

Core/Profile: KC-1
 Location: Rainy River
 Legal description: NE ¼ Section 6 T160N R29W
 County: Koochiching
 Parent material: Spoil/colluvium or alluvium/alluvium/till
 Vegetation: None
 Slope: <2%
 Elevation: 1070 feet
 Topo. Map: Clementson
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-12 (0-.4)	A6	black (10YR2/1) light loam diamicton; moderate, medium, platy; firm; noneffervescent; abrupt lower boundary; probable spoil.
12-28 (.4-.9)	2Ab1	black (10YR2/1) light silt loam, with very few, fine pebbles; weak, medium, cloddy; friable; noneffervescent; abrupt lower boundary; colluvium or alluvium.
28-54 (.9-1.8)	3Ab2	very dark brown to very dark grayish brown (10YR2.5/2) silty clay loam with very few, fine pebbles; moderate, very fine angular blocky; firm; noneffervescent; clear lower boundary; alluvium.
54-67 (1.8-2.2)	3Bwb	dark brown (10YR3/3) silty clay loam with much very fine sand; moderate, medium, breaking to fine; fine, subangular blocky and angular blocky; possibly many, continuous, thin, very dark grayish brown (10YR2/2) clay films on ped faces and lining pores; firm; noneffervescent; abrupt lower boundary; alluvium.
67-100 (2.2-3.3)	4C	dark brown (10YR3/3) granular sandy loam with few pebbles up to 5 cm diameter (dolomite), with few laminae dark to very dark grayish brown (2.5Y4/2,3/2) silty clay loam; strata moderately expressed; firm to friable; noneffervescent; very abrupt lower boundary; alluvium.
100-177 (3.3-5.8)	5Cg1	gray to dark gray to olive gray to dark grayish brown to grayish brown (5Y-2.5Y4.5/1.5) heavy loam diamicton; few, coarse, dark yellowish brown (10YR3/6,4/6) mottles; massive, jointed; secondary carbonate coats on joints; very firm; violently effervescent, with common, soft, secondary carbonate lining pores and common, continuous to discontinuous, thin to moderately thick secondary carbonate coats on joint faces; gradual lower boundary; few, very fine pores; till.
177-273 (5.8-9.0)	5Cg2	very dark greenish gray (5GY3/1) heavy loam diamicton; few, coarse, tending to vertical, dark yellowish brown (10YR3/6,4/6) mottles; massive, jointed; very firm; violently effervescent, with few, discontinuous, thin, secondary carbonate coats on joints; few to common very fine roots and pores; clear lower boundary; till.
273-321+(9.0-10.5+)	5Cg3	olive brown (2.5Y4/4) and dark grayish brown (2.5Y4/1.5) heavy silt loam diamicton; very few, coarse, olive brown (2.5Y4/6) mottles; very weak, strata very weakly expressed; very firm; violently effervescent; clear lower boundary; till.
<377->502 (<12.4->16.5)	5Cg4	very dark grayish brown to very dark olive gray (2.5Y-5Y3/2,3/1.5) loam diamicton; indeterminate structure; firm; violently effervescent; till.

Core/Profile: KC-2
 Location: Rainy River
 Legal description: NE ¼ Section 6 T160N R29W
 County: Koochiching
 Parent material: Alluvium or lacustrine/till
 Vegetation: Grass
 Slope: <2%
 Elevation: 1083 feet
 Topo. Map: Clementson
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-12 (0-.4)	A1	black to very dark brown (10YR2/1.5) heavy silt loam with few, fine pebbles; weak, medium, breaking to fine subangular blocky; friable; noneffervescent; abrupt lower boundary; alluvium or lacustrine.
12-23 (.4-.8)	A2	black (10YR2/1) heavy silt loam; moderate, fine, subangular blocky; friable; noneffervescent; abrupt lower boundary; alluvium or lacustrine.
23-37 (.8-1.2)	Bw	very dark grayish brown (2.5Y3/2) light loam to very heavy silt loam; weak, medium, breaking to fine, subangular blocky; friable; noneffervescent; abrupt lower boundary; alluvium or lacustrine.
37-50 (1.2-1.6)	2Bg	olive gray to grayish brown to dark grayish brown (5Y-2.5Y4.5/2) loam diamicton and grayish brown (2.5Y5/2) heavy silt loam, includes a medium to coarse sand lamination, but very disturbed; many, fine, medium, light olive brown to olive brown (2.5Y4.5/4 [60%]) mottles, indeterminate structure, but probably stratified; firm; violently effervescent; clear lower boundary; till-derived alluvium.
