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Soil Characterization Database for the Area 5 Radioactive Waste Management Site, Nevada Test Site, Nye County, Nevada

by

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Abstract

Soils were characterized in an investigation at the Area 5 Radioactive Waste Management Site at the U.S. Department of Energy Nevada Test Site in Nye County, Nevada. Data from the investigation are presented in four parameter groups: sample and site characteristics, U.S. Department of Agriculture (USDA) particle size fractions, chemical parameters, and American Society for Testing Materials-Unified Soil Classification System (ASTM-USCS) particle size fractions. Spread-sheet workbooks based on these parameter groups are presented to evaluate data quality, conduct database updates, and set data structures and formats for later extraction and analysis. This document does not include analysis or interpretation of presented data.

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List of Acronyms and Abbreviations

ASTM	American Society for Testing and Materials
QA	quality assurance
RWSM	Radioactive Waste Management Site
USCS	Unified Soil Classification System
USDA	U.S. Department of Agriculture

1. INTRODUCTION

This document presents the database of a soil characterization study conducted at the Area 5 Radioactive Waste Management Site (RWMS) on the U.S. Department of Energy Nevada Test Site in Nye County, Nevada. The database is maintained in a Microsoft® Excel Version 5.0 for Windows™ spreadsheet framework that is suitable for transfer into other spreadsheet or database formats. Column fields (parameters) include both descriptive field data and analytical laboratory data. Methods used to produce the analytical laboratory data are described in Snyder et al. (1996). Quality assurance (QA) criteria used to evaluate the quality of the data are described in Byers et al. (1996).

2. DATABASE STRUCTURE

The Excel Version 5.0 spreadsheet framework uses a workbook and worksheet data file structure. A workbook is made up of one or more worksheets, each containing data on a particular parameter, batch, or other characteristic.

The analytical laboratory constructed a batch workbook for each analytical batch of RWMS soil samples. The general naming convention for a batch workbook is "batch#_ray.xls" (e.g., *401_ray.xls* for Batch 401). An "r" trailing the batch number (e.g., *401r_ray.xls*) denotes a workbook that contains data for laboratory rerun of the batch for a specific parameter; the rerun workbook supersedes the initial batch data submission in the database. Within a batch workbook are several worksheets containing batch-wide data grouped by parameter (e.g., particle size analysis or pH). The batch workbooks were submitted by the laboratory to the QA staff for data evaluation and analysis.

The QA staff created evaluation workbooks (i.e., *A5_work.xls*) in which parameter data are linked to the batch workbooks using Excel formula linkages established between two or more workbooks, or between two or more worksheets within a workbook. Evaluation workbooks use a structure of parameter fields in sequential columns and specific sample records in sequential rows sorted by batch and sample numbers. These workbooks are used for evaluating data quality, conducting database updates, and setting data structures and formats for later extraction. Field and record cells are locked after editing to prevent errors from being entered into the database. Evaluation workbooks are not suitable for routine user data analysis because of their linkages.

Data from the appropriate evaluation workbooks or worksheets were extracted as non-linked (hard-data) values into a user workbook suitable for analysis purposes. The *A5_data.xls* workbook may include multiple worksheets, each containing selected hard-data values extracted from the evaluation workbooks. It is the repository for appropriate final parameter data and has undergone formatting, rounding, and thorough QA evaluation.

A primary label variable for the database and user workbooks is *Field Sample Code*. Its value is unique and illustrative to each record and sufficient to identify any sample in the database. Secondary label variables are *Batch* and *Sample*, which link an individual sample to the batch workbooks submitted by the laboratory. Field descriptive data, including horizon designation, sampling depths, and field texture, have been added to the evaluation and user workbooks for interpretive purposes. The

remainder of the data represent the final reported values for the physical and chemical characteristics of the samples. Each physical and chemical parameter is reported in the units specified by the analytical method.

3. DATABASE PARAMETERS

The following column fields (parameters) represent the label variables and the physical and chemical soil characteristics in the Area 5 RWMS database. Appendix A contains data for the soil sample and site characteristics. Appendix B contains data for the U.S. Department of Agriculture (USDA) particle size fractions. Appendix C contains data for other physical and chemical parameters. Appendix D contains data for the American Society for Testing Materials (ASTM) Unified Soil Classification System (USCS) particle size fractions. Specific parameters, in the order of their appearance in the database workbook, are:

Parameter	**Description or Definition**
Batch	Laboratory batch number
Sample	Laboratory sample number within a batch
Field Sample Code	Code assigned in the field identifying the sample. For routine samples, the alphanumeric code includes: (1) a 4- or 6-character location element; (2) a 3-character profile element; (3) a 2-character allostratigraphic unit element; and (4) a 1- or 3-character lithofacies element. For QA samples, the code includes a 2- or 3-letter alpha element followed by a 2- or 5-character alphanumeric element; the alpha elements are DBD for double-blind duplicate, RM for reference material, and CU for referee laboratory reference material.
Horizon	Soil horizon designation of the sample (Table 1)
Upper Depth	Upper depth (centimeters) of soil horizon below ground surface
Lower Depth	Lower depth (centimeters) of soil horizon below ground surface
Location	Type of sampling site: ST=soil trench; SC= streamcut; RC=roadcut; WB=RWMS facility pit or trench.
Profile	Profile number (P##) described and sampled
Allostratigraphic Unit	Allostratigraphic unit (A#) of the sample
Allostratigraphic Subunit	Allostratigraphic subunit of the sample
Lithofacies	Lithofacies designation of the sample (Table 2)
Geomorphic Surface	Geomorphic surface at the sampling location
Soil Texture - Lab	USDA texture class estimated using analytical laboratory data; free of carbonate and organic matter (Table 3)

Parameter	Description or Definition
Soil Texture - Field	USDA textural class estimated by field personnel (Table 3)
Texture Modifier-Field	USDA rock fragment volume textural modifier estimated by field personnel (Table 4)
Air-Dry Sample Weight	Total air-dry weight (grams) of sample before sieving
Air-Dry Fine Earth Weight	Air-dry weight (grams) of the <2-millimeter (mm) sample
Ground Elevation	Elevation (feet) at ground surface of sampling location
Northing	Nevada State Plane northing coordinate (feet) of sampling location
Easting	Nevada State Plane easting coordinate (feet) of sample location
Total Pebbles	USDA total pebbles (air-dry weight percent) ranging from 75 mm to 2 mm within the <75-mm (<3-inch) sample; large fragments (cobble size and larger) were left in the field
Coarse Pebbles	USDA coarse pebbles (air-dry weight percent) ranging from 75 mm to 20 mm within the <75-mm (<3-inch) sample
Medium Pebbles	USDA medium pebbles (air-dry weight percent) ranging from 20 mm to 5 mm within the <75-mm (<3-inch) sample
Fine Pebbles	USDA fine pebbles (air-dry weight percent) ranging from 5 mm to 2 mm within the <75-mm (<3-inch) sample
Total Sand	USDA total sand content (oven-dry weight percent) ranging from 2.0 mm to 0.05 mm within the <2-mm sample
Very Coarse Sand	USDA very coarse sand (oven-dry weight percent) ranging from 2.0 mm to 1.0 mm within the <2-mm sample
Coarse Sand	USDA coarse sand (oven-dry weight percent) ranging from 1.0 mm to 0.50 mm within the <2-mm sample
Medium Sand	USDA medium sand (oven-dry weight percent) ranging from 0.50 mm to 0.25 mm within the <2-mm sample
Fine Sand	USDA fine sand (oven-dry weight percent) ranging from 0.25 mm to 0.10 mm within the <2-mm sample
Very Fine Sand	USDA very fine sand (oven-dry weight percent) ranging from 0.10 mm to 0.05 mm within the <2-mm sample
Total Silt	USDA total silt content (oven-dry weight percent) ranging from 50 μm to 2 μm within the <2-mm sample

Parameter	Description or Definition
Coarse Silt	USDA coarse silt (oven-dry weight percent) ranging from 50 micrometers (μm) to 20 μm within the <2-mm sample
Fine Silt	USDA fine silt (oven-dry weight percent) ranging from 20 μm to 2 μm within the <2-mm sample
Total Clay	USDA total clay (oven-dry weight percent) less than 2 μm within the <2-mm sample
Moist	Air-to-oven-dry moisture content (oven-dry weight percent) of the <2-mm sample
pH	pH of soil (<2-mm sample) in water
CaCO3_Eq	Calcium carbonate ($CaCO_3$) equivalent (oven-dry weight percent) of the <2-mm sample
CBD_Fe	Iron extracted by citrate-bicarbonate-dithionite (oven-dry weight percent) from the <2-mm sample
CBD_Si	Silicon extracted by citrate-bicarbonate-dithionite (oven-dry weight percent) from the <2-mm sample
AOX_Fe	Iron extracted by ammonium oxalate (oven-dry weight percent) from the <2-mm sample
AOX_Si	Silicon extracted by ammonium oxalate (oven-dry weight percent) from the <2-mm sample
USCS Group-Lab	ASTM-USCS group symbol, using laboratory data for the <3-inch (<75-mm) sample, including carbonate (Table 5); based on D2488 classification criteria.
Gravel_USCS	ASTM-USCS gravel content (air-dry weight percent) ranging from 5 to 75 mm within the <3-inch (<75-mm) sample; based on D2488 classification criteria
Sand_USCS	ASTM-USCS sand content (oven-dry weight percent) within the <3-inch (<75-mm) sample; based on D2488 classification criteria
Silt+Clay_USCS	ASTM-USCS total silt and clay content (oven-dry weight percent) within the <3-inch (<75-mm) sample, including carbonate; based on D2488 classification criteria
P <3-inch	Calculated cumulative weight percentage of particles passing 3-inch sieve, reported on a <3-inch base.
P <2-inch	Calculated cumulative weight percentage of particles passing 2-inch sieve, reported on a <3-inch base.

Parameter	Description or Definition
P <1½-inch	Calculated cumulative weight percentage of particles passing 1½-inch sieve, reported on a <3-inch base.
P <1-inch	Calculated cumulative weight percentage of particles passing 1-inch sieve, reported on a <3-inch base.
P <¾-inch	Calculated cumulative weight percentage of particles passing ¾-inch sieve, reported on a <3-inch base.
P < **d** -inch	Calculated cumulative weight percentage of particles passing **d** -inch sieve, reported on a <3-inch base.
P <#4	Calculated cumulative weight percentage of particles passing No. 4 (4.75-mm) sieve, reported on a <3-inch base.
P <#10	Calculated cumulative weight percentage of particles passing No. 10 (2.0-mm) sieve, reported on a <3-inch base.
P <#40	Calculated cumulative weight percentage of particles passing No. 40 (0.42-mm) sieve, reported on a <3-inch base.
P <#200	Calculated cumulative weight percentage of particles passing No. 200 (0.074-mm) sieve, reported on a <3-inch base.

Table 1. Soil Horizon Designations

Master Horizon or Suffix	Description
A	A horizon
B	B horizon
C	C horizon
b	Buried horizon
k	Accumulation of secondary carbonate
m	Cemented in >90% of horizon
q	Accumulation of secondary silica
t	Accumulation of clay
w	Color or textural B horizon

Note: Leading numerals indicate a discontinuity from overlying materials. Trailing numerals indicate a sequence of similar horizons. Dual letters indicate transitional characteristics. A virgule (/) separating 2 horizons designations indicates sample contains distinct parts of each horizon. A prime is used when a horizon has the same master horizon and suffix designation as an overlying horizon.

Table 2. Lithofacies Designations

Lithofacies	Description
a	Observable pedogenic development
b	Fine-grained (pebbles and smaller); no bedding; moderately to poor sorting
c	Coarse-grained (medium pebbles and larger); no bedding; moderately to well sorted
d	Fine-grained; bedded; moderately to poorly sorted
e	Fine-grained; bedded; moderately to well sorted
f	Coarse-grained with 25 to 50% clasts >75-mm; little to no bedding; poorly sorted
g	Coarse-grained with 50 to 75% clasts >75-mm; little to no bedding; poorly sorted
h	Coarse-grained with >75% clasts >75-mm; little to no bedding; poorly sorted
i	Pebbly; bedded; moderately sorted

Table 3. USDA Texture Class - Laboratory and Field

Abbreviation	Definition
S	Sand
VCOS	Very coarse sand
COS	Coarse sand
FS	Fine sand
VFS	Very fine sand
LS	Loamy sand
LCOS	Loamy coarse sand
LFS	Loamy fine sand
LVFS	Loamy very fine sand
SL	Sandy loam
COSL	Coarse sandy loam
FSL	Fine sandy loam
VFSL	Very fine sandy loam
L	Loam
SCL	Sandy clay loam
CL	Clay loam

Table 4. USDA Texture Modifier - Field

Abbreviation	Definition
GR	Gravelly
CB	Cobbly
CN	Channery
GRV	Very gravelly
CBV	Very cobbly
CNV	Very channery
GRX	Extremely gravelly
CBX	Extremely cobbly
CNX	Extremely channery

Table 5. USCS Group Symbol - Laboratory

Group Symbol	Group Name
GM	Sandy silt (with sand)
SM	Silty sand (with gravel)
SW	Well-graded sand (with gravel)
SW-SM	Well-graded sand with silt (and gravel)

4. REFERENCES

Byers, G.E., R.D. Van Remortel, and K.E. Snyder, 1996. Quality Assurance Report for a Soil Characterization Study at the Area 5 Radioactive Waste Management Facility, Nevada Test Site, Nye County, Nevada. U.S. Department of Energy, Las Vegas, NV.

Snyder, K.E., G.E. Byers, and R.D. Van Remortel, 1996. Handbook of Laboratory Methods of Soil Analysis. U.S. Department of Energy, Las Vegas, NV.

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APPENDIX A

Sample and Site Characteristics

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
401	1	ST01P02A6a05	Btqkb1	58	81	ST01	P02	A6	(1)	a	S6	COSL	SL	GR	4034.7	2468.1	3197	768352	707539
401	2	ST01P02A6a04	C3	36	58	ST01	P02	A6	(3)	d	S6	COS	LS	GRV	5654.0	2415.3	3197	768352	707539
401	3	RM16C1	na	na	na	na	na	na	na	na	na	LFS	nd	nd	3466.6	2909.4	na	na	na
401	4	ST01P01A6a03	BCk	46	71	ST01	P01	A6	(2)	d	S5	COS	LS	GRV	3599.9	1416.0	3197	768338	707552
401	5	ST01P02A5a09	2Btkb	165	185	ST01	P02	A5	(1)	a	S6	LCOS	LS	GRV	5451.5	2341.7	3197	768352	707539
401	6	ST01P01A5a06	2Btkmb1	135	152	ST01	P01	A5	(1)	a	S5	LCOS	SL	GR	4627.3	1372.8	3197	768338	707552
401	7	ST01P02A6a06	Btqkb2	81	130	ST01	P02	A6	(1)	a/b	S6	LCOS	LS	GRV	6810.9	2600.2	3197	768352	707539
401	8	ST01P01A6a01	A	0	10	ST01	P01	A6	(2)	a	S5	LFS	LS	GRV	4093.1	2868.9	3197	768338	707552
401	9	ST01P02A6a07	BCkb	130	150	ST01	P02	A6	(1)	a/b	S6	LCOS	LS	GRV	6031.9	2162.0	3197	768352	707539
401	10	ST01P02A6a01	AC	0	10	ST01	P02	A6	(3)	d	S6	COS	S	CNV	4756.3	1719.6	3197	768352	707539
401	11	ST01P01A6a05	Btqkb2	97	135	ST01	P01	A6	(1)	a/b	S5	LCOS	LS	GRV	4139.5	1239.9	3197	768338	707552
401	12	RM36E1	na	na	na	na	na	na	na	na	na	LFS	nd	nd	4536.5	2915.8	na	na	na
401	13	ST01P01A5a08	2Btkb	180	216	ST01	P01	A5	(1)	a	S5	LCOS	LS	GRV	7273.0	3265.5	3197	768338	707552
401	14	ST01P02A5a08	2Btkmb	150	165	ST01	P02	A5	(1)	a	S6	SL	LS	GR	4231.3	1935.9	3197	768352	707539
401	15	ST01P01A6a02	Bw	10	46	ST01	P01	A6	(2)	a	S5	LS	SL	GR	4774.0	2598.6	3197	768338	707552
401	16	ST01P02A6a03	C2	25	36	ST01	P02	A6	(3)	d	S6	LCOS	S	CNX	4740.7	1341.4	3197	768352	707539
401	17	ST01P01A6a04	Btqkb1	71	97	ST01	P01	A6	(1)	a	S5	SL	SL	GR	4427.2	2644.4	3197	768338	707552
401	18	ST01P02A6a02	C1	10	25	ST01	P02	A6	(3)	d	S6	LCOS	LS	GRV	4961.8	1762.3	3197	768352	707539
401	19	ST01P01A5a07	2Btkmb2	152	180	ST01	P01	A5	(1)	a	S5	FSL	SL	GR	4780.8	2242.3	3197	768338	707552
401	20	RM16C2	na	na	na	na	na	na	na	na	na	LFS	nd	nd	4435.9	3727.7	na	na	na
401	21	RM36E2	na	na	na	na	na	na	na	na	na	LFS	nd	nd	6383.6	4112.8	na	na	na

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
401	22	ST04P11A6a01	A	0	6	ST04	P11	A6	(2b)	a/b	S5b	LS	SL	GR	2152.7	1642.4	3290	771811	711912
401	23	ST02P03A5a09	2B'kb1	234	242	ST02	P03	A5	(1)	b/a	S5a	LCOS	SL	GRV	4087.5	1150.5	3280	771368	705989
401	24	ST01P03A6a01	A	0	8	ST01	P03	A6	(2)	a	S5	LFS	LS	CN	3663.7	3031.2	3198	768374	707519
401	25	ST02P03A6a03	Bk1	20	28	ST02	P03	A6	(2a)	b	S5a	SL	FSL	GR	3467.6	1724.2	3280	771368	705989
401	26	ST02P03A6a05	Bk3	43	75	ST02	P03	A6	(2a)	b	S5a	LCOS	LS	GRV	7643.0	3009.9	3280	771368	705989
401	27	ST01P03A6a03	Bk	30	79	ST01	P03	A6	(2)	a	S5	LFS	SL	CN	4248.7	2869.6	3198	768374	707519
401	28	ST02P03A5a07	2Bkb	106	138	ST02	P03	A5	(2)	b/a	S5a	COS	SL	GR	10259.4	3486.0	3280	771368	705989
401	29	ST01P03A6a05	Btqkb2	112	182	ST01	P03	A6	(1)	a/b	S5	LS	LS	GRV	9776.1	4182.8	3198	768374	707519
401	30	ST04P11A6a02	Bw	6	20	ST04	P11	A6	(2b)	a/b	S5b	LS	SL	GR	2528.6	1724.1	3290	771811	711912
401	31	RM16C3	na	na	na	na	na	na	na	na	na	LFS	nd	nd	3526.5	2961.3	na	na	na
401	32	ST02P03A5a06	2Bqkb	75	106	ST02	P03	A5	(2)	b/a	S5a	LCOS	SL	GR	6031.8	1660.3	3280	771368	705989
401	33	ST02P03A6a02	BA	8	20	ST02	P03	A6	(2a)	b	S5a	VFSL	VFSL	GR	3624.9	2222.3	3280	771368	705989
401	34	ST01P03A6a02	Bw	8	30	ST01	P03	A6	(2)	a	S5	LFS	SL	na	3949.4	3332.3	3198	768374	707519
401	35	ST02P03A5a08	2BCkb	138	234	ST02	P03	A5	(2)	d	S5a	COS	S	GRX	9149.2	3524.0	3280	771368	705989
401	36	ST04P11A6a03	Bk/BCk	20	52	ST04	P11	A6	(2a)	d/i	S5b	COS	LS	GRV	10697.6	4812.3	3290	771811	711912
401	37	ST02P03A5a10	2B'kb2	242	260	ST02	P03	A5	(1)	b/a	S5a	LCOS	LS	GRV	6454.3	3123.0	3280	771368	705989
401	38	ST02P03A6a04	Bk2	28	43	ST02	P03	A6	(2a)	b	S5a	LVFS	L	GRV	8531.2	3371.2	3280	771368	705989
401	39	RM36E3	na	na	na	na	na	na	na	na	na	LFS	nd	nd	5961.1	3854.4	na	na	na
401	40	ST01P03A6a04	Btqkb1	79	112	ST01	P03	A6	(1)	a	S5	LCOS	SL	GR	4403.5	2796.3	3198	768374	707519
401	41	ST04P11A5a04	2Bkb	52	120	ST04	P11	A5	(1)	a/b	S5b	COS	S	CBV	4282.3	2637.6	3290	771811	711912
401	42	ST02P03A6a01	A1/A2	0	8	ST02	P03	A6	(2a)	a	S5a	VFSL	SL/VFSL	GR	2523.0	1490.5	3280	771368	705989

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
402	1	RM06.5A1	na	na	na	na	na	na	na	na	na	LFS	nd	nd	3259.6	3046.2	na	na	na
402	2	ST04P08A5a04	2Bkb1	30	52	ST04	P08	A5	(1)	a	S5a	LS	SL	CBV	4063.0	2386.9	3289	771780	711989
402	3	ST04P02A5a05	2Bkb3	57	106	ST04	P02	A5	(1)	b/d	S5a	S	S	GRV	6926.7	3841.1	3291	771616	712407
402	4	ST04P01A6a01	A/BA	0	8	ST04	P01	A6	(1)	a	S3	FSL	SL/L	na	1035.9	851.5	3292	771606	712431
402	5	ST04P09A5a06	2Ckb2	215	300	ST04	P09	A5	(1)	d	S5a	COS	S	GRV	14363.2	5167.9	3289	771787	711971
402	6	ST03P03A5a05	3Btkb1	91	122	ST03	P03	A5	(3)	b	S4	FSL	L	GR	5685.5	2647.3	3300	771379	703482
402	7	ST03P03A5a11	3Ckb	259	291	ST03	P03	A5	(2)	b/d	S4	COS	S	GRV	5235.0	1804.6	3300	771379	703482
402	8	ST04P08A5a05	2Bkb2	52	84	ST04	P08	A5	(1)	d/e	S5a	S	S	CBV	5433.0	3290.5	3289	771780	711989
402	9	ST03P03A5a06	3Btkb2	122	147	ST03	P03	A5	(3)	b	S4	FSL	SL	GRV	5432.6	1837.8	3300	771379	703482
402	10	ST04P01A6a02	Btk1	8	19	ST04	P01	A6	(1)	a	S3	FSL	SCL	na	2748.4	1971.2	3292	771606	712431
402	11	ST04P09A5a05	2Ckb1	163	215	ST04	P09	A5	(1)	d	S5a	COS	S	GRV	10409.3	4788.2	3289	771787	711971
402	12	ST04P02A5a06	2Bkb4	106	130	ST04	P02	A5	(1)	b/d	S5a	COS	S	GRV	15625.2	5982.0	3291	771616	712407
402	13	ST04P08A5a06	2BCkb	84	116	ST04	P08	A5	(1)	d/e	S5a	COS	S	CBV	6069.4	2895.6	3289	771780	711989
402	14	ST03P03A6a01	A/BA	0	16	ST03	P03	A6	(1)	a	S4	FSL	VFSL/FSL	GR	5011.9	2983.8	3300	771379	703482
402	15	ST04P01A6a03	Btk2	19	25	ST04	P01	A6	(1)	a	S3	SL	L	GR	2782.6	2035.2	3292	771606	712431
402	16	ST03P03A5a07	3Bkb	147	180	ST03	P03	A5	(3)	d	S4	COSL	SL	GRV	4807.3	2093.1	3300	771379	703482
402	17	RM06.5A2	na	na	na	na	na	na	na	na	na	LFS	nd	nd	2865.4	2681.4	na	na	na
402	18	ST03P03A5a12	3Bwb	291	310	ST03	P03	A5	(1)	b/d	S4	COSL	SL	GRV	1532.9	465.3	3300	771379	703482
402	19	ST04P09A5a04	2BCkb	118	163	ST04	P09	A5	(1)	d/e	S5a	COS	S	CBV	9837.2	4257.2	3289	771787	711971
402	20	ST03P03A5a08	3B'tkb	180	202	ST03	P03	A5	(2)	b/d	S4	LCOS	SL	GRV	6117.6	1543.4	3300	771379	703482
402	21	ST04P01A6a04	2Bk1	25	36	ST04	P01	A6	(1)	b	S3	SL	SL	GR	1825.1	1232.4	3292	771606	712431

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
402	22	ST04P02A5a04	2Bkb2	35	57	ST04	P02	A5	(1)	b	S5a	S	LS	GRV	4507.2	3051.9	3291	771616	712407
402	23	ST04P08A6a01	A	0	5	ST04	P08	A6	(2b)	a	S5a	LS	SL	GR	2883.4	1901.6	3289	771780	711989
402	24	ST03P03A6a02	2Btk	16	37	ST03	P03	A6	(1)	b/d	S4	LFS	L	GRV	6632.6	2360.0	3300	771379	703482
402	25	ST04P01A5a05	2Bk2	36	59	ST04	P01	A5	(1)	b	S3	LS	LS	GRV	3202.8	2063.4	3292	771606	712431
402	26	ST04P09A5a03	2Bkb	73	118	ST04	P09	A5	(1)	d/e	S5a	COS	LS	CBV	4152.0	2589.1	3289	771787	711971
402	27	ST04P02A5a03	2Bkb1	20	35	ST04	P02	A5	(1)	b	S5a	LS	LS	GR	2335.7	1496.0	3291	771616	712407
402	28	ST04P08A6a02	Bw	5	13	ST04	P08	A6	(2b)	a	S5a	LCOS	SL	GR	3117.4	1912.5	3289	771780	711989
402	29	ST03P03A6a03	2Bk	37	76	ST03	P03	A6	(1)	b/d	S4	SL	L	GRV	5360.6	2647.0	3300	771379	703482
402	30	ST04P01A5a06	2Bk3	59	99	ST04	P01	A5	(1)	b/d	S3	S	S	GRV	5383.7	3194.3	3292	771606	712431
402	31	ST03P03A5a09	3B'kb	202	224	ST03	P03	A5	(2)	b/d	S4	LCOS	SL	GRV	7972.6	2659.8	3300	771379	703482
402	32	ST04P09A6a02	Bk/BC	22	73	ST04	P09	A6	(2a)	d	S5a	LS	SL	GRV	4951.1	3203.3	3289	771787	711971
402	33	ST04P02A6a02	Bk1/Bk2	6	20	ST04	P02	A6	(2a)	a	S5a	LS	SL	na	4250.4	2565.1	3291	771616	712407
402	34	RM06.5A3	na	na	na	na	na	na	na	na	na	LFS	nd	nd	4302.6	4011.1	na	na	na
402	35	ST04P01A5a07	2Bk4	99	139	ST04	P01	A5	(1)	b/d	S3	S	S	GRV	5660.4	3237.8	3292	771606	712431
402	36	ST03P03A6a04	2BCk	76	91	ST03	P03	A6	(1)	b/d	S4	SL	SL	GRV	7211.6	3019.7	3300	771379	703482
402	37	ST04P08A6a03	Bk	13	30	ST04	P08	A6	(2a)	a	S5a	LCOS	SL	GRV	6528.5	3017.4	3289	771780	711989
402	38	ST04P09A6a01	A/BA	0	22	ST04	P09	A6	(2a)	a/b	S5a	LS	SL	GR	3034.0	2251.6	3289	771787	711971
402	39	ST03P03A5a10	3BCkb	224	259	ST03	P03	A5	(2)	b/d	S4	LS	SL	GRV	6642.2	2227.7	3300	771379	703482
402	40	ST04P01A5a08	2BCk	139	192	ST04	P01	A5	(1)	d/e	S3	S	LS	GRV	17029.6	8576.5	3292	771606	712431
402	41	ST04P02A6a01	A	0	6	ST04	P02	A6	(2a)	a	S5a	LS	SL	na	1294.5	993.8	3291	771616	712407

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
403	1	ST04P03A5a09	2Ckb	141	150	ST04	P03	A5	(1)	d/e	S3	COS	S	GRV	13629.6	6448.6	3292	771638	712348
403	2	DBD40101	na	na	na	na	na	na	na	na	na	COSL	SL	GR	1602.8	1198.2	na	na	na
403	3	ST04P03A5a08	2BCkb	80	141	ST04	P03	A5	(1)	d/e	S3	COS	S	GRV	7462.4	3417.2	3292	771638	712348
403	4	ST02P04A5a06	2BCkb	123	226	ST02	P04	A5	(2)	d	S5b	LCOS	S	GRX	13609.2	4962.7	3280	771360	705940
403	5	RM50F1	na	na	na	na	na	na	na	na	na	LFS	nd	nd	8504.8	4303.4	na	na	na
403	6	ST02P04A6a01	A	0	13	ST02	P04	A6	(2b)	a	S5b	LS	L	GRV	4327.6	1483.8	3280	771360	705940
403	7	ST03P06A5a06	2Btkb1	77	86	ST03	P06	A5	(3)	b/d	S5	COSL	SL	CB	5726.1	1777.4	3299	771384	703421
403	8	ST04P03A6a02	A/BA	0	9	ST04	P03	A6	(2)	a	S3	FSL	SL/L	na	2765.4	2285.1	3292	771638	712348
403	9	ST02P04A5a07	2B'kb1	226	233	ST02	P04	A5	(1)	b/a	S5b	COSL	SL	GRV	5420.0	1952.8	3280	771360	705940
403	10	ST03P07A6a05	2BCk	67	96	ST03	P07	A6	(1)	d	S4	COS	S	GRV	9408.2	3000.4	3300	771388	703399
403	11	ST02P04A6a02	Bw	13	23	ST02	P04	A6	(2b)	a	S5b	LCOS	SL	GRV	3881.7	1265.9	3280	771360	705940
403	12	ST03P06A5a11	2BCkb2	218	253	ST03	P06	A5	(2)	d/b	S5	LCOS	SL	GRV	7370.9	2879.8	3299	771384	703421
403	13	ST03P06A6a02	Bw	8	23	ST03	P06	A6	(2)	a	S5	LCOS	S	GRV	8510.9	3795.6	3299	771384	703421
403	14	ST04P03A6a03	Btk1	9	18	ST04	P03	A6	(2)	a	S3	SCL	SCL	GR	3406.3	2520.2	3292	771638	712348
403	15	ST03P06A5a09	2Bkb2	139	162	ST03	P06	A5	(3)	d/b	S5	FSL	L	GR	4701.8	2571.1	3299	771384	703421
403	16	ST02P04A5a08	2B'kb2	233	300	ST02	P04	A5	(1)	b/a	S5b	COS	LS	GRV	9785.3	3447.9	3280	771360	705940
403	17	ST02P04A6a03	Bkb	23	55	ST02	P04	A6	(2a)	b	S5b	LCOS	L	GRV	4255.8	1944.2	3280	771360	705940
403	18	ST03P06A6a05	BCkb	54	77	ST03	P06	A6	(1)	d	S5	LCOS	S	GRV	10619.1	3305.5	3299	771384	703421
403	19	ST03P06A5a10	2BCkb1	162	218	ST03	P06	A5	(2)	d/b	S5	COS	SL	GRV	8549.1	4688.7	3299	771384	703421
403	20	ST04P03A6a04	Btk2	18	27	ST04	P03	A6	(2)	a	S3	SL	L	CB	3727.7	1717.3	3292	771638	712348
403	21	ST03P07A6a04	2Bk	40	67	ST03	P07	A6	(1)	b	S4	COSL	SL	GRV	5806.9	2607.0	3300	771388	703399

