9	0.0
		1.75m	4	2.4	32.8	64.8	23.2	6.2	0.3	1.6	0.9	0.0	0.0	0.0	52.7	0.9	0.0
		2.74	5	3.3	32.5	64.2	97.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
		3.13	6	40.2	30.3	29.5	89.9	5.7	0.3	0.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
		3.27	7	76.2	13.3	9.8	89.5	5.5	0.3	0.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
		4.11	8	88.7	3.6	7.7	93.3	1.2	0.5	0.8	2.5	0.0	0.0	0.0	0.0	1.1	0.0
		5.05	9	20.9	47.1	32.0	83.1	3.9	2.0	3.9	2.4	0.0	0.3	0.0	0.3	1.5	0.3
		5.94	10	0.5	74.7	24.8	69.4	2.4	1.3	1.5	6.9	0.0	0.7	0.0	3.0	0.9	0.0
		6.93	11	8.0	55.4	36.6	14.5	12.5	18.5	0.0	0.0	0.4	0.0	0.0	6.3	18.5	0.4
		8.28	12	31.9	20.7	47.4	93.5	1.6	0.0	0.0	2.2	0.0	0.4	0.0	0.0	1.3	0.0
		8.34	13	0.2	12.9	86.9	12.9	0.0	0.0	0.3	2.9	0.0	0.0	0.0	0.0	80.0	0.0
		9.41	14	15.7	41.7	42.6	96.3	1.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.3	0.0
		10.00	15	0.2	38.7	61.1	25.5	0.7	3.9	30.6	12.9	0.0	0.0	0.0	1.2	9.2	0.0
		11.52	16	6.6	29.2	64.2	87.2	1.7	0.0	0.3	0.9	0.0	0.0	0.0	0.0	0.9	0.0
		12.58	17	2.1	23.6	74.3	34.4	1.9	0.3	0.3	0.6	0.0	0.0	0.0	0.0	37.2	0.0
		14.00	18	1.4	34.7	63.9	29.6	6.3	0.9	10.8	5.8	0.0	0.0	0.0	0.3	31.9	0.0
		15.66	19	0.2	31.4	68.4	17.5	6.8	1.9	6.3	0.6	0.0	0.0	0.0	5.8	26.2	0.0
		17.16	20	0.06	58.4	41.54	28.9	1.9	3.2	4.0	13.9	0.0	0.3	0.0	4.7	21.7	0.0
		18.68	21	0.1	25.3	74.6	20.4	3.9	0.0	16.9	3.2	0.0	0.0	0.0	0.0	41.1	0.0
		20.51	22	0.2	27.6	72.2	21.2	0.3	0.0	1.4	0.6	0.0	0.0	0.0	0.0	32.8	0.0
		21.78	23	0.8	15.1	84.1	76.1	1.3	0.3	0.0	1.3	0.0	0.0	0.0	1.6	3.7	0.0
		22.28	24	80.9	9.8	9.3	20.4	1.9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.5	0.0
		22.97	25	89.8	1.8	8.4	88.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		23.86	26	90.3	2.9	6.8	96.1	1.5	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
		25.16	27	89.7	2.6	8.3	92.9	2.5	0.0	0.6	1.6	0.0	0.0	0.0	0.0	0.6	0.0
		26.68	28	93.2	1.4	5.4	95.6	3.8	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
		28.21	29	90.0	2.5	7.5	95.9	1.9	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
		29.73	30	91.6	2.4	6.0	94.2	2.5	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		30.72	31	89.2	3.8	7.8	90.9	3.9	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0
		31.17	36	33.9	45.2	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		31.38	37	65.3	5.5	29.2	97.7	1.3	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
		31.75	38	63.4	28.1	8.5	88.4	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S22		DEPTH	NO	SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
10cm	1	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
59.7cm	2	0.0	4.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,630 +/- 110
90.7cm	3	0.0	10.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	
1.75m	4	0.0	12.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.74	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3.13	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,770 +/- 90
3.27	7	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4.11	8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
5.05	9	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	
5.94	10	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	
6.93	11	0.0	26.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	
8.28	12	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	4,670 +/- 80
8.34	13	0.0	2.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9.41	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.00	15	0.0	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	
11.52	16	0.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	
12.58	17	0.0	24.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
14.00	18	0.0	13.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	6,630 +/- 150
15.66	19	0.3	30.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	
17.16	20	0.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	
18.68	21	0.0	11.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	
20.51	22	0.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	
21.78	23	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	7,910 +/- 150
22.28	24	0.0	72.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	7,540 +/- 70
22.97	25	1.7	7.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23.86	26	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25.16	27	0.0	1.5	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	
26.68	28	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28.21	29	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	
29.73	30	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30.72	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31.17	36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31.38	37	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32,920 +/- 930
31.75	38	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	

APPENDIX 2.—Continued.

CORE S22		SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
DEPTH	NO										
32.17	32	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
33.55	33	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
34.77	34	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
35.99	35	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
36.92	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
37.10	40	0.0	0.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	24,320 +/- 2030

APPENDIX 2.—Continued.

CORE S24

DEPTH	NO	SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
36.3cm	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
84.8cm	10	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.37m	46	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,130 +/- 180
4.11	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6.86	48	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7.39	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9,200 +/- 110
8.93	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.25	13	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24,240 +/- 1,510

APPENDIX 2.—Continued.

CORE S25		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
	75.5cm	1	0.23	31.15	68.62	55.6	2.0	0.0	0.0	0.0	7.2	0.0	16.6	18.6	0.0	0.0	0.0
	2.24m	2	0.32	52.23	47.46	11.6	0.0	0.0	0.0	0.0	0.0	0.0	88.4	0.0	0.0	0.0	0.0
	3.16	3	23.40	42.75	33.85	54.5	1.5	4.3	0.0	0.0	7.4	0.0	0.0	0.0	32.3	0.0	0.0
	3.49	4	34.15	40.80	25.05	76.7	4.5	11.9	3.4	3.4	1.3	0.0	0.5	0.0	0.26	0.0	0.0
	3.77	5	0.62	46.78	52.59	86.3	3.6	0.0	0.0	0.0	0.0	0.0	5.9	2.3	0.0	0.0	0.0
	5.05	6	1.35	68.32	30.33	77.9	1.1	4.6	3.0	3.0	4.3	0.0	0.3	0.0	8.3	0.0	0.0
	5.55	7	7.44	61.46	31.09	56.5	0.3	10.4	13.1	13.1	6.6	0.0	0.0	0.0	1.9	2.6	0.0
	6.47	8	14.07	68.91	17.02	62.4	7.4	0.0	19.5	19.5	1.2	0.0	0.0	0.0	2.1	1.8	0.0
	6.92	9	16.29	51.70	32.00	42.7	0.9	14.0	29.3	29.3	7.9	0.0	0.61	0.0	1.5	0.6	0.0
	7.57	10	5.33	64.95	29.72	36.5	0.33	16.1	20.4	20.4	16.8	0.0	0.66	0.0	0.66	1.33	0.0
	8.51	11	0.54	63.96	35.50	50.9	0.6	6.1	21.4	21.4	9.2	0.0	0.0	0.0	2.6	4.0	0.0
	9.56	12	3.22	57.24	39.54	6.3	0.26	13.2	1.8	1.8	11.6	0.0	26.8	0.0	2.63	0.79	0.0
	10.49	13	0.26	43.55	56.20	55.3	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	1.5	20.6	0.0
	11.49	14	0.73	29.74	69.52	73.7	0.7	0.0	2.5	2.5	16.2	0.0	0.0	0.0	0.0	3.9	0.0
	12.02	15	73.52	7.92	18.55	95.8	0.3	0.0	0.0	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0
	13.37	16	95.03	1.21	3.77	94.2	0.3	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
	14.12	17	16.60	17.06	66.34	65.3	2.8	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	17.2	0.0

APPENDIX 2.—Continued.

CORE S25

DEPTH	NO	SHLW	SHLF	OSTR	SPNG	ECHN	WRMT	INSCT	OTH	WHITE	CARBON-14
75.5cm	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.24m	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3.16	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3.49	4	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.860 +/- 90
3.77	5	0.0	1.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.05	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	
5.55	7	0.0	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6.47	8	0.0	3.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	
6.92	9	0.0	2.13	0.0	0.0	0.0	0.0	0.0	0.3	0.0	
7.57	10	0.0	6.9	0.33	0.0	0.0	0.0	0.0	0.0	0.0	6.630 +/- 110
8.51	11	0.0	2.0	2.9	0.0	0.3	0.0	0.0	0.0	0.0	
9.56	12	0.0	7.1	29.2	0.0	0.26	0.0	0.0	0.0	0.0	
10.49	13	0.0	13.8	0.0	0.0	0.6	0.0	0.0	0.6	0.0	
11.49	14	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12.02	15	0.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.760 +/- 100
13.37	16	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14.12	17	0.3	8.8	0.9	0.0	0.0	0.0	0.0	0.6	0.0	6.210 +/- 100

APPENDIX 2.—Continued.

CORE S26		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
		62.9cm	30	15.9	30.6	53.5	95.6	2.1	0.0	0.0	0.6	0.0	0.3	0.3	0.0	0.0	0.0
		1.38m	33	32.7	24.9	42.4	91.8	1.2	0.3	0.0	0.0	0.0	3.5	2.9	0.0	0.0	0.0
		1.74	34	74.4	9.1	16.5	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		2.16	35	77.7	7.6	14.7	96.8	0.4	0.0	0.0	0.0	0.0	1.4	1.4	0.0	0.0	0.0
		2.41	36	41.1	19.8	39.1	97.1	0.9	0.0	0.0	0.9	0.0	0.4	0.7	0.0	0.0	0.0
		3.2	41	97.8	1.1	1.1	98.1	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0
		4.72	42	94.8	1.8	3.4	99.4	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
		4.95	37	93.4	2.5	4.1	97.4	0.3	0.0	0.0	0.4	0.0	1.9	0.0	0.0	0.0	0.0
		5.54	38	1.6	17.4	81.0	95.2	0.9	0.0	0.0	2.1	0.0	1.2	0.0	0.0	0.0	0.0
		5.88	31	36.3	24.9	38.8	95.8	1.9	0.0	0.0	1.2	0.0	0.0	0.0	0.8	0.0	0.0
		6.23	32	42.3	35.4	22.3	81.4	0.5	0.0	0.0	4.8	0.0	0.3	0.0	13.0	0.0	0.0
		6.45	39	92.8	3.5	2.7	98.6	0.7	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
		7.10	40	88.2	6.9	4.9	98.7	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
		7.47	43	98.6	0.2	1.2	99.4	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
		9.91	44	98.4	0.4	1.2	98.2	0.6	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0
		12.96	45	96.1	0.9	3.0	99.4	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S27

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM	FORB	FORP
99cm	1	14.64	39.79	45.57	79.6	1.4	3.7	0.1	2.4	0.0	6.3	0.0	0.0	0.0	0.0
1.16m	2	0.27	27.93	71.80	74.0	2.1	0.0	0.0	3.4	0.0	18.0	0.0	0.0	0.0	0.0
2.41	3	3.34	33.49	63.16	71.4	1.9	0.5	0.3	0.5	0.0	13.5	0.0	0.0	2.5	0.0
2.69	4	36.96	41.17	21.86	76.7	2.5	8.5	0.3	0.0	0.0	4.6	0.0	0.0	0.0	0.0
3.45	5	2.48	83.04	14.48	85.2	0.6	0.6	8.1	0.9	0.0	5.7	0.0	0.0	0.0	0.0
4.24	6	1.01	18.03	80.97	80.8	0.3	0.9	3.9	7.2	0.0	1.5	0.0	4.8	0.0	0.0
4.99	7	38.35	14.72	46.93	8.4	0.0	0.0	0.0	1.5	1.2	0.0	11.5	77.4	0.0	0.0
5.72	8	7.88	31.60	60.52	35.0	3.4	1.6	4.2	0.6	0.0	27.5	0.0	1.9	2.5	0.0
6.50	9	35.93	16.68	47.39	3.9	0.3	0.6	0.0	0.8	2.5	0.0	3.0	88.9	0.0	0.0
7.01	10	20.58	29.11	50.31	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.0	98.1	0.0	0.0
7.42	11	8.68	47.77	43.55	45.2	2.6	1.3	0.0	0.3	0.0	0.0	0.0	50.6	0.0	0.0
8.12	12	38.82	24.53	36.65	5.4	0.3	0.0	0.0	1.9	11.4	1.4	0.0	78.2	0.0	0.0
8.47	13	22.53	59.88	17.59	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	96.9	0.0	0.0
9.03	14	75.01	0.21	24.78	1.9	0.0	0.0	0.0	0.0	0.0	0.3	0.0	97.8	0.0	0.0
9.24	15	96.23	1.80	1.98	99.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.41	16	4.10	46.17	49.74	82.3	0.0	0.0	0.0	0.6	14.8	0.0	0.0	0.6	0.0	0.0
10.52	17	94.27	1.84	3.89	82.4	2.2	0.0	0.0	4.2	0.0	3.3	0.0	0.0	0.0	0.0
11.43	18	96.63	1.04	2.33	96.1	1.5	0.0	0.0	1.5	0.0	0.0	0.6	0.0	0.0	0.0
12.96	19	98.11	0.54	1.36	99.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.50	20	97.84	1.02	1.15	96.1	1.8	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S28		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
		1.11m	1	99.22	0.18	0.61	97.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		2.28	2	99.07	0.02	0.91	98.4	1.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
		3.81	3	69.91	3.92	26.17	67.2	0.3	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
		4.78	4	59.64	27.87	12.48	65.7	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	3.4	0.0
		5.02	5	16.50	22.21	61.28	91.6	0.3	0.0	1.2	0.0	0.0	6.9	0.0	0.0	0.0	0.0
		5.64	6	96.48	0.82	2.70	85.6	1.1	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		8.38	7	96.20	1.07	2.73	88.5	0.3	0.9	6.5	0.0	0.0	0.0	0.0	0.0	0.6	0.0
		9.91	8	67.00	17.09	15.91	77.1	0.6	0.9	16.1	0.6	0.0	0.0	0.0	3.6	0.0	0.0
		11.30	9	79.19	8.57	12.23	81.1	0.9	0.3	9.8	0.0	0.0	0.0	0.0	5.2	0.0	0.0
		12.78	10	71.97	14.32	13.71	75.9	0.6	0.9	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		14.04	11	4.05	37.64	58.31	59.1	0.8	6.8	0.0	1.3	0.0	0.0	21.3	10.4	0.3	0.0
		15.96	12	39.77	19.21	41.02	76.2	0.8	2.4	15.5	0.0	0.0	0.0	0.0	2.4	0.6	0.0
		16.93	13	77.94	9.44	12.62	90.4	3.4	0.0	2.9	0.0	0.0	0.0	0.0	0.6	0.8	0.0
		18.10	14	1.82	34.26	63.92	19.3	0.3	6.7	0.0	13.5	0.0	0.0	7.3	7.9	6.7	0.0
		18.85	15	3.67	42.58	53.75	16.8	0.0	0.6	0.0	3.3	0.0	47.2	0.6	2.7	20.8	0.0
		19.38	16	1.24	61.91	36.86	21.1	0.0	19.5	10.4	13.6	0.0	22.2	0.0	0.6	8.0	0.0
		20.45	17	0.24	43.39	56.36	45.9	0.3	0.7	6.3	4.5	0.0	0.0	0.0	1.3	34.6	0.0
		21.92	18	0.06	36.69	63.25	65.3	0.0	0.0	4.8	4.4	0.0	0.0	0.0	0.6	3.2	0.0
		23.63	19	8.46	32.60	58.93	42.2	0.0	0.0	0.0	12.1	0.0	0.0	0.0	0.0	4.9	0.0
		23.74	20	78.02	9.57	12.41	68.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
		24.54	21	94.55	1.99	3.46	96.1	0.3	0.0	0.0	0.3	0.0	0.0	1.5	0.3	0.0	0.0
		26.07	22	91.11	4.39	4.51	92.1	0.6	0.0	0.0	0.3	0.0	0.0	5.5	0.0	0.0	0.0
		27.27	23	78.13	6.77	15.10	96.3	0.9	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		27.97	24	1.01	45.34	53.65	55.1	0.0	6.4	0.0	0.0	0.0	21.3	0.0	4.4	8.8	0.0
		28.43	25	12.35	30.53	57.12	82.2	3.2	0.0	0.0	0.6	0.0	0.0	0.3	1.8	0.0	0.0
		28.63	26	60.66	22.57	16.77	91.6	3.3	1.2	0.6	1.8	0.0	1.2	0.0	0.0	0.0	0.0
		31.11	27	92.61	2.68	4.71	94.4	1.6	0.6	0.0	1.9	0.0	0.6	0.6	0.0	0.0	0.0
		35.20	28	5.53	21.74	72.73	71.3	0.3	0.0	0.0	0.6	2.3	25.5	0.0	0.0	0.0	0.0
		35.99	29	88.83	4.65	6.52	90.9	3.3	0.3	0.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S29		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
		2.31	30	10.36	33.02	56.62	73.8	0.6	0.8	2.6	3.2	0.0	0.0	0.0	1.1	2.6	0.0
		3.58	31	0.12	65.80	34.08	71.8	1.5	0.6	1.5	5.2	0.0	0.0	17.6	0.6	0.6	0.0
		4.70	32	1.98	64.19	33.83	60.7	1.3	27.9	4.9	0.0	0.0	5.2	0.0	0.0	0.0	0.0
		5.65	33	0.32	49.46	50.22	67.6	0.3	16.8	10.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
		6.90	34	0.11	63.26	36.63	73.1	0.9	2.9	9.8	2.4	0.0	1.7	0.0	7.5	0.0	0.0
		7.79	35	70.26	11.37	18.36	80.6	1.9	2.6	12.9	0.3	0.0	0.0	0.0	0.3	0.3	0.0
		8.59	36	16.94	42.32	40.74	65.1	0.5	2.1	15.9	0.7	0.0	0.0	0.0	0.5	3.7	0.0
		11.28	37	64.78	18.84	16.38	80.9	0.8	3.4	7.8	0.0	0.5	0.0	0.0	0.0	0.3	0.0
		15.24	38	75.08	9.68	15.23	76.9	1.9	1.3	14.7	1.0	0.0	0.0	0.0	0.0	0.6	0.0
		18.29	39	63.10	18.76	18.13	72.9	2.2	1.7	14.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0
		21.65	40	89.96	4.82	5.21	91.3	1.4	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.3	0.0
		25.0	41	83.40	8.47	7.84	88.2	2.8	0.0	0.0	2.5	0.0	0.3	0.0	0.0	0.3	0.0
		28.05	42	91.05	4.07	4.88	88.4	1.8	0.8	1.4	3.9	0.0	1.1	0.0	0.0	0.0	0.0
		31.60	43	95.89	1.63	2.48	96.2	1.7	0.3	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
		35.07	44	87.61	7.76	4.63	92.2	1.6	0.6	0.0	2.7	0.0	0.3	0.0	0.0	0.0	0.0
		38.12	45	90.67	4.44	4.89	88.2	4.7	0.6	2.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S30		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM	FORB	FORP
		30.5cm	1	96.30	0.84	2.87	87.7	10.2	0.0	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
		1.52m	2	86.37	10.08	3.56	85.4	1.8	0.5	10.9	0.0	0.0	1.4	0.0	0.0	0.0	0.0
		2.28	3	93.24	5.58	1.18	79.5	12.3	0.5	6.8	0.0	0.0	0.9	0.0	0.0	0.0	0.0
		5.48	4	92.80	6.44	0.76	91.1	1.1	0.0	6.6	0.3	0.0	0.3	0.0	0.0	0.0	0.0
		7.01	5	68.42	0.47	31.10	82.2	2.1	1.1	8.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
		8.38	6	59.40	16.97	23.63	81.1	0.0	1.2	14.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
		9.91	7	68.14	18.95	12.91	74.5	4.2	5.9	11.1	3.4	0.0	0.3	0.0	0.0	0.0	0.0
		15.25	8	79.50	15.04	5.46	81.5	4.7	3.5	6.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
		18.83	9	6.17	63.95	29.88	47.2	0.0	10.4	9.4	14.6	0.0	0.0	0.0	12.1	3.1	0.0
		19.55	10	2.40	46.62	50.98	21.5	0.0	21.5	5.4	34.1	0.0	0.6	0.0	6.7	3.9	0.0
		20.56	11	0.80	46.43	52.78	41.1	0.0	6.4	4.2	15.5	0.0	0.0	0.0	24.2	7.8	0.0
		21.64	12	1.34	41.69	56.97	88.3	0.0	0.3	6.5	1.5	0.0	0.6	0.0	0.0	1.6	0.0
		22.60	13	0.57	40.86	58.57	47.3	0.0	2.4	3.7	1.6	0.0	0.0	0.0	14.4	24.2	0.0
		23.57	14	3.72	40.91	55.37	50.6	0.0	1.8	19.9	15.2	0.0	0.0	0.0	1.2	10.1	0.0
		24.10	15	1.06	38.18	60.76	11.5	0.0	7.7	0.0	27.2	0.0	0.0	15.6	24.5	7.4	0.0
		24.80	16	3.29	36.72	59.99	60.5	0.0	0.3	0.0	0.8	0.0	0.0	21.0	0.6	7.0	0.0
		25.51	17	19.10	37.68	43.22	42.0	0.0	8.3	11.4	0.3	0.0	0.0	0.0	4.0	6.4	0.0
		26.33	18	0.76	48.39	50.85	16.3	0.0	2.7	6.6	2.2	0.0	0.0	0.0	0.6	19.3	0.0
		27.17	19	0.10	39.54	60.36	67.7	2.2	0.0	7.3	8.2	0.0	0.6	0.0	0.6	3.1	0.0
		27.51	20	1.27	36.97	61.76	36.2	1.1	0.0	14.5	1.4	0.0	0.0	0.0	0.4	19.5	0.0
		27.78	21	45.21	7.43	47.36	91.8	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.3	0.3	0.0
		28.43	22	98.34	0.49	1.16	95.9	0.3	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
		31.26	23	97.85	0.76	1.39	95.4	1.2	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
		34.31	24	98.08	0.73	1.19	87.8	0.6	0.0	0.0	0.3	0.0	2.6	0.0	0.0	0.0	0.0
		35.83	25	95.15	1.99	2.86	87.2	4.7	0.3	1.6	0.6	0.0	5.0	0.0	0.0	0.0	0.0
		38.88	26	96.17	2.25	1.58	95.5	0.3	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
		40.41	27	95.23	1.76	3.00	95.3	0.6	0.0	0.3	2.2	0.0	1.3	0.0	0.0	0.0	0.0
		41.93	28	97.44	0.91	1.65	92.3	2.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S31		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	LITH	AGG	PLTM	FORB	FORP
0.3	1	4.31	49.81	45.88	52.0	4.4	4.4	4.4	4.4	4.0	0.0	2.7	7.2	20.0	0.0	0.0
1.2	2	2.30	43.97	53.74	51.0	2.6	2.6	9.8	6.3	6.3	0.0	1.7	4.0	17.2	0.0	0.0
2.4	3	3.07	46.35	50.58	73.0	1.6	1.6	3.5	15.0	15.0	0.0	1.3	1.6	1.3	0.6	0.0
3.0	4	0.06	24.07	75.87	90.0	2.7	2.7	2.4	0.3	0.3	0.0	0.0	4.1	0.6	0.0	0.0
4.6	5	0.80	27.03	72.17	7.2	0.3	0.3	2.4	0.0	0.0	0.0	0.0	0.0	88.6	0.0	0.0
4.9	6	73.54	9.92	16.54	<1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.0	0.0	0.0
5.2	7	68.32	22.12	9.56	93.0	1.9	1.9	0.6	2.5	2.5	0.3	0.0	0.0	1.4	0.0	0.0
6.9	8	67.66	21.76	10.57	83.0	4.7	4.7	1.9	8.3	8.3	0.0	2.2	0.3	0.0	0.0	0.0
7.6	9	7.22	58.39	34.38	89.0	3.4	3.4	2.0	3.9	3.9	0.0	0.8	0.0	0.3	0.0	0.0
8.2	10	0.25	57.58	42.17	74.0	0.9	0.9	3.6	0.0	0.0	0.6	0.0	0.0	19.0	0.0	0.0
9.1	11	-	-	-	88.0	2.8	2.8	0.9	6.0	6.0	0.0	0.3	1.1	0.6	0.0	0.0
9.4	12	5.83	44.86	49.32	73.0	2.2	2.2	4.6	12.0	12.0	0.0	0.3	0.0	7.6	0.9	0.0
10.7	13	51.18	28.16	20.66	81.0	1.3	1.3	1.5	14.0	14.0	0.0	0.3	0.0	0.0	0.3	0.0
11.4	14	2.94	44.48	52.58	54.0	1.2	1.2	9.6	11.0	11.0	0.8	0.0	0.0	20.0	0.6	0.0
12.0	15	2.59	59.44	37.97	45.0	1.5	1.5	18.0	18.0	18.0	2.7	0.0	0.0	5.7	1.1	0.0
12.3	16	0.50	34.92	64.59	75.0	0.9	0.9	9.6	11.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
13.6	17	2.14	42.12	55.74	79.0	0.7	0.7	3.6	14.0	14.0	0.0	0.0	0.0	2.4	0.3	0.0
14.5	18	12.89	32.92	52.89	81.0	1.6	1.6	2.6	13.0	13.0	0.0	0.0	0.0	2.0	0.3	0.0
15.5	19	19.43	41.94	38.64	72.0	1.0	1.0	3.7	18.0	18.0	0.0	0.3	0.0	1.0	0.3	0.0
16.6	20	5.14	42.56	52.30	61.0	0.6	0.6	4.5	29.0	29.0	0.0	0.0	0.0	3.0	0.0	0.0
17.5	21	7.73	50.00	42.27	36.0	1.0	1.0	8.7	17.0	17.0	0.0	0.6	0.0	0.3	1.2	0.0
18.4	22	0.38	38.25	61.37	45.0	0.6	0.6	21.0	6.9	6.9	0.0	0.8	0.0	19.6	0.4	0.0
19.7	23	0.53	55.23	44.24	29.0	0.9	0.9	35.0	2.5	2.5	0.0	0.0	0.0	15.6	12.6	0.0
20.0	24	0.13	27.72	72.15	43.0	3.3	3.3	29.0	1.1	1.1	0.0	0.0	0.0	2.2	13.4	0.0
21.0	25	1.45	29.31	69.24	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0
21.6	26	0.16	33.28	66.56	38.0	0.9	0.9	6.8	0.0	0.0	0.0	0.0	0.0	1.1	46.0	0.0
22.7	27	0.35	28.70	70.96	55.0	1.2	1.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	21.5	0.0
23.5	28	0.18	32.93	66.89	12.0	0.8	0.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	34.7	0.0
24.4	29	0.22	27.67	72.11	80.0	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	0.0
25.1	30	0.44	27.47	72.09	91.0	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
23.2	31	0.39	21.13	78.48	76.0	3.6	3.6	0.0	0.0	0.0	0.9	0.0	0.3	0.0	1.8	0.0
26.4	32	0.22	22.12	77.66	63.0	0.5	0.5	0.0	0.8	0.8	19.0	0.0	0.3	0.0	5.3	0.0

APPENDIX 2.—Continued.

CORE S31		DEPTH	NO	GSHW	GSHF	PSHW	PSHF	SHLO	OSTR	SPNG	ECHN	BRYO	PTER	DIAT	RADIO	OIH	CARBON-14
0.3	1	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	
1.2	2	0.0	0.0	0.0	0.0	2.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	
2.4	3	0.0	0.0	0.3	0.0	0.0	0.0	1.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
3.0	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	
4.6	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	
4.9	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,260 +/- 90
5.2	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6.9	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7.6	9	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.2	10	0.0	0.0	0.0	0.0	0.6	0.0	0.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	
9.1	11	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9.4	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.7	13	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	
11.4	14	0.0	0.0	0.0	0.0	1.4	0.0	0.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,840 +/- 140
12.0	15	0.0	0.0	0.0	0.0	3.8	0.0	0.4	1.9	0.0	0.0	0.0	0.0	0.4	0.0	0.0	
12.3	16	0.0	0.0	0.0	0.0	0.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13.6	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	
14.5	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	
15.5	19	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	6,590 +/- 110
16.6	20	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	
17.5	21	0.0	0.0	0.0	0.0	0.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18.4	22	0.0	0.0	0.0	0.0	0.8	0.0	0.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19.7	23	0.0	0.0	0.0	0.0	0.6	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,650 +/- 140
20.0	24	0.0	0.0	0.0	0.0	1.6	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21.0	25	0.0	0.0	0.0	0.0	0.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21.6	26	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	
22.7	27	0.0	0.0	0.6	4.3	11.6	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	
23.5	28	0.0	0.0	0.0	0.0	49.0	0.0	0.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	
24.4	29	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	
25.1	30	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	7,850 +/- 140
23.2	31	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.0	0.0	
26.4	32	0.0	0.0	0.5	0.0	9.4	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.8	

APPENDIX 2.—Continued.

CORE S32		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM
0.2	1	4.45	57.38	38.17	71.0	2.1	9.1	5.8	0.0	0.0	0.0	0.0	12.0	0.0	0.0
1.5	2	8.66	56.40	34.94	78.0	1.4	11.0	8.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
2.9	3	31.59	35.34	33.08	87.0	3.4	2.8	4.8	0.0	0.0	0.0	1.7	0.6	0.0	0.0
3.8	4	76.51	15.14	8.35	88.0	6.4	1.9	3.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0
4.6	5	1.30	65.06	33.64	63.0	1.4	12.0	1.9	0.9	0.0	0.0	0.0	0.0	17.0	2.3
5.3	6	82.51	8.88	8.61	91.0	1.7	1.4	4.8	0.0	0.0	0.0	0.0	0.6	0.6	0.0
7.5	7	11.31	53.99	34.70	55.0	0.8	8.6	12.0	3.3	0.8	0.0	0.0	0.0	14.0	2.5
9.1	8	0.94	49.68	49.38	51.0	1.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	6.3
10.6	9	1.61	31.17	67.22	3.0	0.0	12.0	0.0	1.0	0.0	0.0	0.0	0.0	61.0	0.0
11.9	10	3.63	32.66	63.71	78.0	1.0	3.9	4.2	0.3	0.0	0.0	0.0	0.0	9.7	0.0
12.6	11	88.22	5.66	6.12	80.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.3	12	2.49	55.76	41.75	80.0	0.6	10.0	7.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0
20.1	13	0.93	58.45	40.62	51.0	0.4	18.0	12.0	0.0	0.0	0.0	0.0	18.0	0.0	0.0
5.7	14	-	-	-	80.0	2.3	0.8	11.3	0.0	2.5	0.0	2.5	2.0	0.6	-
6.9	15	-	-	-	89.0	1.2	1.2	6.0	0.0	1.5	0.0	1.5	0.5	0.0	-
11.1	16	-	-	-	61.0	0.9	0.4	5.5	0.0	1.1	0.0	1.1	30.0	0.0	-
13.2	17	-	-	-	89.0	4.1	0.3	5.0	0.0	0.9	0.0	0.9	0.0	0.0	-
14.5	18	-	-	-	97.0	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	-
16.0	19	-	-	-	94.0	1.9	0.0	2.2	0.0	1.3	0.0	1.3	0.0	0.0	-
17.5	20	-	-	-	92.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
20.8	21	-	-	-	86.0	4.5	2.4	6.0	0.0	0.6	0.0	0.6	0.0	0.0	-

APPENDIX 2.—Continued.

CORE S32

DEPTH	NO	FORB	FORP	GSHW	GSHF	PSHW	PSHF	SHLO	OSTR	SPNG	ECHN	CARBON-14
02	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
1.5	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2.9	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3.8	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4.6	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	
5.3	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7.5	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	5,880 +/- 170
9.1	8	5.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	3.0	0.0	
10.6	9	0.0	0.0	0.0	0.0	0.0	0.0	10.0	5.0	3.0	0.0	
11.9	10	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.8	0.0	7,100 +/- 130
12.6	11	0.0	0.0	0.0	0.0	0.0	0.0	15.0	0.0	1.0	0.0	7,960 +/- 150
19.3	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	
20.1	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.7	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	
6.9	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	
11.1	16	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.0	
13.2	17	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	
14.5	18	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	
16.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	
17.5	20	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	
20.8	21	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	

APPENDIX 2.—Continued.