50-173 (1.6-5.7)	3Cg1	olive brown to light olive brown (2.5Y4.5/4) heavy loam diamicton, dark grayish brown (2.5Y4/2) and dark gray to gray (≈5Y4.5/1) along joints; few to common, medium to coarse, dark yellowish brown (10YR4/6) and olive brown (2.5Y4/4±) mottles; moderate, medium and coarse, angular blocky over massive, jointed; very firm; violently effervescent, with common, thin to moderately thick, continuous to discontinuous carbonate coats on joint faces and line pores; few, very fine pores; abrupt lower boundary; till.
173-192+ (5.7-6.3+)	3Cg2	olive brown to light olive brown (2.5Y4.5/4) loam diamicton; very few, medium, dark yellowish brown (10YR4/6) mottles ; weak, coarse, platy, over stratified; very firm; violently effervescent; abrupt lower boundary; till.
245-380 (8.0-12.5)	3Cg3	olive brown (2.5Y4/3.5) heavy loam diamicton; indeterminate structure; firm; violently effervescent; till.

Core/Profile: KC-3
 Location: Rainy River
 Legal description: NW ¼ Section 30 T160N R27W
 County: Koochiching
 Parent material: Alluvium/lacustrine/lacustrine or till
 Vegetation: Grass
 Slope: <2%
 Elevation: 1080 feet
 Topo. Map: Stratton
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-26 (0-.9)	A(p?)	black to very dark brown (10YR2/1.5) silty clay loam; moderate, medium and coarse, cloddy; very firm; noneffervescent; many very fine and fine, few medium roots; clear lower boundary; alluvium.
26-51 (.9-1.7)	Bw1	very dark grayish brown to black (2.5Y2.5/2) silty clay; very weak, medium, subangular blocky, breaking to weak, very fine subangular blocky; very firm; noneffervescent; many very fine roots and pores; clear lower boundary; alluvium.
51-71 (1.7-2.3)	Bw2	very dark grayish brown (2.5Y3/2) down to dark grayish brown (2.5Y4/2) silty clay; weak, coarse, prismatic breaking to weak, very fine to fine subangular blocky; many continuous, thin, very dark grayish brown (2.5Y3/2) clay films on coarse prisms; very firm; noneffervescent, with very few, very fine soft secondary carbonate concretions; common, very fine roots; many very fine pores; clear lower boundary; alluvium.
71-83 (2.3-2.7)	Bg	dark grayish brown to dark gray to olive gray (2.5Y-5Y4/1.5) silty clay, with basal thin bed of very dark gray to very dark grayish brown (2.5Y3/1) heavy sandy loam; very weak coarse, prismatic breaking to very weak, fine and medium subangular blocky; few black (2.5Y2.5/1) clay on ped faces; firm; moderately effervescent, with many thin, fine, soft secondary carbonate concretions and masses; abrupt lower boundary; alluvium.
83-99 (2.7-3.2)	2C	dark yellowish brown (10YR3/4) pebbly fine and medium sand, moderately sorted; single grain; loose; violently effervescent; very abrupt lower boundary; alluvium.
99-170 (3.2-5.6)	3Cg	dark to very dark gray (5Y4/1,3/1) clay, with many brown (10YR4/3,5/3) clay laminae and few gray to light gray (5Y6/1) heavy loam diamicton laminae in lower 0.12 m; few, fine olive brown (2.5Y4/5) soft, oxidation concretions and mottles from 1.14-1.20; moderate to strong, thin to thick laminated, possibly consisting of rhythmites of 5Y and 10YR clay, down to thick rhythmically, laminated 5Y clay and heavy loam diamicton; with common, fine, slickensides; very firm; violently effervescent; very abrupt lower boundary; lacustrine.
170-235+ (5.6-7.7+)	4C1	olive brown to dark grayish brown (2.5Y4/3) heavy loam diamicton (includes pebbles and clasts of clay, including some brown [10YR5/3±] clay) with few dark olive gray (5Y3/2) and very dark gray to very dark grayish brown (2.5Y3/1) clay laminae and with very few, very fine sand partings rhythmically bedded; very firm; violently effervescent; refused on large mafic rock; lacustrine.
>235-381+ (>7.7-12.5+)	5C2	sand; no recovery.
<419->554 (<13.7->18.2)	6C3	very dark grayish brown (2.5Y3/2.5) silty clay with common granules; indeterminate structure; soft consistency; violently effervescent; lacustrine.