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
403	22	ST03P06A5a08	2Bkb1	98	139	ST03	P06	A5	(3)	d/b	S5	LCOS	LS	GRV	9694.2	3555.8	3299	771384	703421
403	23	ST03P06A6a01	A	0	8	ST03	P06	A6	(2)	a	S5	LS	SL	GRV	7389.8	3212.6	3299	771384	703421
403	24	ST02P04A5a04	2Bqkb	55	79	ST02	P04	A5	(2)	b/a	S5b	LS	SL	GR	6036.1	2179.8	3280	771360	705940
403	25	ST03P07A5a06	3Btkb	96	110	ST03	P07	A5	(3)	b/d	S4	FSL	SL	CB	5241.8	2179.3	3300	771388	703399
403	26	ST03P07A6a03	2Btk	17	40	ST03	P07	A6	(1)	b	S4	SL	L	GRV	5822.3	2905.2	3300	771388	703399
403	27	ST02P04A5a05	2Bkb	79	123	ST02	P04	A5	(2)	b/a	S5b	LS	SL	GRV	7161.3	2049.5	3280	771360	705940
403	28	ST04P03A6a05	2Bk	27	35	ST04	P03	A6	(2)	a	S3	LS	SL	GR	3197.5	2149.5	3292	771638	712348
403	29	RM50F2	na	na	na	na	na	na	na	na	na	LFS	nd	nd	7307.3	3674.6	na	na	na
403	30	ST03P07A6a02	BA	6	17	ST03	P07	A6	(1)	a	S4	SL	L	GR	5206.8	2551.2	3300	771388	703399
403	31	ST03P06A6a04	Bkb	41	54	ST03	P06	A6	(1)	d	S5	LCOS	LS	GRV	6135.6	2890.5	3299	771384	703421
403	32	ST03P06A5a12	2Ckb	253	270	ST03	P06	A5	(2)	d/b	S5	LS	LS	GRV	6124.7	2387.1	3299	771384	703421
403	33	ST04P03A6a06	2BCk	35	67	ST04	P03	A6	(2)	d	S3	COS	S	GRV	7897.9	3434.2	3292	771638	712348
403	34	ST03P06A5a07	2Btkb2	86	98	ST03	P06	A5	(3)	b/d	S5	FSL	SL	CB	8825.7	2482.0	3299	771384	703421
403	35	ST03P06A6a03	Btkb	23	41	ST03	P06	A6	(1)	b	S5	COSL	L	GR	6070.4	2326.0	3299	771384	703421
403	36	ST03P07A6a01	A	0	6	ST03	P07	A6	(1)	a	S4	L	VFSL	GR	3786.5	2425.7	3300	771388	703399
403	37	RM50F3	na	na	na	na	na	na	na	na	na	LFS	nd	nd	6503.0	3278.4	na	na	na
403	38	ST04P03A5a07	2Bkb	67	80	ST04	P03	A5	(1)	a	S3	LS	LS	GRV	5553.3	1798.1	3292	771638	712348

na = not applicable
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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
404	1	RM25D1	na	na	na	na	na	na	na	na	na	LFS	nd	nd	4193.3	3137.1	na	na	na
404	2	WB1345P01A4a04	3Ckb	267	280	WB1345	P01	A4	nd	b	nd	S	LS	GRV	3020.2	1937.0	3197	767907	708310
404	3	WB1630P01A0a01	C	0	18	WB1630	P01	A0	nd	a01	nd	LCOS	LS	GRX	4342.7	1510.1	3186	766713	708696
404	4	ST03P01A5a10	3Bkb	273	300	ST03	P01	A5	(2)	b/d	S4	LFS	SL	GRV	12981.0	5276.5	3300	771365	703548
404	5	ST02P01A6a04	Bk2	23	49	ST02	P01	A6	(2)	b	S5a	LCOS	SL	SL	5625.5	2286.3	3280	771379	706070
404	6	WB1320P01A3a02	Bkb2	10	23	WB1320	P01	A3	nd	nd	nd	LS	SL	GR	2780.1	2168.7	3196	767809	708648
404	7	ST02P02A5a06	2Bqkb	45	87	ST02	P02	A5	(2)	b/a	S6	LS	SL	GRV	8412.3	2764.9	3279	771376	706041
404	8	WB1630P01A0a02	2Ab	18	21	WB1630	P01	A0	nd	a02	nd	SL	SL	GR	212.4	113.7	3186	766713	708696
404	9	ST03P01A5a09	3B'tkb2	248	273	ST03	P01	A5	(2)	b/d	S4	FSL	L	GRV	8870.7	3808.0	3300	771365	703548
404	10	WB1345P01A4a01	3BC'kb	188	218	WB1345	P01	A4	nd	f/b	nd	S	LS	GR	3080.9	2466.0	3197	767907	708310
404	11	ST02P01A6a05	BCk	49	61	ST02	P01	A6	(2)	b	S5a	LCOS	SL	GRV	7200.3	2960.8	3280	771379	706070
404	12	RM25D2	na	na	na	na	na	na	na	na	na	LFS	nd	nd	5840.9	4372.7	na	na	na
404	13	ST03P01A5a08	3B'tkb1	217	248	ST03	P01	A5	(2)	b/d	S4	LS	SL	GRV	4185.8	1878.7	3300	771365	703548
404	14	ST02P02A5a07	2Bkb	87	100	ST02	P02	A5	(2)	b/a	S6	LCOS	SL	GRV	12339.4	4347.2	3279	771376	706041
404	15	WB1630P01A0a03	2Bqkb	21	38	WB1630	P01	A0	nd	a03	nd	LS	SL	GR	2138.4	1207.3	3186	766713	708696
404	16	ST03P01A5a07	3BCkb/3Ckb	135	217	ST03	P01	A5	(3)	d/b	S4	LCOS	SL/S	GRV	10958.9	4201.6	3300	771365	703548
404	17	ST02P01A5a06	2Btkb	61	95	ST02	P01	A5	(2)	a	S5a	FSL	L	GR	3765.7	2122.2	3280	771379	706070
404	18	ST02P02A6a02	A1/A2	0	9	ST02	P02	A6	(2b)	b	S6	LCOS	LS/SL	GR	6859.4	2952.2	3279	771376	706041
404	19	ST03P01A5a06	3Btkb2	122	135	ST03	P01	A5	(3)	d/b	S4	LCOS	SL	GRV	6630.9	1971.3	3300	771365	703548
404	20	WB1320P01A3a03	BCkb1	23	43	WB1320	P01	A3	nd	nd	nd	S	SL	GR	2902.6	2341.9	3196	767809	708648
404	21	WB1630P01A0a04	2Btqkb	38	51	WB1630	P01	A0	nd	a04	nd	LS	SL	GR	3019.7	1544.6	3186	766713	708696

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
404	22	ST02P01A6a01	A	0	3	ST02	P01	A6	(2a)	a	S5a	VFSL	VFSL	GR	904.2	769.4	3280	771379	706070
404	23	ST03P01A5a05	3Btkb1	89	122	ST03	P01	A5	(3)	d/b	S4	FSL	L	GR	5403.2	2616.4	3300	771365	703548
404	24	DBD40201	na	na	na	na	na	na	na	na	na	LFS	nd	nd	1805.0	1621.4	na	na	na
404	25	WB1630P01A0a05	2Bkb1	51	67	WB1630	P01	A0	nd	a05	nd	S	SL	GR	3665.6	2374.6	3186	766713	708696
404	26	ST02P02A6a03	Bkb1	9	24	ST02	P02	A6	(2a)	b	S6	FS	FSL	GR	4295.8	1948.9	3279	771376	706041
404	27	WB1345P01A4a02	3C'	218	249	WB1345	P01	A4	nd	f/b	nd	LS	LS	GRX	3261.5	2206.4	3197	767907	708310
404	28	WB1320P01A3a04	BCkb2	43	91	WB1320	P01	A3	nd	nd	nd	SL	LS	GR	2840.6	2313.4	3196	767809	708648
404	29	ST03P01A6a04	2Bk	48	89	ST03	P01	A6	(1)	b	S4	S	SL	GRV	5144.9	2178.1	3300	771365	703548
404	30	WB1630P01A0a06	2Bkb2	67	91	WB1630	P01	A0	nd	a06	nd	COS	SL	GRV	4127.2	2227.3	3186	766713	708696
404	31	ST02P01A6a02	BA	3	10	ST02	P01	A6	(2a)	a	S5a	FSL	L	GR	3796.2	2189.1	3280	771379	706070
404	32	ST02P02A6a04	Bkb2	24	37	ST02	P02	A6	(2a)	b	S6	LCOS	SL	GRV	9006.0	3702.3	3279	771376	706041
404	33	ST03P01A6a03	2Btk	20	48	ST03	P01	A6	(1)	b	S4	LVFS	FSL	GRV	4963.2	2635.0	3300	771365	703548
404	34	WB1345P01A4a03	3Bkb	249	267	WB1345	P01	A4	nd	g	nd	LS	SL	GR	2146.0	1641.4	3197	767907	708310
404	35	WB1320P01A3a01	Bkb1	0	10	WB1320	P01	A3	nd	nd	nd	LS	SL	GR	4195.5	3072.3	3196	767809	708648
404	36	ST02P02A5a05	2Btkb	37	45	ST02	P02	A5	(2)	b/a	S6	FSL	L	GR	4259.1	2367.4	3279	771376	706041
404	37	ST03P01A6a02	BA	8	20	ST03	P01	A6	(1)	a	S4	VFSL	VFSL	na	3072.7	2240.7	3300	771365	703548
404	38	WB1630P01A0a07	3Btkb	91	106	WB1630	P01	A0	nd	a07	nd	SL	L	GR	2354.1	713.0	3186	766713	708696
404	39	ST02P01A6a03	Bk1	10	23	ST02	P01	A6	(2a)	b	S5a	LS	SL	GRV	3274.9	1301.4	3280	771379	706070
404	40	RM25D3	na	na	na	na	na	na	na	na	na	LFS	nd	nd	3408.8	2563.4	na	na	na
404	41	ST03P01A6a01	A1/A2	0	8	ST03	P01	A6	(1)	a	S4	VFSL	SL/VFSL	na	2600.9	2072.1	3300	771365	703548
404	42	WB1630P01A0a08	3Bkb	106	131	WB1630	P01	A0	nd	a08	nd	LS	SL	GR	3496.4	2120.0	3186	766713	708696

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
405	1	WB1345P01A6a01	BA1	0	8	WB1345	P01	A6	nd	a	nd	LFS	SL	GR	2006.5	1408.0	3197	767907	708310
405	2	WB1334P01A6a06	BCk3	86	122	WB1334	P01	A6	nd	a/i	nd	COS	SL	GRV	5263.0	2318.8	3196	767850	708499
405	3	WB1312P01A6a04	Bk2	46	64	WB1312	P01	A6	nd	a/i	nd	LS	SL	GRV	2821.9	1905.6	3199	766765	708783
405	4	WB1312P01A5a01	2Bkb1	127	150	WB1312	P01	A5	nd	a	nd	LS	SL	GRV	2670.5	1808.2	3199	766765	708783
405	5	WB1345P01A5a03	2Bkb	119	132	WB1345	P01	A5	nd	a	nd	LS	SL	GRV	1725.9	1210.3	3197	767907	708310
405	6	WB1334P01A4a02	3Ckb	259	315	WB1334	P01	A4	nd	g	nd	COS	S	GR	2869.4	1948.6	3196	767850	708499
405	7	WB1312P01A6a05	BCk1	64	102	WB1312	P01	A6	nd	a/i	nd	LS	SL	GRX	3082.2	1386.2	3199	766765	708783
405	8	WB1334P01A5a01	2Bkb	122	142	WB1334	P01	A5	nd	a	nd	LS	SL	GR	3124.9	1816.8	3196	767850	708499
405	9	RM50F4	na	na	na	na	na	na	na	na	na	LFS	nd	nd	4671.7	2367.9	na	na	na
405	10	WB1345P01A6a02	BA2	8	23	WB1345	P01	A6	nd	a	nd	LS	SL	GR	2476.9	1615.8	3197	767907	708310
405	11	WB1334P01A6a05	BCk2	69	86	WB1334	P01	A6	nd	a/i	nd	LS	SL	CNV	2080.9	1249.0	3196	767850	708499
405	12	WB1345P01A5a04	2BCkb	132	168	WB1345	P01	A5	nd	e	nd	S	SL	GRV	3211.8	2133.3	3197	767907	708310
405	13	WB1312P01A4a01	3Bkb	208	226	WB1312	P01	A4	nd	b	nd	LS	SL	GR	2392.1	1841.6	3199	766765	708783
405	14	WB1312P01A6a01	BA1	0	5	WB1312	P01	A6	nd	a/i	nd	LS	SL	CN	1850.5	1313.6	3199	766765	708783
405	15	WB1312P01A5a02	2Bkb2	150	183	WB1312	P01	A5	nd	a	nd	S	SL	STX	2605.9	1660.0	3199	766765	708783
405	16	WB1334P01A5a02	2BCkb1	142	160	WB1334	P01	A5	nd	f	nd	S	SL	GR	2594.6	1947.6	3196	767850	708499
405	17	WB1345P01A5a05	2C	168	188	WB1345	P01	A5	nd	e	nd	COS	LS	GRV	2437.5	1565.4	3197	767907	708310
405	18	WB1345P01A6a03	Bk1	23	43	WB1345	P01	A6	nd	a	nd	LS	SL	CN	3100.2	2141.7	3197	767907	708310
405	19	WB1334P01A6a04	BCk1	36	69	WB1334	P01	A6	nd	a/i	nd	LS	L	CN	2246.1	1654.2	3196	767850	708499
405	20	WB1345P01A5a00	2Btkb1	81	91	WB1345	P01	A5	nd	a	nd	FSL	L	GR	2155.9	1407.2	3197	767907	708310
405	21	WB1312P01A6a02	BA2	5	25	WB1312	P01	A6	nd	a/i	nd	LFS	SL	CNV	2681.9	2079.6	3199	766765	708783

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
405	22	WB1334P01A5a03	2BCkb2	160	198	WB1334	P01	A5	nd	f	nd	S	SL	GR	2851.8	2216.0	3196	767850	708499
405	23	WB1334P01A6a03	Bk	15	36	WB1334	P01	A6	nd	a/i	nd	LS	SL	CNV	3130.5	1563.1	3196	767850	708499
405	24	WB1312P01A4a02	3C	226	254	WB1312	P01	A4	nd	b	nd	COS	LS	GRV	2902.4	1503.6	3199	766765	708783
405	25	WB1345P01A6a04	Bk2	43	56	WB1345	P01	A6	nd	a	nd	LS	SL	CN	2579.5	1748.8	3197	767907	708310
405	26	WB1334P01A4a01	3BCkb	239	259	WB1334	P01	A4	nd	g	nd	COS	S	GRV	4111.8	2046.7	3196	767850	708499
405	27	WB1312P01A6a03	Bk1	25	46	WB1312	P01	A6	nd	a/i	nd	LS	SL	CN	1860.6	1272.4	3199	766765	708783
405	28	RM50F5	na	na	na	na	na	na	na	na	na	LFS	nd	nd	7012.6	3549.2	na	na	na
405	29	WB1312P01A5a03	2C	183	208	WB1312	P01	A5	nd	b	nd	S	SL	GRV	2326.2	1631.5	3199	766765	708783
405	30	WB1345P01A5a01	2Btkb2	91	99	WB1345	P01	A5	nd	a	nd	LS	L	GR	861.2	581.5	3197	767907	708310
405	31	WB1334P01A6a02	BA2	5	15	WB1334	P01	A6	nd	a/i	nd	LS	L	GR	2393.2	1589.2	3196	767850	708499
405	32	WB1334P01A5a04	2C	198	239	WB1334	P01	A5	nd	f	nd	COS	S	GRV	4630.7	2829.7	3196	767850	708499
405	33	WB1312P01A6a06	BCk2	102	127	WB1312	P01	A6	nd	a/i	nd	S	SL	GRX	2212.6	1399.0	3199	766765	708783
405	34	WB1345P01A6a05	C	56	81	WB1345	P01	A6	nd	a	nd	COS	SL	CNV	3366.4	1354.5	3197	767907	708310
405	35	WB1334P01A6a01	BA1	0	5	WB1334	P01	A6	nd	a/i	nd	LFS	L	CN	1123.7	906.5	3196	767850	708499
405	36	WB1345P01A5a02	2Btkb3	99	119	WB1345	P01	A5	nd	a	nd	S	SL	GR	1910.6	1379.2	3197	767907	708310
405	37	DBD40301	na	na	na	na	na	na	na	na	na	COS	S	GRV	4587.4	2597.3	na	na	na

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
406	1	WB1334P01A1f	6C	536	628	WB1334	P01	A1	nd	f	nd	S	LS	GRV	13583.7	8127.8	3196	767850	708499
406	2	ST02P05A6a01	A/AC	0	20	ST02	P05	A6	(3)	a	S6	LCOS	LS/SL	GR	4255.8	1856.2	3280	771352	705896
406	3	WB1312P01A1b	6C'	668	700	WB1312	P01	A1	nd	b	nd	S	LS	GRV	6175.2	4746.2	3199	766765	708783
406	4	RM16C4	na	na	na	na	na	na	nd	na	nd	LFS	nd	nd	4491.7	3768.9	na	na	na
406	5	WB1312P01A4i	3C'	277	357	WB1312	P01	A4	nd	i/e	nd	COS	S	GRV	9772.7	4988.9	3199	766765	708783
406	6	WB1334P01A1d	6C'	628	661	WB1334	P01	A1	nd	d	nd	COS	LS	GR	7245.1	5788.0	3196	767850	708499
406	7	WB1345P01A4e	3C	305	454	WB1345	P01	A4	nd	e/g	nd	COS	LS	GRV	8607.1	4993.4	3197	767907	708310
406	8	WB1312P01A1e	6C	567	668	WB1312	P01	A1	nd	e	nd	COS	LS	GRV	7283.6	4583.0	3199	766765	708783
406	9	ST02P05A6a02	Bkb	20	62	ST02	P05	A6	(2a)	b	S6	LCOS	SL	GRV	4517.0	1738.2	3280	771352	705896
406	10	WB1345P01A4e03	C	nd	nd	WB1345	P01	A4	nd	nd	nd	COS	LS	GRV	6468.8	3522.0	3197	767907	708310
406	11	DBD40401	na	na	na	na	na	na	na	na	na	LFS	nd	nd	3071.5	2031.4	na	na	na
406	12	WB1312P01A5b	2Bk/2C	162	241	WB1312	P01	A5	nd	b	nd	S	SL	GRV	5955.2	3904.8	3199	766765	708783
406	13	WB1334P01A2d	5C	512	536	WB1334	P01	A2	nd	d	nd	COS	LS	GR	8771.4	6916.8	3196	767850	708499
406	14	WB1312P01A1f	6C"	700	762	WB1312	P01	A1	nd	f	nd	COS	LS	GRV	8220.5	4863.1	3199	766765	708783
406	15	WB1345P01A4e02	C	nd	nd	WB1345	P01	A4	nd	nd	nd	COS	LS	GRV	7008.3	4358.8	3197	767907	708310
406	16	WB1345P01A1e	5C	567	613	WB1345	P01	A1	nd	e	nd	COS	LS	GRX	8344.0	4601.3	3197	767907	708310
406	17	ST02P05A5a03	2Bqkb	62	103	ST02	P05	A5	(2)	b/a	S6	LCOS	SL	GRV	6920.4	2579.9	3280	771352	705896
406	18	WB1334P01A3a	4C	433	512	WB1334	P01	A3	nd	a	nd	COS	LS	GR	8339.9	6443.5	3196	767850	708499
406	19	WB1312P01A5a	2Bkb	94	162	WB1312	P01	A5	nd	a	nd	COS	SL	GRV	8927.8	4272.6	3199	766765	708783
406	20	WB1312P01A2e	5C	515	552	WB1312	P01	A2	nd	e	nd	COS	LS	GRV	5853.1	3937.6	3199	766765	708783
406	21	WB1345P01A3b	4C	454	567	WB1345	P01	A3	nd	b	nd	S	SL	GR	7737.4	5944.5	3197	767907	708310

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
406	22	RM16C5	na	na	na	na	na	na	na	na	na	LFS	nd	nd	2569.7	2152.4	na	na	na
406	23	WB1334P01A4g	3BCkb/3Ckb	256	296	WB1334	P01	A4	nd	g	nd	COS	LS	CBX	7665.7	4392.0	3196	767850	708499
406	24	ST02P05A5a04	2Bkb	103	119	ST02	P05	A5	(2)	b/a	S6	LCOS	SL	GRV	7117.4	2333.1	3280	771352	705896
406	25	WB1312P01A3b	4C	433	515	WB1312	P01	A3	nd	b	nd	S	SL	GRV	5449.4	4370.1	3199	766765	708783
406	26	WB1345P01A4g02	C	nd	nd	WB1345	P01	A4	nd	nd	nd	COS	LS	GRV	6966.2	3506.6	3197	767907	708310
406	27	WB1334P01A4e	3C	296	433	WB1334	P01	A4	nd	e	nd	COS	LS	GRV	7313.5	4172.9	3196	767850	708499
406	28	ST02P05A5a05	2BCkb1	119	165	ST02	P05	A5	(2)	d	S6	COS	SL	GR	7102.9	2874.2	3280	771352	705896
406	29	WB1312P01A4e02	3C''	381	433	WB1312	P01	A4	nd	nd	nd	na	na	na	6996.6	4824.9	3199	766765	708783
406	30	WB1345P01A5e	2BCkb/2C	131	177	WB1345	P01	A5	nd	e	nd	COS	LS	GRV	9254.9	5933.6	3197	767907	708310
406	31	WB1345P01A5g	C	238	268	WB1345	P01	A5	nd	g	nd	S	SL	CBV	12667.4	7974.7	3197	767907	708310
406	32	WB1312P01A4g	3C''	357	381	WB1312	P01	A4	nd	g	nd	S	SL	CBX	5824.0	2231.5	3199	766765	708783
406	33	WB1334P01A5e	2BCkb/2C	146	256	WB1334	P01	A5	nd	f	nd	S	LS	GR	8284.7	5552.7	3196	767850	708499
406	34	ST02P05A5a06	2BCkb2	165	239	ST02	P05	A5	(2)	d	S6	LCOS	S	GRV	15926.3	4377.2	3280	771352	705896
406	35	RM16C6	na	na	na	na	na	na	na	na	na	LFS	nd	nd	5163.7	4324.6	na	na	na
406	36	WB1345P01A4b	3Ckb	268	305	WB1345	P01	A4	nd	b	nd	LS	SL	GR	7870.1	5969.6	3197	767907	708310
406	37	WB1312P01A4h	3C	241	277	WB1312	P01	A4	nd	h	nd	LS	LS	CBX	7194.4	3871.8	3199	766765	708783
406	38	WB1345P01A5f	C	177	238	WB1345	P01	A5	nd	f/b	nd	S	SL	GRV	8803.4	6003.5	3197	767907	708310
406	39	WB1334P01A6a	BA/Bk/BCk	3	128	WB1334	P01	A6	nd	a/i	nd	LS	SL	GRX	6489.2	3594.6	3196	767850	708499
406	40	ST02P05A5a07	2B'kb	239	290	ST02	P05	A5	(1)	b/a	S6	COS	LS	GRV	8509.6	4090.4	3280	771352	705896
406	41	WB1312P01A6a	BA/Bk/BCk	6	94	WB1312	P01	A6	nd	a/i	nd	LS	SL	GRX	6477.4	3912.0	3199	766765	708783

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
407	1	SC01P01A5a01	A/2BA	0	11	SC01	P01	A5	(1)	nd	S3	SL	L/SL	GRV	6380.0	2690.5	3575	777540	707210
407	2	SC03P01A6a05	Bk3	49	75	SC03	P01	A6	(2)	nd	S5b	LCOS	LCOS	GRV	6081.2	2752.3	3589	779125	713315
407	3	RC01P01A5a08	3Bkb3	191	206	RC01	P01	A5	(1)	nd	S4	LS	COSL	GRV	5870.6	2195.4	3460	776280	710740
407	4	SC02P01A5a04	2Bk2	37	54	SC02	P01	A5	(1)	nd	S3	LCOS	LS	GRV	10011.4	2866.9	3668	775040	702990
407	5	WB1334P01A1a01	C	nd	nd	WB1334	P01	A1	nd	nd	nd	na	na	na	1570.1	1217.0	3196	767850	708499
407	6	WB1310P01A1a04	2C	58	88	WB1310	P01	A1	nd	e	nd	S	LS	GRV	3880.8	3143.5	3198	766759	708800
407	7	RM36E4	na	na	na	na	na	na	na	na	na	LFS	nd	nd	4885.3	3166.4	na	na	na
407	8	SC01P01A5a02	2Bk	11	28	SC01	P01	A5	(1)	nd	S3	LCOS	SL	GRV	5720.7	2273.2	3575	777540	707210
407	9	RC01P01A5a07	3Bkb2	173	191	RC01	P01	A5	(1)	nd	S4	SL	SL	GRX	7034.0	2324.2	3460	776280	710740
407	10	SC03P01A6a04	Bk2	29	49	SC03	P01	A6	(2)	nd	S5b	LCOS	LS	GRV	5986.2	3553.8	3589	779125	713315
407	11	WB1310P01A2e	C	0	24	WB1310	P01	A2	nd	a/b	nd	COS	S	GRX	5272.9	3115.8	3198	766759	708800
407	12	RM36E5	na	na	na	na	na	na	na	na	na	LFS	nd	nd	5239.1	3377.0	na	na	na
407	13	SC02P01A5a05	2Bk3	54	94	SC02	P01	A5	(1)	nd	S3	COS	COS	GRV	8545.1	2875.1	3668	775040	702990
407	14	SC01P01A5a03	2Bkm	28	40	SC01	P01	A5	(1)	nd	S3	LCOS	LS	GRV	7085.5	1844.2	3575	777540	707210
407	15	RC01P01A5a06	3Bkb1	140	173	RC01	P01	A5	(1)	nd	S4	SL	COSL	GRV	8991.3	3581.4	3460	776280	710740
407	16	SC01P02A5a01	A/BA	0	11	SC01	P02	A5	(1)	nd	S3	SL	SL/L	GR	2892.9	2056.0	3575	777545	707215
407	17	SC03P01A6a03	Bk1	18	29	SC03	P01	A6	(2)	nd	S5b	LCOS	LS	GR	1435.9	960.2	3589	779125	713315
407	18	DBD40501	na	na	na	na	na	na	na	na	na	LFS	SL	GR	1048.6	667.5	na	na	na
407	19	WB1310P01A1a01	2Bkb	24	33	WB1310	P01	A1	nd	a	nd	LS	SL	GR	2392.0	2082.7	3198	766759	708800
407	20	SC01P01A5a04	2B'k1	40	54	SC01	P01	A5	(1)	nd	S3	COS	S	GRV	7454.6	2443.7	3575	777540	707210
407	21	WB1334P01A1a02	C	nd	nd	WB1334	P01	A1	nd	nd	nd	na	na	na	2266.5	1855.2	3196	767850	708499

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
407	22	RC01P01A5a05	3Btkb	107	140	RC01	P01	A5	(1)	nd	S4	COSL	SL	GRV	6110.5	2870.4	3460	776280	710740
407	23	SC02P01A5a06	2BCk	94	130	SC02	P01	A5	(1)	nd	S3	COS	COS	GRX	9332.9	2664.5	3668	775040	702990
407	24	RC01P01A6a04	2BCk	71	107	RC01	P01	A6	(1)	nd	S4	LCOS	COS	GRV	7565.8	3751.7	3460	776280	710740
407	25	RC01P01A6a03	2Bk2	31	71	RC01	P01	A6	(1)	nd	S4	LS	COSL	GRV	7369.0	3643.4	3460	776280	710740
407	26	SC01P01A5a05	2B'k2	54	73	SC01	P01	A5	(1)	nd	S3	COS	S	GRV	8823.2	2990.8	3575	777540	707210
407	27	WB1310P01A1a02	2BCkb1	33	45	WB1310	P01	A1	nd	e	nd	LS	SL	GR	2914.5	2442.8	3198	766759	708800
407	28	SC03P01A6a02	Bw	9	18	SC03	P01	A6	(2)	nd	S5b	LCOS	LS	GR	744.2	456.8	3589	779125	713315
407	29	SC01P02A5a02	Btk	11	23	SC01	P02	A5	(1)	nd	S3	COSL	SCL	GRV	2783.3	1580.2	3575	777545	707215
407	30	SC02P01A5a01	A	0	4	SC02	P01	A5	(1)	nd	S3	SL	FSL	GRX	5586.6	2817.3	3668	775040	702990
407	31	SC03P01A5a06	2Bkb	75	90	SC03	P01	A5	(2)	nd	S5b	COS	COS	GRV	3432.9	1479.9	3589	779125	713315
407	32	SC01P01A5a06	2BCk	73	85	SC01	P01	A5	(1)	nd	S3	COS	S	GRV	7759.5	3651.5	3575	777540	707210
407	33	RM36E6	na	na	na	na	na	na	na	na	na	LFS	nd	nd	5316.3	3456.8	na	na	na
407	34	WB1334P01A1a03	C	nd	nd	WB1334	P01	A1	nd	nd	nd	na	na	na	2411.9	1577.8	3196	767850	708499
407	35	RC01P01A6a02	2Bk1	8	31	RC01	P01	A6	(1)	nd	S4	SL	SL	CB	4974.0	3107.3	3460	776280	710740
407	36	SC03P01A6a01	A	0	9	SC03	P01	A6	(2)	nd	S5b	LCOS	LS	GR	1205.4	719.7	3589	779125	713315
407	37	SC02P01A5a02	Btk	4	14	SC02	P01	A5	(1)	nd	S3	SL	SCL	GRV	6598.2	2613.5	3668	775040	702990
407	38	SC01P01A5a07	2C	85	120	SC01	P01	A5	(1)	nd	S3	COS	S	GRV	9784.1	4493.4	3575	777540	707210
407	39	WB1310P01A1a03	2BCkb2	45	58	WB1310	P01	A1	nd	e	nd	S	SL	GR	1940.5	1538.0	3198	766759	708800
407	40	RC01P01A6a01	A	0	8	RC01	P01	A6	(1)	nd	S4	SL	L	GRX	3455.8	2820.1	3460	776280	710740
407	41	SC01P02A5a03	2Bk	23	32	SC01	P02	A5	(1)	nd	S3	LCOS	SL	GRV	2983.8	1184.9	3575	777545	707215
407	42	SC02P01A5a03	2Bk1	14	37	SC02	P01	A5	(1)	nd	S3	LS	LS	GRV	7389.3	1790.5	3668	775040	702990