CORE S33		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
1.0	22	-	-	-	-	-	89.0	5.6	1.1	1.4	0.0	0.0	0.8	0.6	0.6	0.0	0.0
1.5	1	70.24	20.77	8.99	79.0	6.2	79.0	6.2	2.0	9.2	0.0	0.0	3.3	0.0	0.0	0.0	0.0
2.3	2	8.70	22.32	68.98	52.0	3.1	52.0	3.1	5.6	5.1	0.0	0.0	0.6	0.0	1.5	4.5	0.0
3.4	3	0.11	57.84	42.05	15.0	6.5	15.0	6.5	35.0	2.3	0.0	0.0	1.0	0.0	38.5	0.0	0.0
4.4	4	1.63	53.76	44.61	42.0	1.8	42.0	1.8	18.0	19.0	0.8	0.0	0.8	0.0	3.1	2.9	0.0
5.8	5	0.95	30.59	68.47	60.0	4.0	60.0	4.0	9.5	3.5	0.6	0.0	0.6	0.0	1.7	13.9	0.0
6.3	6	71.59	18.31	10.10	66.0	0.6	66.0	0.6	3.2	27.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
7.2	7	1.17	68.46	30.37	51.0	3.1	51.0	3.1	29.0	12.0	0.0	0.0	1.2	0.9	2.2	0.0	0.0
7.8	8	0.86	71.73	27.42	57.0	1.2	57.0	1.2	22.0	6.5	0.0	0.0	0.9	0.0	8.3	0.0	0.0
8.4	9	0.79	59.27	39.94	24.0	1.1	24.0	1.1	40.0	1.4	0.0	0.0	0.0	0.0	20.4	3.5	0.0
9.3	10	65.88	20.27	13.86	81.0	4.5	81.0	4.5	1.3	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	11	90.66	4.49	4.85	17.0	0.5	17.0	0.5	0.3	1.9	0.0	0.0	0.8	0.0	0.0	0.1	0.0
10.5	12	75.07	18.28	6.65	83.0	2.8	83.0	2.8	0.8	12.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0
11.7	13	26.03	53.88	20.09	78.0	3.2	78.0	3.2	1.7	15.0	0.0	0.0	0.9	0.0	0.9	0.0	0.0
12.6	14	93.56	2.54	3.89	94.0	4.7	94.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
13.2	23	-	-	-	76.0	2.7	76.0	2.7	1.8	13.0	0.0	0.0	2.7	2.4	0.3	0.0	0.0
14.5	24	-	-	-	95.0	0.9	95.0	0.9	0.6	0.9	0.0	0.0	0.0	0.9	0.0	0.0	0.0
16.0	25	-	-	-	79.0	6.0	79.0	6.0	2.6	7.3	0.0	0.0	2.8	0.5	0.0	0.0	0.0
17.5	26	-	-	-	82.0	2.0	82.0	2.0	1.2	9.7	0.0	1.2	1.2	1.5	0.0	0.0	0.0
18.8	27	-	-	-	82.0	3.5	82.0	3.5	0.6	10.0	0.0	1.5	1.6	0.0	0.0	0.0	0.0
19.7	28	-	-	-	77.0	3.7	77.0	3.7	3.3	12.0	0.0	0.6	1.2	0.3	0.3	0.0	0.0
20.2	15	9.61	11.90	78.49	85.0	6.6	85.0	6.6	0.9	6.0	0.0	0.6	0.6	0.0	0.9	0.0	0.0
20.7	16	0.06	7.75	92.19	92.0	4.5	92.0	4.5	0.3	1.1	0.0	0.8	0.8	0.0	0.9	0.0	0.0
21.1	17	0.40	2.44	97.16	0.5	0.5	0.5	0.5	0.0	0.0	0.0	10.0	0.0	89.0	0.0	0.0	0.0
21.6	18	2.22	8.35	89.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
22.3	19	5.71	7.46	86.83	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	73.0	15.0	0.0	0.0
22.8	20	0.06	9.77	90.17	98.0	1.7	98.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.8	21	71.97	14.68	13.34	83.0	6.4	83.0	6.4	0.6	4.8	0.0	0.0	2.2	0.0	0.0	0.0	0.0
24.4	29	-	-	-	93.0	2.2	93.0	2.2	0.3	2.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0
25.5	30	-	-	-	90.0	3.4	90.0	3.4	0.8	3.4	0.0	1.0	0.8	0.0	0.3	0.0	0.0

APPENDIX 2.—Continued.

CORE S34		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
0.5	1	95.71	96	1.59	2.70	96	3.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.0	10	-	95	-	-	95	3.5	0.0	0.3	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
2.3	11	-	97	-	-	97	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8	12	-	98	-	-	98	1.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
5.3	13	-	89	-	-	89	4.0	1.1	4.2	4.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0
6.9	14	-	88	-	-	88	2.9	1.2	4.7	4.7	0.0	0.0	1.5	0.0	0.0	0.3	0.0
8.4	15	-	88	-	-	88	2.4	1.8	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.8	16	-	85	-	-	85	3.4	2.9	5.1	5.1	0.0	0.0	0.9	0.0	0.0	0.6	0.0
10.4	2	1.90	14	46.07	52.04	14	0.0	23.0	0.8	0.8	1.5	0.0	0.0	0.0	59.0	0.0	0.0
11.6	3	58.29	88	25.46	16.25	88	2.9	1.8	6.2	6.2	0.0	0.0	0.0	0.0	0.6	0.0	0.0
12.5	4	20.45	75	46.83	32.72	75	2.6	2.2	19.0	19.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
13.1	5	2.43	9.7	65.28	32.29	9.7	1.6	52.0	7.1	7.1	1.3	0.0	0.6	0.0	22.3	1.0	0.0
13.9	17	-	89	-	-	89	2.1	0.3	3.9	3.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
14.8	18	-	91	-	-	91	2.2	0.6	2.2	2.2	0.0	0.0	1.3	0.0	0.3	0.0	0.0
16.0	19	-	91	-	-	91	2.5	0.6	2.5	2.5	0.0	1.6	0.3	0.0	0.3	0.0	0.0
17.5	20	-	82	-	-	82	3.0	0.6	5.1	5.1	0.0	3.6	0.0	0.0	0.0	0.3	0.0
19.1	21	-	93	-	-	93	1.9	0.3	1.9	1.9	0.0	0.6	0.3	0.0	0.0	0.0	0.0
20.6	22	-	80	-	-	80	1.7	0.0	4.7	4.7	0.0	1.9	0.3	0.0	0.0	0.0	0.0
21.9	23	-	88	-	-	88	1.6	1.0	1.9	1.9	0.0	3.8	0.0	0.0	0.0	0.0	0.0
22.6	6	33.23	93	23.74	43.03	93	2.5	0.0	0.6	0.6	0.0	0.0	0.3	3.1	0.0	0.0	0.0
23.6	7	10.72	94	8.86	80.42	94	4.9	0.3	0.3	0.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0
24.5	8	13.21	95	13.34	73.46	95	2.7	0.0	1.2	1.2	0.0	0.0	0.3	0.0	0.0	0.0	0.0
25.1	9	14.39	92	13.34	72.27	92	4.8	0.0	1.8	1.8	0.0	0.0	0.3	0.9	0.0	0.0	0.0
25.5	24	-	86	-	-	86	4.6	0.0	2.2	2.2	0.0	1.5	1.2	1.2	0.0	0.0	0.0
26.7	25	-	83	-	-	83	3.8	0.6	6.8	6.8	0.0	1.8	0.9	0.9	0.0	0.0	0.0
28.2	26	-	88	-	-	88	2.5	0.9	4.1	4.1	0.0	1.3	1.3	0.0	0.0	0.0	0.0
29.7	27	-	85	-	-	85	4.3	0.0	1.8	1.8	0.0	4.3	1.5	0.0	0.0	0.0	0.0
31.2	28	-	84	-	-	84	4.0	0.9	6.5	6.5	0.0	1.9	0.9	0.3	0.0	0.0	0.0
32.8	29	-	88	-	-	88	2.8	0.6	2.8	2.8	0.0	3.4	0.3	0.0	0.0	0.0	0.0
34.3	30	-	87	-	-	87	4.2	0.6	3.6	3.6	0.0	2.5	0.6	0.6	0.0	0.0	0.0
35.8	31	-	87	-	-	87	4.1	0.6	3.9	3.9	0.0	1.9	0.8	0.6	0.0	0.3	0.0
37.3	32	-	90	-	-	90	2.7	0.0	3.9	3.9	0.0	2.1	0.9	0.6	0.0	0.0	0.0
38.9	33	-	91	-	-	91	1.7	0.8	1.4	1.4	0.0	4.2	0.6	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S35		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM	FORB	FORP
1.7	13	-	-	-	-	-	92	3.7	0.0	3.4	0.0	0.0	0.6	0.0	0.0	0.0	0.0
2.6	14	-	-	-	-	-	93	3.3	1.2	1.2	0.0	0.0	1.5	0.0	0.0	0.0	0.0
3.8	15	-	-	-	-	-	93	3.5	0.6	1.8	0.0	0.0	1.5	0.0	0.0	0.0	0.0
5.3	16	-	-	-	-	-	88	4.4	0.9	3.2	0.0	0.0	2.6	0.0	0.0	0.0	0.0
6.9	17	-	-	-	-	-	85	4.5	0.9	3.6	0.0	2.4	0.9	0.0	0.0	0.3	0.0
8.4	18	-	-	-	-	-	87	3.0	0.6	4.9	0.0	2.4	1.2	0.0	0.0	0.0	0.0
10.1	19	-	-	-	-	-	81	1.4	0.5	2.2	0.0	2.0	2.0	0.0	0.6	0.2	0.0
11.2	1	28.58	40.50	30.92	-	-	60	2.1	6.8	2.3	0.0	0.0	1.3	0.0	1.8	0.5	0.3
11.8	20	-	-	-	-	-	88	1.5	0.9	5.5	0.0	0.3	1.8	0.0	0.0	0.0	0.0
12.6	21	-	-	-	-	-	86	4.4	1.2	3.8	0.0	0.0	1.5	0.0	0.0	0.3	0.0
13.6	22	-	-	-	-	-	86	3.0	1.5	4.6	0.0	1.2	2.1	0.0	0.0	0.3	0.0
14.0	2	23.59	33.53	42.88	-	-	58	1.0	5.9	11.0	0.0	0.0	1.0	0.0	19.5	1.0	0.0
14.5	3	46.42	37.64	15.94	-	-	76	2.3	3.0	14.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0
15.8	24	-	-	-	-	-	85	1.8	0.4	2.1	0.0	5.0	0.7	0.0	0.0	0.0	0.0
16.2	4	53.44	31.79	14.78	-	-	82	5.0	1.0	8.3	0.0	0.0	2.3	0.0	0.7	0.3	0.0
18.0	5	1.42	58.53	40.04	-	-	41	0.9	20.0	9.8	0.6	0.0	0.6	0.0	25.0	0.6	0.0
19.1	6	1.45	53.67	44.88	-	-	39	1.9	23.0	15.0	0.0	0.0	0.0	0.0	17.8	1.1	0.0
19.6	7	0.55	33.94	65.51	-	-	19	1.5	0.3	0.0	0.0	0.0	0.3	0.0	27.0	50.2	0.0
20.9	9	12.92	32.39	54.69	-	-	60	1.5	0.0	0.0	10.0	0.0	0.0	0.0	9.0	1.0	0.0
21.6	10	6.76	43.87	49.37	-	-	15	1.0	0.0	0.0	2.0	0.0	0.0	0.0	5.0	4.0	0.0
22.3	25	-	-	-	-	-	84	1.4	0.4	2.4	0.0	0.2	0.6	0.0	0.0	0.0	0.0
23.6	26	-	-	-	-	-	88	2.0	0.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.2	27	-	-	-	-	-	90	1.2	0.6	1.8	0.0	0.6	0.9	0.0	0.0	0.0	0.0
26.7	28	-	-	-	-	-	91	0.9	0.3	1.5	0.0	1.2	1.2	0.0	0.0	0.3	0.0
28.2	29	-	-	-	-	-	90	1.6	0.3	1.8	0.0	0.7	0.3	0.0	0.0	0.0	0.0
29.4	30	-	-	-	-	-	85	1.7	0.1	2.4	0.0	0.6	0.3	0.0	0.0	0.0	0.0
30.0	11	32.22	26.07	41.71	-	-	81	1.9	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.3	12	38.20	41.44	20.35	-	-	85	1.8	3.2	5.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
31.1	31	-	-	-	-	-	87	2.4	0.2	1.5	0.0	0.8	0.1	0.0	0.0	0.0	0.0
32.8	32	-	-	-	-	-	90	1.1	0.3	1.9	0.0	0.9	0.5	0.0	0.0	0.1	0.0
34.3	33	-	-	-	-	-	90	2.8	0.6	4.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S36		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
34.6	9	15.67	20.70	63.63	97	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35.3	10	3.34	21.25	75.41	98	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36.5	11	16.30	25.92	57.77	96	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.2	12	50.23	35.34	14.43	10	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.0	4.0	0.0	0.0
37.4	13	57.13	34.57	8.30	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.0	3.0	0.0	0.0
38.3	36	-	-	-	97	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39.3	37	-	-	-	91	3.8	2.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40.4	38	-	-	-	94	1.9	0.0	1.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
41.9	39	-	-	-	97	1.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43.4	40	-	-	-	95	1.0	0.0	1.3	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
45.0	41	-	-	-	96	1.9	0.0	0.6	0.0	0.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S37		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
0.4	1	4.95	51.79	43.26	5.8	0.6	0.6	0.6	0.9	0.0	0.0	92.0	0.0	0.0	0.0	0.0
1.5	2	1.01	36.99	62.01	83.0	2.9	2.9	2.6	7.3	0.0	0.0	0.0	2.0	1.7	0.0	0.0
2.9	3	3.42	24.80	71.78	81.0	1.1	1.1	13.0	1.9	0.0	0.0	0.0	0.0	0.6	0.9	0.0
3.8	4	0.12	62.71	37.17	36.0	2.6	2.6	4.7	0.0	46.0	0.0	0.0	0.0	0.0	7.0	0.0
4.6	5	0.55	60.88	38.57	22.0	2.0	2.0	46.0	1.7	1.7	0.0	0.0	0.0	0.7	16.0	3.0
6.1	6	43.29	28.46	28.25	82.0	2.2	2.2	3.2	9.7	0.0	0.0	0.0	1.6	0.0	1.1	0.0
7.0	7	68.72	21.01	10.27	82.0	2.4	2.4	2.4	13.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
7.9	8	5.35	44.17	50.48	64.0	2.1	2.1	13.0	9.0	0.0	0.0	0.0	1.1	0.3	9.8	0.0
9.1	9	0.78	52.12	47.09	79.0	0.6	0.6	8.6	0.9	0.3	0.0	0.0	0.0	0.3	7.1	1.5
9.9	10	4.06	44.12	51.82	77.0	4.1	4.1	4.4	11.0	0.0	0.0	0.0	1.7	0.0	1.4	0.0
10.7	11	0.32	43.27	56.41	68.0	3.3	3.3	5.3	4.1	0.0	0.0	0.0	0.0	0.0	6.1	0.0
12.2	12	1.65	38.27	60.08	37.0	1.2	1.2	29.0	3.8	0.0	0.0	0.0	0.0	0.0	25.0	0.0
12.8	13	90.68	4.24	5.08	95.0	2.2	2.2	1.9	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.0
13.0	14	18.32	58.07	23.60	64.0	5.2	5.2	6.5	1.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0
13.5	15	-	--	-	99.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0
14.5	16	-	-	-	82.0	3.6	3.6	0.0	13.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0
16.0	17	-	-	-	99.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
17.3	18	-	-	--	93.0	1.2	1.2	0.9	3.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0
19.0	19	-	-	-	94.0	1.2	1.2	0.9	2.4	0.0	0.0	0.0	0.9	0.3	0.0	0.0
20.5	20	-	-	-	95.0	1.6	1.6	0.0	2.5	0.0	0.0	0.0	0.3	0.0	0.0	0.3

APPENDIX 2.—Continued.

CORE S38

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
surf	36	18.14	41.90	39.96	87.0	2.5	1.4	6.1	0.0	0.0	1.9	1.1	0.0	0.0	0.0
2.1	37	25.62	27.28	47.10	78.0	3.4	2.1	3.0	0.0	0.0	0.9	9.5	0.9	0.0	0.0
2.3	1	23.88	41.32	34.80	49.0	1.7	3.0	3.0	0.0	0.0	0.3	41.0	0.8	0.0	0.0
3.0	2	84.42	10.14	5.44	83.0	4.7	0.2	9.6	0.4	0.2	0.7	1.3	0.0	0.0	0.0
4.6	3	6.99	21.33	71.68	70.0	4.7	5.4	6.3	0.0	0.0	0.3	2.5	8.8	0.0	0.0
5.6	4	66.27	17.41	16.33	82.0	3.7	1.7	10.0	0.7	0.0	1.0	0.7	0.0	0.0	0.0
5.9	5	94.39	2.60	3.01	89.0	2.9	0.3	6.1	0.0	0.0	0.3	1.0	0.0	0.0	0.0
3.8	6	-	-	-	88.0	3.2	0.3	6.1	0.0	0.0	1.7	0.3	0.0	0.0	0.0
7.3	38	0.14	46.09	53.77	72.0	1.7	2.2	1.1	0.0	0.0	0.0	0.0	21.0	0.0	0.0
7.9	7	0.71	47.95	51.33	31.0	1.8	27.0	0.0	0.6	0.0	0.0	0.0	37.2	0.0	0.0
9.4	8	69.33	23.39	7.28	74.0	2.9	6.0	14.0	0.0	0.0	1.7	0.9	0.0	0.0	0.0
11.0	9	72.37	16.94	10.69	77.0	4.0	3.4	9.2	1.2	0.0	4.0	1.2	0.0	0.0	0.0
11.9	39	1.55	47.2	51.25	12.0	0.2	50.0	2.2	0.0	0.0	0.0	8.0	22.5	0.0	0.0
12.8	10	7.23	40.12	52.65	68.0	2.8	5.6	4.7	2.3	0.0	0.5	0.9	14.2	0.0	0.0
13.7	11	89.75	6.27	3.98	53.0	1.5	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0
14.5	12	-	-	-	84.0	5.0	1.5	6.1	0.0	0.0	2.3	1.2	0.0	0.0	0.0
16.0	13	-	-	-	91.0	2.2	1.7	1.7	0.0	0.0	2.5	0.3	0.0	0.0	0.0
17.3	14	-	-	-	93.0	2.7	0.7	3.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0
18.6	15	10.10	30.61	59.29	77.0	2.0	0.0	0.2	0.0	0.0	0.2	21.0	0.0	0.0	0.0
19.4	40	3.19	24.06	72.75	97.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.5	16	1.8	32.91	65.29	82.0	0.7	0.3	2.3	0.0	0.7	0.3	7.6	0.0	0.0	0.0
20.4	17	3.13	51.58	45.29	60.0	1.0	4.5	6.8	0.0	0.0	1.3	26.0	0.0	0.0	0.0
20.7	41	1.39	48.12	50.50	66.0	0.9	7.5	5.1	0.0	0.0	0.3	20.0	0.0	0.0	0.0
21.5	18	0.98	33.53	65.49	11.0	0.8	0.8	0.0	0.0	1.1	0.0	78.0	0.0	0.0	0.0
21.9	42	0.16	2.88	96.96	91.0	3.3	4.2	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0
23.0	19	9.61	15.81	74.57	-	-	-	-	-	-	-	-	-	-	-
24.4	20	71.53	0.0	0.0	98.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.1	21	-	-	-	82.0	2.4	1.8	9.1	0.0	0.0	2.7	0.3	0.0	1.2	0.0
26.7	22	-	-	-	71.0	11.0	3.7	6.9	0.0	0.0	2.2	0.5	0.2	0.5	0.0
28.2	23	-	-	-	88.0	1.8	1.0	4.5	0.3	0.0	2.5	0.8	0.0	0.0	0.0
29.9	24	11.98	49.11	38.91	61.0	1.9	5.1	5.1	0.0	0.0	0.6	26.0	0.0	0.0	0.0

Insufficient Sand for Grain Count

APPENDIX 2.—Continued.

CORE S38		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
30.8	25	7.16	44.18	48.66	58.0	0.6	2.0	6.0	0.0	0.0	0.0	0.0	0.0	33.0	0.0	0.0	0.0
31.0	43	10.36	46.37	43.27	67.0	0.3	15.0	3.9	0.0	0.0	0.0	0.0	0.3	9.3	0.3	0.0	0.0
32.0	26	46.63	38.92	14.46	68.0	3.3	8.8	14.0	0.0	0.0	0.2	1.1	1.1	4.2	0.0	0.0	0.0
32.8	27	-	-	-	90.0	2.5	0.3	4.4	0.0	0.0	0.0	1.9	1.9	0.0	0.0	0.0	0.0
34.3	28	-	-	-	84.0	1.9	0.2	8.8	0.0	0.0	0.0	3.7	3.7	0.5	0.0	0.5	0.0
35.8	29	-	-	-	86.0	2.7	0.2	7.4	0.0	0.0	0.0	2.0	2.0	0.7	0.0	0.0	0.0
37.3	30	-	-	-	84.0	4.8	1.2	6.3	0.0	0.0	0.0	2.2	2.2	0.5	0.2	0.2	0.0
38.9	31	-	-	-	83.0	2.5	1.4	7.8	0.0	0.0	0.0	2.8	2.8	0.6	0.0	0.6	0.0
40.4	32	-	-	-	83.0	2.1	2.7	7.5	0.0	0.0	0.0	0.9	0.9	1.8	0.0	0.0	0.0
41.9	33	-	-	-	88.0	2.8	0.4	4.5	0.0	0.0	0.0	1.7	1.7	1.3	0.2	0.2	0.0
43.4	34	-	-	-	93.0	1.7	0.3	2.5	0.3	0.3	0.0	0.8	0.8	0.6	0.0	0.0	0.0
45.0	35	-	-	-	88.0	4.6	0.6	4.9	0.0	0.0	0.0	0.3	0.3	0.9	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S39		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
0.8	15	1.94	29.23	68.83	P	38.0	0.0	P	0.8	P	0.0	P	0.5	P	0.0	0.0	0.0
1.5	1	8.63	74.62	16.75	P	38.0	0.0	P	0.8	5.3	0.0	38.0	0.5	16.6	0.0	0.0	0.0
2.1	16	13.33	50.81	35.86	P	64.0	P	P	P	P	0.0	0.0	3.3	P	0.0	0.0	0.0
3.0	2	47.93	37.45	14.56	64.0	75.0	1.5	5.6	5.6	24.0	0.0	0.0	4.4	1.5	0.0	0.0	0.0
3.5	3	86.17	10.71	3.12	75.0	74.0	3.6	3.3	3.3	13.0	0.0	0.0	4.4	0.6	0.0	0.0	0.0
4.0	4	-	-	-	74.0	79.0	3.1	3.7	3.7	13.0	0.3	0.0	4.2	1.4	0.0	0.0	0.0
5.3	5	-	-	-	79.0	82.0	1.2	4.4	4.4	11.0	0.0	0.0	3.5	1.5	0.0	0.0	0.0
6.9	6	-	-	-	82.0	82.0	4.4	1.3	1.3	8.8	0.0	0.0	3.1	0.3	0.0	0.0	0.0
8.4	7	-	-	-	73.0	73.0	5.1	5.7	5.7	9.4	0.0	0.0	6.3	0.6	0.3	0.0	0.0
9.9	8	-	-	-	81.0	81.0	3.3	3.0	3.0	10.0	0.0	0.0	2.1	0.6	0.0	0.0	0.0
11.4	9	-	-	-	78.0	78.0	5.3	1.5	1.5	10.0	0.0	0.3	3.8	0.8	0.0	0.0	0.0
13.0	10	-	-	-	87.0	87.0	2.9	0.3	0.3	4.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0
14.0	17	0.21	7.80	92.00	99.0	99.0	1.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
14.3	11	4.40	16.06	79.54	43.0	43.0	1.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.2	12	68.63	20.56	10.81	96.0	96.0	2.7	0.0	0.0	1.0	0.0	0.0	0.0	54.0	0.0	0.0	0.0
16.0	13	-	-	-	81.0	81.0	6.4	0.5	0.5	6.7	0.0	0.0	5.2	0.0	0.0	0.0	0.0
17.5	14	-	-	-	85.0	85.0	5.1	0.3	0.3	5.1	0.0	0.0	3.5	0.9	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S40		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
3.0	1	49.91	11.42	38.67	95.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8	2	77.08	12.41	10.52	54.0	12.0	0.3	0.3	0.0	0.3	0.0	0.0	0.3	30.0	0.3	0.0	0.0
5.0	3	-	-	-	95.0	1.8	0.0	0.0	1.2	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
6.9	4	-	-	-	90.0	3.7	0.3	0.3	1.9	0.3	0.0	0.0	2.8	0.3	0.0	0.0	0.0
8.4	5	-	-	-	92.0	1.2	0.0	0.0	2.8	0.3	0.0	0.0	2.8	0.3	0.0	0.0	0.0
9.9	6	-	-	-	92.0	3.5	0.3	0.3	1.3	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0
11.4	7	-	-	-	91.0	2.0	0.0	0.0	2.6	0.0	0.0	0.0	3.4	0.0	0.0	0.6	0.0
13.0	8	-	-	-	87.0	1.6	1.1	1.1	4.6	0.3	0.0	0.0	4.1	1.4	0.0	0.0	0.0
14.8	9	3.95	48.03	48.03	43.0	1.7	13.0	1.0	5.2	1.1	0.0	0.0	0.3	0.0	32.7	0.0	0.0
15.8	9	36.35	37.15	26.50	48.0	2.2	11.0	0.6	22.0	0.3	0.0	0.0	4.1	4.4	6.7	0.0	0.0
16.8	10	-	-	-	90.0	2.6	0.6	0.6	3.4	0.0	0.0	0.0	1.4	0.6	0.3	0.0	0.0
18.1	11	-	-	-	94.0	1.5	0.3	0.3	1.2	0.0	0.0	0.0	0.6	1.5	0.0	0.0	0.0
19.7	12	-	-	-	95.0	1.5	1.0	1.0	1.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
21.1	13	-	-	-	97.0	0.5	0.2	0.2	1.2	0.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0
22.9	14	-	-	-	94.0	3.0	0.6	0.6	1.2	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
24.2	15	-	-	-	94.0	1.1	0.8	0.8	1.7	0.3	0.0	0.0	1.1	0.6	0.0	0.0	0.0
25.6	16	-	-	-	97.0	1.3	0.0	0.0	0.3	0.0	0.0	0.0	0.6	0.0	0.3	0.0	0.0
27.7	17	9.28	24.97	65.75	93.0	0.3	1.7	1.7	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.9	18	68.33	8.98	22.69	99.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
surf	43	98.33	1.30	0.37	85.0	12.0	0.0	1.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0
0.8	1	98.92	0.69	0.39	91.0	6.7	0.0	0.9	0.0	0.0	0.9	0.3	0.0	0.0	0.0
2.3	2	99.38	0.47	0.15	95.0	2.1	0.0	0.9	0.0	0.0	1.2	0.3	0.0	0.0	0.0
3.8	3	94.85	2.37	2.79	94.0	1.5	0.3	2.7	0.0	0.6	0.0	0.3	0.0	0.0	0.0
5.3	4	97.41	0.77	1.82	89.0	3.4	0.6	4.0	0.0	1.2	0.9	0.0	0.0	0.0	0.0
6.9	5	99.31	0.21	0.48	91.0	1.1	0.8	2.3	0.0	1.7	0.3	0.3	0.0	0.3	0.0
7.8	44	92.22	3.82	3.96		Insufficient Sand for Grain Count									
7.9	6	71.79	18.34	9.87	74.0	0.6	3.0	19.0	0.0	0.3	1.8	0.3	0.0	0.0	0.0
8.2	7	98.90	0.50	0.60	84.0	4.1	0.9	6.6	0.0	0.0	1.9	0.6	0.0	0.3	0.0
8.7	45	4.51	37.83	57.66	10.0	2.2	22.0	1.2	0.3	0.0	0.0	0.0	56.8	0.0	0.0
9.1	8	55.75	31.38	12.87	89.0	2.6	2.0	4.6	0.0	0.3	0.7	0.3	0.0	0.3	0.0
9.9	9	98.06	1.13	0.80	87.0	0.9	0.3	6.6	0.3	0.3	1.8	1.2	0.0	0.0	0.0
11.4	10	97.56	1.59	0.85	80.0	1.2	0.3	11.0	0.0	1.6	3.7	0.6	0.0	0.0	0.0
13.0	11	93.35	0.61	6.04	77.0	4.8	2.0	10.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0
13.9	12	94.04	4.06	1.90	82.0	3.9	1.2	6.6	0.6	0.0	4.8	0.9	0.0	0.0	0.0
14.2	46	21.49	34.91	43.60	84.0	3.4	3.1	3.7	0.0	0.0	2.8	1.2	0.9	0.0	0.0
15.5	13	51.62	38.05	10.34	84.0	4.2	0.6	6.3	0.6	0.0	4.2	0.3	0.0	0.0	0.0
15.7	14	96.93	1.86	1.21	83.0	1.8	1.6	9.2	0.0	0.0	3.4	0.8	0.0	0.0	0.0
16.6	15	92.93	4.12	3.66	92.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
18.3	16	63.20	27.97	8.83	84.0	1.8	1.8	12.0	0.0	0.0	0.8	0.0	0.0	0.3	0.0
18.6	17	96.02	2.70	1.29	79.0	4.3	3.4	8.2	0.3	0.0	4.0	0.0	0.0	0.0	0.0
19.1	47	18.99	45.83	35.19	76.0	1.2	4.7	6.1	0.3	0.0	3.5	1.2	5.3	0.0	0.0
20.1	18	59.18	18.81	22.01	75.0	2.0	8.8	3.0	0.0	0.0	0.0	0.0	9.0	0.5	0.0
20.7	19	97.89	1.44	0.67	88.0	4.8	0.8	3.1	0.0	0.0	2.2	0.0	0.0	0.6	0.0
22.1	20	95.31	3.06	1.63	82.0	5.9	0.3	8.2	0.0	0.0	2.0	0.3	0.0	0.3	0.0
23.5	21	91.47	5.52	3.01	85.0	2.7	1.5	7.6	0.3	0.3	0.9	0.6	0.0	0.3	0.0
24.2	48	2.35	28.99	68.66		Insufficient Sand for Grain Count									
24.4	22	4.67	31.95	63.38	37.0	1.2	2.9	4.1	0.3	0.0	0.3	28.0	0.0	0.0	0.0
25.0	23	9.28	46.27	44.46	69.0	3.9	3.9	5.0	0.0	0.3	0.6	15.6	0.0	0.0	0.0
25.6	24	8.65	47.95	43.40	66.0	0.3	5.8	1.3	0.0	0.0	0.3	1.9	0.0	0.0	0.0
26.4	49	1.76	54.00	44.24		Insufficient Sand for Grain Count									

APPENDIX 2.—Continued.