<672->807 (<22.0->26.5)	6Cg	very dark gray to dark olive gray (5Y3/1.5) silty clay with few granules and fine pebbles; indeterminate structure; plastic; violently effervescent; lacustrine.

Core/Profile: KC-4
 Location: Rainy River
 Legal description: NW ¼ Section 27 T160N R27W
 County: Koochiching
 Parent material: Alluvium(PSA)/alluvium/lacustrine
 Vegetation: None
 Slope: <2%
 Elevation: 1068 feet
 Topo. Map: Birchdale
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-5 (0-.2)	A	very dark brown to very dark grayish brown (10YR2.5/2) heavy silt loam; weak, fine, subangular blocky breaking to crumb; friable; noneffervescent; abrupt lower boundary; post settlement alluvium (PSA).
5-26 (.2-.9)	C	dark grayish brown (2.5Y4/2) silt loam and heavy silt loam; common to many, horizontal, (10YR 3/4) mottles; weak to moderate, thin laminated; friable; noneffervescent; very few, medium roots; very abrupt lower boundary; post-settlement alluvium (PSA).
26-46 (.9-1.5)	2Ab	black (10YR2/1) light silty clay loam; moderate, very fine, angular blocky and granular; many discontinuous, thin dark brown (7.5YR3/3) oxide coats on ped faces; friable to firm; common, fine roots; noneffervescent; clear lower boundary; alluvium, overbank deposits.
46-61 (1.5-2.0)	2BCgb	black (2.5Y2/0) silty clay loam, and very dark grayish brown to black (2.5Y2.5/2) silty clay; very weak, medium and coarse subangular blocky over, thin bedded weakly expressed; few, thin, dark brown (7.5YR3/4) oxide coat lining pores; friable to firm; noneffervescent; clear lower boundary; alluvium, overbank deposits.
61-151 (2.0-5.0)	2Cg1	olive gray to grayish brown to dark grayish brown (5Y-2.5Y4.5/2) to olive gray (5Y4.5/2) silty clay loam and heavy silt loam; common to many, fine, faint and olive brown (2.5Y4/4) mottles; very weak, subangular blocky, probably over stratified; plastic; noneffervescent; abrupt lower boundary; alluvium, overbank deposits.
151-248 (5.0-8.1)	3Cg2	olive gray (5Y4.5/2) down to gray to dark gray (5Y4.5/1) and gray to dark gray to olive gray (5Y4.5/1.5) very fine sandy loam, loamy very fine sand, with few silt loam and very fine sand laminae; few zones with common, fine, dark yellowish brown (10YR3/6) and olive brown (2.5Y4/4) mottles; weak, thin bedded; plastic; noneffervescent; one charcoal fragment at 1.55 m; one articulated bivalve; very abrupt lower boundary; alluvium, channel deposits.
248-276+ (8.1-9.1+)	3Cg3	dark to very dark gray (5Y3.5/1) down to dark greenish gray (5GY3.5/1 and 3/1) very fine sand, loamy very fine sand, very fine sandy loam and silt loam; strata weakly expressed; plastic; moderately effervescent; zones with few to common pieces organic matter, one twig piece (possible ??? <i>Rhus sp</i>) from 273 cm C -14 dated at 5,090±50 BP; alluvium, channel deposits.
<419->554 (<13.7->18.2)	4Cg4	dark to very dark gray (5Y3.5/1) silty clay; indeterminate structure; very plastic; violently effervescent; few bivalve shells, whole; lacustrine.
<667->802 (<21.9->26.3)		As above, but with some sand grains; lacustrine.

Core/Profile: KC-5
 Location: Rainy River
 Legal description: NW ¼ Section 27 T160N R27W
 County: Koochiching
 Parent material: Alluvium/lacustrine
 Vegetation: Grass
 Slope: 5-9%
 Elevation: 1079 feet
 Topo. Map: Birchdale
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-16 (0-.5)	A1	black (10YR2/1) heavy silt loam, with very few fine pebbles; moderate, fine, subangular blocky, breaking to granular; friable; noneffervescent; many, very fine to fine roots; clear lower boundary; alluvium, overbank deposits.
16-30 (.5-1.0)	A2	black (2.5Y2/0) and (2.5Y2.5/1) silty clay loam; weak, medium, subangular blocky, breaking to granular and crumb, possibly over thin bedded, very weakly expressed; firm; noneffervescent; few very fine roots; abrupt lower boundary; alluvium, overbank deposits.