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
408	1	SC04P01A6a01	A	0	7	SC04	P01	A6	(1)	nd	S4	SCL	SL	CBX	7667.8	4012.8	3715	786400	720875
408	2	RM36E7	na	na	na	na	na	na	na	na	na	LFS	nd	nd	5755.4	3680.7	na	na	na
408	3	SC04P01A6a09	Bk8	169	194	SC04	P01	A6	(1)	nd	S4	COS	S	GRV	15710.5	4428.8	3715	786400	720875
408	4	CU07	na	na	na	na	na	na	na	na	na	LFS	nd	nd	1110.5	755.2	na	na	na
408	5	SC05P01A5a04	Bk2	49	72	SC05	P01	A5	nd	nd	S2	LCOS	LS	GRV	12318.0	3258.1	3630	783900	721720
408	6	SC04P01A6a02	Bk1	7	25	SC04	P01	A6	(1)	nd	S4	LCOS	LS	GR	9255.0	4901.4	3715	786400	720875
408	7	ST02P04A5a07	2B'kb2	226	233	ST02	P04	A5	(1)	b/a	S5b	COSL	SL	GRV	4823.1	1736.4	3280	771360	705940
408	8	SC04P01A6a10	Bk9	194	210	SC04	P01	A6	(1)	nd	S4	LCOS	S	GRX	11003.8	3874.9	3715	786400	720875
408	9	SC05P01A5a06	BCk	98	129	SC05	P01	A5	nd	nd	S2	LCOS	LS	GRX	20642.6	3664.4	3630	783900	721720
408	10	SC04P01A6a03	Bk2	25	49	SC04	P01	A6	(1)	nd	S4	LCOS	COS	GRV	10793.3	3510.5	3715	786400	720875
408	11	SC05P01A5a05	Bk3	72	98	SC05	P01	A5	nd	nd	S2	LCOS	LS	GRV	13552.5	3407.9	3630	783900	721720
408	12	CU16	na	na	na	na	na	na	na	na	na	LFS	nd	nd	1082.8	950.8	na	na	na
408	13	SC04P01A6a04	Bk3	49	84	SC04	P01	A6	(1)	nd	S4	LCOS	LCOS	GRV	11684.1	4626.7	3715	786400	720875
408	14	CU20	na	na	na	na	na	na	na	na	na	LFS	nd	nd	1917.4	931.6	na	na	na
408	15	RM36E8	na	na	na	na	na	na	na	na	na	LFS	nd	nd	4304.5	2766.6	na	na	na
408	16	SC05P01A5a01	A/Btkm1	0	9	SC05	P01	A5	nd	nd	S2	CL	SL/CL	GRV	10357.2	5003.3	3630	783900	721720
408	17	SC04P01A6a05	Bk4	84	111	SC04	P01	A6	(1)	nd	S4	LCOS	LCOS	GRV	11008.6	3705.8	3715	786400	720875
408	18	SC05P01A5a07	Ck	129	160	SC05	P01	A5	nd	nd	S2	LCOS	S	GRV	12730.9	3668.0	3630	783900	721720
408	19	CU04	na	na	na	na	na	na	na	na	na	LFS	nd	nd	1431.2	945.6	na	na	na
408	20	SC05P01A5a02	Btkm2	9	20	SC05	P01	A5	nd	nd	S2	SCL	SL	GRV	13039.7	2183.6	3630	783900	721720
408	21	SC04P01A6a06	Bk5	111	123	SC04	P01	A6	(1)	nd	S4	LS	LCOS	GRV	10607.3	4047.4	3715	786400	720875

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
408	22	SC04P01A6a07	Bk6	123	153	SC04	P01	A6	(1)	nd	S4	LCOS	SL	GRV	18815.0	4940.0	3715	786400	720875
408	23	DBD40701	na	na	na	na	na	na	na	na	na	SL	L/SL	GRV	1513.9	1193.4	na	na	na
408	24	RM36E9	na	na	na	na	na	na	na	na	na	LFS	nd	nd	5865.9	3778.3	na	na	na
408	25	SC04P01A6a08	Bk7	153	169	SC04	P01	A6	(1)	nd	S4	COS	S	GRX	9687.5	4459.2	3715	786400	720875
408	26	CU15	na	na	na	na	na	na	na	na	na	LFS	nd	nd	1257.3	912.1	na	na	na
408	27	SC05P01A5a03	Bk1	20	49	SC05	P01	A5	nd	nd	S2	LCOS	LS	GRV	11814.3	3029.9	3630	783900	721720

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
409	1	SC07P01A5a05	Bk3	52	61	SC07	P01	A5	(2)	nd	S3	SL	SL	GRV	3005.3	1150.4	3680	774960	698260
409	2	SC09P01A6a02	Bk1	6	29	SC09	P01	A6	(1)	nd	S4	SL	L	GRV	3471.8	1206.4	3617	773250	697630
409	3	SC07P01A5a06	Btkb1	61	98	SC07	P01	A5	(1)	nd	S3	SL	SCL	GRV	8130.2	3511.3	3680	774960	698260
409	4	SC07P01A5a03	Bk1	12	39	SC07	P01	A5	(2)	nd	S3	SL	L	GRV	4355.7	2422.3	3680	774960	698260
409	5	SC07P01A5a04	Bk2	39	52	SC07	P01	A5	(2)	nd	S3	LS	SL	GRX	4517.8	1849.4	3680	774960	698260
409	6	RM16C8	na	na	na	na	na	na	na	na	na	LFS	nd	nd	5430.1	4568.6	na	na	na
409	7	SC09P01A6a04	Btk1	47	68	SC09	P01	A6	(1)	nd	S4	SL	SL	GRV	3984.0	2530.7	3617	773250	697630
409	8	SC07P01A5a07	Btkb2	98	119	SC07	P01	A5	(1)	nd	S3	SL	SL	GRV	6277.1	2893.2	3680	774960	698260
409	9	SC07P01A5a01	A1	0	2	SC07	P01	A5	(2)	nd	S3	SL	SL	GRX	957.6	454.3	3680	774960	698260
409	10	SC09P01A6a05	Btk2	68	86	SC09	P01	A6	(1)	nd	S4	SL	SL	GRV	3482.0	1661.4	3617	773250	697630
409	11	DBD40601	na	na	na	na	na	na	na	na	na	S	LS	GRV	5219.8	3991.2	na	na	na
409	12	SC07P01A5a02	A2	2	12	SC07	P01	A5	(2)	nd	S3	SL	L	GRV	3345.0	1905.8	3680	774960	698260
409	13	SC07P01A5a08	Bkb	119	160	SC07	P01	A5	(1)	nd	S3	SL	SL	GRV	11061.2	4735.8	3680	774960	698260
409	14	SC09P01A6a01	A	0	6	SC09	P01	A6	(1)	nd	S4	SL	L	CBV	2700.3	1509.0	3617	773250	697630
409	15	RM16C7	na	na	na	na	na	na	na	na	na	LFS	nd	nd	3740.7	3141.0	na	na	na
409	16	SC09P01A6a03	Bk2	29	47	SC09	P01	A6	(1)	nd	S4	LCOS	SL	GRX	4852.4	1565.4	3617	773250	697630
409	17	SC09P01A6a06	BC	86	110	SC09	P01	A6	(1)	nd	S4	SL	SL	STV	3482.9	1730.6	3617	773250	697630

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
410	1	RM55G1	na	na	na	na	na	na	na	na	na	LFS	nd	nd	9943.7	4533.5	na	na	na
410	2	WB1272P01A4a01	3BCkb	257	277	WB1272	P01	A4	nd	f	nd	LS	LS	GR	3960.6	3323.5	3182	766679	708635
410	3	WB1374P01A4e	3C'	402	497	WB1374	P01	A4	nd	e	nd	LCOS	LS	GRX	9262.8	4657.2	3185	767440	707834
410	4	WB1272P01A5a02	2BCkb	152	216	WB1272	P01	A5	nd	b	nd	LS	LS	GRV	7037.6	5280.3	3182	766679	708635
410	5	WB1374P01A6a01	Bk/BA	107	119	WB1374	P01	A6	nd	a	nd	LS	SL	CNV	3509.3	1497.7	3185	767440	707834
410	6	WB1272P01A6a	Bk/BCk	79	134	WB1272	P01	A6	nd	a	nd	LS	LS	GR	7915.0	6023.7	3182	766679	708635
410	7	WB1272P01A6a02	BCk	94	130	WB1272	P01	A6	nd	a	nd	S	LS	CNV	5895.6	4371.4	3182	766679	708635
410	8	WB1374P01A1b	5C	521	558	WB1374	P01	A1	nd	b	nd	LS	SL	GRV	9208.5	6776.4	3185	767440	707834
410	9	WB1272P01A5a03	2C	216	257	WB1272	P01	A5	nd	b	nd	COS	LS	GR	6993.6	4590.7	3182	766679	708635
410	10	WB1374P01A4f	3BCkb/3Ckb/3C	271	402	WB1374	P01	A4	nd	f	nd	S	S	GRV	10510.6	7515.2	3185	767440	707834
410	11	WB1374P01A6a02	BCk	119	170	WB1374	P01	A6	nd	a	nd	LCOS	LS	CNV	8564.9	4223.4	3185	767440	707834
410	12	RM25D5	na	na	na	na	na	na	na	na	na	LFS	nd	nd	4616.3	3471.6	na	na	na
410	13	WB1272P01A4a02	3C	277	292	WB1272	P01	A4	nd	f	nd	S	LS	GR	3405.1	2515.2	3182	766679	708635
410	14	WB1272P01A6a01	Bk	64	94	WB1272	P01	A6	nd	a	nd	LS	SL	CN	5671.7	4243.1	3182	766679	708635
410	15	WB1374P01A1e	5C'	558	598	WB1374	P01	A1	nd	e	nd	COS	S	GRV	10249.5	5822.9	3185	767440	707834
410	16	WB1272P01A1b	6C	543	560	WB1272	P01	A1	nd	e	nd	LS	SL	GR	5434.1	4504.1	3182	766679	708635
410	17	WB1374P01A5a01	2Bkb	170	185	WB1374	P01	A5	nd	a	nd	LS	SL	GR	2379.6	1587.3	3185	767440	707834
410	18	WB1272P01A5b	2BCkb/2C	165	253	WB1272	P01	A5	nd	b	nd	LS	SL	GRV	6343.6	4507.3	3182	766679	708635
410	19	WB1272P01A4f	3BCkb/3C	253	308	WB1272	P01	A4	nd	f	nd	COS	LS	GRV	5037.5	3704.5	3182	766679	708635
410	20	WB1272P01A2d	5C'	475	543	WB1272	P01	A2	nd	f	nd	COS	S	GRV	7173.9	5520.0	3182	766679	708635
410	21	WB1374P01A3b	4C	497	521	WB1374	P01	A3	nd	b	nd	LS	SL	GR	8009.1	6191.4	3185	767440	707834

na = not applicable
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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Location	Profile	Allostratigraphic Unit	Allostratigraphic Subunit	Lithofacies	Geomorphic Surface	Soil Texture - Lab	Soil Texture - Field	Texture Modifier - Field	Air-Dry Sample Wt. (g)	Air-Dry Fine Earth Wt. (g)	Ground Elevation (ft)	Northing (ft)	Easting (ft)
410	22	WB1272P01A5g	2Bkb	134	165	WB1272	P01	A5	nd	g	nd	LS	SL	GR	6550.5	4537.5	3182	766679	708635
410	23	WB1272P01A4h	3C'	308	378	WB1272	P01	A4	nd	h/e	nd	S	SL	CBX	7028.7	2337.7	3182	766679	708635
410	24	WB1374P01A5a02	2BCkb	185	226	WB1374	P01	A5	nd	b	nd	LS	LS	GR	5082.0	3951.0	3185	767440	707834
410	25	WB1272P01A2e	5C	442	475	WB1272	P01	A2	nd	e/d	nd	COS	LS	GR	6197.4	3858.3	3182	766679	708635
410	26	RM25D6	na	na	na	na	na	na	na	na	na	LFS	nd	nd	4471.3	3379.2	na	na	na
410	27	WB1374P01A4a01	3BCkb	272	290	WB1374	P01	A4	nd	f	nd	LS	SL	GR	4996.5	3949.8	3185	767440	707834
410	28	WB1374P01A5a03	2C	226	272	WB1374	P01	A5	nd	b	nd	S	LS	GR	5954.5	4019.7	3185	767440	707834
410	29	WB1272P01A5a01	2Bkb	130	152	WB1272	P01	A5	nd	g	nd	S	SL	GR	4755.2	3256.5	3182	766679	708635
410	30	WB1272P01A3b	4C	378	442	WB1272	P01	A3	nd	b	nd	LCOS	SL	GR	6265.2	4806.5	3182	766679	708635
410	31	DBD40901	na	na	na	na	na	na	na	na	na	SL	SL	GRV	2444.1	640.7	na	na	na
410	32	WB1374P01A5b	2BCkb/2C	198	271	WB1374	P01	A5	nd	b	nd	LS	SL	GRV	8913.1	6293.9	3185	767440	707834
410	33	WB1374P01A4a02	3Ckb	290	325	WB1374	P01	A4	nd	e	nd	COS	LS	GRV	6567.1	3438.9	3185	767440	707834

na = not applicable
nd = not determined

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APPENDIX B

U.S. Department of Agriculture Particle Size Fractions

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Total Pebbles (wt%)	Coarse Pebbles (wt%)	Medium Pebbles (wt%)	Fine Pebbles (wt%)	Total Sand (wt%)	Very Coarse Sand (wt%)	Coarse Sand (wt%)	Medium Sand (wt%)	Fine Sand (wt%)	Very Fine Sand (wt%)	Total Silt (wt%)	Coarse Silt (wt%)	Fine Silt (wt%)	Total Clay (wt%)
401	1	ST01P02A6a05	Btqkb1	58	81	38.8	2.8	20.3	15.7	74.1	15.2	11.1	9.3	19.8	18.7	20.2	9.5	10.7	5.7
401	2	ST01P02A6a04	C3	36	58	57.3	1.9	33.9	21.5	87.8	19.4	23.9	15.8	17.3	11.4	8.7	4.8	3.8	3.5
401	3	RM16C1	na	na	na	16.1	0.0	10.0	6.1	84.1	8.0	6.9	9.6	34.7	25.0	10.4	5.6	4.7	5.5
401	4	ST01P01A6a03	BCk	46	71	60.7	3.8	38.3	18.6	86.3	13.2	13.5	15.4	27.2	17.1	8.7	5.0	3.7	5.0
401	5	ST01P02A5a09	2Btkb	165	185	57.0	11.5	29.9	15.6	84.8	14.3	17.6	14.5	20.2	18.1	8.3	4.0	4.2	6.9
401	6	ST01P01A5a06	2Btkmb1	135	152	70.1	8.5	41.4	20.2	84.1	25.3	23.3	15.7	13.1	6.8	5.6	1.1	4.5	10.3
401	7	ST01P02A6a06	Btqkb2	81	130	61.8	12.6	31.7	17.5	87.0	25.6	20.7	13.1	16.7	10.8	6.5	2.3	4.2	6.5
401	8	ST01P01A6a01	A	0	10	29.8	3.5	18.7	7.6	80.9	5.0	6.1	8.8	28.5	32.5	14.5	9.8	4.8	4.6
401	9	ST01P02A6a07	BCkb	130	150	64.1	9.1	37.3	17.7	87.8	19.9	22.0	18.1	18.8	9.1	3.8	1.2	2.6	8.4
401	10	ST01P02A6a01	AC	0	10	63.8	9.0	37.7	17.1	88.0	17.0	16.5	16.4	22.8	15.3	8.2	5.0	3.2	3.8
401	11	ST01P01A6a05	Btqkb2	97	135	70.0	5.3	46.3	18.4	87.4	15.5	19.5	18.0	22.3	12.2	6.5	1.4	5.1	6.1
401	12	RM36E1	na	na	na	35.7	2.6	23.5	9.6	84.5	9.2	7.1	9.8	34.4	24.1	10.1	5.5	4.7	5.3
401	13	ST01P01A5a08	2Btkb	180	216	55.0	10.3	33.2	11.5	83.5	14.0	12.5	12.8	23.8	20.4	9.5	3.9	5.6	7.0
401	14	ST01P02A5a08	2Btkmb	150	165	54.1	5.8	31.5	16.8	80.2	7.3	11.0	13.6	26.0	22.3	8.3	3.5	4.8	11.5
401	15	ST01P01A6a02	Bw	10	46	45.9	4.5	28.6	12.8	78.6	12.5	9.7	10.8	23.3	22.3	16.5	9.4	7.1	4.9
401	16	ST01P02A6a03	C2	25	36	71.7	3.3	35.3	33.1	86.2	25.8	18.0	11.8	17.0	13.6	9.5	5.0	4.5	4.2
401	17	ST01P01A6a04	Btqkb1	71	97	40.4	1.5	23.2	15.7	71.6	11.7	11.0	10.0	19.9	19.1	19.3	8.1	11.1	9.1
401	18	ST01P02A6a02	C1	10	25	64.4	7.2	39.3	17.9	86.4	14.8	14.6	16.2	23.8	17.0	8.9	5.3	3.7	4.6
401	19	ST01P01A5a07	2Btkmb2	152	180	53.1	10.2	28.2	14.7	77.1	6.2	7.7	10.4	29.4	23.5	10.3	4.5	5.8	12.6
401	20	RM16C2	na	na	na	15.9	1.0	9.7	5.2	82.8	8.0	7.2	9.0	33.3	25.4	10.2	5.2	5.1	6.9
401	21	RM36E2	na	na	na	35.6	2.2	21.8	11.6	82.4	7.7	7.1	9.7	33.8	24.1	10.8	5.5	5.3	6.8

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Total Pebbles (wt%)	Coarse Pebbles (wt%)	Medium Pebbles (wt%)	Fine Pebbles (wt%)	Total Sand (wt%)	Very Coarse Sand (wt%)	Coarse Sand (wt%)	Medium Sand (wt%)	Fine Sand (wt%)	Very Fine Sand (wt%)	Total Silt (wt%)	Coarse Silt (wt%)	Fine Silt (wt%)	Total Clay (wt%)
401	22	ST04P11A6a01	A	0	6	23.6	0.0	13.2	10.4	79.2	7.9	9.5	11.0	23.1	27.7	16.0	9.4	6.6	4.9
401	23	ST02P03A5a09	2B'kb1	234	242	71.8	19.1	37.5	15.2	77.7	14.2	11.0	10.2	21.2	21.1	14.9	7.9	7.0	7.5
401	24	ST01P03A6a01	A	0	8	17.3	0.8	9.9	6.6	86.6	3.0	3.7	7.1	38.7	34.1	9.1	5.9	3.2	4.3
401	25	ST02P03A6a03	Bk1	20	28	50.1	12.2	23.6	14.3	80.6	13.6	11.6	8.4	18.7	28.2	15.7	11.3	4.4	3.6
401	26	ST02P03A6a05	Bk3	43	75	60.5	7.5	33.7	19.3	85.5	22.4	14.9	9.0	16.0	23.3	11.6	8.5	3.1	2.9
401	27	ST01P03A6a03	Bk	30	79	32.4	6.0	17.5	8.9	85.6	6.1	5.6	9.1	38.2	26.5	9.7	5.5	4.1	4.7
401	28	ST02P03A5a07	2Bkb	106	138	66.0	15.1	37.8	13.1	87.6	16.7	10.8	8.8	22.3	29.0	9.7	6.5	3.2	2.7
401	29	ST01P03A6a05	Btqkb2	112	182	57.2	18.8	22.9	15.5	84.6	9.2	11.2	12.8	30.1	21.3	9.1	4.8	4.3	6.3
401	30	ST04P11A6a02	Bw	6	20	31.8	1.7	17.9	12.2	85.3	9.8	11.3	13.1	25.8	25.2	10.3	6.5	3.8	4.4
401	31	RM16C3	na	na	na	16.0	0.0	10.8	5.2	84.3	8.3	7.3	9.3	33.8	25.6	10.0	5.2	4.8	5.7
401	32	ST02P03A5a06	2Bqkb	75	106	72.5	11.6	48.2	12.7	82.7	16.2	11.8	9.9	21.8	23.0	11.5	6.2	5.3	5.8
401	33	ST02P03A6a02	BA	8	20	38.7	2.7	24.0	12.0	76.0	8.6	6.9	5.5	18.3	36.7	19.0	13.6	5.4	4.9
401	34	ST01P03A6a02	Bw	8	30	15.6	1.5	7.8	6.3	85.7	3.3	4.0	8.1	41.0	29.4	9.7	5.8	3.9	4.7
401	35	ST02P03A5a08	2BCkb	138	234	61.5	2.6	33.6	25.3	91.5	31.1	21.2	13.7	15.2	10.3	4.8	2.6	2.1	3.7
401	36	ST04P11A6a03	Bk/BCk	20	52	55.0	5.0	24.8	25.2	91.1	25.7	18.7	15.5	18.6	12.6	5.2	3.0	2.2	3.8
401	37	ST02P03A5a10	2B'kb2	242	260	51.5	5.1	26.0	20.4	85.1	16.6	13.7	10.3	21.3	23.2	11.3	6.9	4.4	3.6
401	38	ST02P03A6a04	Bk2	28	43	60.5	26.0	26.2	8.3	81.9	9.2	8.8	7.8	21.4	34.7	15.7	12.6	3.1	2.5
401	39	RM36E3	na	na	na	35.3	2.3	20.4	12.6	85.1	5.6	6.7	9.8	36.5	26.6	9.2	4.4	4.8	5.6
401	40	ST01P03A6a04	Btqkb1	79	112	36.5	0.6	19.0	16.9	85.3	21.7	14.2	10.6	22.0	16.8	9.6	4.2	5.3	5.1
401	41	ST04P11A5a04	2Bkb	52	120	38.3	7.4	19.3	11.6	89.8	12.4	16.6	20.0	27.5	13.4	4.4	1.8	2.6	5.8
401	42	ST02P03A6a01	A1/A2	0	8	40.8	3.8	26.4	10.6	72.2	7.0	4.9	5.0	18.3	37.0	23.5	18.2	5.2	4.3

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Total Pebbles (wt%)	Coarse Pebbles (wt%)	Medium Pebbles (wt%)	Fine Pebbles (wt%)	Total Sand (wt%)	Very Coarse Sand (wt%)	Coarse Sand (wt%)	Medium Sand (wt%)	Fine Sand (wt%)	Very Fine Sand (wt%)	Total Silt (wt%)	Coarse Silt (wt%)	Fine Silt (wt%)	Total Clay (wt%)
402	1	RM06.5A1	na	na	na	6.6	0.8	3.8	2.0	84.7	7.0	7.4	10.5	34.9	24.9	9.7	5.1	4.6	5.6
402	2	ST04P08A5a04	2Bkb1	30	52	41.1	16.9	15.4	8.8	83.1	8.2	13.6	17.3	27.1	17.0	9.0	4.4	4.6	7.9
402	3	ST04P02A5a05	2Bkb3	57	106	44.6	19.2	16.7	8.7	89.9	7.7	13.9	22.7	28.5	17.1	7.4	4.8	2.6	2.7
402	4	ST04P01A6a01	A/BA	0	8	17.7	3.2	9.2	5.3	61.1	2.9	9.1	15.4	19.7	14.0	27.4	7.7	19.7	11.5
402	5	ST04P09A5a06	2Ckb2	215	300	64.0	27.2	27.1	9.7	94.8	11.3	22.6	28.8	24.4	7.7	2.9	1.8	1.1	2.4
402	6	ST03P03A5a05	3Btkb1	91	122	53.4	9.3	30.1	14.0	60.4	6.9	5.3	5.1	16.7	26.3	33.6	17.6	16.0	6.0
402	7	ST03P03A5a11	3Ckb	259	291	65.5	0.0	39.8	25.7	89.5	16.6	11.3	13.5	27.3	20.8	8.8	6.8	2.0	1.7
402	8	ST04P08A5a05	2Bkb2	52	84	39.5	14.9	16.0	8.6	92.4	9.7	15.9	22.8	29.2	14.8	4.4	2.4	2.0	3.2
402	9	ST03P03A5a06	3Btkb2	122	147	66.1	32.9	22.5	10.7	69.4	7.2	7.2	7.1	20.7	27.2	25.4	14.5	10.9	5.2
402	10	ST04P01A6a02	Btk1	8	19	28.2	6.5	10.0	11.7	64.5	4.2	9.5	14.8	21.4	14.6	17.2	6.2	11.0	18.2
402	11	ST04P09A5a05	2Ckb1	163	215	54.1	25.7	18.7	9.7	88.6	12.0	17.9	21.0	25.1	12.7	5.4	2.4	3.0	6.0
402	12	ST04P02A5a06	2Bkb4	106	130	61.6	18.1	30.0	13.5	94.4	19.6	26.4	24.3	18.4	5.7	2.6	1.3	1.3	3.0
402	13	ST04P08A5a06	2BCkb	84	116	52.2	16.9	25.2	10.1	95.2	12.1	18.7	27.7	28.3	8.3	2.2	1.0	1.2	2.6
402	14	ST03P03A6a01	A/BA	0	16	40.5	1.3	25.3	13.9	69.9	9.0	6.9	6.1	16.8	31.0	29.4	16.1	13.3	0.7
402	15	ST04P01A6a03	Btk2	19	25	26.8	2.2	13.3	11.3	65.3	5.9	10.6	14.5	20.6	13.7	29.5	5.2	24.3	5.2
402	16	ST03P03A5a07	3Bkb	147	180	56.4	3.6	32.0	20.8	76.2	21.3	14.9	8.1	14.0	17.8	16.8	9.6	7.2	7.0
402	17	RM06.5A2	na	na	na	6.5	0.6	4.9	1.0	84.0	8.5	7.2	9.6	34.7	24.0	9.5	5.2	4.3	6.5
402	18	ST03P03A5a12	3Bwb	291	310	69.4	5.0	51.7	12.7	69.0	16.1	8.9	6.2	15.6	22.3	22.5	11.8	10.7	8.5
402	19	ST04P09A5a04	2BCkb	118	163	56.7	1.5	39.1	16.1	90.8	16.5	18.9	18.7	22.5	14.2	4.9	3.7	1.2	4.3
402	20	ST03P03A5a08	3B'tkb	180	202	74.7	40.2	23.9	10.6	78.4	15.2	12.2	9.1	19.7	22.2	13.8	7.3	6.4	7.8
402	21	ST04P01A6a04	2Bk1	25	36	32.5	3.5	16.8	12.2	77.8	7.3	13.2	18.6	24.1	14.5	10.4	5.4	4.9	11.8

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Total Pebbles (wt%)	Coarse Pebbles (wt%)	Medium Pebbles (wt%)	Fine Pebbles (wt%)	Total Sand (wt%)	Very Coarse Sand (wt%)	Coarse Sand (wt%)	Medium Sand (wt%)	Fine Sand (wt%)	Very Fine Sand (wt%)	Total Silt (wt%)	Coarse Silt (wt%)	Fine Silt (wt%)	Total Clay (wt%)
402	22	ST04P02A5a04	2Bkb2	35	57	32.2	4.5	17.6	10.1	89.0	8.0	14.3	20.1	29.9	16.7	5.6	2.7	2.9	5.4
402	23	ST04P08A6a01	A	0	5	34.1	5.1	18.7	10.3	83.1	8.6	11.7	13.9	23.3	25.5	14.3	11.1	3.1	2.6
402	24	ST03P03A6a02	2Btk	16	37	64.4	0.7	53.4	10.3	76.8	7.4	7.0	7.6	22.8	31.9	19.7	14.3	5.4	3.5
402	25	ST04P01A5a05	2Bk2	36	59	35.5	5.9	18.6	11.0	84.7	8.1	13.2	19.9	28.0	15.4	10.1	5.7	4.3	5.2
402	26	ST04P09A5a03	2Bkb	73	118	37.5	2.0	24.0	11.5	89.1	10.2	15.6	16.6	25.5	21.1	7.9	5.0	2.9	3.0
402	27	ST04P02A5a03	2Bkb1	20	35	35.9	13.6	13.3	9.0	81.3	7.1	13.3	18.6	24.6	17.6	10.0	5.3	4.7	8.7
402	28	ST04P08A6a02	Bw	5	13	38.6	0.8	19.7	18.1	88.3	14.0	15.4	16.8	25.0	17.1	8.5	5.4	3.0	3.2
402	29	ST03P03A6a03	2Bk	37	76	50.5	3.5	30.2	16.8	72.5	14.8	9.9	8.1	17.2	22.5	24.0	14.9	9.0	3.5
402	30	ST04P01A5a06	2Bk3	59	99	40.7	8.6	21.1	11.0	89.5	8.1	14.7	20.7	29.4	16.6	6.6	3.6	3.0	3.9
402	31	ST03P03A5a09	3B'kb	202	224	66.6	20.6	34.5	11.5	86.2	13.1	12.0	11.0	24.5	25.7	10.8	7.0	3.8	3.0
402	32	ST04P09A6a02	Bk/BC	22	73	35.3	4.4	18.8	12.1	84.6	9.2	11.2	13.8	25.7	24.6	10.5	6.4	4.1	4.9
402	33	ST04P02A6a02	Bk1/Bk2	6	20	39.5	12.1	19.5	7.9	83.6	7.3	12.3	16.5	25.2	22.3	11.2	6.5	4.8	5.2
402	34	RM06.5A3	na	na	na	6.8	0.7	4.5	1.6	84.8	7.3	7.7	10.5	35.1	24.3	10.3	5.7	4.6	4.9
402	35	ST04P01A5a07	2Bk4	99	139	42.8	11.8	19.8	11.2	91.1	13.8	17.7	20.5	24.3	14.8	6.2	3.4	2.8	2.7
402	36	ST03P03A6a04	2BCk	76	91	58.1	10.3	32.3	15.5	74.3	12.8	11.1	10.3	19.7	20.5	22.1	13.6	8.5	3.6
402	37	ST04P08A6a03	Bk	13	30	53.7	4.2	34.9	14.6	81.8	17.0	16.6	18.8	18.3	11.2	12.1	7.6	4.5	6.1
402	38	ST04P09A6a01	A/BA	0	22	25.8	2.7	14.2	8.9	81.4	6.4	9.1	12.7	27.4	25.8	13.0	7.3	5.8	5.5
402	39	ST03P03A5a10	3BCkb	224	259	66.3	9.6	44.9	11.8	82.8	11.4	9.9	10.7	23.8	26.9	14.2	9.5	4.8	3.0
402	40	ST04P01A5a08	2BCk	139	192	49.5	12.5	22.0	15.0	94.4	12.7	23.6	29.8	21.0	7.4	2.8	1.6	1.2	2.7
402	41	ST04P02A6a01	A	0	6	23.2	3.7	11.0	8.5	79.1	6.1	12.2	14.9	21.9	23.9	16.3	9.6	6.7	4.6