CORE S41		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
26.4	25	21.46	34.57	43.97	43.0	2.4	2.1	6.2	0.0	0.3	0.0	0.0	40.0	0.0	0.0	0.0	0.0
27.1	26	99.08	0.39	0.53	99.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28.2	27	-	-	-	79.0	1.6	2.1	8.7	0.0	1.3	0.0	0.8	4.7	0.0	0.3	0.0	0.0
29.7	28	98.62	0.55	0.83	97.0	0.6	0.0	0.0	0.0	0.3	0.0	0.9	0.0	0.0	0.0	0.0	0.0
31.2	29	89.40	4.94	5.66	82.0	6.1	1.1	4.5	0.0	2.6	0.0	2.9	1.3	0.0	0.5	0.0	0.0
32.8	30	94.25	3.41	2.33	84.0	5.2	0.9	6.9	0.0	0.0	0.0	1.4	1.7	0.0	0.0	0.0	0.0
34.3	31	97.40	1.45	1.15	92.0	3.8	0.0	2.3	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0
35.8	32	96.73	3.14	0.14	87.0	3.0	0.9	4.2	0.0	0.9	0.0	2.1	0.9	0.0	0.3	0.0	0.0
37.3	33	97.20	1.43	1.38	92.0	3.4	0.6	1.1	0.0	0.6	0.0	0.6	0.3	0.0	0.3	0.0	0.0
38.9	34	96.89	1.75	1.36	95.0	1.2	0.0	2.1	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0
40.4	35	97.86	1.26	0.87	94.0	2.1	1.1	1.9	0.0	0.5	0.0	0.5	0.3	0.0	0.0	0.0	0.0
41.9	36	93.57	3.60	2.83	86.0	5.2	0.9	4.9	0.0	0.0	0.0	2.9	0.3	0.0	0.0	0.0	0.0
43.4	37	98.05	0.89	1.06	95.0	1.5	0.0	1.7	0.0	1.5	0.0	0.6	0.0	0.0	0.0	0.0	0.0
45.0	38	97.70	1.17	1.13	88.0	6.4	0.3	2.4	0.0	0.0	0.0	1.9	0.5	0.0	0.0	0.0	0.0
46.5	39	97.50	1.08	1.42	91.0	3.0	0.5	3.5	0.0	1.1	0.0	0.8	0.5	0.0	0.0	0.0	0.0
48.0	40	95.34	2.33	2.33	86.0	8.1	0.0	2.7	0.0	0.9	0.0	1.2	0.9	0.0	0.0	0.0	0.0
49.5	41	94.76	3.14	2.10	94.0	1.5	0.6	2.9	0.0	0.6	0.0	0.6	0.6	0.0	0.0	0.0	0.0
51.1	42	95.92	2.31	1.78	90.0	2.1	0.9	3.0	0.0	1.5	0.0	1.5	1.2	0.9	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S42		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
0.0	33	99.08	0.38	0.54	64.0	33.0	0.0	1.2	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
1.5	1	-	-	-	85.0	12.0	0.0	1.8	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
2.3	2	-	-	-	91.0	0.6	0.6	3.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0
3.8	3	-	-	-	85.0	3.3	0.5	5.4	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0
5.3	4	-	-	-	82.0	1.7	1.4	9.1	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.3	0.0
6.9	5	-	-	-	86.0	1.2	0.5	5.3	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.2	0.0
8.3	6	-	-	-	90.0	3.3	0.6	1.5	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0
9.8	7	-	-	-	92.0	1.6	0.3	1.1	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0
11.4	8	-	-	-	40.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.5	0.0
13.1	9	-	-	-	90.0	1.8	0.0	2.4	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.6	0.0
14.7	10	-	-	-	88.0	2.6	0.5	3.3	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.5	0.0
16.0	11	-	-	-	81.0	2.1	0.5	3.7	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
17.5	12	-	-	-	87.0	3.5	0.0	2.9	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.5	0.0
19.1	13	-	-	-	87.0	3.5	0.8	4.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
20.1	14	-	-	-	87.0	3.6	0.0	6.0	0.0	0.0	0.0	0.0	1.3	0.0	0.3	0.5	0.0
20.7	34	13.32	45.26	41.42	73.0	1.5	6.7	7.9	0.0	7.3	0.0	0.0	2.3	1.7	3.8	2.3	0.0
21.2	15	58.47	28.07	13.46	67.0	2.5	10.0	0.0	0.0	0.0	0.0	0.0	2.5	0.5	9.4	0.0	0.0
22.0	16	-	-	-	85.0	3.6	0.0	5.9	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.3	0.0
23.1	35	11.41	38.66	49.93	40.0	3.8	13.0	0.9	0.0	0.0	0.0	0.0	0.9	2.6	34.0	0.3	0.0
23.2	17	85.86	9.03	5.11	91.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.9	18	-	-	-	82.0	4.0	0.9	7.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.3	0.0
25.1	19	-	-	-	84.0	3.2	0.2	6.2	0.0	6.2	0.0	0.0	4.7	0.0	0.0	0.0	0.0
26.7	20	-	-	-	70.0	2.1	1.9	3.3	0.0	3.3	0.0	0.0	2.6	0.0	0.0	0.5	0.0
28.2	21	-	-	-	86.0	4.0	0.6	3.7	0.0	3.7	0.0	0.0	2.8	0.6	0.0	0.0	0.0
29.7	22	-	-	-	90.0	4.5	0.3	2.0	0.0	2.0	0.0	0.0	0.9	0.3	0.0	0.3	0.0
31.2	23	-	-	-	85.0	3.0	0.3	6.8	0.0	6.8	0.0	0.0	2.5	0.3	0.0	0.5	0.0
32.8	24	-	-	-	90.0	2.9	0.3	3.4	0.0	3.4	0.0	0.0	1.1	0.0	0.0	0.3	0.0
34.3	25	-	-	-	88.0	4.4	0.3	4.1	0.0	4.1	0.0	0.0	0.9	0.3	0.0	0.3	0.0
35.8	26	-	-	-	91.0	4.0	0.3	3.7	0.0	3.7	0.0	0.0	1.0	0.0	0.0	0.0	0.0
37.3	27	-	-	-	97.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0
38.9	28	-	-	-	97.0	0.3	0.6	0.6	0.0	0.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0
40.4	29	-	-	-	93.0	2.9	0.3	1.3	0.0	1.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
41.9	30	-	-	-	96.0	1.0	0.0	1.4	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43.4	31	-	-	-	96.0	0.3	0.3	0.3	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.6	0.0
45.0	32	-	-	-	98.0	0.2	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S43

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
0.0	34	81.08	5.36	13.56	87.9	5.6	0.3	4.9	0.0	0.0	0.6	0.6	0.0	0.0	0.0
0.8	1	97.4	0.79	1.81	92.4	3.8	0.3	0.9	0.0	0.0	0.9	1.3	0.0	0.0	0.0
2.3	2	98.22	0.54	1.24	85.8	6.1	0.9	3.3	0.0	0.0	0.3	2.7	0.3	0.0	0.0
5.5	3	3.57	66.40	30.02	52.5	0.0	25.7	11.0	0.8	0.0	0.0	3.6	4.4	0.8	0.0
6.2	35	21.45	35.96	42.59	61.0	2.2	6.0	6.6	0.0	0.0	0.9	5.4	2.8	6.0	0.0
7.0	4	7.58	27.80	64.62	73.0	4.0	3.3	8.8	0.3	0.0	0.0	1.8	1.5	6.1	0.0
7.9	36	51.71	21.07	27.22	85.0	3.5	0.6	3.1	0.0	0.6	3.5	0.0	3.2	0.0	0.0
8.5	5	69.64	13.55	16.81	86.4	1.2	2.4	5.4	0.3	0.0	0.3	2.4	0.0	0.0	0.0
9.0	6	92.82	4.61	2.58	86.6	5.0	1.25	5.0	0.0	0.0	0.9	1.25	0.0	0.0	0.0
9.8	7	89.06	8.27	2.66	81.5	3.3	1.5	10.7	0.0	0.0	0.9	1.8	0.0	0.3	0.0
11.4	8	92.44	5.50	2.05	86.2	2.6	0.6	8.0	0.0	0.0	1.3	1.3	0.0	0.0	0.0
13.1	37	1.41	36.06	62.53											
13.7	9	3.79	30.75	65.46	52.8	1.2	0.5	3.2	1.9	0.0	0.0	38.0	0.5	0.0	0.0
14.5	10	70.41	16.89	12.71	83.3	1.3	0.96	12.0	0.3	0.96	0.0	0.96	0.0	0.0	0.0
14.9	11	88.85	8.31	2.84	91.0	4.3	0.0	3.6	0.0	0.3	0.3	0.7	0.0	0.0	0.0
16.0	12	88.36	7.63	4.00	86.0	2.2	0.6	5.8	0.0	0.6	1.0	2.2	0.0	0.0	0.0
17.5	13	94.47	3.22	2.31	91.0	2.1	1.8	1.2	0.0	0.0	1.5	0.3	0.3	0.3	0.0
18.6	14	18.96	20.98	60.06	95.0	1.9	0.6	0.9	0.0	0.6	0.0	0.0	0.0	0.0	0.0
18.9	15	88.66	7.33	4.01	94.0	5.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0
19.4	16	89.48	6.66	3.86	87.0	2.5	1.3	6.7	0.0	0.6	0.3	1.0	0.3	0.0	0.0
20.6	17	95.19	2.96	1.85	91.0	3.8	0.0	3.2	0.0	0.0	0.3	0.6	0.0	0.0	0.0
22.1	18	94.81	2.95	2.24	95.0	0.3	0.7	2.3	0.0	0.0	0.0	1.3	0.0	0.0	0.0
23.6	19	98.38	0.30	1.33	91.0	2.7	0.6	3.0	0.0	0.0	1.8	0.9	0.0	0.0	0.0
24.4	20	26.02	24.82	49.16	92.0	3.7	0.9	3.1	0.0	0.0	0.3	0.3	0.0	0.0	0.0
24.8	21	88.27	4.21	7.51	94.0	6.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.4	22	95.18	2.13	2.69	90.0	3.3	0.0	3.6	0.0	0.0	2.4	0.9	0.0	0.0	0.0
26.7	23	95.05	2.39	2.56	86.0	5.9	0.3	5.3	0.0	0.0	2.4	0.3	0.0	0.0	0.0
28.2	24	94.46	2.75	2.79	91.0	3.1	0.9	2.8	0.3	0.0	0.9	0.0	0.0	0.0	0.0
29.7	25	93.58	3.43	2.98	89.0	6.0	0.3	3.8	0.0	0.0	0.5	5.4	0.0	0.0	0.0
31.2	26	93.44	4.39	2.18	98.0	1.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.8	27	93.38	3.52	3.10	89.0	5.5	0.0	1.2	0.0	0.0	1.8	0.6	0.0	0.0	0.0

Insufficient Sand for Grain Count

APPENDIX 2.—Continued.

CORE S43		CARBON-14	OTH	RADIO	DIAT	PTER	BRYO	ECHN	SPNG	OSTR	SHLO	PSHF	PSHW	GSHF	GSHW	NO	DEPTH
																34	0.0
																1	0.8
																2	2.3
		4,620 +/- 120														3	5.5
																35	6.2
		5,610 +/- 110														4	7.0
																36	7.9
																5	8.5
																6	9.0
																7	9.8
																8	11.4
																37	13.1
																9	13.7
																10	14.5
																11	14.9
																12	16.0
																13	17.5
																14	18.6
																15	18.9
																16	19.4
																17	20.6
																18	22.1
																19	23.6
																20	24.4
																21	24.8
																22	25.4
																23	26.7
																24	28.2
																25	29.7
																26	31.2
																27	32.8

Insufficient Sand for Grain Count

APPENDIX 2.—Continued.

CORE S44		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
0.8	1	1.38	34.33	64.29	82	5.9	2.0	0.6	0.0	2.0	2.2	0.3	0.0	1.7		
3.0	2	11.12	42.44	46.44	27	0.0	3.8	1.9	0.0	0.0	0.7	0.0	59.0	0.0		
4.1	3	0.72	42.98	56.30	56	1.7	12.0	0.9	12.0	0.0	0.6	0.6	13.2	1.7		
5.2	4	0.78	73.66	25.55	6.6	0.3	45.0	1.0	0.3	0.0	0.0	3.0	39.0	0.0		
7.6	5	1.14	71.01	27.86	4.0	0.3	48.0	2.5	1.1	0.0	0.0	4.8	36.0	0.0		
8.5	6	13.55	56.40	30.05	54	0.3	8.8	13.0	0.3	0.0	0.0	4.7	11.3	0.9		
10.5	7	0.93	58.10	40.96	19	1.5	35.0	2.7	0.0	0.0	0.0	4.1	32.9	0.3		
14.5	8	44.87	28.38	26.75	92	2.7	1.5	3.0	0.0	0.0	0.6	0.0	0.0	0.0		
16.0	9	-	-	-	87	4.5	0.8	5.1	0.0	0.0	0.8	0.0	0.0	0.0		
17.5	10	-	-	-	91	2.5	1.6	3.1	0.0	0.0	1.2	0.0	0.0	0.0		
19.1	11	-	-	-	88	5.6	0.9	5.0	0.0	0.0	0.0	0.0	0.0	0.3		
20.6	12	-	-	-	92	3.3	0.5	3.6	0.0	0.0	0.5	0.0	0.0	0.0		

APPENDIX 2.—Continued.

CORE S45		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
2.4	1	71.55	17.49	10.96	74	4.1	2.9	13.0	0.0	0.0	0.0	2.6	2.3	0.0	0.0	
3.8	13	-	-	-	86	5.0	0.0	7.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	
5.3	14	-	-	-	86	3.5	0.9	6.8	0.0	0.0	0.0	2.4	0.0	0.0	0.3	
6.6	2	0.51	59.80	39.69	12	1.6	60.0	2.6	0.3	0.0	0.0	0.0	1.0	20.7	0.0	
8.2	3	1.82	48.90	49.28	7.6	0.3	26.0	0.8	0.0	0.0	0.0	0.0	0.0	61.4	0.0	
9.9	15	-	-	-	86	4.6	0.0	6.4	0.0	0.0	0.0	3.4	0.0	0.0	0.0	
12.0	4	2.44	48.63	48.93	25	0.0	35.0	2.0	0.0	0.0	0.0	0.0	0.0	35.0	0.0	
14.7	16	-	-	-	95	0.9	0.0	2.3	0.0	0.0	0.0	0.6	0.0	0.0	0.0	
16.0	17	-	-	-	85	3.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17.5	18	-	-	-	93	1.2	0.3	0.3	0.0	0.0	0.0	0.6	0.0	0.0	0.0	
18.6	5	19.01	41.79	39.20	88	2.2	1.3	2.2	0.0	0.0	0.0	0.0	6.0	0.0	0.0	
19.4	6	4.72	49.42	45.86	89	1.8	5.7	2.7	0.0	0.0	0.0	0.9	0.0	0.0	0.0	
20.2	8	1.88	53.61	44.51	73	1.8	15.0	1.6	0.0	0.0	0.0	1.0	6.5	0.0	0.0	
21.3	9	0.36	19.40	80.23	20	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22.1	10	0.12	14.19	85.69	83	11.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	
23.1	11	1.15	8.02	90.82	1	0.0	0.0	0.0	0.0	0.0	80.0	0.0	19.0	0.0	0.0	
24.1	12	1.22	6.61	92.16	1	0.0	0.0	0.0	0.0	0.0	35.0	0.0	40.0	14.0	0.0	
25.1	19	-	-	-	90	1.7	0.0	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.3	0.0
26.7	20	-	-	-	96	1.6	0.6	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
28.2	21	-	-	-	96	1.9	0.3	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
29.7	22	-	-	-	97	2.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S46		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
0.17	1	9.51	54.16	36.33	76.42	4.72	5.97	9.43	0.0	0.63	1.57	0.0	0.0	0.63		
1.52	2	11.83	51.46	36.71	85.21	1.78	0.3	10.95	0.0	0.3	0.89	0.59	0.0	0.0		
2.13	3	14.24	53.65	32.11	77.5	2.5	3.75	11.56	0.0	0.0	4.06	0.63	0.0	0.0		
9.96	4	62.75	26.27	10.98	89.63	1.52	3.05	3.66	0.0	0.0	2.13	0.0	0.0	0.0		
5.94	5	—	—	—	78.33	4.64	0.31	5.57	0.0	1.86	7.74	0.0	0.0	0.31		
6.4	6	9.20	27.69	63.11	43.73	0.96	1.29	2.89	0.96	0.0	0.0	0.96	4.5	22.6		
6.8	7	0.77	57.31	41.92	81.17	3.57	3.57	2.60	2.60	0.97	0.65	0.0	4.22	0.32		
7.62	8	12.74	74.75	12.51	66.67	4.58	3.27	23.2	0.0	0.0	0.65	0.0	0.0	0.0		
8.4	9	38.20	38.59	23.21	73.79	2.27	4.21	17.48	0.0	0.0	0.97	0.0	1.29	0.0		
8.95	10	8.74	69.72	21.54	50.15	0.62	5.23	39.38	0.0	0.62	0.0	1.54	1.23	0.0		
9.45	11	2.46	68.53	29.01	27.04	0.0	29.56	25.47	0.0	0.63	0.0	0.94	13.52	0.0		
10.40	12	4.62	62.43	32.95	56.83	0.31	9.32	4.35	0.0	0.0	0.0	0.0	35.09	0.0		
10.98	13	77.44	12.26	10.30	93.16	2.28	0.0	0.33	0.0	0.0	0.65	0.0	3.58	0.0		
11.6	14	—	—	—	84.11	6.95	0.33	6.62	0.0	0.0	1.32	0.0	0.0	0.0		
12.5	15	18.76	42.09	39.15	87.16	2.09	1.79	2.99	0.0	0.0	0.0	0.0	0.0	0.0		
13.11	16	57.50	31.01	11.50	86.69	3.25	3.57	5.52	0.0	0.32	0.65	0.0	0.0	0.0		
13.7	17	48.99	31.16	19.86	84.94	4.81	1.92	6.09	0.0	0.0	2.24	0.0	0.0	0.0		
14.5	18	—	—	—	85.76	5.18	2.27	2.59	0.0	0.0	2.59	0.0	0.0	0.0		
16	19	—	—	—	87.50	4.49	0.0	4.17	0.0	0.0	3.21	0.64	0.0	0.0		
17.4	20	—	—	—	85.76	9.29	0.31	1.86	0.0	0.93	1.55	0.0	0.0	0.0		
18.35	21	30.98	19.50	49.51	92.03	3.12	0.0	0.31	0.0	1.87	0.93	0.0	0.0	0.0		
18.8	22	49.12	27.54	23.34	93.57	0.96	0.32	3.22	0.0	0.0	0.96	0.96	0.0	0.0		
19.1	23	72.76	20.76	6.48	96.33	2.67	0.33	0.67	0.0	0.0	0.0	0.0	0.0	0.0		
19.44	24	—	—	—	86.36	8.44	0.32	0.97	0.0	1.9	1.30	0.0	0.0	0.0		
20.78	25	—	—	—	85.53	8.68	0.32	2.25	0.0	0.0	2.89	0.0	0.0	0.0		
22.11	26	—	—	—	84.62	7.69	0.64	2.56	0.0	0.32	2.56	0.64	0.0	0.0		
23.63	27	—	—	—	91.22	3.13	0.0	2.19	0.0	1.25	1.25	0.63	0.0	0.0		
25.16	28	—	—	—	87.46	4.39	0.0	0.94	0.0	2.82	3.45	0.0	0.0	0.0		
26.68	29	—	—	—	89.97	6.08	0.0	1.52	0.0	0.3	2.13	0.0	0.0	0.0		
28.21	30	—	—	—	89.34	5.64	0.0	1.25	0.0	1.25	2.51	0.0	0.0	0.0		
29.73	31	—	—	—	96.46	1.61	0.0	0.0	0.0	0.0	1.61	0.0	0.0	0.0		

APPENDIX 2.—Continued.

CORE S46		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
		31.11	32	-	-	-	96.72	1.64	0.33	0.33	0.0	0.0	0.98	0.0	0.0	0.0
		32.63	33	-	-	-	89.07	6.43	0.32	2.25	0.0	0.64	0.64	0.64	0.0	0.0
		34.31	34	-	-	-	94.29	4.44	0.0	0.63	0.0	0.0	0.32	0.0	0.32	0.0
		35.83	35	-	-	-	95.92	2.82	0.0	1.25	0.0	0.0	0.0	0.0	0.0	0.0
		37.36	36	-	-	-	98.02	0.99	0.0	0.33	0.0	0.0	0.66	0.0	0.0	0.0
		38.89	37	-	-	-	97.68	0.66	0.0	0.0	0.0	0.33	0.66	0.0	0.0	0.0
		40.41	38	-	-	-	97.07	1.63	0.0	0.33	0.0	0.0	0.33	0.33	0.0	0.0
		41.94	39	-	-	-	93.44	3.75	0.0	0.31	0.0	0.31	1.56	0.0	0.0	0.0
		43.46	40	-	-	-	92.83	4.98	0.0	1.25	0.0	0.31	0.31	0.0	0.0	0.0
		44.99	41	-	-	-	93.07	4.62	0.0	0.66	0.0	0.33	0.99	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S46													CARBON-14
DEPTH	NO	GSHF	PSHW	PSHF	SHLO	OSTR	SPNG	ECHN	DIAT	OTH			
0.17	1	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0			
1.52	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
2.13	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
9.96	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
5.94	5	0.31	0.0	0.31	0.0	0.62	0.0	0.0	0.0	0.0			
6.4	6	0.0	0.32	15.43	0.0	4.50	0.0	0.0	1.93	0.0			
6.8	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32			
7.62	8	0.0	0.0	0.0	0.0	0.0	0.65	0.98	0.0	0.0	7,130 +/- 80		
8.4	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8.95	10	0.0	0.0	0.0	0.0	0.0	0.31	0.92	0.0	0.0			
9.45	11	0.0	0.0	0.0	0.0	0.0	2.83	0.0	0.0	0.0			
10.40	12	0.0	0.0	0.0	0.0	0.0	1.24	0.0	0.62	0.0			
10.98	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,620 +/- 70		
11.6	14	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0			
12.5	15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12,940 +/- 240		
13.11	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
13.7	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
14.5	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.62			
16	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17.4	20	0.0	0.31	0.0	0.31	0.0	0.0	0.0	0.0	0.0			
18.35	21	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62			
18.8	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19.1	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19.44	24	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0			
20.78	25	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0			
22.11	26	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.64			
23.63	27	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
25.16	28	0.0	0.0	0.31	0.0	0.31	0.0	0.0	0.0	0.31			
26.68	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
28.21	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
29.73	31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32			

APPENDIX 2.—Continued.

CORE S47		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
	surf		1	61.48	2.65	35.86	86.00	12.33	0.0	1.33	0.0	0.0	0.0	0.0	0.0	0.0
	1.46		2	95.45	0.71	3.84	86.09	11.92	0.33	0.0	1.33	0.0	0.0	0.0	0.0	0.33
	1.78		39	19.20	16.65	64.15	67.00	5.67	4.00	5.00	0.0	0.0	4.67	0.0	0.67	4.34
	3.05		3	75.36	12.97	11.67	68.63	2.94	6.21	20.26	0.33	0.0	0.0	0.0	0.65	0.0
	3.50		4	67.38	16.15	16.47	73.36	5.59	2.3	9.87	1.31	0.0	0.0	0.0	0.99	1.32
	3.97		40	12.72	19.60	67.67	74.84	1.91	5.73	4.46	0.0	0.0	0.0	0.0	6.06	2.23
	5.33		5	68.32	11.13	20.55	87.42	4.3	0.0	0.99	0.0	0.0	0.0	0.0	0.0	1.55
	6.25		6	89.01	5.27	5.73	83.33	9.33	2.00	4.67	0.33	0.0	0.0	0.0	0.0	0.33
	6.93		7	87.60	5.90	6.49	74.67	9.54	2.63	4.60	0.0	0.0	0.0	0.0	0.99	0.99
	7.63		41	43.02	32.89	24.10	75.16	1.59	3.82	18.15	0.0	0.0	0.0	0.0	0.64	0.0
	8.54		8	32.09	32.73	35.18	69.54	8.94	5.3	9.6	1.65	0.0	0.0	0.0	4.3	0.0
	10.06		9	26.18	41.68	32.14	73.10	10.76	5.70	2.53	0.0	0.0	0.0	0.0	3.48	0.0
	10.83		42	39.45	39.17	21.39	63.92	3.08	8.54	22.78	0.0	0.0	0.0	0.0	0.63	0.0
	11.59		10	19.98	46.21	33.81	70.33	11.67	6.67	0.0	2.33	0.0	0.62	0.31	3.33	0.0
	12.35		43	15.36	54.43	30.21	59.63	3.73	11.49	22.36	0.0	0.0	0.0	0.0	0.62	0.0
	13.11		11	8.58	54.76	36.67	59.22	4.85	10.03	15.53	1.79	0.0	0.0	0.0	2.26	0.0
	13.85		44	10.91	53.41	35.68	47.49	1.47	12.98	31.56	0.0	0.0	0.0	0.0	4.13	0.0
	14.64		12	1.82	55.49	42.69	27.00	3.00	29.33	17.00	0.67	0.59	9.87	0.0	13.77	0.0
	16.16		13	6.37	45.78	47.84	19.08	2.63	15.13	19.41	2.96	0.0	9.87	0.0	22.03	0.0
	16.99		45	12.07	51.69	36.24	13.55	0.97	20.32	3.87	13.23	0.0	0.0	32.26	12.9	0.0
	17.69		14	6.76	42.36	50.88	38.74	2.98	10.93	15.89	0.66	0.0	0.0	4.3	20.19	0.0
	19.25		15	1.62	43.93	54.46	35.26	0.64	24.36	10.9	2.88	0.0	0.0	0.0	16.99	0.0
	20.74		16	4.69	25.43	69.88	77.07	0.0	0.0	1.59	19.11	0.0	0.0	0.0	2.23	0.0
	22.11		17	8.29	70.00	21.71	43.13	0.64	0.0	0.32	0.0	0.0	0.0	45.05	0.64	0.64
	22.96		46	85.22	4.81	9.97	95.39	1.32	0.0	0.33	0.0	0.0	0.66	0.0	0.0	0.0
	23.18		18	7.09	39.51	53.40	77.67	2.91	7.12	11.97	0.0	0.0	0.0	0.0	0.0	0.0
	24.09		19	77.77	9.87	12.36	86.35	1.27	1.9	9.20	0.63	0.0	0.64	0.0	0.0	0.0
	24.70		20	10.15	31.13	58.72	83.54	2.22	2.85	9.81	0.0	0.0	1.58	0.0	0.0	0.0
	25.62		21	40.83	30.53	28.65	81.23	1.94	3.56	11.65	0.0	0.0	1.62	0.0	0.0	0.0
	26.53		22	6.29	48.69	45.02	71.75	2.86	9.21	14.28	0.0	0.0	1.9	0.0	0.0	0.0
	27.45		23	70.65	16.39	12.96	89.39	9.00	0.0	0.63	0.0	0.0	0.99	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S47		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
28.36	24	10.12	46.54	43.34	82.08	7.5	3.58	5.86	0.0	0.0	0.0	0.0	0.98	0.0	0.0	0.0
29.28	25	24.31	43.41	32.28	69.84	16.39	5.57	7.21	0.0	0.0	0.0	0.0	0.98	0.0	0.0	0.0
29.89	26	1.08	2.77	96.15	81.09	4.81	0.0	0.64	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0
30.80	27	33.10	29.46	37.44	82.77	4.92	1.85	0.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31.72	28	7.06	39.08	53.86	86.69	7.74	1.54	2.79	0.0	0.0	0.0	0.0	1.24	0.0	0.0	0.0
33.09	29	0.12	28.65	71.23	91.05	3.19	0.0	3.83	0.0	0.0	0.0	0.0	1.28	0.32	0.0	0.0
34.31	30	7.86	29.85	62.29	92.06	2.54	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0
35.22	31	15.63	28.03	56.34	95.48	2.90	0.0	0.0	0.0	0.0	0.0	0.0	1.62	0.0	0.0	0.0
35.38	32	89.83	3.81	6.37	85.99	5.86	0.65	6.51	0.0	0.0	0.0	0.0	0.98	0.0	0.0	0.0
36.29	33	1.39	35.98	62.62	88.04	6.31	0.0	5.32	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0
37.36	34	9.53	12.04	78.43	66.12	6.25	0.0	0.66	0.0	0.0	0.0	0.0	0.66	0.0	0.0	9.87
37.82	35	89.89	3.61	6.50	92.03	2.67	3.99	0.0	0.0	0.0	0.0	0.0	1.32	0.0	0.0	0.0
38.96	36	95.04	1.81	3.15	90.76	4.29	0.66	3.30	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0
40.41	37	94.27	2.23	3.50	82.47	7.47	0.65	5.84	0.0	0.0	0.0	0.0	3.57	0.0	0.0	0.0
41.93	38	91.29	3.44	5.27	83.77	9.74	0.32	4.22	0.0	0.0	0.0	0.0	1.95	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S48

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	LITH	AGG	PLTM	FORB
surf	1	92.75	0.0	7.25	80.78	16.61	0.0	0.0	0.0	2.61	0.0	0.0	0.0
0.76	2	-	-	-	84.88	11.73	0.0	0.0	0.0	3.39	0.0	0.0	0.0
1.83	3	-	-	-	82.41	15.31	0.0	1.30	0.0	0.98	0.0	0.0	0.0
2.3	31	25.92	48.63	25.45	59.75	4.09	12.89	15.72	0.0	0.94	0.63	0.94	0.94
3.66	4	26.74	46.67	26.59	64.37	0.0	5.69	26.35	0.9	0.0	0.0	1.78	0.3
4.27	32	66.16	12.00	21.84	41.32	1.2	5.39	4.79	0.0	0.0	0.0	41.92	2.4
5.18	5	4.39	56.35	39.26	47.73	0.97	8.77	11.69	1.62	0.65	0.0	24.02	0.65
6.71	6	0.92	69.34	29.74	7.77	0.32	44.66	0.0	0.97	0.0	0.65	31.72	1.94
7.53	33	42.38	23.88	33.74	19.64	1.02	0.77	1.02	0.0	0.0	0.51	62.5	0.0
8.23	7	22.35	24.40	53.24	12.65	0.0	0.0	0.32	1.9	0.0	2.22	57.91	0.32
9.76	8	7.75	44.80	47.46	47.67	1.00	2.00	3.33	1.00	0.0	0.0	40.33	1.7
10.52	34	18.98	33.23	47.78	3.70	0.0	6.48	0.0	0.0	0.31	88.27	0.0	0.31
11.28	9	0.37	40.64	58.99	55.48	3.55	0.64	0.0	0.97	1.29	19.03	11.93	6.13
12.81	10	3.35	28.10	68.54	35.65	0.95	0.31	0.63	23.34	0.0	2.21	2.21	1.89
15.86	11	25.28	41.60	33.12	2.90	0.0	0.0	0.0	0.97	0.0	0.0	72.26	0.0
15.95	12	-	-	-	85.71	11.14	0.0	0.86	0.0	2.28	0.0	0.0	0.0
16.62	13	-	-	-	94.94	3.16	0.0	0.0	0.32	1.89	0.0	0.0	0.0
18.14	14	-	-	-	91.35	5.13	0.0	2.56	0.96	0.0	0.0	0.0	0.0
19.67	15	-	-	-	90.76	2.97	0.0	0.0	0.0	1.65	0.0	0.0	0.0
21.19	16	-	-	-	43.29	7.72	0.0	0.33	0.67	1.68	0.0	0.0	0.0
22.72	17	-	-	-	90.38	2.56	0.32	0.96	0.0	0.64	0.0	0.0	0.0
24.24	18	-	-	-	82.51	8.91	0.66	5.28	0.66	1.98	0.0	0.0	0.0
25.77	19	-	-	-	92.65	5.11	0.32	1.28	0.0	0.64	0.0	0.0	0.0
27.29	20	-	-	-	88.12	8.91	0.0	0.66	0.99	1.32	0.0	0.0	0.0
28.82	21	-	-	-	88.10	8.04	0.0	2.89	0.0	0.96	0.0	0.0	0.0
30.34	22	-	-	-	90.55	6.51	0.0	0.65	0.0	2.28	0.0	0.0	0.0
31.87	23	-	-	-	84.26	10.49	0.33	3.28	0.0	1.64	0.0	0.0	0.0
33.39	24	-	-	-	87.91	4.57	0.33	5.23	0.33	1.63	0.0	0.0	0.0
34.92	25	-	-	-	71.85	25.16	0.33	1.65	0.0	0.99	0.0	0.0	0.0
36.44	26	-	-	-	87.30	9.91	0.0	1.55	0.0	1.24	0.0	0.0	0.0
37.97	27	-	-	-	88.34	9.62	0.0	0.87	0.0	1.17	0.0	0.0	0.0
39.95	28	-	-	-	84.38	11.29	0.0	0.99	0.0	3.32	0.0	0.0	0.0
41.02	29	-	-	-	90.8	6.29	0.0	1.45	0.0	1.45	0.0	0.0	0.0
42.54	30	-	-	-	90.03	6.85	0.0	0.0	0.0	3.12	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S49

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM	FORP
surf	1	93.15	3.38	3.46	80.25	14.97	0.32	0.64	0.0	0.0	3.82	0.0	0.0	0.0
0.76	2	-	-	-	78.79	19.62	0.0	0.0	0.0	0.0	1.58	0.0	0.0	0.0
2.28	3	-	-	-	82.82	9.81	0.0	1.23	0.0	0.0	6.13	0.0	0.0	0.0
3.81	4	-	-	-	75.08	19.09	0.0	0.65	0.0	0.0	4.53	0.0	0.0	0.0
5.33	5	-	-	-	84.02	9.58	0.0	1.60	0.0	0.0	0.0	0.0	0.0	1.28
6.2	33	2.39	61.65	35.96	34.38	1.14	21.88	20.74	0.0	0.0	0.0	0.85	17.62	0.57
7.62	6	13.82	51.71	34.37	18.79	0.91	12.42	60.91	2.42	0.0	0.0	0.0	1.82	0.61
9.15	7	2.06	60.25	37.69	23.58	0.6	31.94	36.12	0.9	0.0	0.0	0.0	2.68	0.6
10.37	8	1.45	67.07	31.47	3.35	0.0	36.89	5.79	1.83	0.0	0.0	0.0	39.63	0.61
11.28	9	3.60	66.38	30.03	5.68	0.0	15.14	0.63	8.52	0.0	0.0	0.0	61.51	0.0
12.2	10	91.82	0.30	7.88	5.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.55	0.0
13.11	34	4.63	49.44	45.93	37.50	1.56	24.06	10.63	0.0	0.0	0.63	5.31	18.64	0.0
14.03	11	2.68	55.03	42.30	21.5	1.3	24.43	13.68	0.0	0.0	0.0	0.0	33.21	0.0
14.61	35	2.74	46.56	50.70	31.80	1.31	18.69	7.54	0.0	0.0	0.0	12.79	27.21	0.0
15.55	12	82.11	11.01	6.88	91.51	5.34	0.0	1.26	0.0	0.0	1.88	0.0	0.0	0.0
16.16	13	-	-	-	92.21	3.11	0.0	0.93	0.0	0.0	2.80	0.0	0.0	0.0
17.53	14	-	-	-	91.27	6.04	0.0	1.00	0.0	0.0	0.67	0.0	0.0	0.0
19.06	15	-	-	-	91.25	5.94	0.0	0.0	0.0	0.0	1.87	0.0	0.0	0.0
20.58	16	-	-	-	84.4	13.65	0.0	0.0	0.0	0.0	1.59	0.0	0.0	0.0
22.11	17	-	-	-	85.67	8.28	0.32	0.0	0.32	0.0	3.82	0.0	0.0	0.32
23.63	18	-	-	-	88.39	8.71	0.0	0.0	0.0	0.0	1.61	0.0	0.0	0.0
24.70	19	-	-	-	83.39	9.63	0.33	1.66	1.00	0.66	2.65	0.0	0.0	0.0
25.31	20	-	-	-	75.4	11.97	0.32	4.53	0.65	1.29	2.91	0.0	0.0	0.0
25.62	21	14.94	19.62	65.44	80.77	4.81	0.0	0.0	0.0	0.64	4.81	0.0	1.60	0.0
26.23	22	66.74	20.23	13.03	85.32	3.05	1.11	6.92	0.0	0.0	3.6	0.0	0.0	0.0
26.84	23	-	-	-	81.67	9.00	0.0	0.96	0.0	0.0	6.75	0.0	0.0	0.0
28.21	24	-	-	-	82.59	6.64	0.0	0.95	0.0	0.63	3.80	0.0	0.0	0.32
29.73	25	-	-	-	74.92	20.85	0.0	0.32	0.0	0.0	1.95	0.0	0.0	0.0
31.26	26	-	-	-	88.07	11.18	0.0	0.96	0.0	0.0	3.83	0.0	0.0	0.0
32.78	27	-	-	-	83.22	6.37	0.95	0.0	0.0	0.0	4.46	0.0	0.0	0.0
34.31	28	-	-	-	90.54	3.15	0.0	0.31	0.0	0.95	2.52	0.0	0.0	0.0
35.83	29	-	-	-	89.21	4.76	0.0	0.32	0.0	0.0	5.71	0.0	0.0	0.0
37.36	30	-	-	-	88.27	3.91	0.0	0.0	0.0	0.65	5.86	0.0	0.0	0.0
38.88	31	-	-	-	79.05	18.41	0.0	1.27	0.0	0.0	1.27	0.0	0.0	0.0
40.41	32	-	-	-	80.06	12.58	0.0	0.61	0.0	1.84	2.15	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S50