30-48 (1.0-1.6)	Bw	very dark grayish brown (2.5Y3/2) heavy silty clay loam; weak, medium and coarse, breaking to subangular blocky, granular; firm; noneffervescent; few, very fine to fine roots; clear lower boundary; alluvium, overbank deposits.
48-98 (1.6-3.2)	BC	olive brown to dark grayish brown (2.5Y4/3) silty clay loam, with few beds of dark grayish brown (2.5Y4/2) and very dark grayish brown (2.5Y3/2) heavy silt loam; very weak, subangular blocky over thin bedded weakly expressed; firm; noneffervescent to very slightly effervescent; very few, very fine charcoal fragments; wood from 91 cm C-14 dated at 5,850±50 BP clear lower boundary; alluvium, overbank deposits.
98-120 (3.2-3.9)	C	grayish brown to dark grayish brown to olive (2.5Y-5Y4.5/3) silty clay loam and heavy silt loam; very weak subangular blocky; firm; very slightly effervescent, with zones with common, fine, soft secondary carbonate masses and pore linings; abrupt lower boundary; alluvium, overbank deposits.
120-183+ (3.9-6.0+)	2Cg1	olive gray (5Y5/2) and grayish brown (2.5Y5/2) very fine sandy loam and loamy, very fine sand; common, horizontal, dark yellowish brown (10YR3/6 and 4/6) mottles; strata weakly expressed; very friable; noneffervescent, with very few zones with common, fine, soft secondary carbonate masses; alluvium, channel deposits.
<301->436 (<9.9->14.3)	3Cg2	dark gray to dark greenish gray (5Y-5GY4/1) silty clay; indeterminate structure; very plastic; violently effervescent; lacustrine.

Core/Profile: KC-6
 Location: Rainy River
 Legal description: SE ¼ Section 11 T158N R25W
 County: Koochiching
 Parent material: Spoil/alluvium/lacustrine(?)
 Vegetation: Grass
 Slope: <2%
 Elevation: 1081 feet
 Topo. Map: Loman
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-9 (0-.3)	C	black to very dark brown (10YR2/1.5) pebbly loamy sand over pebbly silty clay loam; weak, fine angular and subangular blocky, and single grain; firm to loose; violently effervescent down to noneffervescent; common, very fine roots; abrupt lower boundary; spoil.
9-21 (.3-.7)	2Ab	black (10YR2/1) silty clay loam; moderate, fine, angular blocky; firm; noneffervescent; few very fine and fine roots; abrupt lower boundary; alluvium, overbank deposits.
21-30 (.7-1.0)	2BEb	very dark grayish brown (10YR3/2) silty clay loam; moderate, fine, angular blocky to weak, medium angular blocky and subangular blocky; common very thin discontinuous grayish brown (10YR5/2) silt coats on ped faces; firm; noneffervescent; few, very fine and fine roots; abrupt lower boundary; alluvium, overbank deposits.
30-55 (1.0-1.8)	2BCtb	dark grayish brown (2.5Y4/2.5) silty clay loam, with few beds of very dark grayish brown and black (2.5Y3/2 and 2/1); weak, coarse, subangular blocky over thin bedded; common, thin very dark gray (2.5Y3/1) clay coats on ped faces, and common thin to moderately thick clay coats lining pores; firm; noneffervescent; many very fine and fine pores; few very fine and fine roots; clear lower boundary; alluvium, overbank deposits.
55-77 (1.8-2.5)	2BCb	olive brown to dark grayish brown (2.5Y4/3) heavy silt loam and very dark grayish brown (2.5Y3/2) silty clay loam, with very few granules; very weak, subangular blocky over thin bedded; firm; noneffervescent to very slightly effervescent; few fine charcoal(?) fragments in lower 2 cm -- C-14 dated at 4,530±50 BP; abrupt lower boundary; alluvium, overbank deposits.
77-101 (2.5-3.3)	3C1	grayish brown to light olive brown (2.5Y5/3) medium sand, moderately sorted, possibly with clasts of strata of dark grayish brown (2.5Y4/2) fine and medium sandy loam; single grain; loose; violently effervescent; few whole bivalve shells; very abrupt lower boundary; alluvium, overbank deposits.
101-232 (3.3-7.6)	4C2	dark grayish brown to olive brown (2.5Y4/2, 4/3±) silty clay loam and silt loam; few faint, dark yellowish brown (10YR3/4,3/6) mottles, very weak subangular blocky over strata very weakly expressed; firm; violently to moderately effervescent, variable, with zones with common fine, soft secondary carbonate masses and pore linings; many down to common very fine and fine pores; few medium roots; abrupt lower boundary; alluvium, overbank deposits.