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403	1	ST04P03A5a09	2Ckb	141	150	52.7	5.9	27.3	19.5	93.6	20.8	26.7	23.0	16.9	6.1	3.7	1.8	1.9	2.7
403	2	DBD40101	na	na	na	25.1	5.9	12.8	6.4	73.5	10.9	10.9	9.2	21.5	21.0	20.4	9.8	10.7	6.0
403	3	ST04P03A5a08	2BCkb	80	141	54.2	14.7	24.2	15.3	92.3	17.0	22.0	22.5	21.6	9.3	4.3	2.0	2.3	3.4
403	4	ST02P04A5a06	2BCkb	123	226	63.5	9.0	37.1	17.4	83.8	17.1	13.9	11.2	19.8	21.7	13.2	8.6	4.6	3.0
403	5	RM50F1	na	na	na	49.4	2.8	33.0	13.6	83.3	7.0	6.8	9.8	34.7	25.0	11.3	6.1	5.2	5.4
403	6	ST02P04A6a01	A	0	13	65.6	3.0	47.9	14.7	79.4	11.3	8.8	8.3	22.2	28.8	16.5	12.1	4.3	4.1
403	7	ST03P06A5a06	2Btkb1	77	86	68.9	16.0	36.0	16.9	72.9	14.7	13.1	8.9	16.4	19.9	21.2	10.9	10.3	5.9
403	8	ST04P03A6a02	A/BA	0	9	17.3	4.9	9.2	3.2	62.5	2.9	9.3	14.5	20.6	15.2	25.0	6.4	18.5	12.5
403	9	ST02P04A5a07	2B'kb1	226	233	63.9	11.2	34.6	18.1	79.6	14.5	13.8	12.2	21.5	17.5	12.2	5.9	6.3	8.2
403	10	ST03P07A6a05	2BCk	67	96	68.1	6.2	41.4	20.5	87.8	26.0	18.6	13.4	18.0	11.8	9.1	5.2	3.9	3.1
403	11	ST02P04A6a02	Bw	13	23	67.1	4.0	47.4	15.7	80.3	18.1	14.2	10.7	18.6	18.8	14.6	8.7	5.8	5.2
403	12	ST03P06A5a11	2BCkb2	218	253	60.9	12.6	35.2	13.1	82.0	14.7	10.8	9.3	22.1	25.2	11.9	7.7	4.3	6.1
403	13	ST03P06A6a02	Bw	8	23	55.4	2.8	35.0	17.6	83.7	16.4	16.1	13.4	20.3	17.4	12.0	7.1	4.9	4.3
403	14	ST04P03A6a03	Btk1	9	18	26.0	8.9	9.7	7.4	63.4	5.7	10.7	16.4	19.0	11.6	13.9	4.5	9.4	22.7
403	15	ST03P06A5a09	2Bkb2	139	162	45.3	7.1	25.1	13.1	64.3	6.9	7.1	6.8	18.8	24.8	26.0	10.1	15.8	9.7
403	16	ST02P04A5a08	2B'kb2	233	300	64.8	4.3	43.3	17.2	88.1	20.4	15.8	12.6	21.8	17.5	8.2	4.9	3.3	3.7
403	17	ST02P04A6a03	Bkb	23	55	54.3	5.8	32.6	15.9	77.9	14.3	12.0	9.9	20.4	21.4	14.9	7.9	6.9	7.2
403	18	ST03P06A6a05	BCkb	54	77	68.8	16.1	38.0	14.7	81.9	15.8	20.9	17.0	17.5	10.8	14.8	10.1	4.6	3.3
403	19	ST03P06A5a10	2BCkb1	162	218	45.1	2.1	25.4	17.6	88.9	17.2	11.4	10.0	23.8	26.4	7.6	3.7	3.9	3.5
403	20	ST04P03A6a04	Btk2	18	27	53.9	20.4	22.9	10.6	80.5	8.3	16.1	22.6	23.3	10.2	7.7	3.4	4.3	11.9
403	21	ST03P07A6a04	2Bk	40	67	55.0	2.1	33.8	19.1	73.4	16.7	12.8	9.3	16.6	17.9	21.7	12.5	9.2	5.0

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403	22	ST03P06A5a08	2Bkb1	98	139	63.3	3.5	42.7	17.1	84.7	18.7	13.9	13.1	22.1	16.9	11.5	7.0	4.5	3.7
403	23	ST03P06A6a01	A	0	8	56.5	5.6	38.4	12.5	80.5	10.6	10.1	11.0	24.0	24.8	15.0	10.2	4.8	4.5
403	24	ST02P04A5a04	2Bqkb	55	79	63.7	11.7	37.2	14.8	79.4	10.4	11.3	9.3	22.3	26.1	15.1	8.6	6.5	5.5
403	25	ST03P07A5a06	3Btkb	96	110	58.4	3.5	38.0	16.9	69.0	9.8	8.8	7.7	18.7	24.1	23.3	13.0	10.3	7.7
403	26	ST03P07A6a03	2Btk	17	40	50.0	1.9	30.7	17.4	65.3	5.8	11.6	9.8	18.0	20.0	27.1	18.0	9.1	7.6
403	27	ST02P04A5a05	2Bkb	79	123	71.8	39.4	24.6	7.8	85.1	10.2	10.1	10.7	27.0	27.0	11.4	7.1	4.3	3.6
403	28	ST04P03A6a05	2Bk	27	35	32.8	3.7	17.4	11.7	83.6	3.6	18.1	25.7	26.5	9.6	10.8	8.2	2.7	5.6
403	29	RM50F2	na	na	na	49.6	2.3	30.0	17.3	83.5	6.4	7.2	10.3	35.6	24.1	10.7	5.7	4.9	5.8
403	30	ST03P07A6a02	BA	6	17	51.0	1.8	34.5	14.7	66.1	9.2	8.6	7.8	17.7	22.9	24.4	14.6	9.8	9.4
403	31	ST03P06A6a04	Bkb	41	54	52.9	2.0	32.4	18.5	86.6	23.8	22.1	15.0	15.1	10.7	9.6	5.1	4.5	3.8
403	32	ST03P06A5a12	2Ckb	253	270	61.0	3.7	39.4	17.9	78.4	12.1	10.8	10.5	22.0	23.0	17.1	11.2	6.0	4.5
403	33	ST04P03A6a06	2BCk	35	67	56.5	12.0	31.2	13.3	94.7	13.0	20.6	28.3	26.2	6.6	2.9	1.3	1.5	2.5
403	34	ST03P06A5a07	2Btkb2	86	98	71.8	34.6	30.0	7.2	70.1	7.0	9.3	8.9	19.4	25.5	25.1	15.3	9.8	4.8
403	35	ST03P06A6a03	Btkb	23	41	61.7	12.2	34.9	14.6	72.7	13.9	15.0	11.3	16.3	16.2	17.8	8.8	9.0	9.5
403	36	ST03P07A6a01	A	0	6	35.9	3.5	22.7	9.7	47.8	2.9	3.5	4.1	12.5	24.8	44.1	21.3	22.8	8.1
403	37	RM50F3	na	na	na	49.5	3.8	30.1	15.6	83.6	6.6	6.8	9.4	35.6	25.1	11.1	5.8	5.3	5.4
403	38	ST04P03A5a07	2Bkb	67	80	67.6	34.2	23.7	9.7	85.4	9.2	15.3	19.0	27.4	14.4	7.4	3.0	4.4	7.2

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nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Total Pebbles (wt%)	Coarse Pebbles (wt%)	Medium Pebbles (wt%)	Fine Pebbles (wt%)	Total Sand (wt%)	Very Coarse Sand (wt%)	Coarse Sand (wt%)	Medium Sand (wt%)	Fine Sand (wt%)	Very Fine Sand (wt%)	Total Silt (wt%)	Coarse Silt (wt%)	Fine Silt (wt%)	Total Clay (wt%)
404	1	RM25D1	na	na	na	25.2	2.8	15.8	6.6	82.0	5.5	6.5	9.9	36.2	23.8	11.4	6.3	5.1	6.6
404	2	WB1345P01A4a04	3Ckb	267	280	35.8	11.3	17.7	6.8	90.6	7.3	13.9	24.0	31.0	14.4	5.6	2.3	3.3	3.9
404	3	WB1630P01A0a01	C	0	18	65.2	5.4	39.1	20.7	87.0	15.0	13.7	15.5	25.6	17.2	9.6	5.7	3.9	3.4
404	4	ST03P01A5a10	3Bkb	273	300	59.3	23.5	26.3	9.5	75.4	7.9	7.2	7.9	23.2	29.2	20.3	13.2	7.1	4.3
404	5	ST02P01A6a04	Bk2	23	49	59.3	7.5	38.2	13.6	85.4	17.4	14.7	10.4	18.1	24.8	11.9	8.4	3.5	2.7
404	6	WB1320P01A3a02	Bkb2	10	23	22.0	2.2	11.7	8.1	86.6	6.7	12.2	21.2	31.4	15.1	7.1	2.7	4.3	6.3
404	7	ST02P02A5a06	2Bqkb	45	87	67.2	17.5	35.4	14.3	85.7	13.6	9.8	8.6	23.9	29.7	10.6	7.2	3.3	3.7
404	8	WB1630P01A0a02	2Ab	18	21	46.0	0.0	28.8	17.2	77.6	12.1	11.7	13.5	24.8	15.5	15.6	5.1	10.6	6.8
404	9	ST03P01A5a09	3B'tkb2	248	273	57.1	29.0	18.8	9.3	71.7	4.0	6.2	8.0	24.1	29.4	20.0	9.0	11.0	8.3
404	10	WB1345P01A4a01	3BC'kb	188	218	19.9	2.4	10.8	6.7	90.0	5.5	9.5	20.8	39.1	15.0	5.3	2.1	3.2	4.8
404	11	ST02P01A6a05	BCk	49	61	58.9	3.2	38.2	17.5	86.4	14.8	17.0	14.7	22.1	17.8	9.9	5.7	4.2	3.7
404	12	RM25D2	na	na	na	25.1	1.8	15.3	8.0	84.4	6.3	6.5	9.4	36.2	26.0	9.9	4.8	5.1	5.7
404	13	ST03P01A5a08	3B'tkb1	217	248	55.0	14.0	28.2	12.8	79.7	13.3	11.1	9.4	21.5	24.4	13.4	7.9	5.5	6.8
404	14	ST02P02A5a07	2Bkb	87	100	64.7	24.9	27.1	12.7	85.9	16.3	10.9	9.2	24.7	24.9	10.9	6.7	4.2	3.2
404	15	WB1630P01A0a03	2Bqkb	21	38	43.5	4.9	23.6	15.0	84.2	11.4	12.7	15.2	27.5	17.4	10.3	4.0	6.3	5.5
404	16	ST03P01A5a07	3BCkb/3Ckb	135	217	61.6	2.8	40.7	18.1	82.0	18.7	15.7	10.7	17.9	18.9	14.5	9.3	5.3	3.5
404	17	ST02P01A5a06	2Btkb	61	95	43.5	6.9	23.5	13.1	68.6	9.5	7.5	7.2	19.8	24.5	23.3	11.1	12.2	8.1
404	18	ST02P02A6a02	A1/A2	0	9	56.9	3.9	32.6	20.4	83.5	15.2	14.3	11.4	21.6	21.2	12.2	8.1	4.2	4.2
404	19	ST03P01A5a06	3Btkb2	122	135	70.2	9.7	41.9	18.6	81.2	21.4	14.4	9.3	18.0	18.0	14.4	8.3	6.1	4.4
404	20	WB1320P01A3a03	BCkb1	23	43	19.3	0.0	10.3	9.0	89.3	6.9	12.7	24.0	35.0	10.6	6.1	3.1	2.9	4.7
404	21	WB1630P01A0a04	2Btqkb	38	51	48.8	23.4	12.0	13.4	83.6	6.1	9.0	14.8	33.9	19.9	9.7	4.8	4.9	6.6

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404	22	ST02P01A6a01	A	0	3	14.9	0.0	7.8	7.1	69.8	3.9	4.6	4.8	19.2	37.3	26.5	19.2	7.4	3.7
404	23	ST03P01A5a05	3Btkb1	89	122	51.5	3.6	33.1	14.8	56.2	8.7	6.7	5.9	14.1	20.8	38.2	18.7	19.5	5.6
404	24	DBD40201	na	na	na	10.2	0.0	6.8	3.4	81.1	7.2	8.3	14.9	32.7	18.0	13.6	9.1	4.4	5.3
404	25	WB1630P01A0a05	2Bkb1	51	67	35.2	13.0	13.2	9.0	89.6	7.1	7.8	10.8	37.8	26.1	5.6	1.3	4.3	4.9
404	26	ST02P02A6a03	Bkb1	9	24	54.6	9.5	34.9	10.2	79.2	9.5	8.8	8.5	21.6	30.8	17.3	11.3	6.0	3.6
404	27	WB1345P01A4a02	3C'	218	249	32.3	7.1	16.2	9.0	91.8	9.1	14.2	23.1	33.7	11.6	4.8	2.4	2.3	3.5
404	28	WB1320P01A3a04	BCkb2	43	91	18.5	1.3	9.2	8.0	90.8	5.9	12.2	23.7	37.8	11.2	5.1	2.2	2.9	4.0
404	29	ST03P01A6a04	2Bk	48	89	57.6	10.7	35.1	11.8	73.0	11.5	9.9	9.6	20.4	21.6	23.6	14.8	8.8	3.4
404	30	WB1630P01A0a06	2Bkb2	67	91	46.0	2.4	22.9	20.7	91.1	14.9	14.9	18.8	28.9	13.7	5.7	2.6	3.1	3.2
404	31	ST02P01A6a02	BA	3	10	42.4	9.6	24.5	8.3	74.2	7.0	6.1	6.1	21.3	33.7	21.4	14.8	6.5	4.4
404	32	ST02P02A6a04	Bkb2	24	37	58.8	4.3	41.7	12.8	85.5	12.2	12.6	12.6	24.3	23.8	11.9	7.8	4.1	2.6
404	33	ST03P01A6a03	2Btk	20	48	46.9	4.9	31.7	10.3	73.7	7.5	5.7	6.3	22.5	31.7	23.7	16.4	7.3	2.6
404	34	WB1345P01A4a03	3Bkb	249	267	23.5	4.5	11.7	7.3	82.6	4.0	11.3	20.4	30.7	16.3	10.1	3.0	7.2	7.2
404	35	WB1320P01A3a01	Bkb1	0	10	26.8	2.0	13.7	11.1	80.8	6.9	10.5	20.0	30.8	12.6	8.6	3.2	5.5	10.5
404	36	ST02P02A5a05	2Btkb	37	45	44.4	2.2	28.3	13.9	72.7	7.8	8.2	7.9	22.3	26.5	20.0	10.7	9.3	7.4
404	37	ST03P01A6a02	BA	8	20	27.1	5.3	14.6	7.2	66.1	3.3	3.9	4.3	19.5	35.0	25.0	15.5	9.4	8.9
404	38	WB1630P01A0a07	3Btkb	91	106	69.7	33.8	25.6	10.3	77.0	6.5	8.8	12.3	28.2	21.2	12.9	4.6	8.3	10.1
404	39	ST02P01A6a03	Bk1	10	23	60.2	5.7	44.2	10.3	78.5	11.5	8.4	7.7	21.0	29.9	17.1	12.1	5.0	4.3
404	40	RM25D3	na	na	na	24.8	1.3	14.6	8.9	84.2	7.5	6.9	9.8	35.0	25.0	10.1	5.3	4.8	5.7
404	41	ST03P01A6a01	A1/A2	0	8	20.3	2.5	10.6	7.2	70.4	4.1	4.3	4.7	20.8	36.5	23.8	15.5	8.3	5.8
404	42	WB1630P01A0a08	3Bkb	106	131	39.3	6.0	19.5	13.8	86.5	10.5	9.6	12.7	29.8	23.9	8.6	5.0	3.7	4.9

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405	1	WB1345P01A6a01	BA1	0	8	29.9	7.2	12.8	9.9	83.5	5.9	8.1	10.4	32.1	27.1	10.8	6.7	4.2	5.6
405	2	WB1334P01A6a06	BCk3	86	122	55.9	11.8	29.7	14.4	89.1	13.2	13.4	15.3	29.8	17.3	6.3	3.6	2.7	4.6
405	3	WB1312P01A6a04	Bk2	46	64	32.4	1.1	18.3	13.0	83.4	8.4	11.1	14.9	29.3	19.7	10.7	6.3	4.4	5.9
405	4	WB1312P01A5a01	2Bkb1	127	150	32.3	7.4	14.6	10.3	86.9	7.1	9.9	16.8	35.9	17.2	6.7	2.7	4.0	6.4
405	5	WB1345P01A5a03	2Bkb	119	132	29.9	1.9	14.6	13.4	83.6	6.0	8.7	14.9	35.3	18.6	8.6	3.0	5.6	7.8
405	6	WB1334P01A4a02	3Ckb	259	315	32.1	3.9	16.8	11.4	95.1	10.6	20.2	32.1	25.6	6.7	1.7	1.1	0.6	3.2
405	7	WB1312P01A6a05	BCk1	64	102	55.3	11.4	29.8	14.1	87.5	11.8	12.8	16.4	29.8	16.6	7.4	3.9	3.5	5.1
405	8	WB1334P01A5a01	2Bkb	122	142	41.8	5.8	20.8	15.2	86.4	6.0	9.8	16.4	34.5	19.9	5.9	2.1	3.8	7.6
405	9	RM50F4	na	na	na	49.2	2.2	29.9	17.1	84.3	6.9	6.9	10.0	35.3	25.2	9.9	5.2	4.7	5.8
405	10	WB1345P01A6a02	BA2	8	23	34.7	4.1	20.1	10.5	86.9	8.7	8.4	10.2	32.8	26.8	8.8	5.4	3.3	4.4
405	11	WB1334P01A6a05	BCk2	69	86	39.9	1.5	22.2	16.2	83.0	10.7	11.0	13.2	29.3	18.8	12.7	5.4	7.3	4.3
405	12	WB1345P01A5a04	2BCkb	132	168	33.5	7.2	15.6	10.7	92.5	10.1	12.0	17.7	33.2	19.5	4.5	2.5	2.0	3.0
405	13	WB1312P01A4a01	3Bkb	208	226	23.0	1.8	12.5	8.7	85.4	7.1	12.4	21.0	29.9	14.9	8.3	2.3	6.0	6.3
405	14	WB1312P01A6a01	BA1	0	5	29.0	0.3	17.6	11.1	85.2	7.6	8.7	10.9	32.2	25.6	9.6	4.6	5.0	5.2
405	15	WB1312P01A5a02	2Bkb2	150	183	36.3	7.3	18.1	10.9	92.4	8.1	11.6	20.3	35.8	16.6	5.2	2.2	3.0	2.4
405	16	WB1334P01A5a02	2BCkb1	142	160	24.9	4.6	11.6	8.7	91.4	6.0	9.6	17.4	37.4	21.0	5.4	2.6	2.8	3.2
405	17	WB1345P01A5a05	2C	168	188	35.7	4.3	19.3	12.1	93.9	12.3	16.1	23.8	29.6	12.1	3.2	1.3	1.9	2.9
405	18	WB1345P01A6a03	Bk1	23	43	30.9	1.6	17.0	12.3	83.8	8.0	8.9	10.4	30.5	26.0	12.0	7.1	4.9	4.2
405	19	WB1334P01A6a04	BCk1	36	69	26.4	0.7	14.4	11.3	82.4	6.8	9.4	11.8	30.1	24.4	12.6	6.6	6.1	5.0
405	20	WB1345P01A5a00	2Btkb1	81	91	34.7	0.4	14.4	19.9	76.3	4.4	8.7	13.4	32.0	17.8	14.5	4.3	10.2	9.1
405	21	WB1312P01A6a02	BA2	5	25	22.5	1.6	12.7	8.2	85.0	4.9	6.6	10.3	36.6	26.6	9.4	5.2	4.2	5.6

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405	22	WB1334P01A5a03	2BCkb2	160	198	22.3	2.7	11.2	8.4	89.5	7.0	10.6	19.2	36.1	16.7	5.8	2.4	3.4	4.7
405	23	WB1334P01A6a03	Bk	15	36	50.1	10.4	25.9	13.8	85.8	12.1	12.0	12.1	28.2	21.3	9.7	5.5	4.2	4.6
405	24	WB1312P01A4a02	3C	226	254	48.1	17.7	18.0	12.4	93.5	16.9	25.4	23.8	20.2	7.1	2.7	1.3	1.4	3.8
405	25	WB1345P01A6a04	Bk2	43	56	32.2	0.0	16.4	15.8	81.1	11.2	11.1	12.1	25.3	21.3	14.7	8.4	6.3	4.2
405	26	WB1334P01A4a01	3BCkb	239	259	50.2	10.0	26.2	14.0	90.7	13.5	21.2	25.5	23.2	7.3	4.0	0.0	4.0	5.3
405	27	WB1312P01A6a03	Bk1	25	46	31.6	0.0	15.6	16.0	85.3	8.7	10.2	12.8	30.7	22.8	9.3	5.4	4.0	5.4
405	28	RM50F5	na	na	na	49.3	3.8	31.6	13.9	84.8	7.7	7.7	10.0	34.6	24.7	9.9	5.0	4.9	5.3
405	29	WB1312P01A5a03	2C	183	208	29.8	7.9	13.8	8.1	92.4	9.2	15.4	24.2	31.2	12.4	4.4	2.0	2.4	3.2
405	30	WB1345P01A5a01	2Btkb2	91	99	32.4	3.3	10.3	18.8	79.6	6.2	9.9	14.0	32.6	16.9	12.7	3.3	9.3	7.7
405	31	WB1334P01A6a02	BA2	5	15	33.6	2.8	19.2	11.6	84.1	8.0	9.3	10.6	30.2	26.0	10.6	6.2	4.4	5.4
405	32	WB1334P01A5a04	2C	198	239	38.9	6.8	18.5	13.6	95.6	15.1	20.4	28.6	25.5	6.1	1.6	0.6	1.0	2.8
405	33	WB1312P01A6a06	BCk2	102	127	36.7	5.8	18.0	12.9	89.4	9.3	11.4	17.7	34.3	16.6	5.4	2.4	3.0	5.2
405	34	WB1345P01A6a05	C	56	81	59.7	1.8	35.2	22.7	90.0	22.1	19.5	17.1	20.7	10.6	6.0	2.6	3.5	4.0
405	35	WB1334P01A6a01	BA1	0	5	19.2	0.6	10.6	8.0	78.1	5.3	6.4	8.3	29.4	28.7	15.8	8.6	7.2	6.1
405	36	WB1345P01A5a02	2Btkb3	99	119	27.8	3.6	14.3	9.9	89.8	7.8	10.7	15.6	35.7	20.0	5.2	2.3	2.9	5.0
405	37	DBD40301	na	na	na	43.4	3.5	20.4	19.5	93.2	17.5	26.0	23.7	18.7	7.3	3.5	2.0	1.5	3.3

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406	1	WB1334P01A1f	6C	536	628	40.1	16.6	15.9	7.6	94.3	6.7	12.6	26.3	38.0	10.8	2.1	0.9	1.2	3.6
406	2	ST02P05A6a01	A/AC	0	20	56.4	1.9	38.2	16.3	86.0	14.6	15.0	11.7	23.9	20.7	9.8	6.4	3.4	4.2
406	3	WB1312P01A1b	6C'	668	700	23.1	4.2	12.2	6.7	89.5	6.1	11.0	21.9	37.2	13.3	5.0	1.9	3.1	5.5
406	4	RM16C4	na	na	na	16.0	0.7	10.3	5.0	84.4	7.4	7.0	9.6	35.1	25.3	9.8	4.8	5.0	5.8
406	5	WB1312P01A4i	3C'	277	357	48.9	7.6	25.0	16.3	95.2	16.5	28.8	26.4	18.4	5.2	1.7	0.5	1.1	3.1
406	6	WB1334P01A1d	6C'	628	661	20.2	0.4	8.5	11.3	91.9	10.0	18.1	27.1	29.4	7.4	2.7	0.5	2.2	5.4
406	7	WB1345P01A4e	3C	305	454	41.9	13.5	18.6	9.8	95.8	12.0	27.1	31.5	19.7	5.5	1.7	0.7	1.0	2.5
406	8	WB1312P01A1e	6C	567	668	37.0	6.0	20.1	10.9	94.5	10.8	20.2	28.9	28.4	6.2	1.6	0.4	1.2	3.8
406	9	ST02P05A6a02	Bkb	20	62	61.4	2.4	40.9	18.1	82.4	15.9	15.7	13.2	20.3	17.4	12.5	6.9	5.5	5.1
406	10	WB1345P01A4e03	C	nd	nd	45.5	6.4	27.0	12.1	91.0	10.0	18.1	23.5	25.3	14.1	5.0	2.7	2.3	4.0
406	11	DBD40401	na	na	na	33.9	3.0	22.1	8.8	84.3	8.3	7.0	9.9	34.3	24.8	9.7	5.0	4.7	6.0
406	12	WB1312P01A5b	2Bk/2C	162	241	34.5	14.7	11.1	8.7	89.6	9.4	15.4	22.5	30.1	12.3	5.4	1.6	3.8	5.0
406	13	WB1334P01A2d	5C	512	536	21.1	0.8	10.9	9.4	93.1	8.1	20.7	30.7	26.4	7.1	3.3	1.2	2.1	3.6
406	14	WB1312P01A1f	6C"	700	762	40.8	10.6	21.0	9.2	92.1	10.5	16.9	24.4	30.5	9.9	3.4	1.0	2.4	4.4
406	15	WB1345P01A4e02	C	nd	nd	37.8	3.5	19.6	14.7	95.5	16.8	31.3	26.4	16.3	4.8	1.8	0.8	1.0	2.7
406	16	WB1345P01A1e	5C	567	613	44.8	12.8	22.4	9.6	93.3	10.2	15.7	27.8	31.5	8.0	2.7	0.9	1.7	4.1
406	17	ST02P05A5a03	2Bqkb	62	103	62.7	2.4	43.2	17.1	83.2	18.4	18.0	12.8	17.7	16.4	11.6	6.4	5.2	5.2
406	18	WB1334P01A3a	4C	433	512	22.8	4.1	10.1	8.6	90.7	10.7	14.5	24.0	31.3	10.2	4.6	1.7	2.9	4.7
406	19	WB1312P01A5a	2Bkb	94	162	52.1	21.5	19.2	11.4	90.3	13.1	12.0	15.8	32.2	17.2	5.1	2.1	3.0	4.6
406	20	WB1312P01A2e	5C	515	552	32.7	2.1	16.1	14.5	94.9	13.2	26.1	32.3	20.3	3.0	1.3	0.0	1.3	3.8
406	21	WB1345P01A3b	4C	454	567	23.1	1.5	12.1	9.5	90.9	8.2	14.8	24.7	33.4	9.9	4.3	1.5	2.8	4.8