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
surf	1	92.94	3.63	3.43	81.40	16.46	0.0	0.0	0.0	0.0	2.13	0.0	0.0	0.0
0.76	2	-	-	-	83.11	13.91	0.0	0.66	0.0	0.0	1.99	0.0	0.0	0.0
2.28	3	-	-	-	84.06	10.31	0.94	0.94	0.0	0.0	2.81	0.0	0.62	0.0
3.81	4	-	-	-	80.97	10.57	0.0	1.51	0.0	0.0	3.93	0.0	0.6	0.0
4.7	32	3.39	58.98	37.63	34.09	11.32	11.95	30.82	3.77	0.63	0.94	0.63	3.14	0.0
6.1	5	45.98	34.26	19.76	62.93	1.60	3.83	30.35	0.0	0.0	1.28	0.0	0.0	0.0
6.55	6	57.21	21.48	21.30	68.83	0.62	4.01	24.69	0.0	0.0	0.92	0.0	0.62	0.0
6.91	7	-	-	-	64.01	0.88	1.18	30.09	0.59	0.0	0.0	0.0	0.29	0.29
7.32	8	9.61	74.47	15.92	49.18	0.98	12.46	31.47	0.0	0.0	0.65	0.98	1.31	0.0
8.84	9	61.45	16.96	21.58	15.36	0.0	0.63	0.31	0.31	0.0	0.0	0.0	77.11	0.0
9.6	33	37.90	10.99	51.11	1.28	0.0	0.0	0.0	0.64	0.0	0.0	0.0	97.76	0.0
10.67	10	2.44	45.97	51.59	41.03	1.03	4.83	3.10	10.34	0.0	0.69	0.0	37.93	0.0
11.44	34	19.67	40.26	40.07	64.01	4.78	5.73	21.66	0.0	0.0	1.91	0.0	0.96	0.0
12.2	11	69.11	14.44	16.45	78.95	2.17	0.93	8.98	0.0	0.0	8.36	0.0	0.62	0.0
13.26	12	32.13	42.29	25.57	72.85	1.71	2.28	19.71	0.0	0.0	1.71	0.86	0.0	0.0
14.26	35	34.62	34.92	30.46	61.44	13.73	6.21	11.11	0.0	0.33	3.59	0.0	2.61	0.0
15.25	13	16.51	49.98	33.52	74.4	3.01	3.61	14.16	0.0	0.0	3.01	0.0	1.20	0.0
16.77	14	7.66	38.00	54.34	6.93	0.0	0.0	0.33	0.0	0.0	0.0	23.76	58.41	0.0
18.3	15	3.93	61.54	34.53	54.4	0.65	10.75	15.63	0.0	0.0	0.0	1.3	15.31	0.0
19.06	36	13.43	42.25	44.32	31.72	0.65	5.18	1.29	0.0	0.0	0.0	52.10	7.12	0.0
19.82	16	4.96	63.11	31.93	67.28	0.0	4.01	20.99	0.0	0.0	0.0	0.0	6.17	0.0
20.75	37	20.45	37.16	42.39	7.17	0.0	1.95	0.65	0.0	0.0	0.0	85.34	3.91	0.0
21.35	17	3.98	61.88	34.14	10.47	0.0	2.86	0.63	0.0	0.0	0.0	77.46	7.3	0.0
22.87	18	4.08	52.00	43.91	21.27	0.63	9.20	0.63	0.0	0.0	0.0	55.55	12.06	0.0
23	19	0.37	54.94	44.70	35.44	0.0	20.00	0.0	0.0	0.0	0.0	1.05	39.65	0.0
24.24	20	42.82	37.90	19.28	8.67	0.33	1.00	0.0	0.0	0.0	0.0	2.67	84.67	0.0
24.70	21	9.39	39.15	51.46	93.75	1.25	0.31	0.62	0.0	0.0	0.94	0.0	1.25	0.0
24.92	38	8.69	39.99	51.31	81.29	1.61	3.87	2.9	0.97	0.65	0.65	0.0	0.0	0.0
26	39	23.03	42.35	34.62	80.06	1.93	3.54	11.90	0.0	0.64	1.93	0.0	0.0	0.0
26.84	22	35.48	33.79	30.73	80.49	3.40	3.40	10.53	0.93	0.0	1.24	0.0	0.0	0.0
27.90	23	-	-	-	92.88	3.09	0.0	1.55	0.0	0.0	2.47	0.0	0.0	0.0
29.74	24	-	-	-	92.38	5.79	0.0	0.3	0.0	0.0	0.91	0.0	0.0	0.0
31.26	25	-	-	-	93.77	2.95	0.33	0.98	0.0	0.0	1.97	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S50		SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
DEPTH	NO													
32.78	26	-	-	-	94.23	3.52	0.0	0.96	0.0	0.0	0.64	0.0	0.0	0.0
34.31	27	-	-	-	92.13	4.59	0.0	0.33	0.0	0.0	2.62	0.0	0.0	0.0
35.83	28	-	-	-	98.05	1.62	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0
37.36	29	-	-	-	93.81	2.60	0.0	0.32	0.0	0.0	3.25	0.0	0.0	0.0
38.88	30	-	-	-	93.46	3.92	0.0	0.33	0.0	0.0	2.29	0.0	0.0	0.0
40.41	31	-	-	-	96.71	0.99	0.33	0.0	0.0	0.0	1.97	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S51		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
0.38	27	17.27	51.79	30.94	28.53	2.51	3.76	2.51	3.76	2.51	0.0	0.0	0.0	61.44	1.25	0.0
1.52	1	6.39	58.61	35.00	57.72	2.78	5.25	16.98	5.25	16.98	0.0	0.0	0.0	15.74	0.93	0.0
2.75	2	22.07	41.19	36.74	74.84	2.8	1.55	16.46	1.55	16.46	0.0	0.0	3.11	0.62	0.62	0.0
4.27	3	0.58	22.93	76.49	74.27	1.95	4.89	8.47	4.89	8.47	0.65	0.0	0.0	2.93	6.19	0.66
4.37	28	1.93	14.16	83.91	48.87	2.25	5.79	40.84	5.79	40.84	0.0	0.0	0.64	1.29	0.32	0.0
5.60	29	10.20	7.55	82.25	3.26	0.65	1.63	1.95	1.63	1.95	0.0	0.0	0.0	0.0	92.51	0.0
6.1	4	5.81	29.17	65.03	81.15	3.51	1.92	9.27	1.92	9.27	0.0	0.0	1.6	0.96	1.28	0.0
6.84	30	1.39	20.89	77.72	48.71	0.97	4.84	24.19	4.84	24.19	0.0	0.0	0.0	0.65	20.65	0.0
7.63	5	3.40	50.00	46.60	69.54	0.62	5.23	16.00	5.23	16.00	6.15	0.0	0.31	0.62	0.92	0.0
8.38	31	7.60	48.47	43.93	64.01	2.23	7.64	17.20	7.64	17.20	2.23	0.0	0.64	0.0	4.14	0.0
9.15	6	9.24	51.92	38.85	73.86	1.2	3.36	16.07	3.36	16.07	0.48	0.0	2.4	0.0	1.92	0.0
10.68	7	3.03	57.44	39.53	70.30	0.66	8.91	13.53	8.91	13.53	0.33	0.0	0.0	0.99	2.64	0.0
11.23	32	7.00	51.82	41.18	67.51	3.47	11.36	10.09	11.36	10.09	0.63	0.0	1.89	0.0	3.15	0.0
12.3	33	19.88	43.82	36.30	76.92	3.21	4.49	9.29	4.49	9.29	0.0	0.0	1.60	0.0	4.17	0.0
13.12	8	75.02	17.93	7.05	83.96	7.86	1.26	5.66	1.26	5.66	0.0	0.0	1.26	0.0	0.0	0.0
14.03	9	-	-	-	81.21	11.78	0.32	3.82	0.32	3.82	0.0	0.32	2.23	0.32	0.0	0.0
15.86	10	-	-	-	84.66	4.15	0.0	5.75	0.0	5.75	0.0	2.24	3.19	0.0	0.0	0.0
17.54	11	-	-	-	89.07	6.75	0.0	0.96	0.0	0.96	0.0	0.0	3.22	0.0	0.0	0.0
19.06	12	-	-	-	88.67	4.53	0.0	2.59	0.0	2.59	0.32	0.97	2.91	0.0	0.0	0.0
20.59	13	-	-	-	88.22	6.69	0.0	0.96	0.0	0.96	0.0	0.0	4.14	0.0	0.0	0.0
22.11	14	-	-	-	91.69	3.38	0.0	1.54	0.0	1.54	0.0	0.0	3.38	0.0	0.0	0.0
23.64	15	-	-	-	91.17	4.73	0.0	1.26	0.0	1.26	0.0	0.0	2.84	0.0	0.0	0.0
25.16	16	-	-	-	88.92	4.11	0.63	3.48	0.0	3.48	0.0	0.0	2.85	0.0	0.0	0.0
26.69	17	-	-	-	92.4	2.13	0.0	4.26	0.0	4.26	0.0	0.3	0.61	0.30	0.0	0.0
28.21	18	-	-	-	96.04	3.63	0.0	0.33	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0
29.74	19	-	-	-	96.84	1.27	0.0	0.95	0.0	0.95	0.0	0.0	0.95	0.0	0.0	0.0
31.26	20	-	-	-	98.08	0.64	0.0	0.64	0.0	0.64	0.0	0.0	1.28	0.0	0.0	0.0
32.79	21	-	-	-	94.12	1.96	0.0	0.65	0.0	0.65	0.33	0.0	2.94	0.0	0.0	0.0
34.31	22	-	-	-	86.12	8.20	0.32	3.79	0.32	3.79	0.0	0.0	1.26	0.0	0.0	0.0
35.84	23	-	-	-	92.35	2.75	0.0	3.67	0.0	3.67	0.0	0.0	1.22	0.0	0.0	0.0
37.36	24	-	-	-	93.17	0.93	0.0	3.73	0.0	3.73	0.0	0.0	0.62	0.31	0.31	0.0
38.89	25	-	-	-	96.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.31	0.0	0.0	0.0
40.41	26	-	-	-	96.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.92	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S52

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	PLTM	FORB
surf	1	1.59	24.24	74.18	72.40	0.97	0.65	12.99	0.0	0.97	0.65	4.22	2.92
0.3	2	2.65	27.09	70.27	67.78	4.07	3.33	4.44	0.0	0.0	6.67	4.44	2.96
1.68	29	14.10	25.89	60.01	26.54	0.65	1.94	1.29	0.65	0.0	62.78	1.29	1.62
2.29	30	53.20	6.08	40.71	5.30	0.0	0.0	0.66	0.0	0.0	0.0	90.72	0.0
3.2	3	81.39	10.77	7.84	75.16	3.27	1.96	18.30	0.0	0.65	0.65	0.0	0.0
4.73	4	70.82	16.65	12.53	80.43	3.42	0.62	12.42	0.0	2.17	0.0	0.0	0.0
6.25	5	1.09	61.71	37.20	23.58	0.0	46.86	6.60	3.14	0.31	1.26	11.63	0.62
7.09	31	4.84	54.01	41.16	42.48	1.31	9.15	1.96	1.31	0.0	18.95	16.99	0.0
7.78	6	94.06	2.84	3.10	19.29	0.64	2.57	2.25	0.0	0.0	0.0	73.95	0.0
8.03	32	40.12	18.57	41.30	31.41	0.0	0.64	0.64	0.0	0.0	0.0	66.03	0.0
9.3	7	39.97	31.03	28.99	80.19	1.28	2.56	12.46	0.0	2.56	0.32	0.64	0.0
10.00	33	54.04	23.05	22.91	76.19	6.98	5.40	9.84	0.32	0.95	0.0	0.32	0.0
10.83	8	6.20	38.15	55.65	51.18	0.89	1.18	6.8	1.48	0.59	0.0	37.87	0.0
11.97	34	11.37	10.07	78.56	63.21	3.77	1.26	0.94	5.35	0.0	2.52	22.96	0.0
12.35	9	73.00	14.49	12.51	97.06	2.61	0.0	0.33	0.0	0.0	0.0	0.0	0.0
12.9	10	-	-	-	89.34	5.02	0.31	4.08	0.63	0.63	0.0	0.0	0.0
14.5	11	-	-	-	85.44	6.65	1.58	4.43	0.32	0.95	0.32	0.0	0.0
16	12	-	-	-	83.71	5.43	0.64	9.58	0.0	0.64	0.0	0.0	0.0
17.54	13	-	-	-	91.15	3.69	0.0	2.46	0.0	2.7	0.0	0.0	0.0
19.06	14	-	-	-	89.31	4.46	0.32	2.55	0.0	2.87	0.0	0.0	0.0
20.6	15	-	-	-	87.38	5.99	0.95	4.73	0.0	0.95	0.0	0.0	0.0
22.1	16	-	-	-	89.27	5.36	0.0	4.1	0.0	1.26	0.0	0.0	0.0
23.64	17	-	-	-	88.67	5.50	0.32	3.88	0.32	1.29	0.0	0.0	0.0
25.16	18	-	-	-	86.89	5.25	0.0	3.93	0.0	3.93	0.0	0.0	0.0
26.7	19	-	-	-	86.65	4.97	5.59	0.0	0.0	2.8	0.0	0.0	0.0
28.21	20	-	-	-	87.01	8.12	0.32	2.92	0.0	0.97	0.65	0.0	0.0
29.74	21	-	-	-	92.95	5.77	0.0	0.64	0.0	0.64	0.0	0.0	0.0
31.3	22	-	-	-	87.5	9.69	0.0	0.63	0.0	2.19	0.0	0.0	0.0
32.8	23	-	-	-	90.19	6.01	0.0	0.63	0.0	3.16	0.0	0.0	0.0
34.3	24	-	-	-	88.78	6.09	0.32	3.21	0.0	1.6	0.0	0.0	0.0
35.8	25	-	-	-	90.00	5.59	0.0	3.24	0.0	1.18	0.0	0.0	0.0
37.4	26	-	-	-	89.00	7.77	0.0	2.59	0.0	0.65	0.0	0.0	0.0
38.9	27	-	-	-	87.62	6.67	0.63	2.86	0.0	2.22	0.0	0.0	0.0
40.4	28	-	-	-	87.54	7.79	0.0	2.8	0.0	1.25	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S53		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
	surf		1	1.62	45.02	53.36	14.02	3.12	8.41	1.87	0.0	0.0	0.0	47.98	15.27	3.43
	1.52		2	2.18	48.96	48.86	13.96	1.62	6.17	1.62	0.0	0.0	0.0	53.57	11.69	3.57
	2.29		19	5.02	25.12	69.85	66.47	4.49	2.56	1.28	2.56	0.96	0.0	0.64	20.51	0.0
	3.00		3	0.31	10.20	89.49	28.80	0.0	1.62	0.0	22.33	0.0	0.0	3.88	40.13	0.32
	3.15		20	14.36	54.72	30.93	6.31	0.66	1.33	0.66	1.33	0.0	0.0	0.0	50.16	1.00
	4.60		4	12.01	35.91	52.08	17.61	0.0	3.28	0.60	11.64	0.0	0.0	0.0	60.19	0.0
	5.19		21	9.24	57.74	33.01	66.35	2.20	5.66	18.24	6.29	0.0	0.0	0.0	0.0	0.0
	6.71		22	1.25	19.00	79.75	9.09	0.0	0.0	0.32	48.70	0.0	0.0	0.0	38.97	0.0
	7.62		5	1.94	38.55	59.52	12.10	0.32	4.14	2.55	26.43	0.0	0.0	0.64	53.19	0.0
	8.24		23	3.67	26.93	69.40	5.98	0.0	1.00	0.0	9.30	0.0	0.0	0.0	77.07	0.0
	9.15		6	56.59	14.00	29.41	6.62	0.0	0.0	0.0	1.58	0.0	0.0	1.89	89.90	0.0
	10.70		7	68.81	0.00	31.19	11.04	0.0	1.3	0.0	0.0	0.0	0.0	0.65	83.76	0.0
	10.98		24	28.56	35.81	35.63	91.96	0.96	0.96	1.61	4.18	0.0	0.32	0.0	0.0	0.0
	11.90		8	21.90	29.24	48.85	85.58	1.25	4.39	1.25	6.27	0.0	0.0	0.0	1.25	0.0
	12.66		25	0.43	46.87	52.69	91.80	1.97	0.0	0.66	0.0	0.0	0.66	0.0	1.64	0.0
	14.03		9	13.34	38.29	48.37	75.96	2.56	5.77	1.60	0.32	3.21	0.0	0.64	0.0	0.0
	14.79		26	1.47	4.86	93.67	65.27	3.54	13.50	15.76	0.32	0.0	1.61	0.0	0.0	0.0
	15.60		10	77.71	12.87	9.42	88.22	7.96	1.27	1.91	0.0	0.0	0.64	0.0	0.0	0.0
	16.16		11	-	-	-	82.75	15.02	0.32	0.32	0.0	0.0	1.6	0.0	0.0	0.0
	17.52		12	-	-	-	90.91	2.92	1.3	2.6	0.0	0.0	2.27	0.0	0.0	0.0
	19.06		13	-	-	-	88.06	8.06	0.32	2.90	0.0	0.0	0.65	0.0	0.0	0.0
	20.59		14	-	-	-	87.42	8.39	0.0	2.26	0.0	0.0	1.94	0.0	0.0	0.0
	22.11		15	-	-	-	89.00	7.12	0.32	1.62	0.0	0.0	0.0	0.65	0.0	0.0
	23.64		16	-	-	-	90.48	8.25	0.0	0.63	0.0	0.0	0.63	0.0	0.0	0.0
	25.16		17	-	-	-	88.67	8.41	0.0	0.65	0.0	0.0	0.65	0.97	0.0	0.0
	26.68		18	-	-	-	93.29	4.15	0.0	1.60	0.0	0.0	0.96	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S54

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM
surf	1	6.03	51.20	42.77	51.53	3.07	14.42	12.88	0.0	0.0	0.0	5.52	3.07
1.53	14	11.97	35.83	52.20	72.40	1.30	3.57	15.91	0.0	0.0	0.32	2.27	0.0
3.05	2	4.93	46.98	48.08	69.06	1.25	10.31	17.50	0.0	0.0	0.31	0.0	1.56
3.64	15	4.99	23.75	71.26	28.20	1.31	7.21	2.95	0.0	4.26	0.0	8.20	0.98
4.6	3	0.36	28.22	71.43	62.88	0.61	8.28	4.91	0.0	2.76	0.0	0.92	4.6
6.1	4	0.44	23.96	75.60	11.3	0.0	0.66	1.66	0.0	0.0	0.0	5.65	35.21
7.01	16	1.41	34.03	64.56	25.94	0.63	7.81	2.19	0.94	0.0	0.0	0.0	56.25
7.6	5	69.05	3.72	27.23	1.62	0.0	0.32	0.0	0.0	5.19	0.0	0.0	87.99
8.24	17	74.60	2.31	23.09	0.95	0.0	0.63	0.0	0.0	5.05	0.0	0.0	92.75
9.15	6	75.79	2.74	21.47	0.64	0.0	0.32	0.0	0.0	0.0	0.0	0.0	88.43
10.06	18	75.73	9.01	15.26	64.00	0.62	0.92	0.31	0.0	0.0	0.0	10.46	14.77
10.14	19	33.38	32.03	34.59	92.43	2.96	1.32	0.66	0.66	0.0	0.66	0.0	0.0
10.67	7	13.12	51.38	35.50	80.37	1.25	6.23	6.85	0.62	2.80	0.93	0.0	0.0
11.3	8	80.59	12.67	6.74	91.82	6.36	0.0	0.0	0.0	0.0	0.61	1.21	0.0
12.66	11	-	-	-	88.24	7.19	1.96	0.33	0.0	0.0	2.29	0.0	0.0
14.03	20	20.84	44.37	34.79	78.02	4.02	4.33	5.26	0.0	0.0	2.79	0.0	0.0
15.25	9	2.61	10.77	86.62	2.93	0.0	1.3	0.0	0.0	5.86	0.0	79.15	1.30
15.86	21	0.11	6.12	93.77	67.90	8.02	0.0	0.0	0.62	0.0	0.62	15.43	0.0
16.47	10	72.91	3.39	23.70	94.44	3.27	0.0	0.0	0.0	0.0	0.65	0.0	0.0
17.23	12	-	-	-	84.97	5.88	1.31	4.25	0.0	0.0	3.59	0.0	0.0
18.75	13	-	-	-	90.55	3.58	0.65	1.30	0.0	0.65	0.98	2.28	0.0

APPENDIX 2.—Continued.

CORE S55		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM
	surf	10.30	1	—	58.21	31.50	69.58	2.91	0.0	10.36	0.0	7.77	0.32	4.85	3.89
	0.91	3.47	2	—	44.15	52.38	66.67	1.25	5.61	16.82	0.0	0.0	0.0	2.80	0.62
	1.83	2.84	3	—	49.30	47.86	62.15	3.15	15.77	16.72	0.63	0.0	0.0	0.63	0.0
	2.59	—	9	—	—	—	93.87	2.9	0.0	1.61	0.0	0.97	0.65	0.0	0.0
	3.36	8.66	16	—	9.85	81.49	61.35	1.53	0.61	2.15	0.0	0.0	2.15	0.0	10.73
	4.88	6.59	4	—	56.90	36.52	58.17	1.15	3.44	36.10	0.29	0.0	0.0	0.0	0.86
	5.57	1.90	17	—	14.37	83.74	41.28	0.0	7.65	5.5	5.2	0.0	0.0	0.0	40.37
	6.4	1.11	5	—	65.56	33.34	8.74	0.97	24.92	0.65	25.57	0.0	2.59	0.0	30.42
	7.02	1.00	18	—	40.79	58.21	25.00	0.32	2.88	1.92	43.59	0.0	0.0	0.0	24.68
	8.08	74.54	6	—	3.12	22.34	1.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.06
	8.77	30.87	19	—	37.22	31.91	80.65	2.93	4.11	0.29	2.35	0.0	0.59	0.0	0.29
	9.45	11.86	7	—	33.59	54.55	90.31	1.56	0.63	5.63	0.0	0.0	0.63	0.0	0.0
	9.74	34.76	20	—	31.02	34.22	87.62	0.95	2.54	0.32	2.54	1.27	0.0	0.0	1.59
	10.37	66.01	8	—	20.78	13.21	92.56	4.21	0.97	1.94	0.0	0.0	0.32	0.0	0.0
	11.28	—	10	—	—	—	87.70	3.15	0.0	6.94	0.0	0.0	2.21	0.0	0.0
	12.96	—	11	—	—	—	90.51	3.8	0.32	3.16	0.63	0.0	0.95	0.63	0.0
	14.5	—	12	—	—	—	96.21	2.21	0.0	0.95	0.0	0.0	0.63	0.0	0.0
	16.01	—	13	—	—	—	92.51	5.31	0.0	1.21	0.48	0.0	0.48	0.0	0.0
	17.54	—	14	—	—	—	91.61	6.45	0.0	0.0	0.65	0.0	1.29	0.0	0.0
	19.06	—	15	—	—	—	95.02	1.99	0.0	1.33	0.0	0.0	1.66	0.0	0.0

APPENDIX 2.—Continued.

CORE S56

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	LITH	AGG	PLTM
surf	1	31.80	39.62	28.59	58.97	10.68	5.98	4.27	1.28	0.0	9.83	0.0
0.92	2	0.75	51.09	48.16	44.33	3.00	13.33	3.00	1.33	0.0	28.67	3.00
1.49	16	1.09	92.50	6.41	4.43	0.32	1.58	0.95	0.0	0.0	88.92	0.0
2.44	3	72.97	21.55	5.47	63.47	7.78	10.78	13.47	0.6	0.0	0.0	0.0
3.36	4	-	-	-	58.23	8.23	18.67	13.61	0.63	0.0	0.32	0.32
5.03	17	65.87	27.05	7.08	68.73	10.42	3.26	13.68	0.0	0.0	0.0	0.0
5.49	5	59.80	26.96	13.24	74.09	5.18	15.03	4.66	0.52	0.0	0.0	0.0
6.25	6	-	-	-	66.57	5.76	12.39	12.39	2.88	0.0	0.0	0.0
7.32	7	-	-	-	54.73	10.03	17.48	15.47	1.15	0.0	0.0	0.86
7.72	18	.75	88.91	10.35	28.25	10.16	31.75	6.03	0.0	0.0	10.48	11.11
8.58	19	28.93	58.11	12.96	35.00	12.06	17.06	25.00	0.29	0.0	0.0	7.06
9.15	8	73.82	18.96	7.22	80.78	6.91	5.11	4.2	2.1	0.0	0.9	0.0
9.91	9	-	-	-	68.86	8.08	11.98	7.78	0.0	2.1	0.0	1.2
11.44	10	-	-	-	60.50	12.71	12.71	11.88	0.83	0.0	1.38	0.0
12.96	11	-	-	-	60.59	14.41	11.76	10.59	1.47	0.29	0.59	0.0
14.49	12	-	-	-	60.31	15.08	10.15	10.77	1.54	0.0	0.31	0.62
16.01	13	-	-	-	62.87	8.97	13.17	11.98	1.2	0.0	0.6	0.6
17.54	14	-	-	-	62.45	5.73	12.89	14.04	0.57	0.0	1.15	2.59
19.06	15	-	-	-	64.65	13.6	9.4	9.4	1.8	0.6	0.0	0.6

APPENDIX 2.—Continued.

CORE S56												CARBON-14
DEPTH	NO	GSHW	PSHW	PSHF	SPNG	ECHN	OTH					
surf	1	0.0	0.0	0.0	0.0	0.0	8.97					
0.92	2	0.0	0.0	0.0	0.0	0.0	3.33					
1.49	16	0.0	0.0	0.0	0.63	0.0	3.16					
2.44	3	0.0	0.0	0.0	0.0	0.0	3.89					
3.36	4	0.0	0.0	0.0	0.0	0.0	0.0					
5.03	17	0.0	0.0	0.0	0.0	0.0	3.91					
5.49	5	0.0	0.0	0.0	0.0	0.0	0.52					
6.25	6	0.0	0.0	0.0	0.0	0.0	0.0					
7.32	7	0.0	0.0	0.0	0.0	0.0	0.29					
7.72	18	0.0	0.0	0.32	0.0	0.32	1.59					
8.58	19	0.0	0.0	0.88	0.0	0.0	2.65					1,490 +/- 80
9.15	8	0.0	0.0	0.0	0.0	0.0	0.0					
9.91	9	0.0	0.0	0.0	0.0	0.0	0.0					
11.44	10	0.0	0.0	0.0	0.0	0.0	0.0					
12.96	11	0.0	0.0	0.0	0.0	0.0	0.29					
14.49	12	0.0	0.0	0.62	0.0	0.0	0.62					
16.01	13	0.3	0.0	0.3	0.0	0.0	0.0					
17.54	14	0.0	0.29	0.29	0.0	0.0	0.0					
19.06	15	0.0	0.0	0.0	0.0	0.0	0.0					

APPENDIX 2.—Continued.

CORE S57		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
	surf		1	2.86	28.28	68.86	9.8	0.65	1.31	1.63	0.0	23.20	0.0	9.80	48.04	0.0
	0.56		15	2.87	27.26	69.87	37.41	2.10	3.15	4.55	8.39	23.20	0.0	3.50	9.44	2.80
	1.52		2	15.08	34.36	50.57	69.87	3.81	0.32	3.85	2.88	0.0	0.32	0.0	1.92	11.86
	2.44		16	4.52	26.36	69.13	44.34	2.27	4.53	5.83	6.47	0.0	0.65	0.0	18.45	6.48
	3.35		3	3.30	21.66	75.05	64.29	0.62	0.93	1.55	16.46	1.86	0.0	0.0	6.52	3.73
	3.97		17	2.28	28.61	69.12	70.92	3.27	8.17	4.25	6.21	0.0	0.65	0.0	5.23	0.33
	4.88		4	15.02	44.58	40.40	71.09	2.06	4.72	17.70	2.95	0.0	0.0	0.59	0.88	0.0
	5.40		18	0.92	23.23	75.84	38.69	0.0	6.23	1.97	19.67	0.0	0.0	0.0	31.47	0.0
	6.40		5	7.48	38.44	54.09	76.47	1.31	2.29	8.17	6.86	0.0	0.0	0.98	1.96	0.65
	6.86		19	2.64	13.46	83.89	0.66	0.0	0.0	0.0	28.20	0.0	0.0	0.0	69.84	0.0
	7.63		20	1.81	28.71	69.48	10.78	0.0	0.0	7.52	32.03	0.0	0.0	0.0	48.7	0.33
	8.84		6	8.26	6.22	85.52	3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.00	0.0
	10.37		7	21.97	16.63	61.40	2.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.43	0.0
	11.49		21	8.26	34.11	57.63	2.25	0.0	1.29	0.0	0.32	0.0	0.0	0.0	94.53	0.0
	12.2		8	98.61	0.40	0.99	0.99	0.0	0.0	0.0	0.0	3.64	0.0	0.0	94.7	0.0
	12.97		22	41.45	33.67	24.88	42.50	3.13	0.63	0.31	1.56	0.0	0.0	0.0	0.63	0.0
	13.73		9	20.97	30.74	48.29	81.88	2.50	0.31	0.94	0.31	0.0	0.0	0.0	0.63	0.0
	14.64		10	60.00	20.86	19.14	94.25	2.88	0.64	2.24	0.0	0.0	0.0	0.0	0.0	0.0
	15.7		11	-	-	-	90.55	1.52	0.0	4.27	0.91	0.0	0.91	0.0	0.0	0.0
	18.3		12	-	-	-	88.33	6.31	0.0	2.52	0.63	0.0	0.63	0.0	0.0	0.0
	19.83		13	-	-	-	86.17	5.79	0.0	1.61	0.64	0.0	1.93	0.0	0.0	0.32

APPENDIX 2.—Continued.

CORE S57

DEPTH	NO	GSHW	GSHF	PSHW	SHLO	OSTR	SPNG	ECHN	OTH	CARBON-14
surf	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.56	
0.56	15	0.0	0.0	0.0	4.20	1.40	0.0	0.0	0.0	
1.52	2	0.96	0.0	0.32	0.96	3.53	0.0	0.0	0.0	
2.44	16	0.0	0.32	0.0	6.15	4.53	0.0	0.0	0.0	
3.35	3	0.0	0.0	0.0	2.80	1.24	0.0	0.0	0.0	
3.97	17	0.0	0.0	0.0	0.0	0.65	0.33	0.0	0.0	
4.88	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5.40	18	0.0	0.0	0.0	0.0	0.0	0.33	0.0	1.64	3,630 +/- 70
6.40	5	0.0	0.0	0.0	0.65	0.65	0.0	0.0	0.0	
6.86	19	0.0	0.0	0.0	0.0	0.0	0.33	0.98	0.0	
7.63	20	0.0	0.0	0.0	0.0	0.0	0.65	0.0	0.0	
8.84	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10.37	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11.49	21	0.0	0.0	0.0	0.0	0.0	1.29	0.32	0.0	
12.2	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	6,310 +/- 90
12.97	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.19	
13.73	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.44	13,630 +/- 100
14.64	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15.7	11	0.61	0.0	0.61	0.61	0.0	0.0	0.0	0.0	
18.3	12	0.0	0.32	0.63	0.63	0.0	0.0	0.0	0.0	
19.83	13	0.96	0.0	0.96	0.64	0.64	0.0	0.0	0.32	

APPENDIX 2.—Continued.

CORE S58		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGC	PLTM	FORB
surf	1	54.63	33.86	11.51	40.23	6.32	7.76	10.63	3.45	0.57	0.0	0.0	27.59	0.29		
1.52	2	6.04	38.24	55.73	62.15	10.17	11.02	8.76	2.54	0.0	0.0	0.0	1.98	0.0		
1.83	3	84.02	6.58	9.40	76.50	3.15	10.03	6.3	0.57	0.86	0.0	0.0	0.29	0.57		
2.29	4	-	-	-	70.44	2.83	13.52	10.69	0.0	0.0	0.94	0.0	0.0	0.0		
2.75	18	70.49	22.64	6.87	67.46	16.27	3.85	9.47	0.0	0.0	1.48	0.30	1.18	0.0		
3.97	5	6.42	62.46	31.12	24.38	1.85	15.74	18.83	32.41	2.78	0.62	0.0	1.86	0.0		
4.86	19	1.03	62.94	36.03	30.63	0.0	15.92	1.50	0.60	0.0	0.0	0.0	41.44	0.3		
6.1	6	7.22	49.88	42.90	17.24	1.25	5.64	2.19	4.08	0.0	0.0	0.0	67.4	0.0		
7.49	20	4.92	59.14	35.94	37.10	3.19	16.52	7.82	0.0	0.0	4.64	0.58	27.83	0.0		
8.23	7	1.87	68.25	29.88	36.34	2.03	20.93	11.05	1.45	0.87	0.0	0.0	20.35	1.16		
9.15	8	2.97	59.08	37.95	51.12	5.34	20.27	15.73	0.84	1.97	0.0	0.0	3.09	0.0		
9.28	21	3.97	52.87	43.16	35.80	3.40	20.06	7.72	0.31	0.0	0.31	0.0	25.0	0.62		
9.62	22	0.50	56.06	43.44	19.30	0.95	5.70	0.95	0.32	0.0	0.0	0.0	63.29	0.0		
9.84	23	2.99	40.12	56.89	5.88	0.0	0.62	0.31	3.10	0.62	0.0	0.0	87.0	0.0		
10.67	9	87.32	1.44	11.23	5.32	0.28	1.12	0.28	0.0	0.56	0.0	0.0	92.15	0.0		
11.31	24	1.85	46.68	51.47	2.39	0.0	0.0	0.24	0.0	0.0	0.0	0.0	83.25	0.0		
12.20	10	62.67	16.38	20.95	9.46	0.0	0.57	0.86	0.0	0.0	0.0	0.0	88.25	0.0		
12.65	25	14.81	48.13	37.06	38.90	1.15	8.65	4.32	3.17	0.0	0.0	0.0	34.3	2.88		
13.72	11	59.44	26.91	13.65	53.54	6.23	15.86	20.40	0.85	1.13	0.0	0.0	1.41	0.0		
14.49	26	1.88	72.17	25.95	37.38	0.96	20.13	9.27	0.0	0.0	0.32	0.0	22.8	0.0		
15.25	12	48.41	34.72	16.87	51.30	5.73	17.97	20.31	0.52	1.56	0.0	0.0	1.56	0.0		
15.97	27	2.83	62.27	34.90	29.54	2.15	11.69	6.77	0.0	0.0	12.31	0.0	33.85	0.0		
16.77	13	66.14	24.14	9.72	54.97	5.28	19.57	15.53	0.0	2.48	0.0	0.0	0.62	0.0		
17.54	14	-	-	-	71.48	3.61	11.15	10.49	0.0	0.0	0.33	0.0	0.99	0.0		
19.06	15	-	-	-	66.87	3.04	15.20	10.33	0.91	0.0	0.61	0.0	0.3	0.0		
20.59	16	-	-	-	63.77	3.89	14.37	11.68	0.6	0.6	0.6	0.0	0.6	0.0		
22.11	17	-	-	-	67.33	3.41	14.49	11.65	1.14	0.0	0.28	0.0	0.57	0.0		

APPENDIX 2.—Continued.