232-260 (7.6-8.5)	5Cg	dark grayish brown to dark gray to olive gray (2.5Y-5Y4/1.5) clay loam and olive brown to dark grayish brown (2.5Y4/3) loamy, medium and coarse sand with granules; moderate, stratified, loamy sand is single grain; plastic to loose; violently effervescent; abrupt lower boundary; alluvium, overbank deposits.
260-265+ (8.5-8.7+)	6C	olive brown to dark grayish brown (2.5Y4/3) loamy medium and coarse sand with granules; strata moderately expressed; single grain; loose; violently effervescent; alluvium, channel deposits.
<427-<562 (<14.0-<18.4)	7Cg	sand and gravel in silt loam matrix; violently effervescent; lacustrine(?).

Core/Profile: KC-7
 Location: Rainy River
 Legal description: SW ¼ Section 21 T160N R28W
 County: Koochiching
 Parent material: Spoil/alluvium/till
 Vegetation: Grass
 Slope: <2%
 Elevation: 1102 feet
 Topo. Map: Border
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-31 (0-1.0)	C	very firm; violently to slightly effervescent; abrupt lower boundary; spoil.
31-44 (1.0-1.4)	2Ab	black (10YR2/1) silty clay; moderate, very fine angular blocky; firm; noneffervescent; few biofurbated inclusions of underlying material; abrupt lower boundary; alluvium.
44-52 (1.4-1.7)	2ABb	very dark gray to dark olive gray (2.5Y3/1 to 3/2) silty clay; weak, fine, subangular blocky breaking to moderate crumb; firm; noneffervescent; clear lower boundary; alluvium.
52-60 (1.7-2.0)	2Bwb	dark grayish brown (2.5Y4/2.5) light silty clay loam; weak, medium breaking to fine and very fine subangular blocky; firm; very slightly effervescent; abrupt lower boundary; alluvium.
60-66 (2.0-2.2)	3C	grayish to dark grayish brown to light olive brown to olive brown (2.5Y4.5/3) pebbly light loam (much sand); very weak, medium breaking to fine subangular blocky; friable; slightly down to moderately effervescent; abrupt lower boundary; alluvium.
66-75 (2.2-2.5)	4Cg	olive gray (5Y4/2) silty clay loam, with basal pebbles up to 5 cm in diameter; very weak subangular blocky over strata, weakly expressed; very firm; moderately effervescent; very abrupt lower boundary; alluvium.
75-222+ (2.5-7.3+)	5C	olive brown (2.5Y4/4) silty clay loam diamicton; moderate, medium and coarse angular blocky and jointed over massive; few zones with thin, discontinuous secondary carbonate masses and pore fillings on joint faces; joints and ped faces are dark gray (5Y4/1) and very dark grayish brown to olive brown (2.5Y4/2.5); very firm; violently effervescent; spoil.
<288->423 (<9.4->13.9)	5Cg	dark to very dark grayish brown (2.5Y3.5/2) heavy loam diamicton; indeterminate structure; firm; violently effervescent; apoil.

Core/Profile: LW-1
 Location: Rainy River
 Legal description: SW ¼ Section 36 T162N R32W
 County: Lake of the Woods
 Parent material: Spoil/wetland/lacustrine or alluvium/till
 Vegetation: Grass
 Slope: <2%
 Elevation: 1062 feet
 Topo. Map: Wheelers Point
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-10 (0-.3)	O	black (10YR2/0) peat with some silt; very weak subangular blocky; friable; noneffervescent; abrupt lower boundary; spoil.
10-16 (.3-.5)	C	grayish brown to light olive brown (2.5Y5/3) and very dark gray to very dark grayish brown (2.5Y3/1) silty clay; single bed; firm; violently effervescent; abrupt lower boundary; spoil.
16-74 (.5-2.4)	2Ob	black (10YR2/0) fibrous peat; strata, very weakly expressed; friable; noneffervescent; abrupt lower boundary; wetland.
74-88 (2.4-2.9)	3ABgb	black to very dark gray to very dark grayish brown (2.5Y2.5/1) silty clay; very weak, medium, subangular blocky; friable to firm; noneffervescent; many fine, mostly vertical pores; clear lower boundary; lacustrine or alluvium.