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406	22	RM16C5	na	na	na	16.2	0.3	10.1	5.8	84.3	7.8	7.0	10.2	35.5	23.8	9.9	5.5	4.4	5.8
406	23	WB1334P01A4g	3BCkb/3Ckb	256	296	42.7	13.7	18.2	10.8	93.6	11.1	19.7	29.9	25.2	7.8	2.1	0.7	1.4	4.3
406	24	ST02P05A5a04	2Bkb	103	119	67.2	11.4	40.6	15.2	77.7	14.8	12.0	9.5	19.2	22.1	16.6	10.1	6.5	5.7
406	25	WB1312P01A3b	4C	433	515	19.7	2.0	9.2	8.5	89.9	7.7	15.0	23.5	32.4	11.3	4.7	1.5	3.2	5.4
406	26	WB1345P01A4g02	C	nd	nd	49.7	9.9	26.3	13.5	95.8	17.9	29.2	28.1	16.3	4.3	1.0	0.1	0.9	3.2
406	27	WB1334P01A4e	3C	296	433	43.0	13.1	20.6	9.3	93.6	11.2	18.0	26.6	26.7	11.2	2.9	1.1	1.8	3.4
406	28	ST02P05A5a05	2BCkb1	119	165	59.5	4.5	34.4	20.6	88.2	16.7	15.3	12.9	22.9	20.5	9.3	5.8	3.4	2.5
406	29	WB1312P01A4e02	3C'''	381	433	31.0	2.8	16.9	11.3	93.1	10.6	20.3	25.3	26.0	11.0	3.4	2.0	1.4	3.5
406	30	WB1345P01A5e	2BCkb/2C	131	177	35.9	5.9	18.1	11.9	93.1	11.5	14.3	22.1	31.8	13.4	3.9	1.7	2.2	3.0
406	31	WB1345P01A5g	C	238	268	37.1	15.7	13.8	7.6	91.0	9.2	15.1	22.8	32.9	11.1	5.2	2.7	2.5	3.7
406	32	WB1312P01A4g	3C''	357	381	61.7	42.1	13.9	5.7	91.8	8.0	16.5	24.6	29.7	13.0	4.3	2.6	1.7	3.9
406	33	WB1334P01A5e	2BCkb/2C	146	256	33.0	9.1	15.3	8.6	91.6	10.3	11.4	20.4	34.4	15.1	4.8	2.3	2.5	3.6
406	34	ST02P05A5a06	2BCkb2	165	239	72.5	18.0	40.0	14.5	84.0	17.6	11.9	10.2	21.1	23.1	13.7	9.2	4.5	2.3
406	35	RM16C6	na	na	na	16.2	1.3	8.6	6.3	84.5	7.0	6.9	9.7	36.2	24.8	10.2	5.5	4.7	5.3
406	36	WB1345P01A4b	3Ckb	268	305	24.1	4.5	11.5	8.1	85.1	6.2	11.5	20.9	30.7	15.8	8.3	2.8	5.6	6.5
406	37	WB1312P01A4h	3C	241	277	46.2	33.5	7.2	5.5	86.9	6.0	13.3	21.0	31.2	15.4	6.2	2.3	3.9	6.9
406	38	WB1345P01A5f	C	177	238	31.9	7.2	16.0	8.7	90.8	6.1	9.9	16.5	36.5	21.8	5.3	2.7	2.6	3.9
406	39	WB1334P01A6a	BA/Bk/BCk	3	128	44.6	4.0	25.7	14.9	85.1	9.2	10.9	13.3	30.5	21.2	10.7	5.4	5.3	4.2
406	40	ST02P05A5a07	2B'kb	239	290	51.9	0.5	22.2	29.2	90.4	28.5	22.6	14.6	15.0	9.8	4.8	2.4	2.4	4.8
406	41	WB1312P01A6a	BA/Bk/BCk	6	94	39.6	11.0	18.1	10.5	84.8	7.5	10.6	13.1	30.9	22.7	8.9	4.3	4.6	6.3

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407	1	SC01P01A5a01	A/2BA	0	11	57.8	27.9	20.6	9.3	62.6	8.6	10.9	9.4	14.8	18.9	20.9	11.3	9.6	16.5
407	2	SC03P01A6a05	Bk3	49	75	54.7	6.9	32.4	15.4	85.4	13.0	17.4	18.1	22.4	14.5	10.5	5.7	4.8	4.1
407	3	RC01P01A5a08	3Bkb3	191	206	62.5	25.6	27.9	9.0	80.8	11.2	10.5	10.7	22.1	26.2	16.6	13.4	3.3	2.6
407	4	SC02P01A5a04	2Bk2	37	54	71.3	16.0	40.5	14.8	86.7	18.2	13.8	10.1	21.4	23.1	10.2	7.3	3.0	3.1
407	5	WB1334P01A1a01	C	nd	nd	22.5	0.0	10.9	11.6	88.5	7.2	12.7	23.7	34.5	10.4	4.5	1.6	2.9	7.1
407	6	WB1310P01A1a04	2C	58	88	18.9	1.9	10.5	6.5	91.4	4.7	10.6	24.5	40.0	11.7	4.2	1.4	2.7	4.4
407	7	RM36E4	na	na	na	35.2	3.1	20.8	11.3	83.5	8.6	7.4	9.9	34.7	23.0	10.3	5.5	4.8	6.2
407	8	SC01P01A5a02	2Bk	11	28	60.2	8.9	33.8	17.5	83.3	24.4	17.8	11.7	14.9	14.5	11.6	6.2	5.3	5.1
407	9	RC01P01A5a07	3Bkb2	173	191	66.9	15.5	41.2	10.2	73.1	9.8	9.1	10.3	22.8	21.1	20.5	9.1	11.4	6.4
407	10	SC03P01A6a04	Bk2	29	49	40.6	6.0	20.8	13.8	83.5	11.7	13.3	16.1	24.0	18.4	12.7	7.6	5.1	3.8
407	11	WB1310P01A2e	C	0	24	40.9	3.1	23.5	14.3	96.0	7.6	18.4	40.4	26.8	2.8	0.9	0.2	0.6	3.1
407	12	RM36E5	na	na	na	35.5	1.7	22.9	10.9	83.5	7.7	6.9	9.9	34.9	24.2	10.2	5.8	4.4	6.3
407	13	SC02P01A5a05	2Bk3	54	94	66.3	4.6	41.7	20.0	88.6	21.9	20.4	14.8	17.7	13.7	8.4	5.1	3.3	3.0
407	14	SC01P01A5a03	2Bkm	28	40	73.9	30.8	34.6	8.5	85.9	19.5	18.1	15.0	18.3	15.0	10.4	5.1	5.3	3.7
407	15	RC01P01A5a06	3Bkb1	140	173	60.1	17.6	28.2	14.3	73.0	10.7	11.1	10.4	19.1	21.8	20.9	11.5	9.5	6.1
407	16	SC01P02A5a01	A/BA	0	11	28.9	1.1	16.4	11.4	56.2	6.8	8.3	6.7	13.8	20.5	31.5	17.9	13.6	12.3
407	17	SC03P01A6a03	Bk1	18	29	33.1	1.5	16.7	14.9	84.7	14.1	16.4	17.4	21.6	15.3	11.5	6.7	4.8	3.8
407	18	DBD40501	na	na	na	36.3	7.3	16.5	12.5	83.6	6.2	7.9	10.1	33.1	26.3	10.5	6.4	4.1	5.9
407	19	WB1310P01A1a01	2Bkb	24	33	12.9	0.6	5.2	7.1	85.4	4.4	8.6	20.2	38.2	14.0	7.3	3.3	4.0	7.3
407	20	SC01P01A5a04	2B'k1	40	54	67.2	9.2	41.3	16.7	88.2	17.9	21.9	17.2	17.7	13.5	9.4	5.7	3.8	2.4
407	21	WB1334P01A1a02	C	nd	nd	18.2	1.7	8.6	7.9	92.2	6.7	13.1	24.5	37.7	10.1	3.2	1.5	1.6	4.6

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407	22	RC01P01A5a05	3Btkb	107	140	53.1	9.2	25.9	18.0	69.6	14.2	13.2	11.2	16.5	14.6	18.7	10.2	8.5	11.6
407	23	SC02P01A5a06	2BCk	94	130	71.4	0.9	45.4	25.1	91.2	35.7	26.4	11.1	9.8	8.1	6.2	3.5	2.7	2.7
407	24	RC01P01A6a04	2BCk	71	107	50.3	0.4	27.7	22.2	83.5	18.7	15.9	14.8	18.6	15.5	12.0	7.6	4.3	4.5
407	25	RC01P01A6a03	2Bk2	31	71	50.5	1.3	34.1	15.1	78.7	11.6	9.6	10.5	21.7	25.4	17.5	11.6	5.9	3.8
407	26	SC01P01A5a05	2B'k2	54	73	66.0	8.2	44.2	13.6	88.0	21.8	17.9	15.4	18.0	14.8	9.4	5.5	3.9	2.6
407	27	WB1310P01A1a02	2BCkb1	33	45	16.1	1.3	6.2	8.6	85.9	4.3	8.0	19.2	40.1	14.4	8.1	3.4	4.7	6.0
407	28	SC03P01A6a02	Bw	9	18	38.6	2.1	20.9	15.6	83.3	16.6	15.2	15.3	19.9	16.2	12.9	8.9	4.0	3.8
407	29	SC01P02A5a02	Btk	11	23	43.2	1.5	26.4	15.3	66.9	15.7	12.2	8.4	13.0	17.5	20.3	11.6	8.7	12.8
407	30	SC02P01A5a01	A	0	4	49.5	10.8	27.8	10.9	55.0	7.9	7.5	6.2	13.8	19.5	30.7	13.8	16.9	14.4
407	31	SC03P01A5a06	2Bkb	75	90	56.8	3.6	31.4	21.8	89.8	18.8	20.0	20.7	20.3	10.0	7.2	3.7	3.6	3.0
407	32	SC01P01A5a06	2BCk	73	85	52.8	6.4	24.9	21.5	91.4	28.7	24.9	15.4	12.9	9.4	6.3	3.7	2.6	2.4
407	33	RM36E6	na	na	na	34.9	3.0	19.2	12.7	83.4	7.4	7.6	10.5	34.3	23.6	10.2	5.3	5.0	6.4
407	34	WB1334P01A1a03	C	nd	nd	34.5	4.3	20.1	10.1	92.4	7.0	16.1	29.9	32.0	7.4	3.5	1.7	1.8	4.1
407	35	RC01P01A6a02	2Bk1	8	31	37.5	13.3	14.4	9.8	74.7	9.5	9.7	9.9	19.5	26.1	19.8	13.2	6.6	5.5
407	36	SC03P01A6a01	A	0	9	40.2	2.9	20.0	17.3	81.8	15.4	15.8	14.2	19.6	16.9	14.2	9.0	5.3	4.0
407	37	SC02P01A5a02	Btk	4	14	60.3	10.5	37.0	12.8	61.0	11.5	9.6	8.3	14.9	16.8	21.4	9.4	12.0	17.6
407	38	SC01P01A5a07	2C	85	120	53.9	0.5	32.4	21.0	93.9	22.9	26.7	20.3	16.3	7.8	3.6	2.4	1.2	2.5
407	39	WB1310P01A1a03	2BCkb2	45	58	20.7	3.8	10.6	6.3	91.8	6.8	10.6	23.6	39.9	10.9	3.7	1.7	2.1	4.4
407	40	RC01P01A6a01	A	0	8	18.3	0.9	10.0	7.4	69.8	5.3	8.6	9.2	20.1	26.6	21.8	12.1	9.7	8.3
407	41	SC01P02A5a03	2Bk	23	32	60.2	0.8	41.0	18.4	86.4	23.3	18.1	14.8	16.7	13.6	9.6	5.7	3.9	3.9
407	42	SC02P01A5a03	2Bk1	14	37	75.6	32.5	33.7	9.4	81.6	10.2	12.7	11.2	22.9	24.6	13.1	8.1	5.0	5.3

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408	1	SC04P01A6a01	A	0	7	47.6	8.2	16.0	23.4	53.3	5.4	7.9	9.4	16.4	14.1	22.0	7.6	14.3	24.8
408	2	RM36E7	na	na	na	36.1	9.2	24.7	2.2	83.9	5.7	6.5	9.4	36.5	25.8	10.4	5.3	5.1	5.7
408	3	SC04P01A6a09	Bk8	169	194	71.7	8.3	29.6	33.8	89.1	9.9	16.3	22.1	29.1	11.6	5.2	2.3	2.9	5.7
408	4	CU07	na	na	na	32.0	7.3	17.7	7.0	84.3	5.4	6.8	9.8	36.9	25.2	9.9	4.8	5.1	5.8
408	5	SC05P01A5a04	Bk2	49	72	73.5	9.0	34.2	30.3	88.0	8.5	16.7	25.1	26.2	11.5	6.5	2.0	4.5	5.6
408	6	SC04P01A6a02	Bk1	7	25	47.0	12.9	22.5	11.6	79.3	11.2	16.7	16.6	21.8	13.0	10.9	4.0	6.8	9.8
408	7	ST02P04A5a07	2B'kb2	226	233	64.0	16.5	41.8	5.7	78.6	10.3	9.5	9.9	26.4	22.5	12.1	6.2	5.9	9.3
408	8	SC04P01A6a10	Bk9	194	210	64.8	11.8	29.7	23.3	85.0	12.1	17.2	16.6	24.2	14.9	7.5	4.1	3.4	7.5
408	9	SC05P01A5a06	BCk	98	129	82.1	5.7	31.9	44.5	85.7	9.3	17.2	24.4	22.6	12.2	10.5	4.3	6.2	3.8
408	10	SC04P01A6a03	Bk2	25	49	67.4	13.7	40.9	12.8	81.2	16.0	17.3	16.3	20.2	11.4	10.2	3.9	6.3	8.6
408	11	SC05P01A5a05	Bk3	72	98	74.7	11.3	35.0	28.4	86.2	11.7	18.5	25.1	22.0	8.9	5.4	3.3	2.1	8.4
408	12	CU16	na	na	na	12.1	3.3	7.5	1.3	82.7	6.4	6.1	9.5	35.2	25.5	10.6	5.8	4.8	6.7
408	13	SC04P01A6a04	Bk3	49	84	60.3	11.6	31.0	17.7	86.7	12.9	18.5	23.0	23.3	9.1	2.9	1.2	1.7	10.4
408	14	CU20	na	na	na	51.3	17.5	30.7	3.1	82.7	7.4	6.6	9.3	35.3	24.0	10.6	5.1	5.5	6.7
408	15	RM36E8	na	na	na	35.6	10.6	22.3	2.7	82.8	7.3	6.5	9.5	34.7	24.8	10.4	5.4	5.0	6.8
408	16	SC05P01A5a01	A/Btkm1	0	9	51.6	6.4	21.1	24.1	41.2	1.5	3.7	9.3	15.9	10.8	19.6	5.9	13.7	39.2
408	17	SC04P01A6a05	Bk4	84	111	66.2	12.5	35.1	18.6	84.2	15.0	19.7	20.0	20.1	9.4	6.0	2.3	3.6	9.9
408	18	SC05P01A5a07	Ck	129	160	71.1	16.8	42.8	11.5	84.9	14.1	15.8	20.8	24.1	10.1	9.9	5.9	4.0	5.2
408	19	CU04	na	na	na	33.9	12.6	19.9	1.4	83.5	8.2	7.5	10.1	33.8	23.8	10.2	5.3	4.8	6.4
408	20	SC05P01A5a02	Btkm2	9	20	83.1	6.9	29.7	46.5	68.3	7.9	10.2	17.2	23.4	9.7	8.2	1.9	6.4	23.5
408	21	SC04P01A6a06	Bk5	111	123	61.8	14.3	41.1	6.4	84.1	7.7	13.5	20.1	29.7	13.1	7.0	3.3	3.6	8.9

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408	22	SC04P01A6a07	Bk6	123	153	73.5	6.6	24.5	42.4	85.4	13.7	15.9	20.7	24.9	10.2	5.9	1.8	4.1	8.7
408	23	DBD40701	na	na	na	21.0	3.2	6.2	11.6	60.3	8.3	10.6	8.9	15.1	17.4	23.2	12.4	10.8	16.6
408	24	RM36E9	na	na	na	35.6	10.3	21.7	3.6	83.1	7.4	6.7	9.5	35.7	23.8	10.4	5.5	4.9	6.5
408	25	SC04P01A6a08	Bk7	153	169	53.8	15.8	27.1	10.9	89.6	13.7	24.4	22.5	21.4	7.7	2.7	1.2	1.5	7.7
408	26	CU15	na	na	na	27.4	7.4	20.0	0.0	83.1	7.9	7.3	10.0	34.7	23.3	9.1	5.8	3.3	7.8
408	27	SC05P01A5a03	Bk1	20	49	74.2	10.5	32.8	30.9	83.7	10.8	17.9	25.1	24.0	5.9	5.6	2.9	2.7	10.6

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Total Pebbles (wt%)	Coarse Pebbles (wt%)	Medium Pebbles (wt%)	Fine Pebbles (wt%)	Total Sand (wt%)	Very Coarse Sand (wt%)	Coarse Sand (wt%)	Medium Sand (wt%)	Fine Sand (wt%)	Very Fine Sand (wt%)	Total Silt (wt%)	Coarse Silt (wt%)	Fine Silt (wt%)	Total Clay (wt%)
409	1	SC07P01A5a05	Bk3	52	61	61.7	25.9	26.6	9.2	67.7	9.9	6.9	5.9	18.5	26.6	28.3	19.2	9.1	4.0
409	2	SC09P01A6a02	Bk1	6	29	65.3	29.7	29.9	5.7	70.0	8.5	9.4	9.1	19.7	23.3	23.5	14.1	9.5	6.4
409	3	SC07P01A5a06	Btkb1	61	98	56.7	16.7	26.2	13.8	59.7	7.5	6.2	5.2	15.2	25.6	33.6	22.0	11.6	6.7
409	4	SC07P01A5a03	Bk1	12	39	44.5	0.9	27.5	16.1	62.9	11.3	8.7	6.2	14.8	21.9	30.5	17.3	13.2	6.6
409	5	SC07P01A5a04	Bk2	39	52	59.1	4.1	40.1	14.9	75.3	11.6	8.8	7.1	21.3	26.5	19.8	13.6	6.2	4.9
409	6	RM16C8	na	na	na	15.8	0.2	8.0	7.6	83.2	7.9	7.0	9.5	35.4	23.5	10.4	6.5	3.8	6.4
409	7	SC09P01A6a04	Btk1	47	68	36.5	4.9	18.1	13.5	58.9	8.2	6.9	6.5	16.6	20.7	27.8	12.3	15.4	13.3
409	8	SC07P01A5a07	Btkb2	98	119	53.9	9.2	31.4	13.3	63.0	9.9	8.0	5.9	15.9	23.3	30.9	17.2	13.8	6.1
409	9	SC07P01A5a01	A1	0	2	52.5	10.8	27.6	14.1	53.8	10.4	7.0	5.2	12.7	18.3	33.4	16.8	16.6	12.8
409	10	SC09P01A6a05	Btk2	68	86	52.3	19.0	19.2	14.1	60.1	9.5	7.8	6.5	16.5	19.8	24.4	11.7	12.7	15.5
409	11	DBD40601	na	na	na	23.5	7.7	10.0	5.8	93.5	5.8	11.3	24.6	40.1	11.7	3.2	2.0	1.2	3.3
409	12	SC07P01A5a02	A2	2	12	43.0	4.4	21.6	17.0	56.6	10.5	8.2	5.4	13.0	19.6	32.7	16.9	15.9	10.7
409	13	SC07P01A5a08	Bkb	119	160	57.2	12.3	31.4	13.5	68.8	11.4	8.3	6.3	17.7	25.2	25.7	16.8	8.9	5.5
409	14	SC09P01A6a01	A	0	6	44.1	20.6	16.1	7.4	53.9	5.1	5.5	5.6	14.2	23.5	32.7	18.2	14.6	13.4
409	15	RM16C7	na	na	na	16.1	1.1	8.4	6.6	82.9	6.3	7.7	10.3	35.3	23.2	10.7	5.4	5.4	6.4
409	16	SC09P01A6a03	Bk2	29	47	67.7	5.9	48.0	13.8	78.1	18.2	12.0	10.6	18.6	18.7	18.9	11.0	8.0	2.9
409	17	SC09P01A6a06	BC	86	110	50.3	16.9	22.5	10.9	68.8	12.1	9.3	7.6	18.4	21.5	23.9	13.1	10.8	7.3

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Total Pebbles (wt%)	Coarse Pebbles (wt%)	Medium Pebbles (wt%)	Fine Pebbles (wt%)	Total Sand (wt%)	Very Coarse Sand (wt%)	Coarse Sand (wt%)	Medium Sand (wt%)	Fine Sand (wt%)	Very Fine Sand (wt%)	Total Silt (wt%)	Coarse Silt (wt%)	Fine Silt (wt%)	Total Clay (wt%)
410	1	RM55G1	na	na	na	54.4	4.0	34.0	16.4	82.7	7.4	7.4	10.0	35.4	22.5	11.5	6.4	5.0	5.8
410	2	WB1272P01A4a01	3BCkb	257	277	16.1	0.7	7.6	7.8	88.6	7.0	13.2	22.6	31.4	14.3	4.8	2.7	2.1	6.6
410	3	WB1374P01A4e	3C'	402	497	49.7	7.9	24.9	16.9	86.8	17.1	23.6	21.6	16.0	8.5	7.5	3.6	3.9	5.7
410	4	WB1272P01A5a02	2BCkb	152	216	24.9	8.8	8.1	8.0	90.2	8.6	12.4	19.1	33.7	16.4	5.4	2.9	2.5	4.4
410	5	WB1374P01A6a01	Bk/BA	107	119	57.3	11.7	30.3	15.3	84.0	12.3	11.2	13.7	29.8	17.0	6.5	3.1	3.4	9.5
410	6	WB1272P01A6a	Bk/BCk	79	134	23.9	4.8	9.8	9.3	88.2	6.4	10.3	18.6	36.6	16.3	7.2	3.7	3.5	4.6
410	7	WB1272P01A6a02	BCk	94	130	25.8	2.7	12.9	10.2	92.0	9.3	13.3	22.4	34.5	12.6	4.0	1.6	2.3	4.1
410	8	WB1374P01A1b	5C	521	558	26.4	3.7	12.3	10.4	90.9	9.2	14.3	24.1	33.5	9.7	4.6	2.0	2.6	4.5
410	9	WB1272P01A5a03	2C	216	257	34.3	2.6	18.4	13.3	89.6	12.7	16.1	23.3	28.3	9.1	5.9	1.8	4.1	4.5
410	10	WB1374P01A4f	3BCkb/3Ckb/3C	271	402	28.5	8.1	11.8	8.6	91.1	8.5	15.5	24.8	29.2	13.1	5.3	2.7	2.6	3.7
410	11	WB1374P01A6a02	BCk	119	170	50.6	6.2	28.2	16.2	88.7	13.9	13.9	16.6	29.1	15.2	5.1	2.1	3.0	6.2
410	12	RM25D5	na	na	na	24.9	1.9	15.2	7.8	83.5	7.3	6.9	9.8	35.8	23.8	10.8	5.9	4.9	5.7
410	13	WB1272P01A4a02	3C	277	292	26.2	0.5	12.4	13.3	91.2	7.5	17.4	26.0	28.9	11.4	4.5	2.5	2.0	4.3
410	14	WB1272P01A6a01	Bk	64	94	25.2	1.7	10.7	12.8	87.0	6.9	9.6	16.8	36.3	17.5	6.7	2.3	4.5	6.3
410	15	WB1374P01A1e	5C'	558	598	43.2	8.8	22.6	11.8	92.2	11.7	20.7	31.0	23.8	4.9	3.3	1.1	2.2	4.5
410	16	WB1272P01A1b	6C	543	560	17.0	0.2	9.4	7.4	88.3	5.5	11.0	21.3	39.2	11.3	4.3	1.2	3.0	7.5
410	17	WB1374P01A5a01	2Bkb	170	185	33.2	3.5	17.2	12.5	85.0	7.2	10.2	17.7	32.5	17.4	6.3	2.2	4.0	8.7
410	18	WB1272P01A5b	2BCkb/2C	165	253	28.8	9.9	11.5	7.4	91.1	8.7	12.6	21.0	34.5	14.4	4.4	1.9	2.5	4.5
410	19	WB1272P01A4f	3BCkb/3C	253	308	26.4	2.4	11.8	12.2	90.9	10.1	17.8	24.6	27.2	11.2	3.9	1.9	2.0	5.2
410	20	WB1272P01A2d	5C'	475	543	23.1	1.6	11.0	10.5	81.8	17.9	16.1	12.2	19.6	16.1	12.0	6.3	5.6	6.2
410	21	WB1374P01A3b	4C	497	521	22.7	1.2	11.6	9.9	89.0	8.0	13.5	23.8	33.0	10.7	5.9	2.5	3.4	5.1

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Total Pebbles (wt%)	Coarse Pebbles (wt%)	Medium Pebbles (wt%)	Fine Pebbles (wt%)	Total Sand (wt%)	Very Coarse Sand (wt%)	Coarse Sand (wt%)	Medium Sand (wt%)	Fine Sand (wt%)	Very Fine Sand (wt%)	Total Silt (wt%)	Coarse Silt (wt%)	Fine Silt (wt%)	Total Clay (wt%)
410	22	WB1272P01A5g	2Bkb	134	165	30.7	9.7	11.3	9.7	91.2	8.0	11.2	18.5	37.0	16.5	3.8	1.3	2.5	5.0
410	23	WB1272P01A4h	3C'	308	378	66.8	40.1	22.0	4.7	92.5	7.5	14.1	25.8	33.2	11.9	4.4	3.4	1.0	3.1
410	24	WB1374P01A5a02	2BCkb	185	226	22.3	5.0	9.5	7.8	89.7	7.0	10.3	18.7	36.1	17.5	6.1	3.5	2.6	4.2
410	25	WB1272P01A2e	5C	442	475	37.7	3.9	20.6	13.2	93.3	13.2	25.6	34.1	17.8	2.5	3.2	1.5	1.7	3.5
410	26	RM25D6	na	na	na	24.4	2.0	13.3	9.1	82.7	7.8	6.8	9.5	35.7	22.9	10.7	6.3	4.4	6.6
410	27	WB1374P01A4a01	3BCkb	272	290	21.0	2.6	9.4	9.0	85.1	6.8	13.0	22.5	29.3	13.5	7.4	4.3	3.1	7.6
410	28	WB1374P01A5a03	2C	226	272	32.4	6.8	16.4	9.2	92.2	7.8	14.0	24.7	36.2	9.5	4.0	2.5	1.5	3.8
410	29	WB1272P01A5a01	2Bkb	130	152	31.6	1.9	13.1	16.6	87.2	7.3	9.7	16.9	36.4	16.8	6.4	3.3	3.2	6.3
410	30	WB1272P01A3b	4C	378	442	23.2	0.5	11.6	11.1	87.1	8.7	17.1	24.1	26.9	10.3	7.5	4.3	3.2	5.4
410	31	DBD40901	na	na	na	73.8	30.4	31.8	11.6	66.5	9.3	6.6	5.7	17.8	27.1	29.1	18.6	10.5	4.4
410	32	WB1374P01A5b	2BCkb/2C	198	271	29.4	8.1	13.0	8.3	90.2	8.1	12.0	20.8	34.9	14.3	5.2	2.1	3.1	4.6
410	33	WB1374P01A4a02	3Ckb	290	325	47.6	9.2	24.7	13.7	94.5	15.2	21.8	29.0	22.4	6.0	2.2	0.9	1.3	3.4

na = not applicable
nd = not determined

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APPENDIX C

Chemical Parameters

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
401	1	ST01P02A6a05	Btqkb1	58	81	2.15	8.84	3.58	0.324	0.084	0.007	0.024
401	2	ST01P02A6a04	C3	36	58	1.52	9.10	2.28	0.226	0.046	0.017	0.026
401	3	RM16C1	na	na	na	1.42	9.01	3.93	0.331	0.079	0.008	0.027
401	4	ST01P01A6a03	BCk	46	71	1.52	9.35	3.69	0.239	0.061	0.006	0.026
401	5	ST01P02A5a09	2Btkb	165	185	1.73	8.81	5.64	0.269	0.061	0.010	0.021
401	6	ST01P01A5a06	2Btkmb1	135	152	1.73	9.00	1.75	0.274	0.065	0.008	0.023
401	7	ST01P02A6a06	Btqkb2	81	130	2.15	9.07	4.78	0.227	0.068	0.005	0.023
401	8	ST01P01A6a01	A	0	10	1.32	8.84	2.02	0.411	0.065	0.014	0.037
401	9	ST01P02A6a07	BCkb	130	150	1.83	8.44	3.47	0.247	0.063	0.004	0.016
401	10	ST01P02A6a01	AC	0	10	1.32	8.97	1.87	0.268	0.047	0.010	0.030
401	11	ST01P01A6a05	Btqkb2	97	135	2.15	8.82	9.57	0.200	0.077	0.006	0.019
401	12	RM36E1	na	na	na	1.42	9.06	3.50	0.347	0.073	0.008	0.024
401	13	ST01P01A5a08	2Btkb	180	216	1.94	8.58	4.86	0.324	0.109	0.008	0.035
401	14	ST01P02A5a08	2Btkmb	150	165	2.15	8.42	8.99	0.285	0.070	0.009	0.028
401	15	ST01P01A6a02	Bw	10	46	1.42	9.01	2.85	0.328	0.056	0.007	0.029
401	16	ST01P02A6a03	C2	25	36	1.21	9.13	2.13	0.202	0.039	0.006	0.020
401	17	ST01P01A6a04	Btqkb1	71	97	1.94	9.30	2.68	0.338	0.073	0.006	0.024
401	18	ST01P02A6a02	C1	10	25	1.42	9.06	2.40	0.255	0.044	0.008	0.031
401	19	ST01P01A5a07	2Btkmb2	152	180	2.15	8.02	5.15	0.335	0.079	0.007	0.030
401	20	RM16C2	na	na	na	1.32	9.01	3.80	0.355	0.071	0.007	0.021
401	21	RM36E2	na	na	na	1.42	9.05	3.32	0.361	0.066	0.006	0.027

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
401	22	ST04P11A6a01	A	0	6	1.21	8.85	2.01	0.361	0.060	0.015	0.039
401	23	ST02P03A5a09	2B'kb1	234	242	1.42	8.87	13.45	0.233	0.076	0.004	0.020
401	24	ST01P03A6a01	A	0	8	1.01	9.06	2.13	0.376	0.060	0.009	0.031
401	25	ST02P03A6a03	Bk1	20	28	0.91	8.88	5.38	0.354	0.061	0.007	0.026
401	26	ST02P03A6a05	Bk3	43	75	1.01	9.24	5.15	0.273	0.054	0.004	0.015
401	27	ST01P03A6a03	Bk	30	79	1.42	8.22	4.37	0.337	0.079	0.004	0.016
401	28	ST02P03A5a07	2Bkb	106	138	2.04	8.61	4.36	0.242	0.077	0.004	0.020
401	29	ST01P03A6a05	Btqkb2	112	182	1.73	7.95	6.01	0.263	0.072	0.003	0.016
401	30	ST04P11A6a02	Bw	6	20	1.32	9.07	3.20	0.335	0.061	0.007	0.027
401	31	RM16C3	na	na	na	1.32	9.06	3.55	0.340	0.069	0.006	0.017
401	32	ST02P03A5a06	2Bqkb	75	106	1.73	9.15	15.83	0.199	0.080	0.003	0.026
401	33	ST02P03A6a02	BA	8	20	0.91	8.85	3.17	0.404	0.059	0.010	0.030
401	34	ST01P03A6a02	Bw	8	30	1.21	8.98	3.07	0.352	0.053	0.013	0.032
401	35	ST02P03A5a08	2BCkb	138	234	0.91	8.87	3.19	0.216	0.054	0.004	0.018
401	36	ST04P11A6a03	Bk/BCk	20	52	1.42	9.52	4.26	0.212	0.049	0.005	0.021
401	37	ST02P03A5a10	2B'kb2	242	260	1.01	9.09	7.53	0.213	0.060	0.005	0.022
401	38	ST02P03A6a04	Bk2	28	43	1.01	8.98	6.13	0.333	0.052	0.005	0.024
401	39	RM36E3	na	na	na	1.21	9.09	3.71	0.348	0.063	0.006	0.026
401	40	ST01P03A6a04	Btqkb1	79	112	1.73	8.08	2.32	0.291	0.060	0.006	0.015
401	41	ST04P11A5a04	2Bkb	52	120	1.32	9.42	7.24	0.202	0.066	0.004	0.014
401	42	ST02P03A6a01	A1/A2	0	8	0.70	8.73	1.83	0.418	0.058	0.000	0.000