CORE S58														
DEPTH	NO	GSHW	PSHW	PSHF	SHLO	OSTR	SPNG	ECHN	BRYO	DIAT	OTH	CARBON-14		
surf	1	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	1.72			
1.52	2	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	2.82			
1.83	3	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0	1.15			
2.29	4	0.31	0.31	0.0	0.94	0.0	0.0	0.0	0.0	0.0	0.0			
2.75	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3.97	5	0.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.23	3,020 +/- 80		
4.86	19	0.0	0.0	0.0	0.60	0.0	4.80	1.80	0.0	0.0	2.40			
6.1	6	0.0	0.0	0.0	0.0	0.0	0.94	0.0	0.0	0.63	0.63		3,770 +/- 80	
7.49	20	0.0	0.0	0.0	1.45	0.0	0.29	0.0	0.0	0.58	0.0			
8.23	7	0.0	0.0	0.0	0.0	0.29	1.45	0.58	0.0	2.33	1.16			
9.15	8	0.0	0.0	0.0	0.0	0.0	1.12	0.0	0.0	0.56	0.0			
9.28	21	0.0	0.0	0.0	0.0	0.31	5.25	0.0	0.31	0.93	0.0			
9.62	22	0.0	0.0	0.0	0.0	0.0	6.96	0.0	0.0	2.53	0.0			
9.84	23	0.0	0.0	0.0	0.62	0.0	0.93	0.0	0.0	0.93	0.0			
10.67	9	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0			
11.31	24	0.0	0.0	0.0	0.24	0.0	11.96	0.0	0.0	1.91	0.0		4,890 +/- 80	
12.20	10	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.29			
12.65	25	0.0	0.0	0.0	0.58	0.58	3.46	0.0	0.0	2.02	0.0			
13.72	11	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0			
14.49	26	0.0	0.0	0.0	0.0	0.32	2.56	0.0	0.0	0.0	1.48			
15.25	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.04			
15.97	27	0.0	0.0	0.0	0.0	0.31	1.85	0.62	0.0	0.0	0.92			
16.77	13	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.93			
17.54	14	0.0	0.0	0.0	0.98	0.0	0.0	0.0	0.0	0.0	0.98			
19.06	15	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0	2.13			
20.59	16	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	3.29			
22.11	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.85			

APPENDIX 2.—Continued.

CORE S59		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
surf	1	95.66	0.69	3.65	31.57	44.44	2.02	7.83	14.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.61	2	-	-	-	74.28	7.51	10.12	7.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.83	3	-	-	-	62.65	15.43	9.57	8.95	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.20	4	-	-	-	74.37	6.69	10.03	7.80	0.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.73	5	-	-	-	44.47	34.12	6.59	8.0	6.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.25	6	-	-	-	50.90	15.27	13.47	18.86	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.78	7	-	-	-	49.86	6.52	14.73	26.06	2.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.30	8	-	-	-	46.32	7.36	15.80	26.70	3.27	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0
10.83	9	-	-	-	54.73	17.16	9.17	16.86	2.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.89	31	0.18	47.54	52.28	43.22	5.36	3.79	9.46	3.79	0.0	0.0	0.0	0.0	0.0	30.6	0.95	0.0
13.12	10	0.67	47.55	51.78	45.48	20.70	10.79	7.29	11.37	0.0	0.0	0.0	0.0	0.0	2.62	0.58	0.0
14.07	32	0.30	37.64	62.06	42.43	31.16	1.78	4.75	2.08	0.0	0.0	0.0	0.0	0.3	4.45	11.27	0.0
14.64	11	20.64	59.89	19.47	9.12	7.12	20.23	40.17	1.42	0.85	0.0	0.0	0.0	0.0	0.57	5.70	0.85
16.17	12	0.99	44.78	54.23	8.57	10.78	37.26	5.7	2.36	0.0	0.0	0.0	0.0	0.0	13.49	5.78	0.21
17.31	33	0.51	35.59	63.90	31.48	5.01	7.24	8.64	0.56	1.11	0.0	0.0	0.0	0.0	42.07	1.95	0.0
17.69	13	52.16	35.18	12.66	71.06	6.11	12.54	8.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32
18.30	14	61.36	19.15	19.49	76.81	6.02	10.24	6.33	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0
19.06	15	-	-	-	48.71	18.62	10.89	15.19	6.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.59	16	-	-	-	40.17	23.88	12.08	14.61	9.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.11	17	-	-	-	45.86	14.01	15.92	19.11	5.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.64	18	-	-	-	49.25	18.66	9.70	13.93	6.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.16	19	-	-	-	44.84	20.42	11.03	13.62	8.92	0.0	0.0	0.0	0.0	0.0	1.17	0.0	0.0
26.69	20	-	-	-	43.73	24.79	9.75	12.53	8.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.69	34	1.13	52.24	46.63	40.38	6.41	3.85	5.45	0.0	0.64	0.0	0.0	0.0	0.0	41.99	0.0	0.0
27.76	21	83.00	8.68	8.32	69.41	10.00	7.35	9.41	3.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28.37	22	-	-	-	39.10	22.69	11.97	14.46	10.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29.74	23	-	-	-	45.74	13.88	11.04	13.56	14.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31.26	24	-	-	-	55.59	14.50	12.99	13.29	3.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.79	25	-	-	-	44.57	26.98	7.33	9.97	10.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34.31	26	-	-	-	39.47	30.40	5.87	7.73	15.20	0.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35.84	27	-	-	-	62.30	10.70	9.63	9.89	5.88	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.36	28	-	-	-	55.56	7.50	12.78	17.78	2.50	0.56	0.0	0.0	0.0	0.0	2.78	0.0	0.0
38.89	29	-	-	-	48.90	17.03	5.49	17.03	9.34	0.82	0.0	0.0	0.0	0.0	0.82	0.0	0.0
40.41	30	-	-	-	52.80	13.66	8.07	17.39	5.28	1.24	0.0	0.0	0.0	0.0	0.62	0.0	0.0

APPENDIX 2.—Continued.

CORE S60		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
0.0	1	38.71	37.39	23.90	54.60	9.82	11.35	10.74	1.53	0.0	0.0	1.53	0.0	0.0	7.66	0.0
1.53	2	29.83	52.78	17.39	43.15	7.14	18.45	22.02	0.60	0.0	0.89	3.57	0.0	0.89	0.30	0.0
1.83	3	14.92	67.69	17.39	49.38	1.85	20.68	22.22	1.85	0.0	0.0	1.85	0.0	0.0	0.0	0.0
2.44	4	-	-	-	59.31	4.42	11.67	17.98	2.52	0.0	0.0	0.0	0.0	0.0	0.95	0.0
3.81	5	-	-	-	58.04	5.99	10.09	18.93	5.36	0.0	0.0	0.0	0.0	0.0	0.63	0.0
5.03	6	-	-	-	46.11	4.98	12.46	27.73	2.49	0.0	0.0	2.49	0.0	0.0	1.86	0.0
5.57	23	4.44	23.89	71.67	14.67	1.97	3.40	2.86	0.36	0.0	0.36	0.36	0.0	0.0	74.42	0.18
6.51	24	51.00	32.55	16.45	5.14	0.64	1.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.61	0.0
7.63	7	1.25	30.38	68.36	14.61	0.0	0.9	3.82	11.46	0.0	0.0	0.45	0.0	0.0	68.77	0.0
8.47	25	4.53	77.34	18.12	11.04	1.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	73.70	0.0
9.15	8	34.57	35.97	29.47	15.99	0.58	2.03	2.33	0.0	0.0	0.0	2.91	0.0	0.0	75.58	0.0
9.30	26	2.18	42.51	55.31	10.80	1.08	2.16	2.81	4.75	0.0	4.75	0.22	0.0	0.0	73.86	1.29
10.67	9	13.54	23.64	62.82	3.94	0.26	0.52	0.79	1.57	0.0	1.57	0.52	0.0	0.0	91.86	0.0
10.84	27	3.32	38.02	58.66	10.70	1.41	0.85	2.25	2.54	0.0	2.54	0.0	0.0	0.0	76.62	3.10
11.70	28	1.08	31.25	67.67	26.46	1.41	5.15	5.85	0.0	0.70	0.0	0.70	0.0	0.0	59.62	0.0
12.20	10	59.90	28.75	11.35	62.85	3.41	8.05	20.43	1.24	0.0	1.24	1.55	0.0	0.0	0.31	0.0
12.96	11	-	-	-	54.15	5.73	9.74	18.91	4.01	0.0	4.01	1.43	0.0	0.0	0.57	0.0
14.49	12	-	-	-	61.38	7.20	8.07	17.58	2.88	0.0	2.88	0.0	0.0	0.0	0.86	0.0
16.01	13	-	-	-	61.19	5.38	9.92	17.0	0.85	0.0	0.85	1.13	0.0	0.0	1.14	0.0
17.54	14	-	-	-	69.11	7.07	6.28	12.30	1.31	0.0	1.31	1.57	0.0	0.52	0.79	0.26
19.06	15	-	-	-	58.94	6.45	9.68	14.96	5.28	0.0	5.28	0.29	0.0	0.88	0.88	0.59
20.59	16	-	-	-	68.55	4.45	5.34	16.62	1.48	0.0	1.48	0.0	0.59	0.0	1.49	0.0
22.11	17	-	-	-	70.55	7.98	5.52	11.04	0.92	0.0	0.92	0.92	0.0	0.0	0.31	0.0
23.64	18	-	-	-	77.33	3.73	4.97	10.56	1.55	0.0	1.55	0.31	0.0	0.0	0.31	0.0
25.16	19	-	-	-	82.08	6.60	4.72	4.40	0.94	0.0	0.94	0.0	0.0	0.0	0.0	0.0
26.69	20	-	-	-	63.95	8.15	8.46	14.42	2.19	0.0	2.19	0.0	0.0	0.0	0.63	0.31
28.21	21	-	-	-	68.06	5.28	10.83	14.44	0.83	0.0	0.83	0.0	0.0	0.0	0.28	0.0
29.71	22	-	-	-	68.35	7.84	12.89	8.68	0.56	0.0	0.56	0.0	0.0	0.0	0.84	0.28

APPENDIX 2.—Continued.

CORE S60

DEPTH	NO	GSHW	GSHF	PSHW	PSHF	SHLO	OSTR	SPNG	ECHN	DIAT	OTH	CARBON-14
0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.76	
1.53	2	0.0	0.0	0.0	0.0	0.0	0.0	0.89	0.0	0.0	2.98	
1.83	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.16	
2.44	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.15	
3.81	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	
5.03	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.87	
5.57	23	0.0	0.0	0.18	0.18	1.43	0.0	0.0	0.0	0.0	0.0	
6.51	24	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	
7.63	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.47	25	0.0	0.0	0.0	0.0	0.0	0.0	9.09	0.0	0.97	0.0	
9.15	8	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	4,760 +/- 110
9.30	26	0.0	0.0	1.08	0.0	0.0	0.22	0.65	0.22	0.86	0.0	
10.67	9	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	
10.84	27	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.28	0.28	1.41	
11.70	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.23	0.0	5,020 +/- 90
12.20	10	0.0	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.0	1.24	
12.96	11	0.57	0.29	0.57	0.0	0.86	2.01	0.0	0.0	0.0	1.15	
14.49	12	0.29	0.0	0.29	0.0	0.29	0.29	0.0	0.0	0.29	0.58	
16.01	13	0.0	0.28	0.28	0.57	0.0	0.57	0.28	0.0	0.28	1.13	
17.54	14	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.52	
19.06	15	0.0	0.0	0.29	0.0	0.0	0.0	0.29	0.29	0.29	0.88	
20.59	16	0.0	0.0	0.0	0.0	0.3	0.59	0.0	0.0	0.0	0.59	
22.11	17	0.0	0.0	0.31	0.0	0.31	0.31	0.0	0.0	0.0	1.84	
23.64	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24	
25.16	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.26	
26.69	20	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.31	1.25	
28.21	21	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	
29.71	22	0.0	0.0	0.0	0.0	0.28	0.28	0.0	0.0	0.0	0.0	

APPENDIX 2.—Continued.

CORE S61

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
surf	1	9.15	31.95	58.90	77.39	2.32	5.22	2.9	0.58	0.0	0.0	0.58	3.19	0.58
1.22	2	0.81	39.04	60.15	46.20	4.75	11.39	8.86	0.63	0.0	0.0	4.11	4.75	1.59
3.05	3	2.80	16.28	80.92	61.54	3.13	3.37	1.68	0.0	0.0	0.0	0.0	1.44	12.74
4.57	4	2.55	37.15	60.29	28.40	1.54	10.49	2.47	0.62	55.25	0.0	0.0	0.0	0.0
5.35	29	0.54	36.93	62.53	63.83	3.04	11.85	8.51	0.0	3.65	0.0	0.0	0.61	3.96
6.10	5	3.44	34.08	62.48	43.71	3.59	19.46	21.56	1.20	0.30	0.30	1.50	4.79	0.0
6.13	6A	1.26	26.92	71.83	30.09	1.57	10.03	8.46	5.02	1.88	0.0	0.0	41.06	0.0
6.59	30	11.82	41.11	47.07	46.25	9.06	15.0	21.88	1.56	0.94	0.0	0.63	1.88	0.0
7.62	6B	55.15	27.68	17.17	82.13	3.76	3.76	8.46	0.31	0.31	0.0	0.0	0.0	0.0
9.06	31	12.30	65.31	22.40	38.89	13.89	15.74	21.30	0.93	0.31	0.0	0.0	4.94	0.0
9.45	7	53.15	33.89	12.96	47.37	3.72	20.12	19.81	0.93	0.62	0.0	0.93	5.26	0.0
10.06	8	-	-	-	56.15	9.15	9.78	19.24	0.63	0.0	0.0	2.21	0.0	0.63
10.85	32	7.65	69.54	22.81	22.73	9.09	24.55	27.58	0.0	0.91	0.0	0.0	6.97	0.0
12.20	9	0.77	27.70	71.53	4.89	0.29	0.29	0.86	2.01	0.29	0.0	0.0	90.23	0.0
12.81	33	1.41	10.22	88.37	51.98	5.17	7.29	6.38	0.61	0.0	0.0	3.04	24.32	0.0
13.72	10	60.13	22.65	17.21	0.64	0.0	0.0	0.0	0.0	1.29	0.0	0.0	97.74	0.0
15.55	11	78.27	8.84	12.89	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.77	0.0
17.38	12	72.43	16.25	11.33	92.23	3.56	1.62	2.59	0.0	0.0	0.0	0.0	0.0	0.0
17.84	13	-	-	-	78.06	2.51	2.82	3.13	0.31	0.0	0.0	0.0	0.0	0.0
19.06	14	-	-	-	88.27	2.61	1.30	5.86	0.0	0.0	0.0	0.0	0.0	0.33
20.59	15	-	-	-	89.63	0.67	1.34	5.69	0.0	0.0	0.0	0.0	0.0	0.0
22.11	16	-	-	-	89.46	2.24	0.96	4.79	0.0	0.0	0.32	0.0	0.0	0.0
23.64	17	-	-	-	85.02	5.50	0.61	4.89	0.0	0.0	0.0	0.0	0.0	0.0
25.16	18	-	-	-	90.46	1.32	1.64	4.93	0.0	0.0	0.0	0.0	0.0	0.0
26.69	19	-	-	-	86.31	4.46	2.55	6.05	0.0	0.0	0.0	0.0	0.32	0.0
28.21	20	-	-	-	81.93	4.98	3.74	6.23	0.0	0.0	0.31	0.0	0.0	0.31
29.74	21	-	-	-	88.68	1.89	1.57	7.23	0.0	0.0	0.0	0.0	0.31	0.0
31.26	22	-	-	-	86.35	5.08	0.95	6.67	0.0	0.0	0.0	0.0	0.0	0.0
32.79	23	-	-	-	90.71	1.60	1.92	3.85	0.0	0.0	0.32	0.0	0.0	0.0
34.31	24	-	-	-	92.0	3.08	0.62	4.0	0.0	0.0	0.0	0.0	0.0	0.0
35.84	25	-	-	-	90.63	1.88	0.63	5.94	0.0	0.0	0.31	0.0	0.0	0.0
37.36	26	-	-	-	91.91	2.27	0.65	4.21	0.0	0.0	0.32	0.0	0.0	0.0
38.89	27	-	-	-	90.32	3.23	0.97	4.52	0.0	0.0	0.65	0.0	0.0	0.0
40.41	28	-	-	-	84.39	7.01	0.64	5.73	0.0	0.0	0.96	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S62		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB
surf	1	13.35	59.12	27.53	26.11	1.78	2.08	1.78	1.19	15.73	0.0	3.56	45.40	0.60		
1.85	17	11.70	37.96	50.34	27.74	1.61	4.19	2.58	0.0	0.0	0.0	0.0	60.97	0.32		
3.35	2	2.65	40.44	56.91	57.91	6.78	1.69	3.67	0.56	2.26	0.0	0.0	7.62	11.58		
3.78	18	0.72	29.07	70.21	18.39	3.01	4.68	1.00	0.0	0.0	0.0	0.0	1.34	54.52		
4.57	3	6.82	55.57	37.61	45.69	4.47	20.45	24.28	0.0	0.96	0.0	0.0	0.96	0.0		
4.60	4	21.46	31.84	46.69	41.18	3.72	11.46	7.12	0.0	0.62	0.0	1.86	15.48	6.5		
4.82	19	1.18	34.49	64.34	36.67	2.42	6.97	1.52	0.3	0.0	0.0	0.0	27.88	12.73		
6.10	5	5.50	26.51	67.99	24.71	0.0	8.33	2.01	0.86	0.0	0.0	0.0	54.6	5.18		
6.72	20	0.32	59.57	40.11	9.97	0.28	3.42	0.57	27.35	0.0	0.0	0.0	55.55	1.42		
7.62	6	10.79	62.62	26.59	30.23	0.85	17.23	14.12	0.0	0.0	1.69	0.0	34.18	0.0		
9.15	7	3.33	67.37	29.30	22.48	1.81	12.66	7.49	0.0	0.26	0.0	0.26	53.23	0.0		
10.67	8	1.41	63.43	35.16	8.92	0.32	9.87	1.59	0.32	0.0	0.0	0.0	76.44	0.0		
12.20	9	57.55	13.38	29.07	4.56	0.0	0.0	0.61	0.0	0.0	0.0	0.0	94.83	0.0		
13.71	10	47.56	22.68	29.76	10.98	0.29	0.58	0.29	0.0	7.80	0.0	0.0	79.19	0.0		
16.47	11	12.15	45.45	42.40	43.68	2.75	4.40	6.87	1.37	0.27	0.0	0.0	39.28	0.0		
17.07	21	0.94	60.12	38.94	29.52	1.33	18.35	7.18	0.0	0.0	0.0	0.0	39.36	0.0		
17.99	12	81.94	10.01	8.05	93.89	2.89	0.32	0.64	0.0	0.0	0.0	0.0	0.64	0.0		
18.91	13	-	-	-	82.20	2.82	3.39	4.80	0.0	0.0	0.0	0.0	2.26	0.0		
20.59	14	-	-	-	86.14	1.98	2.31	5.28	0.0	0.0	1.32	0.33	0.0	0.0		
22.11	15	-	-	-	80.75	4.35	2.48	8.07	0.0	0.0	1.24	0.31	1.24	0.0		
23.64	16	-	-	-	85.71	5.28	4.66	2.48	0.0	0.0	0.31	0.31	0.62	0.0		

APPENDIX 2.—Continued.

CORE S62

DEPTH	NO	GSHW	SHLO	OSTR	SPNG	ECHN	DIAT	OTH	CARBON-14
surf	1	0.0	0.0	0.59	0.0	0.0	0.0	1.19	
1.85	17	0.0	0.0	0.97	0.0	0.0	0.65	0.97	
3.35	2	0.28	1.41	2.82	0.0	0.0	0.0	3.39	
3.78	18	0.0	0.33	16.72	0.0	0.0	0.0	0.0	
4.57	3	0.0	0.0	0.32	0.0	0.0	0.0	2.88	
4.60	4	0.31	2.48	3.72	0.0	0.0	0.0	5.57	
4.82	19	0.0	4.55	6.97	0.0	0.0	0.0	0.0	
6.10	5	0.0	2.87	0.86	0.0	0.29	0.29	0.0	3,660 +/- 70
6.72	20	0.0	0.0	0.0	0.85	0.0	0.0	0.57	
7.62	6	0.0	0.0	0.0	0.85	0.28	0.0	0.56	
9.15	7	0.0	0.0	0.0	1.03	0.52	0.0	0.26	
10.67	8	0.0	0.0	0.0	1.91	0.64	0.0	0.0	
12.20	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13.71	10	0.0	0.0	0.0	0.29	0.58	0.0	0.0	6,220 +/- 100
16.47	11	0.0	0.0	0.0	1.10	0.27	0.0	0.0	
17.07	21	0.0	0.0	0.0	4.26	0.0	0.0	0.0	
17.99	12	0.0	0.0	0.0	0.0	0.0	0.0	1.61	
18.91	13	0.0	0.56	1.41	0.0	0.0	0.0	2.54	
20.59	14	0.0	0.66	0.0	0.0	0.0	0.0	1.98	
22.11	15	0.0	0.62	0.0	0.0	0.0	0.0	0.93	
23.64	16	0.0	0.31	0.0	0.0	0.0	0.0	0.31	

APPENDIX 2.—Continued.

CORE S63		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	EVAP	LITH	AGG	PLTM	FORB
	surf		1	98.83	0.04	1.14	65.84	13.04	4.97	8.07	7.76	0.31	0.0	0.0	0.0	0.0
	0.76		2	-	-	-	66.67	8.10	9.66	12.77	2.80	0.0	0.0	0.0	0.0	0.0
	2.29		3	-	-	-	56.17	7.10	14.51	17.28	4.01	0.0	0.0	0.0	0.0	0.0
	3.81		4	-	-	-	61.80	6.10	11.41	14.32	4.24	0.0	0.0	0.0	0.0	0.0
	5.34		5	-	-	-	70.75	5.66	12.26	8.81	0.96	0.31	0.31	0.0	0.0	0.0
	6.86		6	-	-	-	59.68	10.48	11.43	12.38	4.76	0.0	0.0	0.0	0.0	0.0
	8.34		7	-	-	-	58.81	8.36	13.73	13.73	2.39	0.0	0.0	0.0	0.0	0.0
	9.91		8	-	-	-	47.25	8.09	21.04	18.77	1.62	0.97	0.0	0.0	0.0	0.0
	11.44		9	-	-	-	52.54	6.87	17.91	16.42	2.99	0.3	0.3	0.0	0.0	0.0
	12.96		10	-	-	-	49.55	11.28	13.65	18.69	2.97	0.89	0.3	0.0	0.0	0.3
	14.49		11	-	-	-	54.95	10.44	10.99	17.86	3.57	0.82	0.0	0.27	0.0	0.55
	16.01		12	-	-	-	57.46	11.43	12.38	13.02	5.08	0.0	0.0	0.0	0.0	0.32
	17.23		13	-	-	-	62.19	8.75	12.19	14.38	0.94	0.0	0.0	0.31	0.0	0.31
	17.86		17	11.20	76.11	12.69	24.56	0.89	0.89	1.18	0.3	0.0	0.0	0.0	68.94	0.0
	18.39		18	3.89	76.70	19.41	13.42	1.01	1.01	0.76	0.51	0.25	0.0	0.0	78.48	0.0
	19.03		19	41.09	38.26	20.66	2.74	0.61	0.0	0.0	0.0	2.13	0.0	0.0	96.99	0.0
	0.0		14	59.94	29.12	10.94	72.78	5.06	9.18	8.86	1.27	0.0	0.0	0.32	1.90	0.0
	19.98		15	-	-	-	64.58	7.21	10.66	14.73	1.25	0.0	0.0	0.94	0.0	0.31
	21.50		16	-	-	-	63.83	9.73	10.94	11.55	1.52	0.61	0.0	0.61	0.0	0.3

APPENDIX 2.—Continued.

CORE S64

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	EVAP	LITH	AGG	PLTM	FORB	FORP
surf	1	98.55	0.00	1.45	78.26	12.11	2.80	4.66	1.24	0.0	0.0	0.0	0.0	0.0	0.0
0.76	2	-	-	-	75.30	8.84	7.62	8.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.29	3	-	-	-	72.84	10.15	6.87	8.06	2.09	0.0	0.0	0.0	0.0	0.0	0.0
3.81	4	-	-	-	63.77	14.67	5.09	12.57	3.89	0.0	0.0	0.0	0.0	0.0	0.0
5.34	5	-	-	-	75.24	6.98	9.21	7.62	0.95	0.0	0.0	0.0	0.0	0.0	0.0
6.86	6	-	-	-	71.67	7.78	11.39	8.61	0.56	0.0	0.0	0.0	0.0	0.0	0.0
7.65	31	1.50	57.53	40.96	7.19	0.0	37.91	3.92	0.0	0.0	0.0	0.0	47.39	0.65	0.0
8.24	7	72.96	20.26	6.77	59.52	11.18	16.01	11.48	0.6	0.0	0.0	0.0	0.0	0.0	0.0
8.69	8	-	-	-	48.79	13.40	20.11	15.82	1.88	0.0	0.0	0.0	0.0	0.0	0.0
9.91	9	-	-	-	53.10	18.33	13.48	13.48	1.62	0.0	0.0	0.0	0.0	0.0	0.0
11.44	10	-	-	-	44.75	14.92	16.57	22.93	0.55	0.28	0.0	0.0	0.0	0.0	0.0
12.96	11	-	-	-	38.91	17.93	17.02	23.71	1.82	0.61	0.0	0.0	0.0	0.0	0.0
13.87	32	0.53	60.32	39.15	39.88	2.15	26.07	7.06	0.0	0.92	0.61	0.0	21.16	0.0	0.0
14.58	33	2.43	41.79	55.78	49.84	4.15	14.38	16.61	0.64	0.96	0.0	0.0	8.63	0.64	0.0
15.25	12	0.15	38.21	61.64	60.79	11.85	6.38	13.37	1.57	0.0	0.0	0.0	2.13	0.91	0.0
15.52	34	0.98	30.20	68.82	14.89	1.29	7.77	1.62	0.0	0.32	0.0	0.65	72.49	0.0	0.0
16.17	13	67.81	22.59	9.60	68.99	8.70	10.72	9.57	1.45	0.0	0.0	0.0	0.0	0.29	0.0
16.62	14	-	-	-	60.29	15.59	7.35	11.18	3.53	0.59	0.0	0.0	0.0	0.29	0.0
18.61	15	26.95	40.52	32.53	60.98	9.02	7.56	12.20	0.98	0.0	0.0	0.0	1.95	2.19	0.0
19.05	35	0.09	27.76	72.15	30.77	0.59	0.59	2.37	5.03	0.0	0.0	0.0	46.15	7.39	0.0
19.75	36	89.47	4.25	6.28	80.00	4.92	4.92	6.46	0.62	0.31	0.62	0.0	0.0	0.31	0.0
20.13	16	20.52	25.44	54.04	55.28	8.94	6.10	5.28	1.22	0.81	4.07	2.85	4.48	3.66	1.62
20.89	17	-	-	-	59.06	11.11	10.23	12.87	4.09	1.46	0.0	0.0	0.0	0.0	0.0
22.42	18	-	-	-	60.06	11.76	11.46	13.62	1.24	0.62	0.0	0.0	0.0	0.0	0.0
23.79	19	-	-	-	71.47	6.76	10.88	9.12	1.18	0.0	0.0	0.0	0.29	0.0	0.0
25.16	20	-	-	-	67.51	10.41	11.99	9.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.69	21	-	-	-	84.66	2.45	6.44	5.52	0.61	0.0	0.0	0.0	0.0	0.0	0.0
28.21	22	-	-	-	72.17	11.30	8.70	6.52	1.30	0.0	0.0	0.0	0.0	0.0	0.0
29.74	23	-	-	-	85.20	3.62	7.24	3.29	0.33	0.0	0.0	0.0	0.33	0.0	0.0
31.26	24	-	-	-	72.44	10.26	9.94	5.45	0.64	0.0	0.0	0.0	0.0	0.0	0.0
32.79	25	-	-	-	60.56	11.49	12.11	12.11	2.17	0.0	0.0	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S64															CARBON-14									
DEPTH	NO	GSHW	PSHW	PSHF	SHLO	OSTR	SPNG	ECHN	BRYO	DIAT	OTH													
surf	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93													
0.76	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
2.29	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
3.81	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
5.34	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
6.86	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
7.65	31	0.0	0.0	0.0	0.98	0.0	0.98	0.0	0.0	0.0	0.98													
8.24	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.21													
8.69	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
9.91	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
11.44	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
12.96	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
13.87	32	0.0	0.0	0.0	0.61	0.0	0.31	0.0	0.0	0.0	1.23	2,250 +/- 100												
14.58	33	0.0	0.0	0.0	1.28	0.32	0.0	0.0	0.0	0.0	2.56													
15.25	12	0.0	0.0	0.0	0.91	0.3	0.0	0.0	0.0	0.0	1.82													
15.52	34	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.65													
16.17	13	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0													
16.62	14	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.88													
18.61	15	0.0	0.0	0.0	0.98	0.0	0.73	0.24	0.49	0.0	2.68													
19.05	35	0.0	0.0	0.0	5.92	0.0	0.0	0.0	0.30	0.0	0.59													
19.75	36	0.0	0.0	0.0	0.92	0.31	0.0	0.0	0.0	0.0	0.62													
20.13	16	0.0	0.0	0.0	2.03	0.0	0.81	1.63	0.41	0.41	0.0	3,780 +/- 120												
20.89	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.17													
22.42	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24													
23.79	19	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0													
25.16	20	0.0	0.32	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0													
26.69	21	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0													
28.21	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
29.74	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
31.26	24	0.32	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.32													
32.79	25	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	1.24													

APPENDIX 2.—Continued on following page.

APPENDIX 2.—Continued.

CORE S66		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	AGG	PLTM	FORB
0.00	1	14.69	63.26	22.06	58.03	6.56	0.98	9.51	0.0	0.0	3.28	20.98	0.0	0.0	
0.61	2	16.11	77.92	5.97	84.54	3.95	1.97	0.66	0.0	0.0	1.64	1.32	0.0	0.0	
1.22	3	3.01	69.59	27.40	87.30	2.28	0.65	1.95	0.0	0.0	6.84	0.0	0.0	0.0	
1.83	4	1.90	41.32	56.78	66.67	3.24	2.59	1.29	0.0	0.0	21.68	0.97	0.32	0.0	
2.75	5	0.36	21.32	78.33	79.87	1.62	1.62	4.87	0.0	0.0	7.47	2.27	0.0	0.0	
3.05	21	0.09	85.99	13.93	59.24	1.27	0.0	0.0	0.0	0.0	10.19	29.3	0.0	0.0	
3.95	6	1.15	43.84	55.01	55.66	0.97	3.56	2.59	36.89	0.0	0.32	0.0	0.0	0.0	
4.42	22	0.70	77.22	22.07	68.62	4.0	1.85	0.0	24.31	0.0	0.0	0.31	0.0	0.0	
5.50	7	0.53	31.10	68.37	19.94	0.62	0.31	0.0	42.99	0.0	28.35	5.61	0.0	0.0	
7.0	8	38.00	44.42	17.59	76.95	11.69	0.97	3.25	2.27	0.0	1.62	2.92	0.0	0.0	
7.30	9	--	--	--	76.71	6.83	3.42	6.52	4.66	0.0	0.0	0.0	0.0	0.0	
8.24	23	8.10	76.00	15.90	2.56	0.0	0.64	0.0	0.0	0.0	0.64	95.51	0.0	0.0	
8.69	18	1.50	38.75	59.75	9.87	0.0	0.0	0.0	0.99	0.0	0.0	89.14	0.0	0.0	
9.5	10	0.38	22.53	77.09	6.58	0.0	0.0	0.66	1.97	0.0	0.0	88.81	0.0	0.0	
9.91	24	9.91	71.26	18.83	52.79	0.66	0.66	0.0	0.0	0.0	0.98	44.92	0.0	0.0	
11.0	11	0.42	18.43	81.16	26.73	1.32	0.99	1.32	6.93	0.0	0.0	61.39	0.0	0.0	
11.59	19	16.55	71.74	11.72	0.99	0.0	0.66	0.0	0.99	0.0	0.99	96.38	0.0	0.0	
12.5	12	22.07	39.30	38.62	1.00	0.0	0.0	0.33	0.0	0.0	0.0	97.33	0.0	0.0	
13.57	25	6.26	72.47	21.27	3.85	0.0	0.0	0.0	3.21	0.0	0.32	92.63	0.0	0.0	
14.0	13	5.79	41.26	52.95	4.32	0.0	0.0	0.0	0.66	0.0	0.0	93.02	0.0	0.0	
14.18	26	62.75	31.24	6.01	90.03	7.40	0.64	0.32	1.29	0.32	0.0	0.0	0.0	0.0	
14.64	20	3.33	52.81	43.86	71.29	1.65	0.66	0.0	0.0	0.0	0.0	26.40	0.0	0.0	
15.6	14	74.28	17.75	7.97	77.70	12.79	4.26	3.93	0.0	0.0	0.0	0.66	0.0	0.0	
16.32	15	--	--	--	75.91	7.26	4.29	11.55	0.0	0.0	0.0	0.99	0.0	0.0	
17.84	16	--	--	--	79.68	10.32	1.94	6.77	0.0	0.0	0.0	1.29	0.0	0.0	
19.37	17	--	--	--	71.29	6.77	6.77	12.26	0.32	0.0	0.0	1.29	0.0	0.0	

APPENDIX 2.—Continued.

CORE S66

DEPTH	NO	SHLO	OSTR	SPNG	OITH	CARBON-14
0.00	1	0.0	0.0	0.0	0.66	
0.61	2	0.0	0.33	0.0	3.29	
1.22	3	0.0	0.0	0.0	0.98	
1.83	4	0.0	0.32	0.0	1.62	
2.75	5	0.0	0.0	0.0	2.27	
3.05	21	0.0	0.0	0.0	0.0	
3.95	6	0.0	0.0	0.0	0.0	
4.42	22	0.0	0.0	0.0	0.0	
5.50	7	0.0	0.0	0.0	2.18	
7.0	8	0.0	0.0	0.0	0.32	4020+/- 100
7.30	9	0.0	0.0	0.0	1.55	
8.24	23	0.0	0.0	0.0	0.0	
8.69	18	0.0	0.0	0.0	0.0	
9.5	10	0.33	0.0	1.64	0.0	3950+/- 70
9.91	24	0.0	0.0	0.0	0.0	
11.0	11	0.33	0.0	0.0	0.99	
11.59	19	0.0	0.0	0.0	0.0	
12.5	12	0.33	0.0	0.66	0.0	5480+/- 80
13.57	25	0.0	0.0	0.0	0.0	
14.0	13	1.33	0.0	0.66	0.0	
14.18	26	0.0	0.0	0.0	0.0	7230+/- 70
14.64	20	0.0	0.0	0.0	0.0	
15.6	14	0.0	0.0	0.0	0.66	
16.32	15	0.0	0.0	0.0	0.0	
17.84	16	0.0	0.0	0.0	0.0	
19.37	17	0.0	0.0	0.0	1.29	

APPENDIX 2.—Continued.