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
402	1	RM06.5A1	na	na	na	1.42	8.98	3.19	0.243	0.043	0.008	0.027
402	2	ST04P08A5a04	2Bkb1	30	52	1.73	9.15	16.80	0.114	0.048	0.005	0.018
402	3	ST04P02A5a05	2Bkb3	57	106	1.32	9.34	6.67	0.125	0.034	0.003	0.020
402	4	ST04P01A6a01	A/BA	0	8	1.52	9.03	4.16	0.324	0.050	0.016	0.047
402	5	ST04P09A5a06	2Ckb2	215	300	1.11	8.13	7.15	0.117	0.036	0.005	0.015
402	6	ST03P03A5a05	3Btkb1	91	122	1.83	9.26	3.37	0.324	0.054	0.010	0.038
402	7	ST03P03A5a11	3Ckb	259	291	0.70	9.24	2.53	0.157	0.030	0.003	0.027
402	8	ST04P08A5a05	2Bkb2	52	84	1.11	9.48	6.45	0.127	0.042	0.003	0.022
402	9	ST03P03A5a06	3Btkb2	122	147	1.83	8.12	5.04	0.226	0.057	0.030	0.033
402	10	ST04P01A6a02	Btk1	8	19	1.83	9.26	4.57	0.258	0.054	0.011	0.035
402	11	ST04P09A5a05	2Ckb1	163	215	1.42	8.66	11.32	0.128	0.049	0.005	0.027
402	12	ST04P02A5a06	2Bkb4	106	130	0.81	9.68	7.66	0.149	0.032	0.006	0.022
402	13	ST04P08A5a06	2BCkb	84	116	0.81	8.77	7.26	0.145	0.048	0.005	0.027
402	14	ST03P03A6a01	A/BA	0	16	1.11	8.80	3.09	0.269	0.043	0.012	0.047
402	15	ST04P01A6a03	Btk2	19	25	2.35	9.33	3.25	0.307	0.074	0.009	0.036
402	16	ST03P03A5a07	3Bkb	147	180	1.21	8.54	9.21	0.205	0.056	0.005	0.029
402	17	RM06.5A2	na	na	na	1.52	9.04	3.42	0.296	0.048	0.006	0.035
402	18	ST03P03A5a12	3Bwb	291	310	2.25	8.74	0.92 #	0.313	0.083	0.010	0.043
402	19	ST04P09A5a04	2BCkb	118	163	1.32	9.72	3.45	0.201	0.041	0.005	0.036
402	20	ST03P03A5a08	3B'tkb	180	202	1.32	8.71	12.37	0.353	0.066	0.004	0.040
402	21	ST04P01A6a04	2Bk1	25	36	1.73	9.12	4.41	0.244	0.061	0.007	0.026

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
402	22	ST04P02A5a04	2Bkb2	35	57	1.52	8.99	9.37	0.162	0.039	0.004	0.021
402	23	ST04P08A6a01	A	0	5	1.21	8.66	2.33	0.277	0.035	0.013	0.043
402	24	ST03P03A6a02	2Btk	16	37	1.21	8.70	7.21	0.258	0.033	0.005	0.033
402	25	ST04P01A5a05	2Bk2	36	59	1.63	9.33	7.90	0.183	0.063	0.004	0.027
402	26	ST04P09A5a03	2Bkb	73	118	1.42	9.31	3.86	0.240	0.048	0.008	0.038
402	27	ST04P02A5a03	2Bkb1	20	35	1.42	9.02	8.29	0.239	0.052	0.007	0.030
402	28	ST04P08A6a02	Bw	5	13	1.32	9.06	2.90	0.247	0.051	0.009	0.036
402	29	ST03P03A6a03	2Bk	37	76	1.21	8.86	3.08	0.285	0.063	0.005	0.029
402	30	ST04P01A5a06	2Bk3	59	99	1.52	8.13	9.95	0.150	0.050	0.003	0.024
402	31	ST03P03A5a09	3B'kb	202	224	1.63	8.55	5.77	0.190	0.086	0.005	0.036
402	32	ST04P09A6a02	Bk/BC	22	73	1.32	8.94	4.03	0.276	0.042	0.008	0.029
402	33	ST04P02A6a02	Bk1/Bk2	6	20	1.11	9.01	4.27	0.277	0.039	0.011	0.039
402	34	RM06.5A3	na	na	na	1.32	8.97	3.59	0.286	0.044	0.006	0.025
402	35	ST04P01A5a07	2Bk4	99	139	1.63	7.84	4.72	0.128	0.045	0.003	0.025
402	36	ST03P03A6a04	2BCk	76	91	1.01	9.24	4.07	0.277	0.041	0.004	0.035
402	37	ST04P08A6a03	Bk	13	30	1.52	9.11	4.47	0.236	0.062	0.009	0.037
402	38	ST04P09A6a01	A/BA	0	22	1.21	9.01	3.43	0.322	0.045	0.012	0.035
402	39	ST03P03A5a10	3BCkb	224	259	1.21	8.95	10.01	0.170	0.053	0.004	0.032
402	40	ST04P01A5a08	2BCk	139	192	1.11	8.34	6.03	0.162	0.038	0.018	0.028
402	41	ST04P02A6a01	A	0	6	1.11	8.63	4.12	0.284	0.050	0.016	0.042

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
403	1	ST04P03A5a09	2Ckb	141	150	1.21	8.31	9.39	0.110	0.031	0.004	0.020
403	2	DBD40101	na	na	na	2.15	8.85	3.21 #	0.282	0.061	0.005	0.023
403	3	ST04P03A5a08	2BCkb	80	141	1.21	8.54	8.94	0.106	0.049	0.002	0.020
403	4	ST02P04A5a06	2BCkb	123	226	1.42	9.12	7.17	0.196	0.041	0.003	0.016
403	5	RM50F1	na	na	na	1.52	9.04	3.54 #	0.278	0.052	0.005	0.022
403	6	ST02P04A6a01	A	0	13	0.91	8.75	3.63 #	0.301	0.039	0.012	0.034
403	7	ST03P06A5a06	2Btkb1	77	86	2.15	9.08	7.55	0.291	0.082	0.008	0.035
403	8	ST04P03A6a02	A/BA	0	9	1.52	9.05	8.28	0.353	0.063	0.013	0.041
403	9	ST02P04A5a07	2B'kb1	226	233	1.63	8.46	6.77	0.242	0.064	0.005	0.029
403	10	ST03P07A6a05	2BCk	67	96	0.50	9.18	2.33 #	0.178	0.039	0.004	0.022
403	11	ST02P04A6a02	Bw	13	23	1.11	8.71	3.35 #	0.264	0.042	0.008	0.030
403	12	ST03P06A5a11	2BCkb2	218	253	1.11	8.43	6.01	0.236	0.057	0.005	0.020
403	13	ST03P06A6a02	Bw	8	23	0.70	8.82	1.89 #	0.310	0.047	0.007	0.029
403	14	ST04P03A6a03	Btk1	9	18	2.15	9.05	6.35	0.320	0.072	0.009	0.032
403	15	ST03P06A5a09	2Bkb2	139	162	1.52	9.24	9.47	0.353	0.071	0.005	0.028
403	16	ST02P04A5a08	2B'kb2	233	300	1.11	8.94	7.88	0.171	0.047	0.002	0.019
403	17	ST02P04A6a03	Bkb	23	55	1.83	8.75	4.65	0.287	0.060	0.004	0.021
403	18	ST03P06A6a05	BCkb	54	77	0.70	9.09	2.58 #	0.046	0.004	0.003	0.017
403	19	ST03P06A5a10	2BCkb1	162	218	1.01	9.16	4.95	0.239	0.055	0.003	0.019
403	20	ST04P03A6a04	Btk2	18	27	1.63	8.97	9.84	0.195	0.067	0.004	0.023
403	21	ST03P07A6a04	2Bk	40	67	1.11	8.94	1.80 #	0.281	0.058	0.007	0.024

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403	22	ST03P06A5a08	2Bkb1	98	139	0.81	9.27	3.49 #	0.236	0.055	0.006	0.023
403	23	ST03P06A6a01	A	0	8	0.70	8.76	2.12 #	0.339	0.045	0.013	0.032
403	24	ST02P04A5a04	2Bqkb	55	79	1.73	8.63	15.09	0.045	0.004	0.004	0.017
403	25	ST03P07A5a06	3Btkb	96	110	2.25	8.18	3.94 #	0.327	0.066	0.009	0.030
403	26	ST03P07A6a03	2Btk	17	40	1.21	8.49	0.63 #	0.351	0.053	0.008	0.025
403	27	ST02P04A5a05	2Bkb	79	123	2.25	9.24	9.59	0.167	0.074	0.004	0.023
403	28	ST04P03A6a05	2Bk	27	35	1.11	9.24	6.65	0.140	0.056	0.004	0.019
403	29	RM50F2	na	na	na	1.42	8.99	3.46 #	0.318	0.053	0.007	0.021
403	30	ST03P07A6a02	BA	6	17	1.42	8.84	2.40 #	0.340	0.055	0.007	0.026
403	31	ST03P06A6a04	Bkb	41	54	0.81	8.82	3.92 #	0.242	0.047	0.005	0.014
403	32	ST03P06A5a12	2Ckb	253	270	1.11	8.83	3.48 #	0.294	0.056	0.005	0.018
403	33	ST04P03A6a06	2BCk	35	67	0.81	9.53	5.28	0.111	0.048	0.003	0.014
403	34	ST03P06A5a07	2Btkb2	86	98	1.63	9.00	12.26	0.265	0.065	0.005	0.021
403	35	ST03P06A6a03	Btkb	23	41	1.21	8.75	5.67	0.289	0.059	0.007	0.026
403	36	ST03P07A6a01	A	0	6	1.32	9.03	2.73 #	0.593	0.072	0.017	0.043
403	37	RM50F3	na	na	na	1.21	8.95	3.27 #	0.328	0.055	0.007	0.023
403	38	ST04P03A5a07	2Bkb	67	80	1.42	9.26	13.37	0.154	0.077	0.005	0.026

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
404	1	RM25D1	na	na	na	1.52	9.00	3.27	0.310	0.052	0.008	0.026
404	2	WB1345P01A4a04	3Ckb	267	280	1.21	8.96	5.34	0.184	0.050	0.006	0.028
404	3	WB1630P01A0a01	C	0	18	2.04	8.75	2.88	0.201	0.039	0.006	0.024
404	4	ST03P01A5a10	3Bkb	273	300	1.83	8.63	3.08	0.247	0.056	0.005	0.022
404	5	ST02P01A6a04	Bk2	23	49	1.21	9.06	1.63	0.253	0.038	0.004	0.018
404	6	WB1320P01A3a02	Bkb2	10	23	1.42	9.77	5.25	0.192	0.065	0.006	0.035
404	7	ST02P02A5a06	2Bqkb	45	87	1.73	9.25	8.93	0.145	0.061	0.003	0.024
404	8	WB1630P01A0a02	2Ab	18	21	1.83	8.44	10.42	0.193	0.060	0.006	0.018
404	9	ST03P01A5a09	3B'tkb2	248	273	1.94	8.82	7.81	0.296	0.068	0.007	0.028
404	10	WB1345P01A4a01	3BC'kb	188	218	1.42	8.60	6.93	0.149	0.048	0.005	0.021
404	11	ST02P01A6a05	BCk	49	61	1.11	9.53	4.26	0.265	0.047	0.005	0.021
404	12	RM25D2	na	na	na	1.32	9.06	3.26	0.304	0.059	0.008	0.027
404	13	ST03P01A5a08	3B'tkb1	217	248	2.25	8.22	4.13	0.261	0.064	0.007	0.029
404	14	ST02P02A5a07	2Bkb	87	100	2.04	9.69	7.29	0.178	0.059	0.004	0.020
404	15	WB1630P01A0a03	2Bqkb	21	38	1.94	8.65	3.91	0.250	0.052	0.006	0.025
404	16	ST03P01A5a07	3BCkb/3Ckb	135	217	0.91	8.48	3.41	0.225	0.052	0.006	0.033
404	17	ST02P01A5a06	2Btkb	61	95	2.56	9.61	5.69	0.341	0.063	0.009	0.035
404	18	ST02P02A6a02	A1/A2	0	9	0.91	8.87	3.10	0.293	0.041	0.012	0.040
404	19	ST03P01A5a06	3Btkb2	122	135	1.21	8.22	8.30	0.181	0.057	0.005	0.032
404	20	WB1320P01A3a03	BCkb1	23	43	1.21	9.69	4.90	0.170	0.045	0.006	0.034
404	21	WB1630P01A0a04	2Btqkb	38	51	1.94	8.21	10.89	0.215	0.053	0.005	0.027

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404	22	ST02P01A6a01	A	0	3	1.11	8.61	0.78 #	0.460	0.055	0.020	0.053
404	23	ST03P01A5a05	3Btkb1	89	122	1.52	9.31	4.73	0.381	0.050	0.007	0.029
404	24	DBD40201	na	na	na	1.32	8.97	3.26	0.324	0.069	0.007	0.030
404	25	WB1630P01A0a05	2Bkb1	51	67	2.15	8.46	8.24	0.221	0.050	0.004	0.028
404	26	ST02P02A6a03	Bkb1	9	24	1.21	8.81	6.81	0.314	0.047	0.006	0.028
404	27	WB1345P01A4a02	3C'	218	249	1.21	8.52	5.25	0.199	0.049	0.005	0.027
404	28	WB1320P01A3a04	BCkb2	43	91	1.21	9.16	6.63	0.132	0.045	0.005	0.023
404	29	ST03P01A6a04	2Bk	48	89	1.11	9.40	5.00	0.207	0.063	0.005	0.027
404	30	WB1630P01A0a06	2Bkb2	67	91	1.73	8.64	3.91	0.179	0.045	0.004	0.030
404	31	ST02P01A6a02	BA	3	10	1.21	8.63	2.70	0.402	0.051	0.009	0.034
404	32	ST02P02A6a04	Bkb2	24	37	1.32	8.83	4.90	0.299	0.051	0.005	0.026
404	33	ST03P01A6a03	2Btk	20	48	1.21	8.81	6.10	0.319	0.054	0.005	0.030
404	34	WB1345P01A4a03	3Bkb	249	267	1.73	8.37	7.57	0.251	0.062	0.005	0.034
404	35	WB1320P01A3a01	Bkb1	0	10	1.94	9.54	4.57	0.228	0.057	0.006	0.022
404	36	ST02P02A5a05	2Btkb	37	45	2.25	8.80	6.31	0.366	0.080	0.007	0.029
404	37	ST03P01A6a02	BA	8	20	1.63	8.67	6.49	0.437	0.062	0.010	0.034
404	38	WB1630P01A0a07	3Btkb	91	106	2.67	8.34	11.47	0.287	0.063	0.007	0.026
404	39	ST02P01A6a03	Bk1	10	23	1.42	8.86	7.60	0.352	0.045	0.006	0.026
404	40	RM25D3	na	na	na	1.52	9.02	3.63	0.332	0.058	0.007	0.028
404	41	ST03P01A6a01	A1/A2	0	8	1.42	8.73	2.54	0.446	0.059	0.014	0.043
404	42	WB1630P01A0a08	3Bkb	106	131	1.94	8.65	6.82	0.260	0.055	0.005	0.025

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405	1	WB1345P01A6a01	BA1	0	8	1.21	9.17	3.56	0.232	0.053	0.007	0.026
405	2	WB1334P01A6a06	BCk3	86	122	1.73	8.72	6.44	0.175	0.071	0.003	0.027
405	3	WB1312P01A6a04	Bk2	46	64	1.63	9.09	3.60	0.219	0.063	0.004	0.027
405	4	WB1312P01A5a01	2Bkb1	127	150	1.63	9.17	10.47	0.158	0.072	0.003	0.017
405	5	WB1345P01A5a03	2Bkb	119	132	1.94	8.15	10.55	0.196	0.070	0.004	0.018
405	6	WB1334P01A4a02	3Ckb	259	315	0.81	9.18	5.00	0.101	0.039	0.003	0.020
405	7	WB1312P01A6a05	BCk1	64	102	1.73	9.37	5.21	0.183	0.065	0.003	0.021
405	8	WB1334P01A5a01	2Bkb	122	142	1.73	8.07	11.53	0.198	0.070	0.003	0.018
405	9	RM50F4	na	na	na	1.21	8.99	3.60	0.290	0.058	0.006	0.023
405	10	WB1345P01A6a02	BA2	8	23	1.32	9.10	3.86	0.278	0.051	0.005	0.026
405	11	WB1334P01A6a05	BCk2	69	86	1.63	9.16	13.04	0.246	0.068	0.003	0.025
405	12	WB1345P01A5a04	2BCkb	132	168	1.32	8.32	6.56	0.165	0.061	0.003	0.016
405	13	WB1312P01A4a01	3Bkb	208	226	1.32	9.15	8.41	0.179	0.066	0.004	0.029
405	14	WB1312P01A6a01	BA1	0	5	1.11	9.16	2.38	0.305	0.059	0.009	0.037
405	15	WB1312P01A5a02	2Bkb2	150	183	1.42	8.19	7.78	0.147	0.059	0.003	0.022
405	16	WB1334P01A5a02	2BCkb1	142	160	1.42	8.32	7.47	0.188	0.060	0.003	0.019
405	17	WB1345P01A5a05	2C	168	188	1.21	8.47	6.54	0.151	0.047	0.003	0.024
405	18	WB1345P01A6a03	Bk1	23	43	1.32	9.22	3.82	0.255	0.051	0.005	0.018
405	19	WB1334P01A6a04	BCk1	36	69	1.42	9.03	3.10	0.282	0.062	0.005	0.026
405	20	WB1345P01A5a00	2Btkb1	81	91	2.04	8.01	11.69	0.282	0.080	0.005	0.034
405	21	WB1312P01A6a02	BA2	5	25	1.32	9.08	3.29	0.335	0.055	0.006	0.025

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405	22	WB1334P01A5a03	2BCkb2	160	198	1.42	8.30	7.51	0.188	0.061	0.003	0.025
405	23	WB1334P01A6a03	Bk	15	36	1.32	9.12	4.09	0.267	0.055	0.004	0.029
405	24	WB1312P01A4a02	3C	226	254	0.91	9.05	7.92	0.179	0.048	0.004	0.017
405	25	WB1345P01A6a04	Bk2	43	56	1.52	9.32	2.53	0.278	0.056	0.005	0.028
405	26	WB1334P01A4a01	3BCkb	239	259	1.32	8.69	8.40	0.166	0.050	0.004	0.025
405	27	WB1312P01A6a03	Bk1	25	46	1.42	9.09	3.82	0.269	0.059	0.005	0.022
405	28	RM50F5	na	na	na	1.32	9.08	3.14	0.330	0.063	0.006	0.035
405	29	WB1312P01A5a03	2C	183	208	1.11	8.48	5.36	0.202	0.052	0.004	0.027
405	30	WB1345P01A5a01	2Btkb2	91	99	1.94	7.95	13.78	0.238	0.077	0.005	0.026
405	31	WB1334P01A6a02	BA2	5	15	1.32	9.04	3.02	0.324	0.051	0.008	0.027
405	32	WB1334P01A5a04	2C	198	239	1.21	8.60	4.44	0.167	0.041	0.004	0.011
405	33	WB1312P01A6a06	BCk2	102	127	1.63	9.05	8.02	0.217	0.070	0.004	0.018
405	34	WB1345P01A6a05	C	56	81	1.52	8.11	4.00	0.205	0.052	0.004	0.014
405	35	WB1334P01A6a01	BA1	0	5	1.11	9.13	1.34 #	0.363	0.058	0.011	0.030
405	36	WB1345P01A5a02	2Btkb3	99	119	1.63	8.27	5.59	0.219	0.068	0.005	0.022
405	37	DBD40301	na	na	na	0.81	8.57	7.91	0.211	0.045	0.024	0.016

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406	1	WB1334P01A1f	6C	536	628	0.91	8.72	5.47	0.136	0.036	0.003	0.009
406	2	ST02P05A6a01	A/AC	0	20	0.70	8.95	2.99	0.236	0.039	0.008	0.017
406	3	WB1312P01A1b	6C'	668	700	0.91	9.10	3.58	0.140	0.050	0.005	0.011
406	4	RM16C4	na	na	na	1.21	9.14	3.45	0.242	0.051	0.005	0.013
406	5	WB1312P01A4i	3C'	277	357	0.60	9.37	8.15	0.138	0.033	0.004	0.011
406	6	WB1334P01A1d	6C'	628	661	0.70	9.00	6.94	0.121	0.045	0.002	0.009
406	7	WB1345P01A4e	3C	305	454	0.70	9.69	5.43	0.148	0.031	0.003	0.009
406	8	WB1312P01A1e	6C	567	668	0.70	9.65	7.85	0.149	0.033	0.004	0.003
406	9	ST02P05A6a02	Bkb	20	62	0.91	9.06	4.19	0.220	0.045	0.006	0.011
406	10	WB1345P01A4e03	C	nd	nd	0.81	9.34	5.62	0.168	0.043	0.004	0.005
406	11	DBD40401	na	na	na	1.32	9.04	3.23	0.282	0.057	0.004	0.019
406	12	WB1312P01A5b	2Bk/2C	162	241	1.32	8.41	4.72	0.164	0.053	0.002	0.013
406	13	WB1334P01A2d	5C	512	536	0.70	8.94	6.72	0.131	0.039	0.003	0.007
406	14	WB1312P01A1f	6C''	700	762	0.81	9.32	5.60	0.136	0.040	0.004	0.013
406	15	WB1345P01A4e02	C	nd	nd	0.50	9.57	6.79	0.158	0.027	0.002	0.015
406	16	WB1345P01A1e	5C	567	613	0.70	9.62	6.10	0.155	0.043	0.003	0.013
406	17	ST02P05A5a03	2Bqkb	62	103	1.01	9.03	3.74	0.191	0.047	0.004	0.011
406	18	WB1334P01A3a	4C	433	512	1.11	8.92	6.61	0.134	0.044	0.003	0.017
406	19	WB1312P01A5a	2Bkb	94	162	1.52	9.00	6.64	0.157	0.060	0.003	0.009
406	20	WB1312P01A2e	5C	515	552	0.70	9.50	6.41	0.112	0.037	0.003	0.015
406	21	WB1345P01A3b	4C	454	567	0.81	9.56	6.00	0.164	0.043	0.004	0.011

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
406	22	RM16C5	na	na	na	1.21	9.11	3.44	0.279	0.051	0.005	0.015
406	23	WB1334P01A4g	3BCkb/3Ckb	256	296	0.81	8.90	6.87	0.168	0.044	0.002	0.013
406	24	ST02P05A5a04	2Bkb	103	119	1.11	9.05	12.01	0.168	0.060	0.003	0.023
406	25	WB1312P01A3b	4C	433	515	1.01	9.54	5.27	0.140	0.039	0.004	0.019
406	26	WB1345P01A4g02	C	nd	nd	0.70	9.63	5.83	0.175	0.029	0.005	0.021
406	27	WB1334P01A4e	3C	296	433	0.91	9.63	5.08	0.182	0.039	0.005	0.017
406	28	ST02P05A5a05	2BCkb1	119	165	1.32	9.21	5.18	0.166	0.065	0.003	0.017
406	29	WB1312P01A4e02	3C'''	381	433	0.70	9.71	5.73	0.195	0.039	0.005	0.025
406	30	WB1345P01A5e	2BCkb/2C	131	177	1.11	8.38	6.34	0.153	0.052	0.003	0.007
406	31	WB1345P01A5g	C	238	268	1.01	8.65	4.46	0.189	0.046	0.003	0.015
406	32	WB1312P01A4g	3C''	357	381	0.70	9.62	6.00	0.181	0.039	0.008	0.021
406	33	WB1334P01A5e	2BCkb/2C	146	256	1.21	8.78	7.53	0.149	0.052	0.002	0.015
406	34	ST02P05A5a06	2BCkb2	165	239	1.11	8.66	7.34	0.171	0.048	0.002	0.021
406	35	RM16C6	na	na	na	1.21	9.10	3.27	0.272	0.045	0.006	0.019
406	36	WB1345P01A4b	3Ckb	268	305	1.21	8.75	5.24	0.230	0.052	0.005	0.021
406	37	WB1312P01A4h	3C	241	277	1.32	8.40	9.25	0.178	0.054	0.004	0.019
406	38	WB1345P01A5f	C	177	238	1.52	8.19	5.78	0.174	0.055	0.004	0.021
406	39	WB1334P01A6a	BA/Bk/BCk	3	128	1.42	9.06	6.86	0.193	0.051	0.004	0.009
406	40	ST02P05A5a07	2B'kb	239	290	0.70	8.95	1.23 #	0.186	0.044	0.005	0.011
406	41	WB1312P01A6a	BA/Bk/BCk	6	94	1.11	9.13	3.54	0.242	0.054	0.005	0.021

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
407	1	SC01P01A5a01	A/2BA	0	11	1.83	8.87	9.01	0.320	0.102	nd	nd
407	2	SC03P01A6a05	Bk3	49	75	2.04	9.90	2.87	0.157	0.068	nd	nd
407	3	RC01P01A5a08	3Bkb3	191	206	1.83	8.65	5.57	0.187	0.093	nd	nd
407	4	SC02P01A5a04	2Bk2	37	54	1.73	9.52	9.90	0.084	0.124	nd	nd
407	5	WB1334P01A1a01	C	nd	nd	0.91	8.71	6.56	0.156	0.078	nd	nd
407	6	WB1310P01A1a04	2C	58	88	0.70	9.53	4.75	0.149	0.059	nd	nd
407	7	RM36E4	na	na	na	1.01	9.11	3.38	0.279	0.080	nd	nd
407	8	SC01P01A5a02	2Bk	11	28	1.32	8.95	9.59	0.145	0.094	nd	nd
407	9	RC01P01A5a07	3Bkb2	173	191	1.83	8.95	15.29	0.222	0.107	nd	nd
407	10	SC03P01A6a04	Bk2	29	49	1.73	9.88	2.40	0.198	0.069	nd	nd
407	11	WB1310P01A2e	C	0	24	0.50	8.72	4.49	0.128	0.058	nd	nd
407	12	RM36E5	na	na	na	1.01	9.05	3.18	0.307	0.086	nd	nd
407	13	SC02P01A5a05	2Bk3	54	94	1.01	8.42	6.70	0.149	0.093	nd	nd
407	14	SC01P01A5a03	2Bkm	28	40	1.52	8.82	14.14	0.099	0.118	nd	nd
407	15	RC01P01A5a06	3Bkb1	140	173	1.94	8.53	8.11	0.274	0.113	nd	nd
407	16	SC01P02A5a01	A/BA	0	11	1.42	8.79	5.37	0.487	0.091	nd	nd
407	17	SC03P01A6a03	Bk1	18	29	1.52	9.89	2.32	0.198	0.058	nd	nd
407	18	DBD40501	na	na	na	1.01	9.21	3.48	0.320	0.083	nd	nd
407	19	WB1310P01A1a01	2Bkb	24	33	0.91	9.35	8.03	0.170	0.088	nd	nd
407	20	SC01P01A5a04	2B'k1	40	54	1.01	9.40	5.44	0.169	0.093	nd	nd
407	21	WB1334P01A1a02	C	nd	nd	0.70	9.21	5.64	0.161	0.066	nd	nd

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
407	22	RC01P01A5a05	3Btkb	107	140	2.15	7.77	0.29 #	0.372	0.086	nd	nd
407	23	SC02P01A5a06	2BCk	94	130	0.70	8.95	4.06	0.169	0.053	nd	nd
407	24	RC01P01A6a04	2BCk	71	107	1.21	8.66	1.77 #	0.292	0.081	nd	nd
407	25	RC01P01A6a03	2Bk2	31	71	1.42	9.43	4.31	0.287	0.096	nd	nd
407	26	SC01P01A5a05	2B'k2	54	73	2.35	9.59	12.39	0.095	0.083	nd	nd
407	27	WB1310P01A1a02	2BCkb1	33	45	1.01	8.65	7.59	0.141	0.067	nd	nd
407	28	SC03P01A6a02	Bw	9	18	1.73	9.63	3.38	0.176	0.041	nd	nd
407	29	SC01P02A5a02	Btk	11	23	1.63	8.89	3.94	0.263	0.069	nd	nd
407	30	SC02P01A5a01	A	0	4	1.83	8.88	5.69	0.388	0.074	nd	nd
407	31	SC03P01A5a06	2Bkb	75	90	1.83	10.07	2.20	0.147	0.044	nd	nd
407	32	SC01P01A5a06	2BCk	73	85	1.52	9.41	7.59	0.088	0.072	nd	nd
407	33	RM36E6	na	na	na	1.11	9.11	3.05	0.244	0.065	nd	nd
407	34	WB1334P01A1a03	C	nd	nd	0.70	9.55	4.73	0.133	0.047	nd	nd
407	35	RC01P01A6a02	2Bk1	8	31	1.32	9.40	7.61	0.270	0.065	nd	nd
407	36	SC03P01A6a01	A	0	9	1.52	9.24	3.44	0.201	0.048	nd	nd
407	37	SC02P01A5a02	Btk	4	14	1.83	8.84	3.88	0.346	0.083	nd	nd
407	38	SC01P01A5a07	2C	85	120	1.52	8.28	1.86 #	0.176	0.046	nd	nd
407	39	WB1310P01A1a03	2BCkb2	45	58	0.60	8.99	3.85	0.132	0.058	nd	nd
407	40	RC01P01A6a01	A	0	8	1.32	9.14	5.66	0.315	0.057	nd	nd
407	41	SC01P02A5a03	2Bk	23	32	1.42	8.71	9.91	0.118	0.071	nd	nd
407	42	SC02P01A5a03	2Bk1	14	37	2.15	8.96	14.37	0.103	0.080	nd	nd