CORE S67		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB	FORP
0.0	1	46.84	34.46	18.70	93.23	4.19	0.0	1.61	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0
1.83	2	--	--	--	95.83	1.60	0.0	1.28	0.0	0.96	0.0	0.0	0.0	0.32	0.0	0.0	0.0
3.36	3	--	--	--	96.44	1.62	0.32	0.97	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0
4.27	13	15.79	34.57	49.64	95.11	3.58	0.0	0.0	0.0	0.0	0.0	0.98	0.0	0.0	0.0	0.0	0.0
5.64	4	77.29	15.05	7.66	92.75	3.72	0.31	1.86	0.0	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.41	5	--	--	--	92.13	5.57	0.0	2.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.93	6	--	--	--	92.38	5.30	0.0	1.66	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0
9.38	7	--	--	--	90.00	9.67	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.83	8	--	--	--	93.00	3.67	0.0	3.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.35	9	--	--	--	91.09	7.26	0.33	1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.88	10	--	--	--	79.14	16.56	0.0	3.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.16	11	--	--	--	86.38	7.64	0.0	4.98	0.0	0.0	0.0	0.0	0.0	0.33	0.33	0.0	0.0
18.75	12	--	--	--	90.73	7.95	0.33	0.66	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S68

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	AGG	PLTM	FORB
0.0	1	98.14	0.37	1.49	75.32	12.66	0.65	8.12	0.0	0.0	0.0	0.0	0.0
1.22	2	--	--	--	91.91	5.18	0.0	0.97	1.62	0.0	0.32	0.0	0.0
1.83	3	--	--	--	85.90	10.49	0.0	0.98	1.31	0.0	0.0	0.0	0.33
3.05	4	27.11	52.64	20.25	48.36	10.86	22.70	16.12	0.0	0.0	0.0	0.0	0.0
3.96	5	23.02	57.64	19.35	52.98	4.39	12.85	11.60	0.31	0.0	0.0	13.79	0.31
5.19	34	--	--	--	82.87	5.92	3.12	1.25	0.31	0.62	0.0	4.98	0.0
5.49	6	16.75	58.49	24.77	47.17	1.26	18.24	16.04	0.31	0.0	0.0	13.21	1.89
6.56	35	--	--	--	39.38	0.0	1.25	6.25	0.0	0.0	1.56	20.31	5.94
7.01	7	37.92	29.69	32.39	8.22	0.66	2.63	2.63	0.0	0.0	0.0	82.23	0.0
7.32	8	34.76	46.89	18.34	53.72	0.97	22.33	12.62	0.0	0.0	0.0	10.36	0.0
7.93	9	--	--	--	90.88	4.89	0.33	2.28	0.65	0.0	0.0	0.0	0.33
8.54	36	--	--	--	89.71	5.14	2.89	0.0	0.0	0.64	0.64	0.96	0.0
10.06	10	5.21	55.30	39.49	45.57	2.53	22.78	11.08	0.0	0.0	0.0	13.30	0.63
10.37	37	--	--	--	65.29	1.59	7.96	0.0	0.0	0.64	6.37	18.51	0.0
11.59	11	18.57	39.20	42.23	39.37	1.74	1.74	0.35	0.70	0.0	0.0	33.45	0.0
11.74	38	--	--	--	9.09	0.0	0.0	0.0	0.0	0.0	0.29	73.31	0.0
12.67	39	--	--	--	8.55	0.33	0.0	0.0	0.0	0.0	0.0	85.53	0.0
13.72	12	2.82	57.70	39.48	34.70	1.58	7.26	1.89	0.0	0.0	0.0	49.21	0.0
14.49	13	69.33	17.99	12.68	39.55	1.93	0.0	0.0	0.0	0.0	0.0	45.98	0.0
14.87	14	--	--	--	91.28	4.98	0.0	2.18	0.0	0.0	0.0	0.93	0.0
16.01	15	--	--	--	91.42	3.63	0.0	1.98	1.98	0.0	0.0	0.33	0.0
17.54	16	--	--	--	91.03	4.98	0.0	2.33	1.00	0.0	0.0	0.0	0.33
19.06	17	--	--	--	88.56	5.88	0.0	2.94	1.31	0.0	0.0	0.98	0.0
20.59	18	--	--	--	88.49	7.24	0.0	2.63	0.99	0.0	0.0	0.33	0.0
22.11	19	--	--	--	85.76	9.06	0.65	3.24	0.65	0.0	0.0	0.32	0.0
23.64	20	--	--	--	87.42	7.86	0.0	2.83	1.89	0.0	0.0	0.0	0.0
25.16	21	--	--	--	90.54	3.79	0.0	3.79	0.95	0.0	0.0	0.63	0.0
28.21	23	--	--	--	92.03	5.32	0.33	2.33	0.0	0.0	0.0	0.0	0.0
31.26	25	--	--	--	92.33	4.00	0.0	3.00	0.67	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S69

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	GYP	PLTM	FORB
0.0	1	7.29	35.10	57.61	57.61	10.68	0.97	3.24	0.0	0.0	16.18	0.65
1.22	2	4.30	29.55	66.15	70.57	2.53	5.70	1.90	0.0	0.0	10.76	0.32
2.75	3	1.84	22.25	75.91	79.14	7.62	3.31	1.99	0.0	0.99	2.32	0.0
3.20	16	26.61	60.53	12.86	96.05	3.29	0.0	0.0	0.0	0.33	0.0	0.0
4.12	4	70.72	25.00	4.29	96.36	3.31	0.0	0.33	0.0	0.0	0.0	0.0
4.88	5	--	--	--	94.72	3.30	0.0	0.66	0.0	0.0	0.66	0.0
5.87	6	--	--	--	91.18	5.56	0.0	1.63	0.65	0.0	0.0	0.0
6.86	7	--	--	--	91.75	6.60	0.0	0.99	0.0	0.0	0.0	0.0
7.63	17	43.42	50.76	5.82	93.75	5.94	0.31	0.0	0.0	0.0	0.0	0.0
8.69	8	12.36	47.68	39.97	90.03	4.61	1.64	2.30	0.0	0.0	0.66	0.0
9.30	18	4.36	85.38	10.28	69.51	2.84	0.0	0.26	0.0	1.03	26.36	0.0
10.22	9	2.16	18.14	79.69	66.99	2.91	0.0	0.65	0.0	1.62	27.51	0.0
10.82	19	0.81	89.95	9.24	92.31	1.99	0.57	0.0	0.0	2.85	2.28	0.0
11.74	10	12.41	32.14	55.45	80.49	11.69	2.93	2.27	0.0	1.30	0.33	0.0
12.66	20	31.29	65.76	2.95	90.88	4.89	3.26	0.0	0.0	0.98	0.0	0.0
13.11	11	63.06	17.40	19.54	95.15	1.94	0.0	2.91	0.0	0.0	0.0	0.0
13.88	12	--	--	--	86.27	10.13	0.65	2.94	0.0	0.0	0.0	0.0
15.40	13	--	--	--	89.17	6.05	0.95	3.82	0.0	0.0	0.0	0.0
16.93	14	--	--	--	87.49	6.25	0.99	4.28	0.0	0.0	0.0	0.0
18.76	15	--	--	--	92.39	3.97	0.66	2.32	0.0	0.0	0.33	0.0

APPENDIX 2.—Continued.

CORE S70		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	AGG	PLTM	FORB
0.0	1	11.26	74.54	14.21	55.63	1.29	2.57	2.57	2.57	2.57	0.0	0.64	0.0	36.33	0.0
1.07	2	6.65	77.86	15.50	58.31	4.56	3.91	3.91	10.75	10.75	0.0	0.65	14.01	5.21	0.0
1.83	15	3.74	94.56	1.70	88.36	3.14	5.97	5.97	0.0	0.0	1.26	0.94	0.31	0.0	0.0
2.59	3	10.67	80.63	8.70	45.43	4.88	21.04	21.04	21.04	21.04	0.0	1.22	3.66	0.61	0.30
3.20	16	59.02	39.94	1.04	93.63	2.87	1.59	1.59	0.64	0.64	0.0	0.0	0.0	0.0	0.0
4.12	4	62.78	31.68	5.54	63.70	9.24	4.95	4.95	10.89	10.89	0.0	5.61	2.64	1.65	0.0
4.88	5	--	--	--	71.20	14.56	3.56	3.56	8.41	8.41	0.97	0.0	0.0	1.29	0.0
6.33	6	--	--	--	75.57	13.36	2.61	2.61	6.84	6.84	1.63	0.0	0.0	0.0	0.0
7.78	7	--	--	--	70.10	19.93	3.65	3.65	5.65	5.65	0.66	0.0	0.0	0.0	0.0
9.30	8	--	--	--	72.22	19.14	1.85	1.85	4.94	4.94	1.23	0.62	0.0	0.0	0.0
10.98	9	--	--	--	73.38	18.51	2.92	2.92	4.55	4.55	0.65	0.0	0.0	0.0	0.0
12.66	10	--	--	--	89.16	5.41	1.92	1.92	2.24	2.24	0.32	0.0	0.64	0.32	0.0
14.33	11	--	--	--	87.38	8.97	0.33	0.33	3.32	3.32	0.0	0.0	0.0	0.0	0.0
16.01	12	--	--	--	92.00	6.00	0.33	0.33	1.67	1.67	0.0	0.0	0.0	0.0	0.0
17.54	13	--	--	--	88.10	6.11	0.0	0.0	4.18	4.18	0.0	0.0	0.64	0.96	0.0
19.06	14	--	--	--	92.33	3.51	0.0	0.0	2.88	2.88	0.0	0.0	1.28	0.0	0.0

APPENDIX 2.—Continued.

CORE S71

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	AGG	PLTM	FORB
0.0	1	28.04	47.34	24.62	59.69	22.81	1.50	2.81	0.0	0.63	0.0	7.19	4.69
0.61	2	23.97	51.04	24.99	55.63	18.97	9.00	6.75	0.0	3.54	0.0	2.89	2.89
1.07	3	-	-	-	54.88	36.28	0.30	1.22	0.0	0.0	0.0	0.0	7.01
1.83	4	-	-	-	51.38	36.92	1.85	1.54	0.0	0.0	0.0	0.31	6.15
2.14	33	14.31	76.93	8.76	84.24	4.18	3.86	0.0	0.0	0.96	0.0	3.54	0.96
2.90	34	4.56	85.19	10.25	23.43	0.0	45.87	0.0	0.0	0.0	2.64	28.05	0.0
3.05	5	2.51	58.55	38.94	44.14	16.05	7.10	0.31	0.0	2.78	0.0	23.15	3.40
4.27	35	3.43	86.12	10.45	52.74	1.44	18.16	0.58	0.0	1.44	2.31	19.89	0.58
5.34	36	18.95	68.78	12.27	62.82	0.64	0.64	0.32	0.32	0.64	1.60	3.85	8.33
6.10	6	14.86	35.77	49.36	74.50	10.60	1.99	1.32	0.0	3.31	0.0	5.96	0.66
6.86	7	-	-	-	83.39	13.79	1.88	0.31	0.0	0.31	0.0	0.31	0.0
8.39	8	-	-	-	83.12	13.64	0.97	0.65	0.0	0.65	0.0	0.65	0.0
9.91	9	-	-	-	69.87	20.51	3.85	2.56	0.0	0.96	0.0	2.24	0.0
11.44	10	-	-	-	66.02	14.24	9.39	5.83	0.0	0.0	0.0	2.91	0.97
12.20	37	28.47	58.74	12.79	78.15	4.30	0.66	0.33	0.33	0.0	0.0	15.23	0.66
12.51	38	4.53	76.33	19.14	44.85	0.30	0.91	0.0	0.61	0.30	0.61	52.13	0.0
12.96	11	33.25	25.79	40.96	80.00	6.89	0.98	0.98	0.0	0.98	0.0	10.16	0.0
13.39	12	-	-	-	86.23	12.13	0.0	0.66	0.0	0.33	0.0	0.0	0.33
14.49	13	-	-	-	87.13	10.23	0.66	0.99	0.0	0.66	0.0	0.0	0.0
16.01	14	-	-	-	88.16	11.18	0.0	0.66	0.0	0.0	0.0	0.0	0.0
17.54	15	-	-	-	78.26	13.35	0.62	0.62	0.0	0.93	0.62	2.48	0.0
19.06	16	-	-	-	70.20	8.61	0.0	0.33	0.0	0.33	18.21	1.66	0.0
20.59	17	-	-	-	81.46	6.29	0.0	0.0	0.0	0.0	11.26	0.66	0.0
22.11	18	-	-	-	86.54	5.13	0.0	0.0	0.0	0.0	6.73	0.64	0.64
23.64	19	-	-	-	86.82	7.07	0.0	0.0	0.0	0.32	4.82	0.32	0.0
25.16	20	-	-	-	86.60	7.19	0.0	0.0	0.0	0.0	5.56	0.0	0.0
26.69	21	-	-	-	86.23	5.90	0.0	0.0	0.0	0.0	7.21	0.0	0.0
28.21	22	-	-	-	85.11	7.62	0.0	0.0	0.0	0.0	8.61	0.0	0.0
29.74	23	-	-	-	85.53	7.57	0.0	0.66	0.0	0.66	3.29	0.0	0.66
31.26	24	-	-	-	78.50	13.71	0.0	0.0	0.0	0.62	6.23	0.0	0.0
32.79	25	-	-	-	85.89	10.43	0.31	0.31	0.0	0.0	2.15	0.0	0.0
34.31	26	-	-	-	80.84	11.04	0.0	2.27	0.0	0.65	4.22	0.0	0.0
35.84	27	-	-	-	82.68	9.15	0.0	0.33	0.0	0.0	6.86	0.33	0.0

APPENDIX 2.—Continued.

CORE S71		CARBON-14										
DEPTH	NO	GSHW	GSHF	PSHW	PSHF	SHLO	OSTR	DIAT	OTH	CARBON-14		
0.0	1	0.0	0.0	0.0	0.31	0.62	0.0	0.0	0.63			
0.61	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32			
1.07	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30			
1.83	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.92			
2.14	33	0.0	0.0	0.0	0.0	0.96	1.29	0.0	0.0	3030 +/-90		
2.90	34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3.05	5	0.0	0.62	0.0	0.0	0.0	0.0	0.0	2.47			
4.27	35	0.0	0.0	0.0	0.0	2.02	0.58	0.29	0.0			
5.34	36	0.0	0.0	0.0	0.0	20.19	0.64	0.0	0.0	4460 +/- 80		
6.10	6	0.0	0.0	0.0	1.66	0.0	0.0	0.0	0.0			
6.86	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8.39	8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32			
9.91	9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
11.44	10	0.0	0.0	0.0	0.32	0.32	0.0	0.0	0.0			
12.20	37	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	6,860 +/-50		
12.51	38	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0			
12.96	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7250 +/-100		
13.39	12	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0			
14.49	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33			
16.01	14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
17.54	15	0.31	0.0	0.0	0.62	0.0	0.0	0.0	2.17			
19.06	16	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.33			
20.59	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.33			
22.11	18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32			
23.64	19	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.32			
25.16	20	0.0	0.0	0.33	0.33	0.0	0.0	0.0	0.0			
26.69	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66			
28.21	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66			
29.74	23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
31.26	24	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.62			
32.79	25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.92			
34.31	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97			
35.84	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.65			

APPENDIX 2.—Continued.

CORE S72

DEPTH	NO	GSHW	GSHF	PSHW	SHLO	OSTR	SPNG	ECHN	DIAT	OTH	CARBON-14
0.0	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.82	
1.52	2	0.32	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.97	
1.68	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98	
1.98	17	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	
3.05	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	
3.51	18	0.0	0.0	0.93	0.0	0.0	0.0	0.0	0.0	0.0	
4.57	5	1.41	1.76	0.0	36.27	0.0	0.0	0.0	0.0	0.35	2900+/- 70
4.60	6	2.17	0.72	0.0	33.21	0.0	0.0	0.0	0.0	0.36	
5.19	19	0.0	0.0	0.32	0.65	0.0	0.0	0.0	0.0	0.0	
6.10	7	0.0	0.0	0.0	0.0	0.64	1.29	0.32	1.29	0.0	
7.62	8	0.0	0.0	0.0	0.0	0.64	1.29	0.0	0.96	0.0	
8.08	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8.70	21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6420+/- 80
9.15	9	0.32	0.0	0.0	0.64	0.0	0.0	0.0	0.0	4.46	
9.91	10	0.32	0.32	0.0	0.64	0.64	0.0	0.0	0.0	0.64	
11.44	11	0.31	0.62	0.31	1.26	0.0	0.0	0.0	0.0	0.0	
12.96	12	0.62	0.0	0.0	0.92	0.31	0.0	0.0	0.0	1.85	
14.19	13	0.93	0.31	0.0	0.93	0.31	0.0	0.0	0.0	5.56	
16.01	14	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.65	
17.54	15	0.28	0.28	0.0	0.0	0.0	0.0	0.0	0.0	2.51	
19.06	16	0.0	0.32	0.0	0.32	0.0	0.0	0.0	0.0	5.79	

APPENDIX 2.—Continued.

CORE S73

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	AGG	PLTM	FORB
0.0	1	79.76	7.92	12.32	69.08	20.39	0.0	0.0	0.0	0.0	0.66	0.0	6.58
1.53	2	1.22	31.40	12.32	62.38	4.62	1.65	0.0	0.0	0.0	0.99	13.20	15.18
1.68	32	76.79	21.14	2.07	86.34	5.90	1.86	0.31	0.0	0.0	0.0	0.31	0.93
2.14	33	7.58	87.50	4.91	81.25	5.94	9.38	1.25	0.0	0.94	0.63	0.31	0.0
2.44	34	3.31	83.14	13.55	28.30	0.0	36.48	0.0	0.0	1.57	1.57	31.13	0.94
2.90	35	1.52	87.50	10.98	19.58	0.59	15.73	0.0	0.0	0.0	0.0	30.86	22.55
3.05	3	63.08	12.93	23.99	0.94	0.0	0.0	0.0	0.0	0.0	0.0	1.26	63.84
3.81	4	--	--	--	74.45	16.40	0.32	0.32	0.0	0.32	0.0	0.32	3.15
5.03	36	4.35	85.91	9.74	65.25	0.98	13.11	0.66	0.33	1.31	1.31	16.07	0.33
5.80	37	21.98	70.88	7.14	81.55	4.46	4.17	0.60	0.0	0.60	2.98	4.76	0.30
6.10	5	5.51	58.84	35.65	48.11	2.20	25.47	0.0	0.0	0.94	12.26	7.86	1.57
6.71	38	1.08	87.11	11.81	10.32	0.0	26.77	0.0	0.65	0.0	0.0	62.26	0.0
7.63	6	1.09	43.54	55.38	15.32	0.0	35.14	0.0	0.0	0.60	15.62	26.43	5.71
7.93	39	5.30	83.44	11.26	78.13	4.06	2.81	0.31	0.0	0.94	4.38	6.56	1.25
8.54	40	0.14	86.50	13.36	64.35	0.95	1.26	0.0	0.95	0.95	0.95	24.29	5.68
9.15	7	0.66	46.96	52.38	64.51	1.54	4.32	0.0	0.0	0.0	6.48	18.21	2.78
9.46	41	0.71	87.35	11.95	63.64	1.52	3.94	0.61	0.61	0.30	0.91	19.09	2.73
10.07	42	0.39	89.52	10.10	42.09	1.58	2.53	0.0	0.32	0.0	1.27	51.26	0.95
10.68	8	1.23	27.88	70.89	80.38	8.86	0.63	0.0	0.0	0.0	4.75	0.32	5.06
10.98	43	2.95	87.09	9.96	10.92	0.86	11.78	0.0	3.16	3.74	0.0	68.39	0.57
11.74	44	1.61	82.59	15.80	75.25	3.96	0.0	0.0	2.31	1.98	2.31	0.99	13.20
12.81	9	11.65	64.07	24.28	66.34	0.65	0.0	0.0	0.0	0.0	2.61	28.43	0.65
12.90	45	11.65	73.95	14.39	85.89	1.25	0.31	0.0	2.82	0.94	2.82	3.45	1.25
13.12	10	87.01	3.69	9.30	87.66	9.74	0.0	0.0	0.0	0.0	1.95	0.0	0.0
13.42	11	--	--	--	83.92	10.61	0.64	0.0	0.0	1.29	0.96	0.0	0.96
11.73	46	45.57	50.41	4.02	84.84	4.19	3.23	0.0	0.32	2.58	1.29	1.30	0.32
14.34	47	31.34	64.85	3.81	82.53	2.11	6.93	0.0	0.0	3.31	2.11	0.0	0.0
15.25	12	69.80	17.48	12.72	83.96	9.75	1.57	0.0	0.0	0.0	0.0	0.0	0.0
16.01	13	--	--	--	81.31	12.79	0.0	0.0	0.98	0.66	0.0	0.0	1.31
17.54	14	--	--	--	86.97	8.47	0.0	0.33	0.0	0.65	0.0	0.33	1.95
19.06	15	--	--	--	89.90	6.51	0.0	0.0	0.0	0.0	0.0	0.0	2.28

APPENDIX 2.—Continued.

CORE S73

DEPTH	NO	GSHW	GSHF	PSHW	PSHF	SHLO	OSTR	OTH	CARBON-14
20.59	16	0.0	0.0	0.0	0.0	0.32	0.0	0.65	
22.11	17	0.0	0.0	0.0	0.0	1.30	0.0	0.99	
23.64	18	0.0	0.0	0.0	0.32	0.64	0.0	0.64	
25.16	19	0.0	0.0	0.0	0.0	0.96	0.0	0.0	
26.38	20	0.0	0.0	0.0	0.0	0.32	0.0	0.64	
28.21	21	0.0	0.0	0.31	0.0	0.62	0.0	0.93	
29.74	22	0.0	0.0	0.0	0.0	1.29	0.32	0.32	
31.26	23	0.0	0.0	0.0	0.0	0.65	0.33	0.98	
32.79	24	0.0	0.0	0.0	0.0	0.32	0.0	0.65	
34.31	25	0.0	0.0	0.0	0.0	0.33	0.0	0.0	
35.84	26	0.0	0.0	0.0	0.0	0.0	0.0	1.60	
37.36	27	0.0	0.0	0.0	0.0	0.32	0.0	1.59	
38.89	28	0.0	0.0	0.0	0.0	0.33	0.0	0.65	
40.41	29	0.0	0.0	0.0	0.0	0.33	0.0	0.0	
41.94	30	0.0	0.0	0.0	0.0	0.66	0.0	0.66	
43.46	31	0.0	0.0	0.0	0.0	0.66	0.0	0.0	

APPENDIX 2.—Continued.

CORE S74		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	AGG	PLTM	FORB
0.0	1	29.81	47.76	22.43	31.72	0.0	11.65	0.0	0.0	0.0	0.0	3.56	42.00	7.44	1.29
1.37	2	--	--	--	16.93	0.0	1.60	0.64	0.0	0.0	0.0	0.0	3.51	0.64	20.77
2.75	14	75.30	22.02	2.68	81.07	0.32	0.95	4.42	0.0	0.0	0.0	0.0	0.0	0.63	0.0
3.97	3	39.06	40.69	20.25	50.00	0.0	7.69	2.56	0.0	0.0	0.0	3.85	30.77	4.81	0.0
5.03	15	29.60	60.87	9.52	88.68	0.0	2.52	4.40	0.0	0.63	0.0	0.0	1.26	0.31	0.31
5.49	4	4.74	72.75	22.51	27.36	0.0	13.52	0.0	0.0	0.0	0.0	4.40	33.96	19.81	0.0
5.80	16	4.76	83.70	11.54	86.27	0.60	2.99	1.79	0.0	0.0	0.0	0.0	0.30	3.28	1.19
7.02	5	2.58	58.23	39.20	32.21	0.0	10.36	0.0	0.0	0.0	0.0	1.68	29.13	17.65	5.32
7.32	17	14.35	77.37	8.27	89.10	0.62	2.49	2.49	0.0	0.0	0.0	0.62	0.62	1.56	1.25
8.54	6	2.77	49.68	47.55	84.81	0.0	0.0	5.70	0.0	0.0	0.0	0.0	8.86	0.0	0.0
8.70	18	77.37	19.34	3.30	89.10	0.0	0.27	7.08	0.0	0.0	0.27	0.54	0.0	0.0	1.36
9.15	7	72.74	18.87	8.38	94.37	0.0	0.0	3.97	0.0	0.0	0.0	0.0	0.66	0.0	0.0
9.91	8	--	--	--	0.0	0.64	2.56	81.85	0.0	0.0	0.0	0.32	12.14	0.32	0.0
11.44	9	--	--	--	0.0	2.07	5.03	76.33	0.0	0.0	0.0	2.07	10.95	1.18	0.0
12.96	10	--	--	--	0.0	2.82	4.44	82.26	0.0	0.0	0.0	5.65	2.82	0.40	0.0
14.49	11	--	--	--	0.0	0.66	4.98	83.39	0.0	0.0	0.0	2.33	5.98	0.0	0.0
16.01	12	--	--	--	0.0	0.66	4.93	84.87	0.0	0.0	0.0	0.0	6.25	0.0	0.0
17.54	13	--	--	--	0.0	0.0	3.90	86.69	0.0	0.0	0.0	1.95	5.84	0.0	0.0

APPENDIX 2.—Continued.

CORE S74

DEPTH	NO	GSHW	FSHF	SHLO	OSTR	SPNG	OTH	CARBON-14
0.0	1	0.0	0.0	0.0	0.0	0.0	1.62	
1.37	2	3.19	1.92	42.81	7.99	0.0	0.0	
2.75	14	0.0	0.0	9.15	0.95	0.0	0.0	
3.97	3	0.0	0.0	0.0	0.0	0.0	0.32	6290 +/-140
5.03	15	0.0	0.0	0.31	0.0	0.0	0.0	
5.49	4	0.0	0.0	0.0	0.0	0.0	0.94	
5.80	16	0.0	0.0	0.30	1.49	1.79	0.0	
7.02	5	0.0	0.0	2.52	0.56	0.0	0.56	
7.32	17	0.0	0.0	1.25	0.0	0.0	0.0	
8.54	6	0.0	0.0	0.0	0.0	0.0	0.63	
8.70	18	0.0	0.0	1.09	0.27	0.0	0.0	
9.15	7	0.0	0.0	0.0	0.0	0.0	0.99	6420 +/- 90
9.91	8	0.0	0.0	0.32	0.64	0.0	1.92	
11.44	9	0.30	0.0	0.89	0.0	0.0	1.18	
12.96	10	0.0	0.0	0.0	0.0	0.0	1.61	
14.49	11	0.0	0.0	0.0	0.0	0.0	2.66	
16.01	12	0.0	0.0	0.33	0.0	0.0	2.96	
17.54	13	0.0	0.0	0.65	0.0	0.0	0.97	

APPENDIX 2.—Continued.

CORE S75

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	AGG	PLTM	FORB
0.0	1	51.90	38.42	9.68	29.17	0.0	3.21	0.0	0.0	3.85	56.09	5.45	0.96
0.15	2	--	--	--	57.32	18.69	0.0	0.0	0.0	0.0	0.0	1.87	9.97
0.92	3	38.52	32.20	29.28	55.23	7.53	6.69	0.0	0.0	6.69	2.93	16.32	2.93
1.53	4	38.22	36.80	24.98	50.00	5.59	2.30	0.0	0.0	2.63	10.53	22.70	2.96
2.14	21	45.85	40.37	13.79	85.95	4.58	2.29	0.65	0.0	0.65	2.94	0.65	0.98
2.89	22	78.80	18.84	2.37	89.87	6.21	0.0	0.98	0.0	1.96	0.0	0.0	0.65
2.60	23	77.50	18.24	4.26	61.40	3.51	0.29	0.0	0.0	0.58	1.46	1.46	5.85
3.36	5	84.50	7.37	8.13	69.45	11.58	3.22	0.0	0.0	5.47	9.00	1.29	0.0
3.97	6	--	--	--	78.34	7.32	0.96	0.0	0.0	2.55	4.46	0.96	0.64
5.34	7	--	--	--	71.43	18.83	0.32	0.0	0.0	3.57	2.60	0.32	0.0
6.56	8	--	--	--	57.74	2.90	0.65	0.0	0.0	7.10	18.06	0.0	0.0
7.63	24	0.49	36.95	62.56	9.26	0.62	0.62	0.0	66.36	4.32	0.0	0.0	14.20
8.54	9	17.49	50.80	31.70	27.72	3.30	8.91	0.0	0.0	2.97	33.00	2.97	0.0
9.00	25	4.58	33.27	62.15	72.93	4.14	1.59	0.64	9.55	2.55	0.0	1.27	1.27
9.46	26	0.14	38.97	60.90	68.83	1.62	6.49	0.32	1.30	0.65	0.97	17.53	0.65
10.07	10	0.17	42.20	57.63	39.43	0.63	5.05	0.0	0.0	2.21	11.04	37.85	1.26
10.68	27	4.69	47.70	47.61	61.86	3.21	4.49	0.0	8.97	2.56	1.92	11.86	1.28
11.59	11	0.29	30.67	69.04	31.05	0.33	0.0	0.0	0.0	3.27	3.92	0.33	47.71
11.90	28	0.19	67.93	31.88	84.59	3.77	0.0	0.0	0.63	3.46	0.31	3.14	1.26
13.12	12	7.97	54.37	37.67	75.32	7.79	0.32	0.0	0.0	0.32	0.32	0.32	13.31
13.26	30	6.90	71.39	21.71	65.18	2.08	0.30	0.0	0.30	1.19	5.95	2.38	17.86
13.42	29	2.98	62.97	34.05	60.00	5.48	0.65	0.0	0.0	0.97	0.0	0.32	29.35
14.34	13	65.98	9.13	24.90	80.91	12.94	0.0	0.0	0.0	2.91	0.97	0.97	0.0
14.79	14	--	--	--	77.51	14.29	1.22	0.0	0.0	1.22	2.43	0.0	0.0
16.01	15	--	--	--	74.28	12.22	0.0	0.0	0.0	2.89	5.47	0.0	0.0
17.54	16	--	--	--	73.99	12.07	1.55	0.0	0.0	0.93	7.74	0.0	1.24
19.06	17	--	--	--	78.90	7.79	0.32	0.0	0.0	1.95	8.12	0.0	0.0
20.59	18	--	--	--	72.73	14.61	1.30	0.0	0.0	3.90	3.90	0.0	0.32
22.11	19	--	--	--	76.09	9.32	0.93	0.0	0.0	2.17	5.90	0.0	0.62
23.64	20	--	--	--	81.03	12.54	0.32	0.0	0.0	0.0	3.86	0.0	0.0

APPENDIX 2.—Continued.

CORE S75

DEPTH	NO	GSHW	GSHF	PSHF	SHLO	OSTR	DIAT	OTH	CARBON-14
0.0	1	0.32	0.0	0.0	0.96	0.0	0.0	0.0	
0.15	2	0.0	0.0	0.0	5.61	0.0	0.0	6.54	
0.92	3	0.0	0.0	0.0	0.0	0.0	0.0	1.67	
1.53	4	0.0	0.33	0.0	0.66	0.33	0.0	1.97	
2.14	21	0.0	0.0	0.0	0.33	0.0	0.0	0.98	
2.89	22	0.0	0.0	0.0	0.0	0.33	0.0	0.0	
2.60	23	0.58	0.0	0.0	20.76	4.09	0.0	0.0	2900 +/- 60
3.36	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3.97	6	0.0	0.0	0.0	2.87	1.27	0.0	0.64	
5.34	7	0.0	0.0	0.0	0.0	0.0	0.0	2.92	
6.56	8	0.0	0.0	0.0	0.0	0.0	0.0	13.55	
7.63	24	0.0	0.0	0.0	4.01	0.62	0.0	0.0	5830 +/- 90
8.54	9	0.33	0.0	0.0	0.0	0.0	0.0	20.79	
9.00	25	0.0	0.0	0.0	5.73	0.32	0.0	0.0	
9.46	26	0.0	0.0	0.0	1.62	0.0	0.0	0.0	
10.07	10	0.0	0.0	0.0	0.0	0.0	0.0	2.52	
10.68	27	0.32	0.0	0.0	2.88	0.64	0.0	0.0	
11.59	11	0.0	0.0	0.0	7.19	5.56	0.0	0.65	
11.90	28	0.0	0.0	2.83	0.0	0.0	0.0	0.0	
13.12	12	0.0	0.0	0.0	0.97	0.0	0.0	1.30	
13.26	30	0.0	0.0	0.0	3.87	0.89	0.0	0.0	
13.42	29	0.0	0.0	0.0	2.26	0.65	0.32	0.0	
14.34	13	0.0	0.0	0.0	0.0	0.0	0.0	1.29	6960 +/- 110
14.79	14	0.0	0.0	0.0	0.61	0.91	0.0	1.82	
16.01	15	0.0	0.0	0.0	0.0	0.0	0.0	5.14	
17.54	16	0.0	0.0	0.0	1.24	0.62	0.0	0.62	
19.06	17	0.0	0.0	0.0	1.62	0.0	0.0	1.30	
20.59	18	0.0	0.0	0.0	0.32	0.0	0.0	2.92	
22.11	19	0.0	0.0	0.31	0.62	0.0	0.0	4.04	
23.64	20	0.0	0.0	0.0	1.29	0.0	0.0	0.96	

APPENDIX 2.—Continued.

CORE S76

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	AGG	PLTM	FORB
0.0	1	41.39	47.11	11.50	20.38	1.25	3.45	0.0	0.0	1.25	43.57	22.57	3.13
1.53	2	25.06	43.07	31.86	11.51	0.99	1.64	0.0	0.0	1.64	19.41	3.29	6.58
1.83	15	17.09	78.73	4.18	46.15	2.96	5.92	2.96	0.0	1.18	3.55	5.03	2.37
2.14	16	41.44	54.40	4.15	88.16	2.63	0.33	0.66	0.0	1.97	1.97	3.00	15.00
2.44	3	47.10	38.83	14.07	0.67	0.0	5.33	0.0	0.0	0.0	0.0	4.13	4.13
2.75	17	11.63	82.92	5.46	66.96	2.36	2.65	0.0	0.0	2.06	4.42	0.0	13.61
3.51	18	60.21	37.71	2.08	1.58	0.0	0.0	0.0	0.0	0.0	0.32	0.0	1.88
3.97	4	84.47	6.92	8.61	0.0	0.0	0.0	0.0	0.0	0.0	27.81	0.0	18.30
4.58	19	40.19	48.91	10.90	14.05	1.31	0.33	0.0	0.65	0.98	3.92	0.33	23.64
5.49	5	8.33	31.72	59.95	10.22	0.0	15.97	0.0	0.0	0.0	0.0	17.25	12.14
5.94	20	65.24	25.35	9.41	8.38	0.0	0.0	0.0	0.58	0.29	0.87	0.0	0.32
6.56	21	0.77	76.14	23.09	7.59	0.0	2.22	0.0	30.70	0.0	0.0	6.65	4.47
7.02	6	0.71	39.94	59.35	37.70	1.60	2.56	0.0	0.0	3.83	18.53	8.63	0.65
7.32	22	0.14	79.94	19.92	78.50	4.56	0.33	0.0	11.40	0.0	0.0	2.28	0.92
7.93	23	0.17	72.95	26.88	81.04	3.67	0.0	0.0	11.31	1.83	0.0	0.92	1.95
8.54	7	1.15	37.92	60.93	60.06	9.09	1.95	0.0	0.0	5.52	7.79	6.17	4.49
9.30	8	--	--	--	10.90	1.28	0.64	0.0	0.0	0.64	48.08	0.0	5.52
11.13	9	--	--	--	40.26	4.22	0.97	0.0	0.0	1.62	28.25	0.0	4.23
12.96	10	--	--	--	22.66	0.0	3.02	0.0	0.0	0.0	25.98	0.0	6.79
14.25	11	--	--	--	40.74	1.54	2.78	0.0	0.0	0.0	16.05	0.93	3.80
16.01	12	--	--	--	42.69	2.34	2.05	0.0	0.0	1.17	21.64	2.63	0.64
17.54	13	--	--	--	70.42	4.18	0.0	0.0	0.0	1.61	9.00	0.32	6.11
19.06	14	--	--	--	32.15	1.29	2.89	0.0	0.0	0.96	30.23	2.57	

APPENDIX 2.—Continued.

CORE S76

DEPTH	NO	GSHW	PSHW	PSHF	SHLO	OSTR	ECHN	DIAT	OTH	CARBON-14
0.0	1	0.0	0.0	0.0	1.88	0.31	0.0	0.0	2.19	
1.53	2	0.0	0.0	0.0	1.32	6.58	0.88	0.0	46.38	
1.83	15	0.0	0.0	0.0	27.51	2.37	0.0	0.0	0.0	
2.14	16	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	
2.44	3	0.0	0.0	0.0	68.00	4.33	0.0	0.0	3.67	
2.75	17	0.0	0.0	0.0	11.21	2.06	0.0	0.0	0.0	
3.51	18	0.0	0.0	0.0	77.85	6.65	0.0	0.0	0.0	
3.97	4	5.94	0.0	0.63	53.13	10.00	0.0	0.0	0.64	
4.58	19	0.0	0.0	0.0	58.17	1.96	0.0	0.0	0.0	
5.49	5	0.0	0.0	0.64	28.75	0.96	0.0	1.60	0.96	4950 +/-130
5.94	20	0.0	0.0	0.0	76.59	1.16	0.0	0.0	0.0	
6.56	21	33.54	0.0	0.0	18.99	0.32	0.0	0.0	0.0	
7.02	6	0.0	0.0	0.0	20.77	1.92	0.0	0.0	0.0	
7.32	22	1.30	0.0	0.0	1.63	0.0	0.0	0.0	0.0	
7.93	23	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	
8.54	7	0.0	0.0	5.52	0.65	0.0	0.0	0.0	1.30	6680 +/- 100
9.30	8	0.0	0.0	0.0	22.44	9.62	0.0	0.0	1.92	
11.13	9	0.0	0.0	0.0	10.39	4.55	0.0	0.0	4.22	
12.96	10	3.63	0.0	0.0	34.14	5.44	0.0	0.0	0.91	
14.25	11	0.0	1.23	0.0	23.15	1.85	0.0	0.0	4.94	
16.01	12	0.0	0.0	0.0	10.23	5.56	0.0	0.0	7.89	
17.54	13	0.32	0.0	0.0	8.68	1.61	0.0	0.0	3.22	
19.06	14	0.0	0.0	0.0	19.61	2.57	0.0	0.0	1.61	

APPENDIX 2.—Continued.

CORE S77		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB	FORP
0.0	1	50.72	48.41	0.87	10.89	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.75	0.0	0.99	0.0
2.75	2	83.30	15.58	1.12	32.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.91	26.84	0.0	0.0
3.97	3	--	--	--	30.13	8.32	0.32	0.0	0.0	0.0	0.0	0.64	0.0	5.45	2.88	0.96	0.0
5.2	29	23.03	57.66	19.31	29.6	1.5	0.0	0.0	0.0	0.0	7.9	2.8	0.3	3.1	1.0	2.4	0.0
5.8	30	2.54	32.36	65.10	43.7	2.5	0.3	0.0	0.0	0.0	3.0	0.6	0.0	1.1	1.7	2.5	0.0
6.1	31	2.79	63.03	34.18	52.3	3.1	0.0	0.0	0.0	0.0	1.4	0.6	0.3	0.6	2.3	1.9	0.0
6.7	32	4.05	57.73	38.22	18.3	1.8	0.5	0.0	0.0	0.0	0.2	28.6	0.0	0.0	3.7	2.5	0.0
6.71	4	2.76	64.64	32.60	56.44	6.27	0.0	0.0	0.0	0.0	0.0	0.33	0.0	1.98	4.29	8.25	0.0
7.0	33	1.02	46.83	52.15	74.9	2.9	0.0	0.0	0.0	0.0	2.0	1.5	0.6	0.9	1.2	4.0	0.0
7.7	34	5.62	62.33	32.05	45.2	0.7	0.3	0.0	0.0	0.0	1.3	2.1	0.0	1.0	4.7	0.0	0.0
8.24	5	1.79	72.49	25.72	83.33	7.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.88	0.64	0.0	0.0
8.3	35	7.32	66.20	26.48	21.5	1.5	0.6	0.0	0.0	0.0	5.1	2.4	0.0	1.2	3.33	3.9	0.3
8.4	36	0.84	63.83	35.33	50.6	3.0	1.2	0.0	0.0	0.0	1.2	0.0	0.0	1.7	1.5	5.2	0.0
8.6	37	1.21	42.17	56.62	91.6	3.7	2.5	0.3	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
8.99	6	70.75	25.89	3.36	82.03	7.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.63	3.59	0.0	0.0
9.91	7	--	--	--	71.99	10.75	1.63	1.95	0.0	1.95	0.0	3.26	0.0	4.23	0.33	0.33	0.0
10.8	38	10.45	22.05	67.49	95.1	0.6	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.1	39	1.32	47.74	50.95	85.4	4.9	4.9	0.0	0.0	0.0	0.0	2.1	0.0	1.8	0.0	0.0	0.0
11.6	40	1.58	57.80	40.62	59.5	6.1	10.7	0.3	0.0	0.0	1.3	3.2	0.0	12.6	0.0	0.0	0.0
12.2	41	52.34	22.49	25.17	88.3	1.2	0.6	0.0	0.0	0.0	0.0	5.5	0.0	1.2	0.3	0.0	0.0
12.20	8	37.34	15.48	47.19	91.88	3.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.62	0.65	0.0	0.0
12.3	42	69.68	21.57	8.75	95.5	1.8	0.9	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.0	0.0	0.0
12.4	43	95.39	4.58	0.02	95.5	0.3	0.3	0.0	0.0	0.0	0.0	2.4	0.0	0.3	0.3	0.0	0.0
12.81	9	82.08	2.82	15.10	91.86	6.84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.57	10	--	--	--	80.19	5.84	0.65	0.32	0.0	0.32	0.0	0.32	0.0	7.47	0.0	0.0	0.0
14.79	11	--	--	--	83.28	7.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.33	0.67	0.0
16.01	12	--	--	--	82.52	10.36	0.0	0.0	0.0	0.0	0.0	0.65	0.0	2.27	0.32	0.0	0.0
16.7	44	25.28	61.23	48.17	96.2	1.6	0.0	0.3	0.0	0.3	0.0	0.0	0.0	1.2	0.0	0.0	0.0
17.5	45	35.56	16.27	48.17	88.2	3.4	0.3	0.0	0.0	0.0	0.0	5.5	0.0	2.1	0.0	0.0	0.0
17.69	13	79.06	12.89	8.05	95.32	4.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.0	0.0	0.0
18.45	14	--	--	--	85.62	10.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.96	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S77		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB	FORP
19.98	15	--	--	--	90.49	3.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.93	0.0	0.0	0.0
21.50	16	--	--	--	89.51	6.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.64	0.0	0.0	0.0
23.03	17	--	--	--	85.20	9.87	0.0	0.99	0.33	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0
24.55	18	--	--	--	85.16	10.32	0.0	0.99	0.32	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0
26.08	19	--	--	--	82.89	13.82	0.0	0.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.60	20	--	--	--	82.45	14.90	0.33	0.66	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0
29.13	21	--	--	--	81.13	13.91	0.0	0.66	0.0	0.0	0.0	0.0	0.0	2.32	0.0	0.0	0.0
30.65	22	--	--	--	84.72	12.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.99	0.0	0.0	0.0
32.18	23	--	--	--	83.82	12.30	0.0	1.62	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0
33.70	24	--	--	--	83.06	13.03	0.65	0.98	0.0	0.98	0.0	0.0	0.0	0.65	0.0	0.0	0.0
35.23	25	--	--	--	80.71	13.50	0.0	0.96	0.0	0.64	0.0	0.0	0.0	2.57	0.0	0.0	0.0
36.75	26	--	--	--	81.25	15.79	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0
38.28	27	--	--	--	81.85	7.59	0.0	0.99	0.0	1.32	0.0	0.0	0.0	2.64	0.0	0.66	0.0
39.50	28	--	--	--	83.65	10.58	0.0	0.64	0.0	0.32	0.0	0.0	0.0	1.28	0.0	0.96	0.0

APPENDIX 2.—Continued.

CORE S78		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB	FORP
0.0	1	51.66	28.94	19.41	72.9	4.6	0.3	0.0	0.0	0.0	0.0	7.0	0.3	1.3	7.4	0.0	0.0
0.3	16	48.36	32.14	19.49	89.3	5.3	3.3	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
1.5	2	48.60	30.93	20.47	83.4	8.4	0.9	0.0	0.0	0.0	0.0	1.7	0.6	0.3	0.0	0.3	0.0
1.7	17	58.41	35.08	6.51	84.1	6.6	0.7	0.0	0.0	0.0	0.0	3.8	0.0	0.7	0.0	0.0	0.0
3.0	3	59.17	19.80	21.04	85.2	8.8	0.3	0.0	0.0	0.0	0.0	1.6	0.9	0.0	0.0	0.0	0.0
4.0	4	--	--	--	17.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0
4.3	18	18.01	34.44	47.55	6.0	0.3	1.1	0.0	0.0	0.0	1.1	1.4	0.0	0.0	0.0	3.2	0.0
4.6	19	21.56	61.39	17.05	4.6	0.0	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0
5.2	20	19.55	35.90	44.55	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5	1.3
5.8	5	2.80	45.05	52.15	61.8	3.2	0.0	0.0	0.0	10.6	10.6	5.1	0.0	0.0	0.6	0.0	0.0
5.9	21	20.07	42.11	37.83	42.6	1.0	4.8	1.3	0.0	2.3	2.3	4.4	0.0	0.3	0.0	11.9	0.0
7.0	22	15.35	61.77	22.87	76.0	2.7	4.2	1.5	0.0	1.5	2.1	6.9	0.0	0.0	1.5	0.0	0.0
7.1	23	79.96	10.08	9.96	91.4	1.8	0.9	2.1	0.0	0.3	0.3	1.2	0.0	0.0	0.3	0.0	0.0
7.3	6	21.40	32.53	46.07	75.4	2.7	0.9	0.0	0.0	0.0	0.0	1.8	0.0	0.6	0.6	0.0	0.0
7.4	24	25.39	33.87	40.74	70.7	4.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.6	25	21.36	33.99	44.65	61.8	0.0	0.3	0.0	0.0	0.0	0.0	7.5	0.0	0.6	0.0	0.0	0.0
7.9	7	16.44	28.53	55.03	67.9	3.1	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.0	0.0	0.0
8.0	8	--	--	--	0.0	81.1	3.7	0.0	0.0	0.0	0.0	9.1	0.0	0.9	0.0	0.0	0.0
10.0	9	--	--	--	0.0	79.9	4.7	0.0	0.0	0.0	0.0	9.2	0.0	0.3	0.0	0.0	0.0
11.0	10	--	--	--	0.0	82.2	5.6	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0
13.0	11	--	--	--	0.0	73.7	7.2	0.0	0.0	0.0	0.0	12.7	0.0	1.1	0.0	0.0	0.0
14.0	12	--	--	--	0.0	88.3	5.2	0.0	0.0	0.0	0.0	2.3	1.3	0.0	0.0	0.0	0.0
16.0	13	--	--	--	0.0	80.3	5.8	0.0	0.0	0.0	0.0	9.4	0.0	0.6	0.0	0.0	0.0
17.0	14	--	--	--	0.0	85.5	4.4	0.0	0.0	0.0	0.0	4.7	1.6	0.0	0.0	0.0	0.0
19.0	15	--	--	--	0.0	78.5	5.4	0.0	0.0	0.0	0.0	11.5	0.9	0.9	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S79	DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB	FORP
	0.0	1	54.41	24.15	21.44	5.2	0.3	0.0	0.0	0.0	0.0	0.0	0.9	0.0	6.1	0.3
	0.7	30	73.95	12.69	13.36	73.9	3.3	0.3	0.3	0.0	7.7	0.3	0.6	0.0	0.0	0.0
	1.5	2	67.13	10.68	22.18	69.5	3.7	0.3	0.0	0.0	0.0	0.0	0.6	0.0	0.3	0.0
	1.6	31	45.92	44.42	9.65	61.6	3.6	0.0	0.0	0.0	9.7	0.9	0.0	0.0	0.9	0.0
	1.9	32	46.32	44.88	8.80	32.3	1.2	0.3	0.0	0.0	3.1	0.6	0.0	0.0	1.2	0.0
	2.1	33	54.37	31.68	13.95	65.1	4.8	0.3	0.0	0.0	1.8	0.0	0.0	0.0	0.9	0.0
	2.4	34	43.18	33.97	22.85	31.3	1.6	0.6	0.0	0.0	1.9	0.0	0.0	0.9	1.8	0.0
	3.0	3	64.29	30.70	5.02	56.7	0.6	0.0	0.0	0.0	28.7	0.3	0.0	0.0	0.0	0.0
	3.1	35	35.53	27.32	37.14	5.3	0.0	0.8	0.0	0.0	0.0	0.0	0.8	0.0	5.3	0.0
	3.5	36	34.58	61.95	3.47	3.0	0.0	0.3	0.0	0.0	0.0	0.0	1.8	0.0	0.3	0.0
	4.1	37	34.71	44.73	20.56	45.9	1.7	0.0	0.0	0.0	5.8	0.0	0.6	0.3	0.3	0.0
	4.2	38	50.60	18.68	30.72	2.8	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	6.5	0.9
	4.3	39	57.24	16.92	25.83	4.4	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	2.5	0.0
	4.6	40	42.66	28.87	28.48	71.6	2.8	0.0	0.0	0.0	4.3	0.0	0.6	0.0	3.7	0.0
	4.7	41	16.72	62.98	20.29	76.5	3.9	0.6	0.6	0.0	16.7	0.3	0.0	0.0	0.0	0.0
	5.2	4	10.07	50.52	39.41	87.8	2.8	5.0	0.3	0.0	1.2	0.6	0.6	0.0	0.0	0.0
	5.3	42	--	--	--	69.5	2.2	1.3	0.9	0.0	11.3	0.0	0.9	0.0	0.6	0.0
	5.5	43	35.15	45.61	19.25	81.9	5.6	1.6	0.9	0.0	7.5	0.0	0.0	0.0	0.0	0.0
	5.7	44	0.74	51.04	48.21	89.0	1.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	5.9	45	32.91	42.47	24.62	76.2	6.6	2.0	0.0	0.0	12.9	0.0	0.6	0.6	0.0	0.0
	6.1	5	21.22	41.98	36.81	58.5	2.4	0.3	0.3	0.0	26.5	2.1	2.1	0.6	0.3	0.0
	6.2	46	25.42	41.79	32.79	83.2	5.3	0.9	0.0	0.0	5.6	0.3	0.9	0.0	0.0	0.0
	6.6	47	21.72	52.14	26.14	87.9	2.2	1.9	0.0	0.0	6.0	0.9	0.0	0.0	0.0	0.0
	7.0	48	61.01	22.74	16.25	80.8	2.9	0.9	0.6	0.3	9.9	2.0	0.0	0.0	0.0	0.0
	7.6	6	71.21	10.16	18.63	82.0	3.4	0.0	0.3	0.0	12.7	0.3	0.6	0.0	0.0	0.0
	8.0	7	--	--	--	78.6	5.6	0.0	0.0	0.0	6.2	1.2	0.0	0.0	0.3	0.0
	10.0	8	--	--	--	79.4	6.4	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0
	11.0	9	--	--	--	68.7	4.6	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
	13.0	10	--	--	--	80.1	4.8	0.0	0.0	0.0	5.7	0.3	0.0	0.0	0.3	0.0
	14.4	11	--	--	--	76.5	6.4	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.3	0.0
	16.0	12	--	--	--	82.8	7.2	0.0	0.2	0.0	3.0	0.5	0.0	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S79		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB	FORP
17.5	13	--	--	--	76.3	5.7	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0
19.0	14	--	--	--	79.8	4.8	0.0	0.0	0.0	0.0	0.0	6.0	0.3	0.0	0.0	0.3	0.0
20.5	15	--	--	--	79.1	2.5	0.0	0.0	0.0	0.0	0.0	4.7	0.9	0.0	0.0	0.0	0.0
22.0	16	--	--	--	81.9	3.5	0.0	0.0	0.0	0.0	0.0	2.4	0.3	0.0	0.0	0.5	0.0
23.6	17	--	--	--	82.8	5.0	0.0	0.0	0.0	0.0	0.0	4.1	0.3	0.0	0.0	0.3	0.0
25.5	18	--	--	--	79.6	3.6	0.6	0.0	0.0	0.0	0.0	3.3	0.3	0.0	0.0	0.0	0.0
26.5	19	--	--	--	52.9	3.0	0.3	0.0	0.0	0.0	0.0	12.7	0.6	0.0	0.0	0.6	0.0
28.5	20	--	--	--	54.0	3.8	0.8	0.0	0.0	0.0	0.0	14.9	0.5	0.3	0.0	0.0	0.0
29.3	27	--	--	--	71.8	4.1	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
30.0	21	--	--	--	48.5	4.3	0.3	0.0	0.0	0.0	0.0	4.9	0.0	0.3	0.0	0.0	0.0
31.5	22	--	--	--	51.0	3.6	0.0	0.0	0.0	0.0	0.0	11.9	0.0	0.0	0.3	0.3	0.0
33.2	23	--	--	--	58.2	3.9	0.0	0.0	0.0	0.0	0.0	11.6	0.6	0.0	0.0	0.3	0.0
35.0	24	--	--	--	63.7	3.1	0.0	0.0	0.3	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0
36.0	25	--	--	--	67.0	1.8	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.3	0.0	0.6	0.0
38.0	26	--	--	--	62.8	3.7	0.0	0.0	0.0	0.0	0.0	4.0	0.6	0.0	0.0	0.3	0.0
41.0	28	--	--	--	61.0	2.7	0.0	0.0	0.0	0.0	0.0	0.9	0.3	0.0	0.0	0.3	0.0
42.5	29	--	--	--	35.9	1.7	0.3	0.0	0.0	0.0	0.0	4.7	0.0	0.3	0.0	0.0	0.0

APPENDIX 2.—Continued.

CORE S79

DEPTH	NO	GSHW	GSHF	PSHW	PSHF	SHLO	OSTR	ECHN	CARBT	CARBON-14
0.0	1	0.0	0.0	0.0	4.6	32.5	0.0	0.0	50.1	
0.7	30	0.0	0.0	0.0	0.3	4.7	0.8	0.0	8.0	
1.5	2	0.0	0.0	0.0	0.8	17.5	0.3	0.0	7.0	
1.6	31	0.0	0.0	0.0	1.5	10.3	0.3	0.0	11.8	
1.9	32	0.0	0.0	0.0	0.0	26.0	0.6	0.0	34.5	
2.1	33	0.0	0.0	0.0	0.6	16.4	0.0	0.0	10.0	
2.4	34	0.3	0.3	0.0	1.6	25.4	3.8	0.0	30.4	
3.0	3	0.0	0.3	0.0	0.6	4.78	0.3	0.0	7.7	
3.1	35	0.0	0.0	0.0	2.2	51.0	3.9	0.0	28.8	
3.5	36	0.0	0.0	0.0	14.9	3.9	0.0	75.9	0.0	
4.1	37	0.0	0.3	0.3	1.7	11.4	0.0	0.0	31.6	
4.2	38	0.3	0.0	0.0	4.2	50.8	4.5	0.0	27.2	3850+/- 80
4.3	39	0.0	0.3	0.0	3.2	52.5	0.0	0.0	31.3	
4.6	40	0.0	0.0	0.0	0.0	8.9	0.0	0.0	8.0	4480+/- 70
4.7	41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	17900+/-220
5.2	4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	1.2	
5.3	42	0.0	0.0	0.0	0.0	6.3	0.3	0.0	5.3	
5.5	43	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.9	
5.7	44	0.0	0.0	0.0	0.0	2.2	0.0	0.0	1.6	
5.9	45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	
6.1	5	0.0	0.0	0.0	0.6	1.8	0.3	0.0	4.0	
6.2	46	0.0	0.0	0.0	0.0	1.2	0.0	0.0	2.6	
6.6	47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	
7.0	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	
7.6	6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	7.6	
8.0	7	0.0	0.3	0.0	0.9	1.8	0.3	0.0	4.8	
10.0	8	0.0	0.6	0.0	0.0	1.8	0.6	0.0	6.9	
11.0	9	0.2	0.0	0.0	0.0	0.7	0.2	0.0	25.06	
13.0	10	0.0	0.0	0.0	0.0	0.6	0.0	0.0	8.2	
14.4	11	0.0	0.0	0.0	0.0	1.2	0.0	0.0	7.2	
16.0	12	0.0	0.0	0.0	0.0	2.0	0.2	0.0	4.0	

APPENDIX 2.—Continued.

CORE S79		DEPTH	NO	GSHW	GSHF	PSHW	PSHF	SHLO	OSTR	ECHN	CARBT	CARBON-14
17.5	13	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	8.2	
19.0	14	0.0	0.0	0.6	0.3	1.5	0.0	0.0	0.0	0.0	6.3	
20.5	15	0.0	0.0	0.0	1.3	2.2	0.3	0.0	0.0	0.0	8.9	
22.0	16	0.0	0.0	0.0	0.8	2.2	0.0	0.3	0.0	0.3	8.1	
23.6	17	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	6.2	
25.5	18	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	11.4	
26.5	19	0.0	0.0	0.0	0.0	3.6	0.3	0.0	0.0	0.0	26.3	
28.5	20	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	25.1	
29.3	27	0.0	0.0	0.0	0.6	1.3	0.9	0.0	0.0	0.0	19.9	
30.0	21	0.0	0.0	0.0	0.3	2.3	0.0	0.0	0.0	0.0	38.9	
31.5	22	0.0	0.0	0.0	0.6	1.2	0.0	0.0	0.0	0.0	31.2	
33.2	23	0.0	0.0	0.0	0.3	1.5	0.0	0.0	0.0	0.0	23.7	
35.0	24	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	23.7	
36.0	25	0.0	0.0	0.0	0.3	2.1	0.0	0.0	0.0	0.0	25.1	
38.0	26	0.0	0.0	0.0	0.3	2.2	0.3	0.0	0.0	0.0	26.0	
41.0	28	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	32.6	
42.5	29	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	54.4	

APPENDIX 2.—Continued.

CORE S80

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB
0.0	surf	--	--	--	14.8	0.5	0.7	0.0	0.0	37.9	0.0	11.1	0.0	5.5
0.3	34	59.51	25.59	14.90	56.1	1.8	0.0	0.0	0.0	2.1	0.0	0.3	0.0	1.2
0.8	35	71.54	16.69	11.77	46.4	0.6	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.9
1.5	1	64.15	23.33	12.51	21.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
2.0	2	--	--	--	23.5	0.9	0.9	0.0	0.0	14.5	0.0	5.2	0.0	2.9
5.0	4	--	--	--	31.9	0.0	0.0	1.2	0.0	23.6	0.0	4.5	0.0	0.3
6.2	36	37.60	35.40	27.00	61.3	3.5	0.6	0.3	0.0	5.8	0.0	1.7	0.0	2.3
6.6	37	82.12	5.50	12.38	25.8	0.3	0.0	0.0	0.0	6.5	0.0	2.7	0.0	0.9
6.7	38	25.00	52.37	22.63	84.9	4.1	5.6	0.0	1.9	0.0	1.2	0.0	0.0	0.0
6.8	5	48.96	20.45	30.59	30.4	3.0	0.0	0.3	0.0	32.1	0.0	5.2	0.3	0.0
7.0	3	40.14	40.68	19.17	83.0	2.9	2.6	0.0	0.0	2.3	0.0	0.0	0.0	1.0
7.1	39	29.19	41.46	29.35	88.7	0.9	0.0	0.0	0.0	3.8	0.0	0.3	0.3	0.0
7.3	40	15.04	26.22	58.74	92.4	2.7	0.0	0.0	0.0	3.6	1.2	0.0	0.0	0.0
7.6	6	--	--	--	85.8	2.5	0.0	0.0	0.0	0.6	0.6	0.3	0.0	0.0
7.8	41	20.56	25.52	53.92	94.3	2.8	0.0	0.0	0.3	1.3	0.0	0.3	0.0	0.0
8.2	7	--	--	--	98.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.5	8	--	--	--	71.8	1.1	0.0	0.0	0.0	11.7	0.8	1.1	0.0	0.0
10.0	9	--	--	--	50.5	1.7	0.0	0.0	0.0	23.8	4.7	0.0	0.0	0.0
11.0	10	--	--	--	17.8	1.9	0.3	0.3	0.0	32.2	0.3	1.9	0.0	0.0
11.7	11	--	--	--	24.8	1.1	0.0	0.0	0.0	24.3	0.6	2.0	0.0	0.3
13.0	12	--	--	--	44.3	1.4	0.3	0.0	0.0	29.0	2.0	3.5	0.0	0.3
14.0	13	--	--	--	34.6	3.9	0.0	0.0	0.3	42.4	2.8	2.2	0.0	0.0
16.0	14	--	--	--	38.5	3.2	0.3	0.0	0.0	42.9	3.2	0.9	0.0	0.0
17.0	15	--	--	--	38.9	3.8	0.7	0.2	0.0	39.9	6.2	0.5	0.0	0.0
19.0	16	--	--	--	43.4	3.4	0.3	0.9	0.0	42.5	1.5	1.2	0.0	0.0
20.5	17	--	--	--	45.7	4.9	0.0	0.0	0.0	32.8	3.2	1.4	0.0	0.0
22.0	18	--	--	--	73.6	6.9	0.3	0.6	0.3	5.1	3.0	0.0	0.0	0.0
23.5	19	--	--	--	76.5	3.4	0.0	0.0	0.0	8.1	5.0	0.0	0.0	0.0
25.0	20	--	--	--	71.2	3.1	0.3	0.0	0.0	11.4	2.8	0.3	0.0	0.0
26.5	21	--	--	--	74.8	6.7	0.5	0.0	0.0	6.9	1.5	0.0	0.0	0.0
28.0	22	--	--	--	72.2	2.1	0.0	0.0	0.0	4.8	4.2	0.3	0.0	0.3

APPENDIX 2.—Continued.

CORE S80		DEPTH	NO	GSHW	GSHF	PSHF	SHLO	OSTR	SPNG	BRYO	CARB	CARBON-14
0.0	surf			0.0	0.0	0.0	13.6	1.0	0.0	0.0	14.8	
0.3	34			0.0	0.0	0.9	5.0	1.2	0.0	0.3	31.2	
0.8	35			0.0	0.0	0.3	2.5	0.0	0.0	0.6	46.4	
1.5	1			0.0	0.0	0.0	2.2	0.0	0.0	1.5	74.1	
2.0	2			0.0	0.0	0.0	13.6	2.9	0.0	0.0	35.6	3530+/- 60
5.0	4			0.0	0.0	1.5	7.2	0.0	0.0	0.0	29.8	
6.2	36			0.0	0.0	3.2	11.0	0.0	1.2	0.0	9.2	
6.6	37			0.0	0.0	4.4	26.4	2.1	0.0	0.0	30.9	
6.7	38			0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	
6.8	5			0.0	0.0	0.5	8.4	0.0	0.0	0.0	19.0	
7.0	3			0.0	0.0	0.0	1.2	0.0	0.0	0.0	7.9	
7.1	39			0.0	0.0	0.0	2.8	0.0	0.0	0.0	3.1	
7.3	40			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7.6	6			0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	23070+/-1880
7.8	41			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	
8.2	7			0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
8.5	8			0.0	0.0	0.6	2.3	0.0	0.0	0.0	10.5	
10.0	9			0.0	0.0	1.7	3.9	0.0	0.0	0.0	13.8	
11.0	10			0.0	0.0	0.6	5.3	0.0	0.0	0.0	39.0	
11.7	11			0.0	0.3	0.3	6.8	0.0	0.0	0.0	39.6	
13.0	12			0.0	0.0	0.3	1.7	0.0	0.0	0.0	17.1	
14.0	13			0.0	0.0	0.5	1.1	0.0	0.0	0.0	12.2	
16.0	14			0.0	0.0	0.3	0.0	0.0	0.0	0.0	10.8	
17.0	15			0.0	0.0	0.5	0.0	0.0	0.0	0.0	9.3	
19.0	16			0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	
20.5	17			0.3	0.0	1.1	0.0	0.0	0.0	0.0	10.6	
22.0	18			0.0	0.0	0.6	0.6	0.0	0.0	0.0	9.0	
23.5	19			0.0	0.0	0.3	1.1	0.0	0.0	0.3	5.3	
25.0	20			0.0	0.0	0.0	1.4	0.0	0.0	0.0	9.4	
26.5	21			0.0	0.0	0.0	1.2	0.0	0.0	0.0	8.4	
28.0	22			0.0	0.0	0.9	1.2	0.0	0.0	0.0	14.2	

APPENDIX 2.—Continued.

CORE S81		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PVRT	GYP	LITH	AGG	PLTM	FORB
0.0	1	--	--	--	--	--	29.2	2.1	0.3	0.0	0.0	13.3	0.0	14.7	0.0	0.6
1.5	2	9.43	35.56	55.01	16.5	16.5	16.5	0.6	0.0	0.0	0.3	0.0	0.3	0.3	0.6	0.6
1.6	21	23.88	46.04	30.08	24.3	30.08	24.3	0.9	0.0	0.0	0.0	4.1	0.0	2.6	0.3	1.5
1.8	22	--	--	--	83.0	--	83.0	2.1	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0
2.2	23	58.53	22.03	19.43	94.6	19.43	94.6	3.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0
2.6	24	73.91	16.49	9.60	61.0	9.60	61.0	4.3	0.0	0.0	0.0	8.0	0.3	4.3	0.0	0.0
3.0	3	58.47	16.98	24.55	72.0	24.55	72.0	3.9	0.0	0.0	0.0	18.4	0.0	0.3	0.0	0.0
3.2	25	49.20	26.34	24.45	73.0	24.45	73.0	4.1	0.0	0.0	0.0	13.8	1.6	0.6	0.0	0.0
3.4	26	66.06	15.87	18.08	76.9	18.08	76.9	5.8	0.6	0.0	0.0	10.5	0.0	0.6	0.0	0.0
3.6	4	55.03	21.54	23.43	84.3	23.43	84.3	4.3	0.6	0.0	0.0	7.1	0.0	0.3	0.0	0.0
5.2	6	--	--	--	78.4	--	78.4	3.2	0.6	0.9	7.5	0.3	2.9	0.0	0.0	0.0
5.6	27	30.78	31.14	38.08	40.0	38.08	40.0	1.5	0.3	0.3	6.6	0.3	0.0	0.0	0.0	0.0
6.0	28	36.22	27.10	36.67	80.8	36.67	80.8	6.2	0.0	0.0	0.0	5.3	0.0	1.5	0.0	0.0
6.3	29	11.31	12.98	75.70	84.7	75.70	84.7	2.1	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0
6.5	5	--	--	--	80.7	--	80.7	5.6	0.9	0.0	0.0	6.0	0.6	2.3	0.0	0.0
6.5	30	80.89	7.40	11.71	82.9	11.71	82.9	3.4	0.0	0.6	0.0	10.0	0.3	0.0	0.0	0.0
6.7	31	70.37	15.43	14.20	85.6	14.20	85.6	1.8	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
7.0	7	70.73	16.91	12.36	73.0	12.36	73.0	2.6	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0
7.5	8	--	--	--	69.2	--	69.2	3.9	0.3	1.8	0.0	9.9	0.9	0.3	0.0	0.0
9.0	9	--	--	--	65.3	--	65.3	4.7	0.6	0.0	0.0	11.2	0.6	1.8	0.0	0.0
9.7	32	26.67	30.70	42.63	71.7	42.63	71.7	2.9	0.0	0.0	0.0	8.4	0.9	0.0	0.0	0.0
9.8	34	19.97	30.34	49.69	85.1	49.69	85.1	3.1	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0
10.6	10	29.14	17.22	53.63	65.4	53.63	65.4	5.1	0.6	0.9	0.0	17.3	0.9	0.0	0.0	0.9
10.8	35	19.65	27.14	53.21	73.6	53.21	73.6	5.1	0.3	0.3	0.0	11.8	0.3	0.0	0.0	1.2
10.9	36	28.81	35.81	35.38	36.3	35.38	36.3	1.2	0.0	0.0	0.0	1.5	0.0	0.0	0.0	7.5
11.0	37A	23.47	16.72	59.80	19.5	59.80	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	23.2
11.5	11	16.48	19.50	64.02	94.0	64.02	94.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
11.7	37B	18.15	30.93	50.92	89.6	50.92	89.6	2.3	0.0	0.0	0.0	1.0	0.3	0.0	0.0	0.3
11.8	38	61.98	18.17	19.85	82.2	19.85	82.2	3.3	0.0	0.3	0.0	5.0	0.3	0.0	0.0	0.0
11.9	39	23.41	57.98	18.61	57.6	18.61	57.6	1.8	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
12.1	40	28.59	40.39	31.02	76.8	31.02	76.8	1.1	0.3	0.0	0.0	2.5	0.0	1.1	0.0	0.0

APPENDIX 2.—Continued.