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
408	1	SC04P01A6a01	A	0	7	3.95	9.18	2.66	0.343	0.111	nd	nd
408	2	RM36E7	na	na	na	1.32	9.02	3.24	0.279	0.079	nd	nd
408	3	SC04P01A6a09	Bk8	169	194	2.99	9.02	2.27	0.184	0.053	nd	nd
408	4	CU07	na	na	na	1.11	9.04	3.26	0.288	0.084	nd	nd
408	5	SC05P01A5a04	Bk2	49	72	2.46	8.93	17.24	0.149	0.098	nd	nd
408	6	SC04P01A6a02	Bk1	7	25	4.06	9.64	3.18	0.231	0.102	nd	nd
408	7	ST02P04A5a07	2B'kb2	226	233	1.42	8.68	11.84	0.244	0.099	nd	nd
408	8	SC04P01A6a10	Bk9	194	210	2.99	9.16	2.20	0.197	0.059	nd	nd
408	9	SC05P01A5a06	BCk	98	129	1.52	8.86	16.15	0.105	0.117	nd	nd
408	10	SC04P01A6a03	Bk2	25	49	4.60	8.43	4.91	0.168	0.096	nd	nd
408	11	SC05P01A5a05	Bk3	72	98	1.94	9.46	18.06	0.182	0.083	nd	nd
408	12	CU16	na	na	na	1.01	8.95	3.39	0.318	0.083	nd	nd
408	13	SC04P01A6a04	Bk3	49	84	1.42	8.30	6.58	0.151	0.089	nd	nd
408	14	CU20	na	na	na	1.11	8.98	3.78	0.321	0.084	nd	nd
408	15	RM36E8	na	na	na	1.21	9.03	3.69	0.309	0.081	nd	nd
408	16	SC05P01A5a01	A/Btkm1	0	9	6.04	9.02	8.45	0.395	0.126	nd	nd
408	17	SC04P01A6a05	Bk4	84	111	2.56	8.57	4.67	0.158	0.066	nd	nd
408	18	SC05P01A5a07	Ck	129	160	1.32	8.93	24.22	0.140	0.088	nd	nd
408	19	CU04	na	na	na	0.91	8.96	3.50	0.295	0.084	nd	nd
408	20	SC05P01A5a02	Btkm2	9	20	2.88	8.98	14.28	0.243	0.093	nd	nd
408	21	SC04P01A6a06	Bk5	111	123	1.83	8.69	2.83	0.190	0.064	nd	nd

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
408	22	SC04P01A6a07	Bk6	123	153	2.67	8.90	2.14	0.179	0.064	nd	nd
408	23	DBD40701	na	na	na	1.52	8.89	9.59	0.327	0.093	nd	nd
408	24	RM36E9	na	na	na	1.01	9.07	3.15	0.293	0.078	nd	nd
408	25	SC04P01A6a08	Bk7	153	169	1.73	9.34	1.98	0.181	0.056	nd	nd
408	26	CU15	na	na	na	1.01	8.95	3.06	0.285	0.082	nd	nd
408	27	SC05P01A5a03	Bk1	20	49	1.42	9.02	14.31	0.148	0.084	nd	nd

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
409	1	SC07P01A5a05	Bk3	52	61	1.63	8.22	4.86	0.209	0.069	nd	nd
409	2	SC09P01A6a02	Bk1	6	29	1.83	9.15	3.06 #	0.254	0.079	nd	nd
409	3	SC07P01A5a06	Btkb1	61	98	2.04	8.05	5.06	0.232	0.070	nd	nd
409	4	SC07P01A5a03	Bk1	12	39	1.63	8.79	1.76 #	0.269	0.077	nd	nd
409	5	SC07P01A5a04	Bk2	39	52	1.52	8.64	8.55	0.166	0.062	nd	nd
409	6	RM16C8	na	na	na	1.21	9.00	3.49 #	0.220	0.060	nd	nd
409	7	SC09P01A6a04	Btk1	47	68	2.88	9.64	0.95 #	0.349	0.084	nd	nd
409	8	SC07P01A5a07	Btkb2	98	119	1.83	7.90	4.17	0.268	0.072	nd	nd
409	9	SC07P01A5a01	A1	0	2	1.21	9.14	1.51 #	0.347	0.088	nd	nd
409	10	SC09P01A6a05	Btk2	68	86	2.25	9.70	0.76 #	0.351	0.084	nd	nd
409	11	DBD40601	na	na	na	0.81	8.42	5.44	0.115	0.045	nd	nd
409	12	SC07P01A5a02	A2	2	12	1.52	9.20	1.29 #	0.339	0.085	nd	nd
409	13	SC07P01A5a08	Bkb	119	160	1.63	8.04	7.42	0.216	0.063	nd	nd
409	14	SC09P01A6a01	A	0	6	1.52	9.12	1.92 #	0.413	0.084	nd	nd
409	15	RM16C7	na	na	na	1.11	8.98	3.23 #	0.252	0.066	nd	nd
409	16	SC09P01A6a03	Bk2	29	47	1.42	9.41	3.41 #	0.224	0.084	nd	nd
409	17	SC09P01A6a06	BC	86	110	1.94	8.68	0.85 #	0.282	0.068	nd	nd

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	Moist (wt%)	pH	CaCO3_Eq (wt%)	CBD_Fe (wt%)	CBD_Si (wt%)	AOX_Fe (wt%)	AOX_Si (wt%)
410	1	RM55G1	na	na	na	nd	nd	nd	nd	nd	nd	nd
410	2	WB1272P01A4a01	3BCkb	257	277	nd	nd	nd	nd	nd	nd	nd
410	3	WB1374P01A4e	3C'	402	497	nd	nd	nd	nd	nd	nd	nd
410	4	WB1272P01A5a02	2BCkb	152	216	nd	nd	nd	nd	nd	nd	nd
410	5	WB1374P01A6a01	Bk/BA	107	119	nd	nd	nd	nd	nd	nd	nd
410	6	WB1272P01A6a	Bk/BCk	79	134	nd	nd	nd	nd	nd	nd	nd
410	7	WB1272P01A6a02	BCk	94	130	nd	nd	nd	nd	nd	nd	nd
410	8	WB1374P01A1b	5C	521	558	nd	nd	nd	nd	nd	nd	nd
410	9	WB1272P01A5a03	2C	216	257	nd	nd	nd	nd	nd	nd	nd
410	10	WB1374P01A4f	3BCkb/3Ckb/3C	271	402	nd	nd	nd	nd	nd	nd	nd
410	11	WB1374P01A6a02	BCk	119	170	nd	nd	nd	nd	nd	nd	nd
410	12	RM25D5	na	na	na	nd	nd	nd	nd	nd	nd	nd
410	13	WB1272P01A4a02	3C	277	292	nd	nd	nd	nd	nd	nd	nd
410	14	WB1272P01A6a01	Bk	64	94	nd	nd	nd	nd	nd	nd	nd
410	15	WB1374P01A1e	5C'	558	598	nd	nd	nd	nd	nd	nd	nd
410	16	WB1272P01A1b	6C	543	560	nd	nd	nd	nd	nd	nd	nd
410	17	WB1374P01A5a01	2Bkb	170	185	nd	nd	nd	nd	nd	nd	nd
410	18	WB1272P01A5b	2BCkb/2C	165	253	nd	nd	nd	nd	nd	nd	nd
410	19	WB1272P01A4f	3BCkb/3C	253	308	nd	nd	nd	nd	nd	nd	nd
410	20	WB1272P01A2d	5C'	475	543	nd	nd	nd	nd	nd	nd	nd
410	21	WB1374P01A3b	4C	497	521	nd	nd	nd	nd	nd	nd	nd

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410	22	WB1272P01A5g	2Bkb	134	165	nd	nd	nd	nd	nd	nd	nd
410	23	WB1272P01A4h	3C'	308	378	nd	nd	nd	nd	nd	nd	nd
410	24	WB1374P01A5a02	2BCkb	185	226	nd	nd	nd	nd	nd	nd	nd
410	25	WB1272P01A2e	5C	442	475	nd	nd	nd	nd	nd	nd	nd
410	26	RM25D6	na	na	na	nd	nd	nd	nd	nd	nd	nd
410	27	WB1374P01A4a01	3BCkb	272	290	nd	nd	nd	nd	nd	nd	nd
410	28	WB1374P01A5a03	2C	226	272	nd	nd	nd	nd	nd	nd	nd
410	29	WB1272P01A5a01	2Bkb	130	152	nd	nd	nd	nd	nd	nd	nd
410	30	WB1272P01A3b	4C	378	442	nd	nd	nd	nd	nd	nd	nd
410	31	DBD40901	na	na	na	nd	nd	nd	nd	nd	nd	nd
410	32	WB1374P01A5b	2BCkb/2C	198	271	nd	nd	nd	nd	nd	nd	nd
410	33	WB1374P01A4a02	3Ckb	290	325	nd	nd	nd	nd	nd	nd	nd

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APPENDIX D

American Society for Materials and Testing - Unified Soil Classification System
Particle Size Fractions

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
401	1	ST01P02A6a05	Btqkb1	58	81	SM	16.2	56.5	27.3		100	99	99	98	97	87	77	61	44	22
401	2	ST01P02A6a04	C3	36	58	SW-SM	22.4	64.9	12.6		100	99	99	98	98	81	64	43	23	8
401	3	RM16C1	na	na	na	SM	8.3	64.8	26.9		100	100	100	100	100	95	90	84	69	25
401	4	ST01P01A6a03	BCk	46	71	SM	25.6	58.7	15.8		100	99	98	97	96	77	58	39	27	9
401	5	ST01P02A5a09	2Btkb	165	185	SM	25.5	56.1	18.4		100	97	94	91	89	74	59	43	28	11
401	6	ST01P01A5a06	2Btkmb1	135	152	SW-SM	29.0	58.8	12.2		100	98	96	93	92	71	50	30	14	6
401	7	ST01P02A6a06	Btqkb2	81	130	SW-SM	26.6	59.4	13.9		100	96	94	90	87	71	56	38	19	7
401	8	ST01P01A6a01	A	0	10	SM	16.8	54.8	28.3		100	99	98	97	97	88	78	70	61	26
401	9	ST01P02A6a07	BCkb	130	150	SW-SM	27.7	60.3	12.1		100	97	95	93	91	72	54	36	19	6
401	10	ST01P02A6a01	AC	0	10	SW-SM	28.2	58.8	13.0		100	97	96	93	91	72	53	36	22	7
401	11	ST01P01A6a05	Btqkb2	97	135	SM	28.7	55.6	15.7		100	98	97	96	95	72	48	30	18	6
401	12	RM36E1	na	na	na	SM	18.8	59.1	22.3		100	99	99	98	97	85	74	64	52	19
401	13	ST01P01A5a08	2Btkb	180	216	SM	27.2	53.0	19.7		100	97	95	92	90	74	57	45	32	13
401	14	ST01P02A5a08	2Btkmb	150	165	SM	22.9	52.6	24.5		100	98	97	95	94	78	63	46	36	15
401	15	ST01P01A6a02	Bw	10	46	SM	22.3	53.9	23.8		100	99	98	96	96	82	67	54	41	18
401	16	ST01P02A6a03	C2	25	36	SW-SM	22.2	64.8	13.0		100	99	98	97	97	79	61	28	15	6
401	17	ST01P01A6a04	Btqkb1	71	97	SM	17.3	54.4	28.4		100	100	99	99	99	87	75	60	45	23
401	18	ST01P02A6a02	C1	10	25	SW-SM	27.9	57.5	14.6		100	98	96	94	93	73	54	36	24	8
401	19	ST01P01A5a07	2Btkmb2	152	180	SM	24.3	50.6	25.2		100	97	95	92	90	76	62	47	39	17
401	20	RM16C2	na	na	na	SM	8.9	63.0	28.1		100	100	100	99	99	94	89	84	69	27
401	21	RM36E2	na	na	na	SM	17.3	59.0	23.7		100	99	99	98	98	87	76	64	53	20

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
401	22	ST04P11A6a01	A	0	6	SM	10.5	60.3	29.2		100	100	100	100	100	93	87	76	61	28
401	23	ST02P03A5a09	2B'kb1	234	242	SM	30.5	44.4	25.0		100	94	90	85	81	62	43	28	20	10
401	24	ST01P03A6a01	A	0	8	SM	9.0	63.8	27.3		100	100	100	99	99	94	89	83	76	27
401	25	ST02P03A6a03	Bk1	20	28	SM	23.0	51.9	25.0		100	96	94	90	88	76	64	50	36	18
401	26	ST02P03A6a05	Bk3	43	75	SM	24.9	56.3	18.9		100	98	96	94	93	76	59	40	24	11
401	27	ST01P03A6a03	Bk	30	79	SM	17.2	59.3	23.4		100	98	97	95	94	85	77	68	58	20
401	28	ST02P03A5a07	2Bkb	106	138	SM	31.1	50.6	18.3		100	96	92	88	85	66	47	34	24	10
401	29	ST01P03A6a05	Btqkb2	112	182	SM	25.5	54.8	19.6		100	95	91	85	81	70	58	43	33	12
401	30	ST04P11A6a02	Bw	6	20	SM	14.5	62.8	22.6		100	100	99	99	98	89	80	68	51	20
401	31	RM16C3	na	na	na	SM	9.0	64.2	26.8		100	100	100	100	100	95	89	84	69	25
401	32	ST02P03A5a06	2Bqkb	75	106	SM	31.8	44.5	23.7		100	97	94	91	88	64	40	28	19	8
401	33	ST02P03A6a02	BA	8	20	SM	18.8	49.1	32.0		100	99	99	98	97	85	73	61	51	27
401	34	ST01P03A6a02	Bw	8	30	SM	7.8	65.2	27.1		100	100	99	99	99	95	91	84	76	26
401	35	ST02P03A5a08	2BCkb	138	234	SW-SM	22.0	67.8	10.2		100	99	99	98	97	80	64	39	17	6
401	36	ST04P11A6a03	Bk/BCk	20	52	SW-SM	18.7	69.0	12.3		100	99	98	96	95	83	70	45	23	7
401	37	ST02P03A5a10	2B'kb2	242	260	SM	19.6	59.0	21.4		100	99	97	96	95	82	69	49	33	14
401	38	ST02P03A6a04	Bk2	28	43	SM	31.3	43.7	25.0		100	92	87	79	74	61	48	40	32	15
401	39	RM36E3	na	na	na	SM	16.3	60.8	22.9		100	99	99	98	98	88	77	65	55	19
401	40	ST01P03A6a04	Btqkb1	79	112	SM	14.1	67.6	18.3		100	100	100	100	99	90	80	64	39	15
401	41	ST04P11A5a04	2Bkb	52	120	SM	18.3	65.1	16.6		100	98	96	94	93	83	73	62	41	11
401	42	ST02P03A6a01	A1/A2	0	8	SM	21.2	45.1	33.7		100	99	98	97	96	83	70	59	51	29

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
402	1	RM06.5A1	na	na	na	SM	4.2	67.6	28.2		100	100	100	99	99	97	95	93	77	27
402	2	ST04P08A5a04	2Bkb1	30	52	SM	20.5	52.9	26.7		100	95	92	87	83	75	68	59	44	16
402	3	ST04P02A5a05	2Bkb3	57	106	SM	23.7	59.5	16.7		100	94	90	85	81	73	64	55	40	11
402	4	ST04P01A6a01	A/BA	0	8	SM	10.2	48.7	41.1		100	99	98	97	97	92	88	82	69	38
402	5	ST04P09A5a06	2Ckb2	215	300	SW-SM	31.7	58.8	9.5		100	92	86	78	73	60	46	36	21	3
402	6	ST03P03A5a05	3Btkb1	91	122	SM	25.1	39.0	35.8		100	97	95	93	91	76	61	47	41	26
402	7	ST03P03A5a11	3Ckb	259	291	SW-SM	23.7	62.4	13.9		100	100	100	100	100	80	60	35	24	8
402	8	ST04P08A5a05	2Bkb2	52	84	SW-SM	21.2	64.1	14.7		100	96	93	88	85	77	69	61	42	10
402	9	ST03P03A5a06	3Btkb2	122	147	SM	32.4	38.9	28.8		100	90	84	74	67	56	45	34	28	16
402	10	ST04P01A6a02	Btk1	8	19	SM	12.4	51.9	35.6		100	98	97	95	94	89	84	72	59	31
402	11	ST04P09A5a05	2Ckb1	163	215	SM	26.8	55.6	17.6		100	93	87	80	74	65	56	46	30	9
402	12	ST04P02A5a06	2Bkb4	106	130	SW-SM	28.4	62.1	9.5		100	95	91	86	82	67	52	38	18	3
402	13	ST04P08A5a06	2BCkb	84	116	SW-SM	26.4	63.4	10.2		100	95	92	87	83	70	58	48	30	5
402	14	ST03P03A6a01	A/BA	0	16	SM	18.5	47.5	33.9		100	100	99	99	99	86	73	60	50	29
402	15	ST04P01A6a03	Btk2	19	25	SM	11.9	53.6	34.4		100	99	99	98	98	91	85	73	58	31
402	16	ST03P03A5a07	3Bkb	147	180	SM	21.5	53.1	25.3		100	99	98	97	96	80	64	44	27	15
402	17	RM06.5A2	na	na	na	SM	5.0	66.4	28.6		100	100	100	100	99	97	95	94	77	28
402	18	ST03P03A5a12	3Bwb	291	310	SM	33.3	41.5	25.3		100	99	98	96	95	69	43	31	23	14
402	19	ST04P09A5a04	2BCkb	118	163	SW-SM	25.4	62.3	12.3		100	100	99	99	99	80	59	43	26	7
402	20	ST03P03A5a08	3B'tkb	180	202	SM	34.3	41.6	24.1		100	88	80	68	60	48	36	25	18	9
402	21	ST04P01A6a04	2Bk1	25	36	SM	14.8	60.4	24.7		100	99	98	97	97	89	80	68	51	21

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
402	22	ST04P02A5a04	2Bkb2	35	57	SM	15.6	64.1	20.3		100	99	98	96	96	87	78	68	49	14
402	23	ST04P08A6a01	A	0	5	SM	17.4	59.0	23.4		100	99	97	96	95	86	76	66	50	21
402	24	ST03P03A6a02	2Btk	16	37	SM	31.5	41.4	27.0		100	100	100	99	99	73	46	36	30	15
402	25	ST04P01A5a05	2Bk2	36	59	SM	17.1	61.3	21.5		100	98	97	95	94	85	76	65	48	16
402	26	ST04P09A5a03	2Bkb	73	118	SM	18.4	63.6	17.9		100	99	99	98	98	86	74	63	44	14
402	27	ST04P02A5a03	2Bkb1	20	35	SM	18.7	56.5	24.8		100	96	93	89	86	79	73	64	48	18
402	28	ST04P08A6a02	Bw	5	13	SM	14.5	69.2	16.4		100	100	100	99	99	89	80	61	40	13
402	29	ST03P03A6a03	2Bk	37	76	SM	21.9	50.8	27.2		100	99	98	97	97	82	66	50	37	20
402	30	ST04P01A5a06	2Bk3	59	99	SM	19.7	61.2	19.1		100	98	96	93	91	81	70	59	42	12
402	31	ST03P03A5a09	3B'kb	202	224	SM	32.0	49.3	18.8		100	94	90	84	79	62	45	33	24	9
402	32	ST04P09A6a02	Bk/BC	22	73	SM	16.7	60.5	22.8		100	99	98	97	96	87	77	65	49	19
402	33	ST04P02A6a02	Bk1/Bk2	6	20	SM	22.0	55.9	22.1		100	96	94	90	88	78	68	61	47	18
402	34	RM06.5A3	na	na	na	SM	4.7	67.4	28.0		100	100	100	99	99	97	95	93	77	27
402	35	ST04P01A5a07	2Bk4	99	139	SW-SM	21.4	64.3	14.2		100	97	94	91	88	78	68	57	36	10
402	36	ST03P03A6a04	2BCk	76	91	SM	26.3	49.1	24.7		100	97	95	92	90	74	57	42	31	16
402	37	ST04P08A6a03	Bk	13	30	SM	24.7	57.5	17.9		100	99	98	97	96	79	61	46	28	11
402	38	ST04P09A6a01	A/BA	0	22	SM	13.1	59.9	27.0		100	99	99	98	97	90	83	74	60	25
402	39	ST03P03A5a10	3BCkb	224	259	SM	30.9	46.0	23.1		100	97	95	92	90	68	46	34	26	11
402	40	ST04P01A5a08	2BCk	139	192	SW-SM	22.2	68.1	9.8		100	96	94	90	88	77	66	51	29	5
402	41	ST04P02A6a01	A	0	6	SM	11.5	59.3	29.0		100	99	98	97	96	91	85	77	60	27

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
403	1	ST04P03A5a09	2Ckb	141	150	SW-SM	20.5	67.8	11.6		100	98	97	95	94	80	67	47	22	5
403	2	DBD40101	na	na	na	SM	14.6	54.1	31.3		100	98	97	95	94	88	81	75	57	29
403	3	ST04P03A5a08	2BCkb	80	141	SW-SM	23.8	63.2	13.1		100	96	93	88	85	73	61	46	25	6
403	4	ST02P04A5a06	2BCkb	123	226	SM	27.0	52.9	20.1		100	97	96	93	91	73	54	37	24	11
403	5	RM50F1	na	na	na	SM	23.4	55.2	21.4		100	99	99	98	97	81	64	51	43	16
403	6	ST02P04A6a01	A	0	13	SM	30.1	47.1	22.8		100	99	99	98	97	73	49	34	26	13
403	7	ST03P06A5a06	2Btkb1	77	86	SM	29.5	45.3	25.3		100	95	92	87	84	66	48	31	22	12
403	8	ST04P03A6a02	A/BA	0	9	SM	11.2	46.3	42.5		100	99	98	96	95	90	86	83	70	38
403	9	ST02P04A5a07	2B'kb1	226	233	SM	26.8	52.1	21.0		100	97	94	91	89	72	54	36	25	11
403	10	ST03P07A6a05	2BCk	67	96	SW-SM	27.9	60.1	12.0		100	98	97	95	94	73	52	32	17	6
403	11	ST02P04A6a02	Bw	13	23	SM	30.1	50.8	19.1		100	99	98	97	96	72	49	33	21	10
403	12	ST03P06A5a11	2BCkb2	218	253	SM	28.6	49.5	21.9		100	96	94	90	87	70	52	39	28	13
403	13	ST03P06A6a02	Bw	8	23	SM	24.0	58.8	17.1		100	99	99	98	97	80	62	45	29	12
403	14	ST04P03A6a03	Btk1	9	18	SM	14.1	49.1	36.8		100	97	96	93	91	86	81	74	59	32
403	15	ST03P06A5a09	2Bkb2	139	162	SM	20.8	42.1	37.2		100	98	96	94	93	81	68	55	46	27
403	16	ST02P04A5a08	2B'kb2	233	300	SM	27.6	55.9	16.5		100	99	98	97	96	75	52	35	21	8
403	17	ST02P04A6a03	Bkb	23	55	SM	24.2	52.3	23.6		100	98	97	95	94	78	62	46	33	16
403	18	ST03P06A6a05	BCkb	54	77	SM	31.6	53.3	15.2		100	95	92	87	84	65	46	31	18	7
403	19	ST03P06A5a10	2BCkb1	162	218	SM	18.3	62.1	19.5		100	99	99	98	98	85	73	55	38	14
403	20	ST04P03A6a04	Btk2	18	27	SM	26.4	52.5	21.1		100	94	90	84	80	69	57	46	32	12
403	21	ST03P07A6a04	2Bk	40	67	SM	22.9	53.2	23.9		100	99	99	98	98	81	64	45	31	17

na = not applicable
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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
403	22	ST03P06A5a08	2Bkb1	98	139	SM	27.7	56.0	16.3		100	99	98	97	97	76	54	37	24	9
403	23	ST03P06A6a01	A	0	8	SM	27.7	50.8	21.4		100	98	97	96	94	75	56	44	34	15
403	24	ST02P04A5a04	2Bqkb	55	79	SM	27.4	45.4	27.3		100	97	94	91	88	70	51	36	27	13
403	25	ST03P07A5a06	3Btkb	96	110	SM	25.6	45.6	28.9		100	99	98	97	97	78	59	42	33	19
403	26	ST03P07A6a03	2Btk	17	40	SM	21.6	48.2	30.1		100	99	99	98	98	83	67	50	40	23
403	27	ST02P04A5a05	2Bkb	79	123	SM	35.3	43.7	21.0		100	89	80	69	61	49	36	28	22	8
403	28	ST04P03A6a05	2Bk	27	35	SM	15.1	64.8	20.0		100	99	98	97	96	87	79	67	48	15
403	29	RM50F2	na	na	na	SM	21.1	58.0	20.9		100	99	99	98	98	83	68	50	42	15
403	30	ST03P07A6a02	BA	6	17	SM	23.7	45.3	31.1		100	99	99	99	98	81	64	49	39	23
403	31	ST03P06A6a04	Bkb	41	54	SW-SM	21.9	63.7	14.5		100	99	99	98	98	82	66	47	24	9
403	32	ST03P06A5a12	2Ckb	253	270	SM	26.2	51.6	22.2		100	99	98	97	96	76	57	39	29	14
403	33	ST04P03A6a06	2BCk	35	67	SW-SM	26.7	64.7	8.6		100	97	94	91	88	73	57	44	26	4
403	34	ST03P06A5a07	2Btkb2	86	98	SM	35.1	35.1	29.8		100	90	83	73	65	50	35	28	23	12
403	35	ST03P06A6a03	Btkb	23	41	SM	28.1	47.3	24.5		100	96	94	90	88	71	53	38	26	14
403	36	ST03P07A6a01	A	0	6	SM	18.9	32.5	48.6		100	99	98	97	97	86	74	64	59	42
403	37	RM50F3	na	na	na	SM	22.2	56.6	21.1		100	99	98	97	96	81	66	51	43	16
403	38	ST04P03A5a07	2Bkb	67	80	SM	32.0	48.5	19.4		100	90	83	73	66	54	42	32	23	7

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
404	1	RM25D1	na	na	na	SM	14.5	59.6	25.8		100	99	99	98	97	89	81	75	64	24
404	2	WB1345P01A4a04	3Ckb	267	280	SM	20.5	63.9	15.6		100	97	94	91	89	80	71	64	47	11
404	3	WB1630P01A0a01	C	0	18	SW-SM	26.5	59.0	14.6		100	98	97	96	95	76	56	35	24	8
404	4	ST03P01A5a10	3Bkb	273	300	SM	30.7	43.3	26.0		100	93	88	81	77	64	50	41	34	17
404	5	ST02P01A6a04	Bk2	23	49	SM	28.4	53.8	17.8		100	98	96	94	93	74	54	41	27	12
404	6	WB1320P01A3a02	Bkb2	10	23	SM	10.9	68.5	20.6		100	99	99	98	98	92	86	78	59	17
404	7	ST02P02A5a06	2Bqkb	45	87	SM	30.0	48.3	21.6		100	95	91	86	83	65	47	33	25	10
404	8	WB1630P01A0a02	2Ab	18	21	SM	18.4	55.7	25.9		100	100	100	100	100	86	71	54	39	17
404	9	ST03P01A5a09	3B'tkb2	248	273	SM	29.0	40.2	30.8		100	92	86	77	71	62	52	43	38	19
404	10	WB1345P01A4a01	3BC'kb	188	218	SM	10.4	70.2	19.3		100	99	99	98	98	93	87	80	64	15
404	11	ST02P01A6a05	BCk	49	61	SM	25.4	58.2	16.4		100	99	98	97	97	78	59	41	26	10
404	12	RM25D2	na	na	na	SM	13.3	61.9	24.8		100	99	99	99	98	90	83	75	64	23
404	13	ST03P01A5a08	3B'tkb1	217	248	SM	26.5	50.5	23.0		100	96	93	89	86	72	58	45	33	15
404	14	ST02P02A5a07	2Bkb	87	100	SM	30.2	50.1	19.7		100	93	88	80	75	62	48	35	25	10
404	15	WB1630P01A0a03	2Bqkb	21	38	SM	19.3	61.4	19.3		100	99	98	96	95	83	72	57	41	15
404	16	ST03P01A5a07	3BCkb/3Ckb	135	217	SM	26.4	54.9	18.7		100	99	99	98	97	77	57	38	24	11
404	17	ST02P01A5a06	2Btkb	61	95	SM	20.4	46.5	33.1		100	98	97	95	93	81	70	57	46	26
404	18	ST02P02A6a02	A1/A2	0	9	SM	22.8	58.5	18.8		100	99	98	97	96	80	64	43	29	12
404	19	ST03P01A5a06	3Btkb2	122	135	SM	28.9	50.8	20.2		100	97	95	92	90	69	48	30	19	9
404	20	WB1320P01A3a03	BCkb1	23	43	SM	8.3	74.7	16.9		100	100	100	100	100	95	90	81	60	14
404	21	WB1630P01A0a04	2Btqkb	38	51	SM	22.2	54.6	23.3		100	93	88	81	77	71	65	51	41	14