CORE S81		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB
12.2	41	32.66	27.41	39.92	51.8	1.8	0.0	0.0	0.0	0.0	0.0	7.4	0.0	3.2	0.0	0.0
12.3	42	--	--	--	70.7	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0	0.0
12.3	12	58.12	21.50	20.38	75.6	2.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0
12.4	43	65.11	18.26	16.63	83.7	2.6	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0
12.5	44	63.27	16.15	20.58	80.9	1.6	0.3	0.0	0.0	0.0	0.0	10.9	0.0	0.3	0.0	0.0
12.7	45	--	--	--	90.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0
12.9	46	--	--	--	84.9	0.6	0.3	0.0	0.0	0.0	0.0	1.3	0.0	0.3	0.0	0.0
13.2	13	41.12	25.60	33.28	75.4	3.7	0.0	0.6	0.0	0.0	0.0	16.5	0.0	0.9	0.0	0.0
13.3	47	28.36	35.82	35.82	84.7	2.2	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.6	0.0	0.0
13.8	49	54.62	23.95	21.43	61.4	0.6	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
14.0	15	43.45	31.24	25.32	50.6	1.6	0.0	0.0	0.0	0.0	0.0	11.5	0.0	1.0	0.0	0.0
14.2	50	72.64	16.04	11.32	66.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
14.9	16	70.34	12.86	16.80	75.7	3.1	0.0	0.0	0.0	0.0	0.0	5.6	1.2	0.6	0.0	0.0
16.0	17	--	--	--	66.6	3.8	0.6	0.3	0.0	0.0	0.0	12.6	0.6	0.0	0.0	0.0
17.0	18	--	--	--	64.8	1.8	0.0	0.0	0.0	0.0	0.0	13.7	1.5	1.8	0.0	0.0
19.0	19	--	--	--	71.9	1.2	0.0	0.3	0.0	0.0	0.0	10.5	0.0	0.9	0.0	0.0
20.5	20	37.17	23.73	39.10	67.3	1.5	0.0	0.0	0.0	0.0	0.0	9.8	0.0	0.6	0.0	0.0

APPENDIX 2.—Continued.

CORE S81

DEPTH	NO	PSHF	SHLO	OSTR	BRYO	CARBET	CARBON-14
0.0	1	0.9	15.9	0.0	0.0	23.0	
1.5	2	0.0	29.9	3.1	0.0	47.7	
1.6	21	0.0	9.9	1.2	0.0	55.2	1,350+/- 80
1.8	22	0.0	0.0	0.0	0.0	6.1	
2.2	23	0.0	0.0	0.0	0.0	2.1	
2.6	24	0.0	0.3	0.0	0.0	21.8	19,630+/-140
3.0	3	0.0	0.3	0.0	0.0	5.1	
3.2	25	0.0	0.0	0.0	0.0	6.9	28,200+/-460
3.4	26	0.0	0.3	0.0	0.0	5.2	
3.6	4	0.0	1.2	0.0	0.0	2.1	
5.2	6	0.0	0.6	0.3	0.0	5.5	
5.6	27	0.0	0.0	0.0	0.0	51.0	29,480 +/-330
6.0	28	0.0	0.3	0.0	0.0	5.9	
6.3	29	0.0	0.9	0.0	0.0	8.8	
6.5	5	0.3	0.0	0.0	0.0	0.0	
6.5	30	0.0	0.0	0.0	0.6	2.8	
6.7	31	0.0	0.0	0.0	0.0	9.0	
7.0	7	0.0	0.0	0.0	0.0	18.9	
7.5	8	0.0	0.0	0.0	0.0	13.8	
9.0	9	0.0	0.0	0.0	0.0	15.9	
9.7	32	0.0	0.0	0.0	0.0	16.2	
9.8	34	0.0	0.9	0.0	0.0	5.9	
10.6	10	0.0	0.0	0.0	0.0	8.8	
10.8	35	0.0	0.3	0.0	0.0	7.0	
10.9	36	0.0	16.1	1.7	0.0	35.7	
11.0	37A	0.0	51.1	2.7	0.0	2.7	
11.5	11	0.0	2.5	0.0	0.0	1.2	>38,000
11.7	37B	0.0	1.0	0.0	0.0	5.5	
11.8	38	0.0	0.0	0.0	0.3	8.6	
11.9	39	0.0	2.3	0.3	0.0	37.1	
12.1	40	0.0	0.6	0.6	0.0	16.9	

APPENDIX 2.—Continued.

CORE S81

DEPTH	NO	PSHF	SHLO	OSTR	BRYO	CARBT	CARBON-14
12.2	41	0.0	0.0	0.0	0.0	35.8	
12.3	42	0.0	0.3	0.0	0.0	17.0	
12.3	12	0.0	0.0	0.0	0.0	18.7	
12.4	43	0.0	0.0	0.0	0.0	10.1	
12.5	44	0.0	0.0	0.0	0.0	5.9	
12.7	45	0.0	0.0	0.0	0.0	4.2	
12.9	46	0.0	0.0	0.0	0.0	12.5	
13.2	13	0.0	0.0	0.0	0.0	2.8	
13.3	47	0.0	0.0	0.0	0.0	0.0	
13.8	49	0.0	0.0	0.0	0.0	36.4	
14.0	15	0.0	0.0	0.0	0.0	35.3	
14.2	50	0.0	0.0	0.0	0.0	32.2	
14.9	16	0.0	0.3	0.0	0.0	13.4	
16.0	17	0.0	0.0	0.0	0.0	15.5	
17.0	18	0.0	0.0	0.0	0.0	16.4	
19.0	19	0.0	0.0	0.0	0.0	15.1	
20.5	20	0.0	0.0	0.0	0.0	20.8	

APPENDIX 2.—Continued.

CORE S82		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB	FORP
0.0	1	--	--	--	--	--	20.8	0.0	0.0	0.0	0.0	7.3	0.0	16.8	2.1	0.0	0.0
0.2	23	49.20	24.89	25.91	78.5	4.1	78.5	4.1	0.0	0.0	0.0	0.0	1.2	1.2	0.0	0.6	0.0
0.75	2	--	--	--	62.7	3.5	62.7	3.5	0.0	0.0	0.0	10.2	0.6	1.2	0.0	0.0	0.0
2.2	24	54.99	34.69	10.31	80.6	0.5	80.6	0.5	0.3	0.0	0.0	18.3	0.0	0.0	0.0	0.0	0.0
2.7	25	56.41	22.33	21.26	2.2	0.3	2.2	0.3	0.0	0.0	0.0	0.3	0.0	3.1	0.0	9.3	0.3
3.1	26	30.60	31.77	37.62	37.8	0.0	37.8	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	6.9	0.0
3.3	27	12.89	38.78	48.33	92.0	1.5	92.0	1.5	0.0	0.0	0.0	3.7	0.0	0.6	0.0	0.0	0.0
3.4	28	60.17	21.28	18.54	91.2	4.4	91.2	4.4	0.0	0.0	0.0	1.9	0.0	0.0	0.3	0.0	0.0
3.6	29	33.23	43.42	23.34	20.2	0.3	20.2	0.3	0.0	0.0	0.0	2.8	0.0	0.6	0.0	0.0	0.0
4.0	4	13.39	33.76	52.85	79.9	1.2	79.9	1.2	0.0	0.6	0.0	10.1	0.0	0.0	0.0	0.0	0.0
4.1	30	12.60	30.54	56.85	88.3	2.5	88.3	2.5	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0
4.4	31	77.33	8.34	14.34	85.8	3.4	85.8	3.4	0.9	0.0	0.0	8.9	0.0	0.0	0.0	0.0	0.0
4.7	32	29.62	22.81	47.57	78.9	3.1	78.9	3.1	1.2	0.0	0.0	14.7	0.6	0.0	0.3	0.0	0.0
4.75	33	81.74	5.62	12.64	96.6	2.5	96.6	2.5	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
5.2	5	64.41	14.94	20.65	92.9	0.9	92.9	0.9	0.0	0.3	0.0	3.9	0.0	0.0	0.0	0.0	0.0
5.5	6	--	--	--	80.3	3.9	80.3	3.9	0.6	0.0	0.0	8.2	1.5	0.9	0.0	0.0	0.0
7.0	7	--	--	--	75.7	2.6	75.7	2.6	0.3	0.0	0.0	12.0	1.2	0.3	0.0	0.0	0.0
8.0	8	--	--	--	75.0	1.4	75.0	1.4	0.0	0.0	0.0	6.7	0.3	1.9	0.0	0.0	0.0
10.0	9	--	--	--	72.0	1.2	72.0	1.2	0.0	0.3	0.0	12.1	0.3	0.9	0.0	0.0	0.0
11.0	10	--	--	--	69.5	2.7	69.5	2.7	0.6	0.6	0.0	11.5	1.1	2.9	0.0	0.0	0.0
13.0	11	--	--	--	71.7	2.4	71.7	2.4	0.0	0.0	0.0	8.1	0.3	3.5	0.0	0.0	0.0
14.0	12	--	--	--	53.8	1.8	53.8	1.8	0.0	0.0	0.0	13.4	0.6	4.6	0.0	0.6	0.0
16.0	13	--	--	--	51.2	1.9	51.2	1.9	0.3	0.3	0.0	12.1	0.3	3.0	0.0	1.6	0.0
17.0	14	--	--	--	47.1	0.9	47.1	0.9	0.0	0.0	0.0	3.2	0.3	4.7	0.0	0.6	0.0
19.0	15	--	--	--	42.2	2.1	42.2	2.1	0.7	0.0	0.0	8.9	0.3	2.3	0.3	0.9	0.0
20.0	16	--	--	--	44.5	1.2	44.5	1.2	0.3	0.0	0.0	16.8	0.0	3.5	0.0	0.3	0.0
22.0	17	--	--	--	43.3	2.2	43.3	2.2	0.3	0.0	0.0	16.4	1.1	3.3	0.0	0.3	0.0
23.5	18	--	--	--	40.3	1.1	40.3	1.1	0.3	0.0	0.0	15.7	0.0	3.9	0.0	1.4	0.0
25.0	19	--	--	--	53.0	2.8	53.0	2.8	0.8	0.3	0.0	14.8	0.0	4.6	0.0	0.9	0.0
26.5	20	--	--	--	51.3	1.1	51.3	1.1	0.0	0.0	0.0	15.9	0.0	3.0	0.0	0.6	0.0
28.0	21	--	--	--	56.2	3.8	56.2	3.8	0.0	0.0	0.0	12.4	0.6	0.9	0.0	0.9	0.0
29.0	22	--	--	--	54.2	3.1	54.2	3.1	0.3	0.0	0.0	16.2	0.0	2.0	0.0	0.3	0.0

APPENDIX 2.—Continued.

CORE S82

DEPTH	NO	GSHW	GSHF	PSHF	SHLO	OSTR	ECHN	CARBET	CARBON-14
0.0	1	0.0	0.0	0.6	19.0	2.4	0.0	30.9	
0.2	23	0.0	0.0	0.0	1.9	0.3	0.0	12.0	
0.75	2	0.0	0.0	0.0	0.3	0.3	0.0	21.2	
2.2	24	0.0	0.0	0.0	0.3	0.0	0.0	0.0	
2.7	25	0.9	0.6	8.2	60.6	6.5	0.0	7.9	
3.1	26	0.0	0.0	2.9	30.9	1.4	0.0	18.9	5050 +/- 70
3.3	27	0.0	0.0	0.3	0.6	0.0	0.0	0.9	5850 +/- 150
3.4	28	0.0	0.0	0.0	0.0	0.0	0.0	1.6	
3.6	29	0.0	0.0	0.0	0.6	0.3	0.0	75.2	
4.0	4	0.0	0.0	0.0	1.5	0.0	0.0	6.7	
4.1	30	0.0	0.0	0.0	0.6	0.0	0.0	4.6	
4.4	31	0.0	0.0	0.0	0.0	0.0	0.0	0.9	
4.7	32	0.0	0.0	0.0	0.3	0.0	0.0	0.9	
4.75	33	0.0	0.0	0.0	0.0	0.0	0.0	0.3	
5.2	5	0.0	0.0	0.0	0.0	0.0	0.0	1.8	
5.5	6	0.0	0.0	0.6	2.1	0.0	0.0	1.8	
7.0	7	0.0	0.0	0.0	1.2	0.0	0.0	6.7	
8.0	8	0.0	0.0	0.6	0.3	0.0	0.0	13.9	
10.0	9	0.0	0.0	0.0	0.3	0.0	0.0	13.3	
11.0	10	0.0	0.0	0.8	1.1	0.0	0.0	9.4	
13.0	11	0.3	0.0	0.3	0.3	0.0	0.0	13.0	
14.0	12	0.0	0.0	0.0	0.0	0.0	0.3	24.9	
16.0	13	0.0	0.0	0.3	0.0	0.0	0.0	29.1	
17.0	14	0.0	0.0	0.0	0.3	0.0	0.0	42.7	
19.0	15	0.0	0.0	0.0	0.7	0.0	0.0	41.7	
20.0	16	0.0	0.0	0.0	1.2	0.0	0.0	32.4	
22.0	17	0.0	0.0	0.0	0.6	0.0	0.0	32.5	
23.5	18	0.0	0.0	0.0	0.8	0.0	0.0	36.4	
25.0	19	0.0	0.0	0.0	0.8	0.0	0.0	21.9	
26.5	20	0.0	0.0	0.0	0.8	0.0	0.0	27.3	
28.0	21	0.0	0.0	0.0	0.8	0.0	0.0	25.2	
29.0	22	0.0	0.0	0.0	23.7	0.0	0.0	0.0	

APPENDIX 2.—Continued.

CORE S83		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB
0.0	1	38.16	22.88	38.95	2.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.3
0.6	22A	--	--	--	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.6	0.6
1.2	23A	--	--	--	7.9	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.4	0.0	0.9
1.2	2	45.42	31.55	23.03	4.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
2.0	3	--	--	--	7.4	0.0	0.3	0.0	0.0	0.0	0.0	1.9	0.3	0.6	0.0	0.0
3.1	24	34.92	36.55	28.53	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	1.2
3.5	25	2.62	38.43	58.95	69.3	2.6	0.3	0.0	0.0	0.0	0.0	3.8	0.3	3.5	8.4	0.0
4.0	26	39.41	32.00	28.60	86.2	5.6	0.6	0.0	0.0	0.0	0.0	0.9	0.0	0.3	0.3	1.8
4.1	27	58.20	24.61	17.20	68.1	2.1	0.0	0.6	0.0	0.0	0.0	8.1	0.0	0.3	1.2	3.0
4.2	28	27.14	43.04	29.81	82.2	2.6	0.0	0.0	0.0	0.0	1.7	2.6	0.3	0.3	1.1	0.9
4.5	29	60.43	18.94	20.63	64.3	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.3
4.57	4	67.85	16.63	15.53	53.1	0.3	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
4.7	30	55.24	24.20	20.56	74.0	1.6	0.3	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0
4.8	31	41.50	34.53	23.97	63.6	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0
5.0	32	38.17	39.33	22.50	65.3	0.9	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.9	0.0	0.0
5.3	33	61.98	25.10	12.93	37.1	0.0	0.6	0.0	0.0	0.0	0.0	4.7	0.0	2.9	0.0	0.0
5.5	5	43.64	36.44	19.92	53.9	0.8	0.0	0.0	0.0	0.0	0.0	3.5	0.0	1.3	0.0	0.0
5.5	6	--	--	--	32.8	1.7	1.7	0.0	0.3	0.6	0.3	15.8	0.6	1.0	0.0	0.3
7.0	7	--	--	--	34.7	0.6	1.2	0.0	0.6	0.0	0.6	12.2	0.0	0.0	0.0	0.3
8.0	8	--	--	--	62.8	0.6	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.6	0.0	0.0
10.0	9	--	--	--	54.4	1.4	0.3	0.0	0.0	0.0	0.0	10.6	0.6	0.0	0.0	0.0
11.0	10	--	--	--	51.6	2.7	1.1	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0
13.0	11	--	--	--	43.5	0.6	0.8	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0
14.0	12	--	--	--	45.6	0.8	0.8	0.6	0.0	0.0	0.0	8.9	0.3	0.0	0.0	0.3
16.0	13	--	--	--	43.9	1.0	1.7	0.3	0.0	0.0	0.0	11.7	0.0	0.0	0.0	0.0
17.0	14	--	--	--	39.3	2.2	1.7	0.8	0.0	0.8	0.8	14.4	0.0	0.6	0.0	0.0
19.0	15	--	--	--	48.9	2.0	0.6	0.3	0.0	0.3	0.0	11.4	0.0	1.7	0.3	0.3
20.5	16	--	--	--	46.9	2.6	0.6	0.9	0.3	0.3	0.3	20.2	0.0	0.0	0.3	0.0
22.0	17	--	--	--	56.5	7.4	2.2	0.6	0.0	0.0	0.0	14.9	1.1	1.1	0.3	0.0
23.5	18	--	--	--	74.0	3.5	1.1	0.6	0.0	0.6	0.0	5.1	0.6	3.2	0.0	0.0
25.0	19	--	--	--	78.1	4.4	0.3	0.0	0.0	0.0	0.0	3.2	0.0	0.3	0.0	0.0

APPENDIX 2.—Continued.

CORE S84		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	PYRT	GYP	LITH	AGG	PLTM	FORB	FORP
0.0	1	34.61	15.52	49.87	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	19.3	0.0	0.0
0.2	18	31.08	61.74	7.18	8.1	0.3	0.3	0.0	0.0	0.0	0.0	9.8	0.0	8.7	9.5	0.0	0.0
0.6	19	32.29	47.69	20.02	17.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.0	28.7	0.3	0.0	0.0
0.8	20	35.03	24.30	40.67	16.8	1.7	0.0	0.0	0.0	0.0	0.0	1.4	0.0	2.5	0.6	7.2	0.0
1.3	24	42.15	33.18	24.67	6.3	0.3	0.0	0.0	0.0	0.0	0.0	2.4	0.0	3.4	0.0	0.6	0.0
1.5	2	42.57	44.26	13.17	80.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
1.6	21	47.04	37.46	15.50	25.3	0.3	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
2.0	22	40.12	41.61	18.27	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.3	0.0	0.0
2.1	23	28.83	54.93	16.23	68.7	0.6	0.3	0.0	0.0	0.0	0.0	8.1	0.3	0.9	3.4	0.0	0.0
2.4	3	35.01	46.22	18.77	74.9	1.9	0.0	0.0	0.0	0.0	0.0	11.0	0.0	2.8	0.0	0.0	0.0
2.8	4	--	--	--	35.2	0.7	0.2	0.0	0.0	0.0	0.0	10.5	0.9	5.5	0.0	0.0	0.0
4.0	5	--	--	--	23.9	0.3	0.0	0.0	0.0	0.3	0.6	8.8	0.0	2.2	0.0	0.0	0.0
7.0	7	--	--	--	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	6.9	0.0	0.0	0.0
8.0	8	--	--	--	3.7	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	4.6	0.0	0.0	0.0
10.0	9	--	--	--	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	3.6	0.0	0.0	0.0
11.0	10	--	--	--	3.7	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.9	0.0	0.0	0.0
13.0	11	--	--	--	3.7	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	3.1	0.0	0.0	0.0
14.0	12	--	--	--	5.1	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.9	0.0	0.0	0.0
16.0	13	--	--	--	4.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	2.6	0.0	0.6	0.0
17.5	14	--	--	--	3.3	0.0	0.0	0.6	0.0	0.0	0.0	1.9	0.0	0.8	0.0	0.0	0.0
19.0	15	--	--	--	2.6	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.9	0.0	0.3	0.0
20.5	16	--	--	--	3.9	0.0	0.0	0.0	0.0	0.0	0.0	3.9	1.5	1.2	0.0	0.9	0.0
22.0	17	--	--	--	3.9	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.3	2.7	0.0	0.9	1.2

APPENDIX 2.—Continued.

CORE S84

DEPTH	NO	GSHF	PSHF	SHLO	OSTR	ECHN	BRYO	CARBT	CARBON-14
0.0	1	0.0	0.0	0.9	0.3	0.0	0.0	76.3	
0.2	18	0.0	0.0	0.6	0.0	0.0	0.0	62.8	
0.6	19	0.0	0.0	0.0	0.0	0.0	0.0	39.7	
0.8	20	0.0	0.3	6.7	0.8	0.0	0.0	62.0	2,890 +/-60
1.3	24	0.0	0.3	8.5	3.8	0.0	0.0	76.8	
1.5	2	0.0	0.0	0.6	0.0	0.0	0.6	15.2	
1.6	21	0.0	0.0	0.3	0.0	0.0	0.0	72.6	
2.0	22	0.0	0.0	3.1	0.0	0.0	0.0	67.2	16760+/-120
2.1	23	0.0	0.0	1.2	0.0	0.0	0.0	16.2	23510+/-260
2.4	3	0.0	0.0	0.3	0.0	0.0	0.0	9.1	
2.8	4	0.0	0.0	1.9	0.0	0.0	0.0	44.6	
4.0	5	0.0	0.0	1.3	0.0	0.0	0.3	61.9	39,350 +/-800
7.0	7	0.0	0.0	0.9	0.0	0.3	0.0	87.1	
8.0	8	0.3	0.0	2.1	0.0	0.0	0.6	87.2	
10.0	9	0.0	0.0	2.4	0.0	0.0	0.3	90.9	
11.0	10	0.6	0.0	2.5	0.0	0.0	0.0	87.6	
13.0	11	0.0	0.0	2.4	0.0	0.0	0.0	88.0	
14.0	12	0.0	0.3	0.6	0.0	0.0	0.0	90.9	
16.0	13	0.3	0.0	4.3	0.0	0.0	0.0	85.4	
17.5	14	0.8	0.3	7.7	0.0	0.0	0.8	83.7	
19.0	15	0.6	0.3	5.9	0.3	0.0	0.0	83.5	
20.5	16	0.0	0.0	5.7	0.3	0.3	0.0	82.2	
22.0	17	0.0	0.0	3.9	0.0	0.0	0.0	82.3	

APPENDIX 2.—Continued.

CORE S85

DEPTH	NO	GSHF	PSHF	SHLO	CARBT	CARBON-14
0.0	1	0.0	0.0	0.6	58.6	
0.5	2	0.0	0.0	2.6	55.4	
1.0	3	0.0	0.0	0.3	9.7	
2.0	4	0.0	0.3	1.9	51.2	
2.5	5	0.3	0.3	0.0	66.1	20,300 +/-270
3.5	6	0.0	0.0	1.2	31.4	
5.0	7	0.0	0.0	0.0	43.0	

Samples 8 and deeper not displayed; a C-14 date for sample 12 in core I (14-24 cm depth) is > 39,730.

APPENDIX 2.—Continued.

CORE S86

DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	GYP	LITH	AGG	PLTM
0.0	1	1.57	86.20	12.23	40.73	5.63	1.32	0.0	1.66	6.62	25.50	18.54
1.53	2	13.93	79.86	6.21	68.81	5.50	1.83	0.0	3.98	5.20	12.23	2.14
3.05	3	10.85	83.03	6.12	77.56	7.05	0.64	0.0	3.53	1.28	7.05	2.88
3.65	29	5.88	87.51	6.60	69.93	0.98	0.0	0.0	1.31	26.47	0.65	0.0
4.12	30	7.44	84.41	8.15	82.75	0.96	0.0	0.64	0.0	0.0	10.86	2.24
4.58	4	13.34	82.29	4.37	72.22	3.40	0.62	0.0	2.47	1.54	15.74	3.70
5.22	31	4.18	84.26	11.56	72.96	4.09	0.63	0.0	1.89	1.26	17.61	0.31
5.65	32	3.89	88.98	7.13	82.97	1.58	1.26	0.32	0.63	0.0	7.26	5.05
6.1	5	13.19	76.25	10.56	81.62	4.98	2.49	0.0	2.80	0.0	7.17	0.93
6.56	33	5.15	85.94	8.91	87.18	1.92	0.32	0.0	0.64	2.24	4.49	1.92
7.3	34	25.10	70.88	4.02	82.62	3.61	1.31	0.0	1.97	2.30	8.20	0.0
7.63	6	54.26	38.84	6.90	82.78	4.97	1.66	0.0	3.97	0.0	3.97	0.99
8.10	35	15.49	77.62	6.89	72.31	0.98	0.65	0.0	1.63	0.0	23.78	0.65
8.54	36	22.29	69.72	7.99	82.11	2.24	0.96	0.0	1.60	0.0	13.10	0.0
9.15	7	4.04	83.89	12.07	70.46	3.69	0.92	0.0	2.46	0.0	18.15	3.08
10.68	8	4.41	81.76	13.82	72.90	4.84	2.58	0.0	3.23	0.0	11.94	3.55
11.45	37	61.33	29.16	9.51	80.91	7.58	1.82	0.61	1.82	1.82	3.94	0.0
11.8	38	28.06	53.08	18.87	60.95	5.08	0.63	0.63	1.27	1.90	28.89	0.63
12.2	9	12.38	78.84	8.78	77.48	3.97	0.99	0.0	3.64	0.0	8.28	4.64
12.80	39	21.61	73.72	4.67	64.39	4.15	4.75	0.59	1.19	2.97	17.51	2.67
13.27	40	37.40	53.52	9.07	68.14	2.95	2.65	0.29	1.18	0.88	11.21	12.09
13.73	10	33.81	60.49	5.70	64.86	1.28	7.67	0.0	5.11	0.0	18.21	1.92
14.18	41	25.27	65.73	9.00	51.91	1.59	5.73	0.64	0.0	0.64	26.11	12.42
14.75	42	29.88	62.85	7.27	78.57	1.86	3.73	0.93	0.0	2.80	8.70	1.86
15.25	11	54.42	34.69	10.89	75.32	3.53	2.88	0.0	2.56	0.0	10.58	4.17
16.16	43	25.76	64.32	9.92	69.69	4.38	1.56	0.0	1.56	4.06	17.50	1.25
16.78	12	70.06	19.79	10.15	85.95	4.90	0.65	0.0	0.65	0.0	6.21	1.31
17.54	13	--	--	--	81.91	6.25	0.0	0.0	3.29	4.28	3.29	0.0
19.06	14	--	--	--	83.07	5.43	0.0	0.0	1.60	4.47	4.15	0.0
20.59	15	--	--	--	87.58	5.56	1.96	1.31	0.33	1.63	1.31	0.33
22.11	16	--	--	--	85.85	4.50	0.0	0.64	2.57	2.57	2.25	0.64

APPENDIX 2.—Continued.

CORE S87		DEPTH	NO	SAND	SILT	CLAY	LT	HVY	MICA	GLAU	GYP	LITH	AGG	PLTM
0.0	1	35.66	55.69	8.65	36.25	5.50	0.97	0.0	0.0	1.62	0.0	0.0	54.69	0.65
0.61	2	19.48	64.83	15.70	61.49	11.04	1.19	0.0	0.0	2.09	0.0	0.0	20.30	3.28
1.53	3	12.82	81.44	5.74	61.22	0.64	0.96	0.0	0.0	1.92	0.0	0.0	31.73	1.92
2.13	31	3.78	89.88	6.33	61.88	1.56	1.56	0.0	0.0	1.88	0.0	0.0	30.63	2.50
2.60	4	5.67	83.34	10.99	44.21	0.89	3.26	0.0	0.0	1.78	0.0	0.0	47.48	1.78
3.20	32	4.66	86.67	8.67	58.06	0.97	0.0	0.0	0.0	1.94	0.0	0.0	37.42	1.61
3.66	33	4.60	80.61	14.79	73.19	2.21	0.0	0.0	0.0	0.63	0.0	0.0	19.87	3.15
4.12	5	11.53	59.79	28.68	61.20	2.84	0.32	0.0	0.0	0.63	0.0	0.0	33.12	0.95
4.57	34	8.69	84.66	6.65	55.23	4.65	0.87	0.0	0.0	3.20	0.0	0.0	32.85	2.33
5.03	35	7.99	86.20	5.81	65.30	2.21	0.95	0.0	0.0	2.84	0.0	0.0	26.18	1.26
5.64	6	12.74	65.45	21.82	68.83	3.90	1.62	0.0	0.0	0.0	0.0	0.0	25.00	0.65
6.10	36	11.99	79.91	8.10	73.68	1.97	0.0	0.0	0.0	2.30	0.0	0.0	20.07	1.97
6.70	37	8.71	81.84	9.45	69.77	1.29	0.32	0.0	0.0	0.94	0.0	0.0	27.01	0.0
7.17	7	10.41	74.40	15.19	35.62	0.98	0.0	0.0	0.0	0.65	0.0	0.0	59.15	2.29
7.62	38	9.52	83.59	6.89	7.81	0.94	0.63	0.0	0.0	0.63	0.0	0.0	79.06	10.31
8.08	39	19.12	74.25	6.63	9.18	0.63	0.0	0.0	0.0	0.32	0.0	0.0	81.65	8.23
8.69	8	2.71	80.83	16.46	68.77	1.26	0.0	0.0	0.0	0.95	0.0	0.0	18.93	9.15
8.85	40	8.32	86.41	5.27	32.68	1.63	0.0	0.0	0.0	0.98	0.0	0.0	62.75	1.96
9.46	9	77.43	11.51	11.06	95.00	4.67	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0
10.10	10	--	--	--	95.41	1.97	0.0	0.0	0.0	0.33	0.0	1.97	0.33	0.0
11.44	11	--	--	--	92.79	3.67	0.0	0.0	0.0	0.33	0.33	3.28	0.0	0.0
12.96	12	--	--	--	94.44	2.61	0.33	0.33	0.33	0.33	0.33	1.31	0.0	0.65
14.49	13	--	--	--	83.65	1.57	0.0	0.31	0.31	2.20	2.83	2.83	9.43	0.0
16.01	14	--	--	--	82.57	3.62	0.0	0.33	0.33	1.32	3.62	3.62	8.55	0.0
17.54	15	--	--	--	94.08	0.99	0.0	0.0	0.0	0.66	2.63	2.63	1.32	0.33
19.06	16	--	--	--	92.83	3.58	0.33	0.33	0.33	0.33	1.95	1.95	0.98	0.0
20.59	17	--	--	--	91.03	2.66	0.33	1.00	1.00	0.33	1.66	1.66	2.33	0.33
22.11	18	--	--	--	90.43	2.64	0.0	0.66	0.66	1.65	1.98	1.98	0.33	1.98
23.64	19	--	--	--	81.96	7.28	1.58	0.95	0.95	1.27	4.75	4.75	1.27	0.95
25.16	20	--	--	--	95.41	1.31	0.0	0.0	0.0	0.98	1.64	1.64	0.0	0.66
26.69	21	--	--	--	87.62	3.26	0.0	0.0	0.0	1.95	4.89	4.89	1.30	0.33

APPENDIX 2.—Continued.

CORE S87		CARBT		CARBON-14	
DEPTH	NO	Fe OXIDE	CARBON-14	Fe OXIDE	CARBON-14
0.0	1	0.32	0.0	0.0	
0.61	2	0.60	0.0	0.0	1720±80
1.53	3	1.60	0.0	0.0	
2.13	31	0.0	0.0	0.0	
2.60	4	0.59	0.0	0.0	
3.20	32	0.0	0.0	0.0	
3.66	33	0.0	0.95	0.0	
4.12	5	0.95	0.0	0.0	
4.57	34	0.0	0.87	0.0	
5.03	35	0.0	1.26	0.0	
5.64	6	0.0	0.0	0.0	
6.10	36	0.0	0.0	0.0	
6.70	37	0.0	0.64	0.0	
7.17	7	1.31	0.0	0.0	
7.62	38	0.0	0.63	0.0	
8.08	39	0.0	0.0	0.0	
8.69	8	0.95	0.0	0.0	7030±130
8.85	40	0.0	0.0	0.0	
9.46	9	0.0	0.0	0.0	
10.10	10	0.0	0.0	0.0	
11.44	11	0.0	0.0	0.0	
12.96	12	0.0	0.0	0.0	
14.49	13	0.0	0.0	0.0	
16.01	14	0.0	0.0	0.0	
17.54	15	0.0	0.0	0.0	
19.06	16	0.0	0.0	0.0	
20.59	17	0.33	0.0	0.0	
22.11	18	0.33	0.0	0.0	
23.64	19	0.0	0.0	0.0	
25.16	20	0.0	0.0	0.0	
26.69	21	0.65	0.0	0.0	

APPENDIX 2.—Continued.

CORE S87		CARBET	Fe OXIDE	CARBON-14
DEPTH	NO			
28.21	22	0.0	0.0	
29.74	23	0.0	0.0	
31.26	24	0.0	0.0	
32.79	25	0.0	0.0	
34.31	26	0.0	0.0	
35.84	27	0.66	0.0	
37.36	28	0.0	0.0	
40.41	30	0.0	0.0	

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