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
404	22	ST02P01A6a01	A	0	3	SM	6.7	50.4	42.9		100	100	100	100	100	96	92	85	77	44
404	23	ST03P01A5a05	3Btkb1	89	122	SM	23.5	38.8	37.7		100	99	98	97	96	80	63	49	41	27
404	24	DBD40201	na	na	na	SM	6.0	66.5	27.5		100	100	100	100	100	97	93	90	73	26
404	25	WB1630P01A0a05	2Bkb1	51	67	SM	18.3	59.6	22.1		100	96	94	90	87	80	74	65	54	16
404	26	ST02P02A6a03	Bkb1	9	24	SM	27.5	45.8	26.7		100	97	95	92	91	74	56	45	36	17
404	27	WB1345P01A4a02	3C'	218	249	SW-SM	16.9	68.9	14.1		100	98	96	94	93	85	77	68	48	10
404	28	WB1320P01A3a04	BCkb2	43	91	SM	8.4	74.5	17.1		100	100	99	99	99	94	90	82	62	13
404	29	ST03P01A6a04	2Bk	48	89	SM	28.2	45.5	26.3		100	97	95	92	89	72	54	42	32	16
404	30	WB1630P01A0a06	2Bkb2	67	91	SW-SM	16.9	70.1	13.1		100	99	99	98	98	87	75	54	35	9
404	31	ST02P01A6a02	BA	3	10	SM	23.5	45.2	31.3		100	97	95	92	90	78	66	58	50	26
404	32	ST02P02A6a04	Bkb2	24	37	SM	28.1	52.8	19.1		100	99	98	97	96	75	54	41	30	11
404	33	ST03P01A6a03	2Btk	20	48	SM	23.9	44.5	31.5		100	99	98	96	95	79	63	53	45	23
404	34	WB1345P01A4a03	3Bkb	249	267	SM	12.4	62.5	25.2		100	99	98	96	96	90	84	77	61	20
404	35	WB1320P01A3a01	Bkb1	0	10	SM	12.0	65.2	22.8		100	99	99	98	98	91	84	73	57	19
404	36	ST02P02A5a05	2Btkb	37	45	SM	20.2	48.6	31.1		100	99	99	98	98	84	70	56	46	24
404	37	ST03P01A6a02	BA	8	20	SM	14.9	41.7	43.3		100	98	97	96	95	88	80	73	67	39
404	38	WB1630P01A0a07	3Btkb	91	106	SM	32.8	42.3	24.9		100	90	83	73	66	53	41	30	24	10
404	39	ST02P01A6a03	Bk1	10	23	SM	29.8	44.0	26.2		100	98	97	95	94	72	50	40	31	15
404	40	RM25D3	na	na	na	SM	12.4	62.8	24.9		100	100	99	99	99	92	84	75	62	22
404	41	ST03P01A6a01	A1/A2	0	8	SM	10.7	48.3	41.0		100	99	99	98	98	93	87	80	72	40
404	42	WB1630P01A0a08	3Bkb	106	131	SM	17.5	60.5	22.1		100	98	97	95	94	84	75	61	47	17

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nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
405	1	WB1345P01A6a01	BA1	0	8	SM	15.0	60.0	25.1		100	98	96	94	93	87	80	70	58	22
405	2	WB1334P01A6a06	BCk3	86	122	SM	25.6	58.4	16.0		100	97	94	91	88	73	59	44	31	9
405	3	WB1312P01A6a04	Bk2	46	64	SM	14.3	63.6	22.1		100	100	99	99	99	90	81	68	52	19
405	4	WB1312P01A5a01	2Bkb1	127	150	SM	15.4	62.1	22.5		100	98	96	94	93	86	78	68	54	16
405	5	WB1345P01A5a03	2Bkb	119	132	SM	11.7	62.4	25.8		100	99	99	98	98	91	84	70	57	19
405	6	WB1334P01A4a02	3Ckb	259	315	SW-SM	15.1	75.3	9.7		100	99	98	97	96	88	79	68	42	6
405	7	WB1312P01A6a05	BCk1	64	102	SM	25.7	58.1	16.2		100	97	94	91	89	74	59	45	32	10
405	8	WB1334P01A5a01	2Bkb	122	142	SM	17.4	59.9	22.8		100	98	97	95	94	84	73	58	46	14
405	9	RM50F4	na	na	na	SM	21.0	58.1	20.9		100	99	99	98	98	83	68	51	43	15
405	10	WB1345P01A6a02	BA2	8	23	SM	17.5	60.6	22.0		100	99	98	97	96	86	76	65	52	18
405	11	WB1334P01A6a05	BCk2	69	86	SM	15.5	58.7	25.8		100	100	99	99	99	88	76	60	45	17
405	12	WB1345P01A5a04	2BCkb	132	168	SM	16.3	66.7	17.0		100	98	96	94	93	85	77	67	49	12
405	13	WB1312P01A4a01	3Bkb	208	226	SM	10.9	65.9	23.2		100	99	99	99	98	92	86	77	58	18
405	14	WB1312P01A6a01	BA1	0	5	SM	13.6	63.4	22.8		100	100	100	100	100	91	82	71	57	21
405	15	WB1312P01A5a02	2Bkb2	150	183	SM	17.6	65.9	16.4		100	98	96	94	93	84	75	64	48	11
405	16	WB1334P01A5a02	2BCkb1	142	160	SM	12.2	67.7	20.1		100	99	98	96	95	89	84	75	60	15
405	17	WB1345P01A5a05	2C	168	188	SW-SM	16.6	70.3	13.1		100	99	98	97	96	86	76	64	42	8
405	18	WB1345P01A6a03	Bk1	23	43	SM	13.8	61.7	24.5		100	100	99	99	98	90	81	69	56	21
405	19	WB1334P01A6a04	BCk1	36	69	SM	11.7	63.0	25.4		100	100	100	99	99	92	85	74	60	23
405	20	WB1345P01A5a00	2Btkb1	81	91	SM	10.1	59.7	30.2		100	100	100	100	100	93	85	65	54	22
405	21	WB1312P01A6a02	BA2	5	25	SM	11.4	63.5	25.1		100	100	99	99	98	92	86	78	67	23

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
405	22	WB1334P01A5a03	2BCkb2	160	198	SM	10.7	69.1	20.3		100	99	99	98	97	91	86	78	61	16
405	23	WB1334P01A6a03	Bk	15	36	SM	23.5	57.6	18.8		100	97	95	92	90	77	64	50	36	13
405	24	WB1312P01A4a02	3C	226	254	SW-SM	22.9	65.5	11.5		100	95	91	86	82	73	64	52	27	5
405	25	WB1345P01A6a04	Bk2	43	56	SM	12.2	63.9	23.8		100	100	100	100	100	92	84	68	51	21
405	26	WB1334P01A4a01	3BCkb	239	259	SW-SM	22.8	64.7	12.5		100	97	95	92	90	77	64	50	29	6
405	27	WB1312P01A6a03	Bk1	25	46	SM	11.5	66.3	22.1		100	100	100	100	100	92	84	68	53	19
405	28	RM50F5	na	na	na	SM	23.2	56.6	20.1		100	99	98	97	96	80	65	51	42	15
405	29	WB1312P01A5a03	2C	183	208	SW-SM	16.1	69.8	14.2		100	98	96	94	92	85	78	70	49	10
405	30	WB1345P01A5a01	2Btkb2	91	99	SM	9.3	61.5	29.2		100	99	98	97	97	92	86	68	55	20
405	31	WB1334P01A6a02	BA2	5	15	SM	16.1	60.5	23.4		100	99	99	98	97	87	78	66	53	20
405	32	WB1334P01A5a04	2C	198	239	SW-SM	17.7	74.1	8.3		100	98	97	95	93	84	75	61	35	5
405	33	WB1312P01A6a06	BCk2	102	127	SM	16.4	64.9	18.6		100	98	97	95	94	85	76	63	47	13
405	34	WB1345P01A6a05	C	56	81	SW-SM	22.6	65.6	11.8		100	99	99	99	98	81	63	40	22	6
405	35	WB1334P01A6a01	BA1	0	5	SM	9.3	59.5	31.2		100	100	100	100	99	94	89	81	70	31
405	36	WB1345P01A5a02	2Btkb3	99	119	SM	13.4	67.2	19.3		100	99	98	97	96	89	82	72	56	15
405	37	DBD40301	na	na	na	SW-SM	15.8	72.1	12.1		100	99	98	97	97	87	76	57	29	6

na = not applicable
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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
406	1	WB1334P01A1f	6C	536	628	SW-SM	22.3	66.4	11.4		100	95	92	87	83	75	68	60	44	7
406	2	ST02P05A6a01	A/AC	0	20	SM	25.2	57.6	17.2		100	99	99	98	98	79	60	44	30	11
406	3	WB1312P01A1b	6C'	668	700	SM	12.9	70.7	16.4		100	99	98	97	96	90	84	77	60	14
406	4	RM16C4	na	na	na	SM	9.2	64.3	26.5		100	100	100	99	99	94	89	84	70	25
406	5	WB1312P01A4i	3C'	277	357	SW-SM	20.8	69.4	9.9		100	98	96	94	92	80	67	51	25	4
406	6	WB1334P01A1d	6C'	628	661	SW-SM	7.0	78.3	14.7		100	100	100	100	100	96	91	80	52	10
406	7	WB1345P01A4e	3C	305	454	SW-SM	21.8	69.8	8.4		100	96	93	89	87	78	68	58	31	4
406	8	WB1312P01A1e	6C	567	668	SW-SM	18.0	70.7	11.3		100	98	97	95	94	84	74	63	39	6
406	9	ST02P05A6a02	Bkb	20	62	SM	26.1	55.5	18.4		100	99	99	98	98	78	57	39	25	11
406	10	WB1345P01A4e03	C	nd	nd	SW-SM	22.1	63.6	14.3		100	98	97	95	94	81	67	55	36	9
406	11	DBD40401	na	na	na	SM	18.3	58.8	22.8		100	99	99	98	97	86	75	66	54	20
406	12	WB1312P01A5b	2Bk/2C	162	241	SM	18.5	66.3	15.3		100	96	93	88	85	79	74	66	46	11
406	13	WB1334P01A2d	5C	512	536	SW-SM	9.2	77.3	13.4		100	100	100	99	99	94	88	79	50	9
406	14	WB1312P01A1f	6C''	700	762	SW-SM	21.6	65.9	12.5		100	97	95	92	89	79	68	59	39	8
406	15	WB1345P01A4e02	C	nd	nd	SW-SM	16.0	74.6	9.5		100	99	98	97	97	87	77	62	28	4
406	16	WB1345P01A1e	5C	567	613	SW-SM	23.3	65.4	11.2		100	96	94	90	87	76	65	55	37	6
406	17	ST02P05A5a03	2Bqkb	62	103	SM	27.4	55.4	17.3		100	99	99	98	98	77	54	37	22	10
406	18	WB1334P01A3a	4C	433	512	SM	11.0	72.8	16.2		100	99	98	97	96	91	86	77	53	12
406	19	WB1312P01A5a	2Bkb	94	162	SM	25.6	58.6	15.7		100	94	89	83	79	69	59	48	34	9
406	20	WB1312P01A2e	5C	515	552	SW-SM	13.1	77.6	9.3		100	99	99	98	98	90	82	67	35	4
406	21	WB1345P01A3b	4C	454	567	SM	10.5	74.0	15.5		100	100	99	99	99	93	86	77	55	11

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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
406	22	RM16C5	na	na	na	SM	8.7	65.4	25.9		100	100	100	100	100	95	90	84	69	24
406	23	WB1334P01A4g	3BCkb/3Ckb	256	296	SW-SM	21.3	67.3	11.5		100	96	93	89	86	77	68	57	35	6
406	24	ST02P05A5a04	2Bkb	103	119	SM	29.0	45.6	25.3		100	97	94	91	89	69	48	33	23	11
406	25	WB1312P01A3b	4C	433	515	SM	9.0	74.2	16.8		100	99	99	98	98	93	89	80	57	13
406	26	WB1345P01A4g02	C	nd	nd	SW-SM	23.3	68.9	7.8		100	97	95	92	90	77	64	50	23	3
406	27	WB1334P01A4e	3C	296	433	SW-SM	22.8	65.8	11.5		100	96	93	90	87	77	66	57	37	7
406	28	ST02P05A5a05	2BCkb1	119	165	SM	23.6	59.9	16.5		100	99	98	96	96	79	61	41	27	10
406	29	WB1312P01A4e02	3C"'	381	433	SW-SM	14.4	72.4	13.3		100	99	99	98	97	89	80	69	43	9
406	30	WB1345P01A5e	2BCkb/2C	131	177	SW-SM	16.9	69.1	14.0		100	98	97	95	94	85	76	64	44	9
406	31	WB1345P01A5g	C	238	268	SW-SM	20.9	65.8	13.4		100	95	92	88	84	77	71	63	44	10
406	32	WB1312P01A4g	3C"	357	381	SW-SM	33.4	54.3	12.3		100	88	79	67	58	51	44	38	26	6
406	33	WB1334P01A5e	2BCkb/2C	146	256	SM	17.4	65.9	16.7		100	97	95	93	91	83	76	67	49	11
406	34	ST02P05A5a06	2BCkb2	165	239	SM	32.3	48.3	19.4		100	95	91	86	82	62	42	28	19	8
406	35	RM16C6	na	na	na	SM	8.3	65.7	26.1		100	100	99	99	99	95	90	84	70	25
406	36	WB1345P01A4b	3Ckb	268	305	SM	12.4	66.0	21.6		100	99	98	96	96	90	84	76	59	18
406	37	WB1312P01A4h	3C	241	277	SM	26.2	54.5	19.3		100	90	83	74	67	63	59	54	41	12
406	38	WB1345P01A5f	C	177	238	SM	16.9	64.4	18.8		100	98	96	94	93	85	77	68	54	15
406	39	WB1334P01A6a	BA/Bk/BCk	3	128	SM	19.6	59.0	21.4		100	99	98	97	96	83	70	55	42	15
406	40	ST02P05A5a07	2B'kb	239	290	SW-SM	14.8	75.0	10.3		100	100	100	100	100	89	77	48	22	7
406	41	WB1312P01A6a	BA/Bk/BCk	6	94	SM	20.3	58.6	21.0		100	97	95	91	89	80	71	60	47	17

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nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
407	1	SC01P01A5a01	A/2BA	0	11	SM	29.1	37.4	33.5		100	92	86	78	72	62	52	42	33	20
407	2	SC03P01A6a05	Bk3	49	75	SM	24.9	59.4	15.7		100	98	97	95	93	77	61	45	29	10
407	3	RC01P01A5a08	3Bkb3	191	206	SM	31.8	45.6	22.5		100	93	87	80	74	60	47	38	29	13
407	4	SC02P01A5a04	2Bk2	37	54	SM	31.2	49.6	19.2		100	95	92	87	84	64	44	29	19	8
407	5	WB1334P01A1a01	C	nd	nd	SM	8.4	73.5	18.1		100	100	100	100	100	95	89	78	58	14
407	6	WB1310P01A1a04	2C	58	88	SM	10.0	74.5	15.5		100	99	99	98	98	93	88	81	64	12
407	7	RM36E4	na	na	na	SM	17.2	60.2	22.6		100	99	98	98	97	87	76	65	53	19
407	8	SC01P01A5a02	2Bk	11	28	SM	25.1	55.1	19.8		100	97	96	93	91	74	57	40	22	10
407	9	RC01P01A5a07	3Bkb2	173	191	SM	31.1	39.9	28.9		100	95	92	88	85	65	43	33	26	13
407	10	SC03P01A6a04	Bk2	29	49	SM	18.7	61.6	19.7		100	98	97	95	94	84	73	59	42	16
407	11	WB1310P01A2e	C	0	24	SW-SM	18.3	74.9	6.8		100	99	98	98	97	85	73	59	38	3
407	12	RM36E5	na	na	na	SM	17.7	59.4	22.9		100	100	99	99	98	87	75	65	54	20
407	13	SC02P01A5a05	2Bk3	54	94	SW-SM	26.8	58.8	14.4		100	99	98	96	95	74	54	34	18	7
407	14	SC01P01A5a03	2Bkm	28	40	SM	34.8	46.2	19.0		100	91	85	76	69	52	35	26	15	6
407	15	RC01P01A5a06	3Bkb1	140	173	SM	27.2	45.5	27.4		100	95	91	86	82	68	54	40	30	16
407	16	SC01P02A5a01	A/BA	0	11	SM	13.0	42.6	44.3		100	100	99	99	99	91	83	71	59	39
407	17	SC03P01A6a03	Bk1	18	29	SM	13.4	68.0	18.7		100	100	99	99	99	91	82	67	44	16
407	18	DBD40501	na	na	na	SM	17.0	59.3	23.6		100	98	96	94	93	85	76	64	53	20
407	19	WB1310P01A1a01	2Bkb	24	33	SM	4.8	70.7	24.5		100	100	100	100	99	96	94	87	71	20
407	20	SC01P01A5a04	2B'k1	40	54	SW-SM	29.3	56.9	13.9		100	97	95	93	91	71	50	33	18	6
407	21	WB1334P01A1a02	C	nd	nd	SW-SM	8.3	76.7	14.9		100	100	99	99	98	94	90	82	61	11

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
407	22	RC01P01A5a05	3Btkb	107	140	SM	22.9	52.4	24.7		100	97	95	93	91	78	65	47	33	18
407	23	SC02P01A5a06	2BCk	94	130	SW-SM	26.4	63.9	9.7		100	100	100	99	99	76	54	29	10	4
407	24	RC01P01A6a04	2BCk	71	107	SM	18.5	64.4	17.1		100	100	100	100	100	86	72	50	31	13
407	25	RC01P01A6a03	2Bk2	31	71	SM	22.9	52.5	24.7		100	100	99	99	99	82	65	50	38	18
407	26	SC01P01A5a05	2B'k2	54	73	SM	29.4	52.7	17.8		100	98	96	94	92	70	48	34	19	7
407	27	WB1310P01A1a02	2BCkb1	33	45	SM	6.1	70.7	23.4		100	100	99	99	99	96	93	84	70	19
407	28	SC03P01A6a02	Bw	9	18	SM	16.2	63.9	19.8		100	99	99	98	98	88	77	61	39	16
407	29	SC01P02A5a02	Btk	11	23	SM	19.0	49.9	31.1		100	100	99	99	99	86	72	57	40	25
407	30	SC02P01A5a01	A	0	4	SM	24.9	36.1	39.0		100	97	95	91	89	75	61	51	42	29
407	31	SC03P01A5a06	2Bkb	75	90	SW-SM	22.0	67.0	10.9		100	99	98	97	96	80	65	43	24	7
407	32	SC01P01A5a06	2BCk	73	85	SW-SM	19.5	67.4	13.1		100	98	97	95	94	82	69	47	20	7
407	33	RM36E6	na	na	na	SM	16.1	61.1	22.8		100	99	99	98	97	87	78	65	54	20
407	34	WB1334P01A1a03	C	nd	nd	SW-SM	17.5	71.0	11.5		100	99	98	97	96	86	76	66	46	8
407	35	RC01P01A6a02	2Bk1	8	31	SM	19.1	49.2	31.7		100	96	93	89	87	80	72	63	49	25
407	36	SC03P01A6a01	A	0	9	SM	15.9	63.2	20.9		100	99	99	98	97	87	77	60	39	17
407	37	SC02P01A5a02	Btk	4	14	SM	28.9	39.9	31.2		100	97	95	92	90	72	53	40	31	19
407	38	SC01P01A5a07	2C	85	120	SW-SM	21.1	71.3	7.6		100	100	100	100	100	84	67	46	21	5
407	39	WB1310P01A1a03	2BCkb2	45	58	SW-SM	11.6	74.4	14.0		100	99	98	97	96	91	86	79	61	11
407	40	RC01P01A6a01	A	0	8	SM	8.8	51.6	39.6		100	100	100	99	99	94	89	82	69	37
407	41	SC01P02A5a03	2Bk	23	32	SM	24.6	57.7	17.8		100	100	100	99	99	79	58	40	22	8
407	42	SC02P01A5a03	2Bk1	14	37	SM	34.8	41.4	23.7		100	91	84	74	68	51	34	24	18	8

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
408	1	SC04P01A6a01	A	0	7	SM	16.1	46.3	37.6		100	98	96	94	92	84	76	52	44	28
408	2	RM36E7	na	na	na	SM	24.3	52.5	23.1		100	97	95	93	91	79	66	64	55	20
408	3	SC04P01A6a09	Bk8	169	194	SW-SM	21.8	67.3	10.9		100	98	96	93	92	77	62	28	19	5
408	4	CU07	na	na	na	SM	18.5	58.0	23.3		100	98	96	94	93	84	75	68	58	20
408	5	SC05P01A5a04	Bk2	49	72	SM	22.6	59.0	18.4		100	97	96	93	91	74	57	27	18	5
408	6	SC04P01A6a02	Bk1	7	25	SM	23.6	56.2	20.2		100	96	94	90	87	76	65	53	36	15
408	7	ST02P04A5a07	2B'kb2	226	233	SM	33.2	41.5	25.3		100	95	92	87	84	63	42	36	28	12
408	8	SC04P01A6a10	Bk9	194	210	SW-SM	24.9	60.4	14.8		100	97	94	91	88	73	59	35	23	8
408	9	SC05P01A5a06	BCk	98	129	SM	19.0	62.6	18.4		100	98	97	95	94	78	62	18	12	4
408	10	SC04P01A6a03	Bk2	25	49	SM	31.7	51.2	17.1		100	96	93	89	86	66	45	33	21	8
408	11	SC05P01A5a05	Bk3	72	98	SM	24.0	57.1	18.8		100	97	94	91	89	72	54	25	16	5
408	12	CU16	na	na	na	SM	9.4	61.7	29.0		100	99	98	97	97	93	89	88	75	28
408	13	SC04P01A6a04	Bk3	49	84	SW-SM	25.5	59.9	14.6		100	97	94	91	88	73	57	40	25	7
408	14	CU20	na	na	na	SM	31.1	47.5	21.3		100	95	91	86	83	68	52	49	41	15
408	15	RM36E8	na	na	na	SM	23.6	52.5	23.9		100	97	95	92	89	78	67	64	54	20
408	16	SC05P01A5a01	A/Btkm1	0	9	SM	17.2	37.4	45.4		100	98	97	95	94	84	73	48	44	31
408	17	SC04P01A6a05	Bk4	84	111	SW-SM	27.8	57.4	14.8		100	96	94	90	88	71	52	34	20	7
408	18	SC05P01A5a07	Ck	129	160	SM	30.5	46.8	22.7		100	95	92	87	83	62	40	29	19	6
408	19	CU04	na	na	na	SM	23.6	53.0	23.3		100	96	94	90	87	77	68	66	54	20
408	20	SC05P01A5a02	Btkm2	9	20	SM	18.5	55.8	25.8		100	98	97	95	93	78	63	17	13	6
408	21	SC04P01A6a06	Bk5	111	123	SM	33.7	51.0	15.4		100	96	93	89	86	66	45	38	28	9

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
408	22	SC04P01A6a07	Bk6	123	153	SW-SM	17.7	69.9	12.4		100	98	97	95	93	81	69	27	18	5
408	23	DBD40701	na	na	na	SM	7.2	48.4	44.4		100	99	98	97	97	94	91	79	62	39
408	24	RM36E9	na	na	na	SM	23.1	53.9	23.0		100	97	95	92	90	79	68	64	53	19
408	25	SC04P01A6a08	Bk7	153	169	SW-SM	27.5	62.1	10.4		100	95	92	88	84	71	57	46	26	7
408	26	CU15	na	na	na	SM	21.0	54.8	24.2		100	98	96	94	93	83	73	73	60	22
408	27	SC05P01A5a03	Bk1	20	49	SM	23.0	59.3	17.8		100	97	95	92	90	74	57	26	17	5

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
409	1	SC07P01A5a05	Bk3	52	61	SM	31.5	38.2	30.3		100	92	87	80	74	61	48	38	31	18
409	2	SC09P01A6a02	Bk1	6	29	SM	35.4	38.1	26.5		100	91	85	77	70	55	40	35	28	15
409	3	SC07P01A5a06	Btkb1	61	98	SM	26.5	37.5	36.0		100	95	92	87	83	70	57	43	37	24
409	4	SC07P01A5a03	Bk1	12	39	SM	19.4	46.5	34.1		100	100	100	99	99	85	72	56	44	28
409	5	SC07P01A5a04	Bk2	39	52	SM	26.4	45.9	27.7		100	99	98	97	96	76	56	41	32	16
409	6	RM16C8	na	na	na	SM	6.9	66.4	26.9		100	100	100	100	100	96	92	84	69	25
409	7	SC09P01A6a04	Btk1	47	68	SM	16.7	45.1	38.1		100	99	98	96	95	86	77	64	53	34
409	8	SC07P01A5a07	Btkb2	98	119	SM	25.7	40.9	33.4		100	97	95	93	91	75	59	46	37	23
409	9	SC07P01A5a01	A1	0	2	SM	24.9	38.0	36.9		100	97	95	91	89	75	62	48	39	27
409	10	SC09P01A6a05	Btk2	68	86	SM	25.0	42.0	33.0		100	94	91	85	81	71	62	48	39	25
409	11	DBD40601	na	na	na	SW-SM	13.7	72.5	13.8		100	98	96	94	92	87	82	77	59	10
409	12	SC07P01A5a02	A2	2	12	SM	18.0	44.3	37.8		100	99	98	97	96	85	74	57	46	31
409	13	SC07P01A5a08	Bkb	119	160	SM	26.5	42.4	31.1		100	96	94	90	88	72	56	43	34	20
409	14	SC09P01A6a01	A	0	6	SM	25.1	33.9	40.9		100	94	90	84	79	71	63	56	49	33
409	15	RM16C7	na	na	na	SM	8.0	65.2	26.8		100	100	99	99	99	95	91	84	70	25
409	16	SC09P01A6a03	Bk2	29	47	SM	31.5	48.3	20.2		100	98	97	95	94	70	46	32	21	10
409	17	SC09P01A6a06	BC	86	110	SM	26.1	45.7	28.3		100	95	92	87	83	72	61	50	38	22

na = not applicable
nd = not determined

Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
410	1	RM55G1	na	na	na	nd	24.6	56.9	nd		100	99	98	97	96	79	62	46	38	14
410	2	WB1272P01A4a01	3BCkb	257	277	nd	7.1	76.8	nd		100	100	100	99	99	95	92	84	62	16
410	3	WB1374P01A4e	3C'	402	497	nd	21.9	66.4	nd		100	98	96	94	92	80	67	50	27	9
410	4	WB1272P01A5a02	2BCkb	152	216	nd	13.5	72.1	nd		100	97	96	93	91	87	83	75	56	14
410	5	WB1374P01A6a01	Bk/BA	107	119	nd	26.7	57.7	nd		100	97	94	91	88	73	58	43	31	11
410	6	WB1272P01A6a	Bk/BCk	79	134	nd	11.8	72.1	nd		100	99	98	96	95	90	85	76	60	16
410	7	WB1272P01A6a02	BCk	94	130	nd	12.4	76.3	nd		100	99	99	98	97	91	84	74	53	11
410	8	WB1374P01A1b	5C	521	558	nd	12.7	76.2	nd		100	99	98	97	96	90	84	74	52	11
410	9	WB1272P01A5a03	2C	216	257	nd	15.6	73.2	nd		100	99	99	98	97	88	79	66	43	10
410	10	WB1374P01A4f	3BCkb/3Ckb/3C	271	402	nd	15.5	72.4	nd		100	98	96	94	92	86	80	72	50	12
410	11	WB1374P01A6a02	BCk	119	170	nd	22.8	64.6	nd		100	98	97	95	94	80	66	49	33	10
410	12	RM25D5	na	na	na	nd	13.7	63.7	nd		100	99	99	98	98	90	83	75	63	22
410	13	WB1272P01A4a02	3C	277	292	nd	10.2	78.3	nd		100	100	100	100	100	94	87	74	51	11
410	14	WB1272P01A6a01	Bk	64	94	nd	9.9	72.8	nd		100	100	99	99	98	93	88	75	59	17
410	15	WB1374P01A1e	5C'	558	598	nd	21.9	70.8	nd		100	97	96	93	91	80	69	57	34	6
410	16	WB1272P01A1b	6C	543	560	nd	8.2	76.9	nd		100	100	100	100	100	95	90	83	65	15
410	17	WB1374P01A5a01	2Bkb	170	185	nd	15.5	66.7	nd		100	99	98	97	97	88	79	67	52	17
410	18	WB1272P01A5b	2BCkb/2C	165	253	nd	16.6	71.0	nd		100	97	95	92	90	84	79	71	52	12
410	19	WB1272P01A4f	3BCkb/3C	253	308	nd	11.2	77.1	nd		100	99	99	98	98	92	86	74	49	11
410	20	WB1272P01A2d	5C'	475	543	nd	10.2	68.5	nd		100	100	99	99	98	93	87	77	48	21
410	21	WB1374P01A3b	4C	497	521	nd	10.4	76.2	nd		100	100	99	99	99	93	87	77	56	13

na = not applicable
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Batch	Sample	Field Sample Code	Horizon	Upper Depth (cm)	Lower Depth (cm)	USCS Group-Lab	Gravel_USCS (wt%)	Sand_USCS (wt%)	Silt+Clay_USCS (wt%)		P < 3-in	P < 2-in	P < 1 1/2-in	P < 1-in	P < 3/4-in	P < 3/8-in	P < #4	P < #10	P < #40	P < #200
410	22	WB1272P01A5g	2Bkb	134	165	nd	16.1	70.9	nd		100	97	95	92	90	84	79	69	53	13
410	23	WB1272P01A4h	3C'	308	378	nd	37.2	54.7	nd		100	88	80	68	60	49	38	33	24	5
410	24	WB1374P01A5a02	2BCkb	185	226	nd	11.9	72.5	nd		100	99	98	96	95	90	86	78	61	16
410	25	WB1272P01A2e	5C	442	475	nd	17.8	76.4	nd		100	99	98	97	96	86	76	62	33	5
410	26	RM25D6	na	na	na	nd	12.3	64.6	nd		100	99	99	98	98	91	85	76	63	23
410	27	WB1374P01A4a01	3BCkb	272	290	nd	9.9	72.1	nd		100	99	99	98	97	92	88	79	59	18
410	28	WB1374P01A5a03	2C	226	272	nd	17.5	73.0	nd		100	98	97	95	93	85	77	68	49	9
410	29	WB1272P01A5a01	2Bkb	130	152	nd	11.4	72.5	nd		100	99	99	98	98	91	85	68	54	15
410	30	WB1272P01A3b	4C	378	442	nd	9.8	75.5	nd		100	100	100	100	100	94	88	77	52	14
410	31	DBD40901	na	na	na	nd	35.8	37.1	nd		100	91	85	76	70	54	38	26	21	13
410	32	WB1374P01A5b	2BCkb/2C	198	271	nd	16.3	70.5	nd		100	98	96	94	92	86	79	71	53	13
410	33	WB1374P01A4a02	3Ckb	290	325	nd	23.0	71.2	nd		100	97	95	93	91	79	66	52	29	5

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