88-107 (2.9-3.5)	3Bgb	very dark gray to very dark grayish brown (2.5Y3/1) silty clay; very weak, coarse, subangular blocky; many, continuous, thin, dark yellowish brown (10YR3/4), oxidation stains lining pores; firm; noneffervescent; many fine, mostly vertical pores; abrupt lower boundary; lacustrine or alluvium.
107-143 (3.5-4.7)	4Cg1	mottled olive gray (5Y4.5/2) and light brownish gray (2.5Y6/2) silty clay with dark gray (5Y4/1) clay laminae; rhythmically bedded; common, discontinuous, thin, dark yellowish brown (10YR3/6), oxide stains lining pores; plastic; violently effervescent; common, fine pores; abrupt lower boundary; lacustrine or alluvium.
143-168 (4.7-5.5)	5Cg2	olive to olive gray (5Y4/2.5) heavy loam diamicton with common, fine pebbles; massive; common, discontinuous, thin dark yellowish brown (10YR3/6) oxide stains lining pores; firm; violently effervescent; common, fine, pores; clear lower boundary; till.
168-173+ (5.5-5.7+)	5Cg3	greenish gray (5GY5/1) heavy loam diamicton with common, fine, pebbles; many medium and coarse, olive to olive gray (5Y4/2.5) mottles; weak, medium, platy; firm; violently effervescent; till.
<182->312 (<6.0->10.2)	5Cg4	greenish gray to gray (5GY-5Y5/1) clay loam diamicton with few, fine pebbles; indeterminate structure; plastic; violently effervescent; till.
<423->558 (<13.9->18.3)	5Cg5	very dark gray to dark olive gray (5Y3/1.5) heavy loam diamicton; indeterminate structure; plastic; violently effervescent; till.

Core/Profile: LW-2
 Location: Rainy River
 Legal description: SW ¼ Section 36 T162N R32W
 County: Lake of the Woods
 Parent material: Spoil/lacustrine or alluvium/till
 Vegetation: Grass
 Slope: <2%
 Elevation: 1063 feet
 Topo. Map: Wheelers Point
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-47 (0-1.5)	C	black (2.5Y2/0,2/1) silty peat at top, very dark to dark grayish brown (10YR3/2,4/2+/-) stratified silty clay, silty clay loam; sandy loam; and loamy gravel; thin beds, moderately expressed; firm to friable; non-effervescent to violently effervescent; very abrupt lower boundary; spoil.
47-64 (1.5-2.1)	2Ab	black (2.5Y2/0) organic silty clay; very weak, subangular blocky breaking to granular and crumb; firm; noneffervescent; very abrupt lower boundary; lacustrine or alluvium.
64-95 (2.1-3.1)	3BCgb	gray (5Y5/2 [40%]) loam diamicton; many, fine and medium, grayish brown to light olive brown (2.5Y5/3 [60%]) mottles; very weak, subangular blocky; firm; violently effervescent; few fine pores; clear lower boundary; lacustrine or alluvium.
95-152 (3.1-5.0)	3Cg1	olive gray to dark gray to gray (5Y-2.5Y4.5/2) heavy loam diamicton; weak, medium, platy; common, discontinuous, thin dark yellowish brown (10YR3/6,3/4), oxide coats on partings; firm; violently effervescent; diffuse lower boundary; till.
152-182 (5.0-6.0)	3Cg2	grayish brown to dark grayish brown to light olive brown to olive brown (2.5Y4.5/3) heavy loam diamicton; moderate, medium and coarse, platy, slightly wavy; many, continuous, thin, dark yellowish brown (10YR3/6,3/4), oxide coats on partings; very firm; violently effervescent; abrupt lower boundary; till.
182-210 (6.0-6.9)	3Cg3	gray to dark gray (5Y4.5/1) heavy loam diamicton; massive; very firm; violently effervescent; till.

Core/Profile: LW-3
 Location: Rainy River
 Legal description: NE ¼ SW ¼ Section 36 T162N R32W
 County: Lake of the Woods
 Parent material: Wetland/alluvium (or lacustrine)/till
 Vegetation: Grass
 Slope: <2%
 Elevation: 1067 feet
 Topo. Map: Wheelers Point
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-10 (0-.3)	OA1	black (10YR2/0) peat with clastics; very weak, subangular blocky; friable; noneffervescent; abrupt lower boundary; wetland.
10-23 (.3-.8)	OA2	black (10YR2/0,2/1) peat with clastics and wood; few, dark yellowish brown (10YR4/6) mottles in lower 7 cm; very weak, subangular blocky; friable; violently effervescent; very abrupt lower boundary; wetland.
23-29 (.8-1.0)	2A	black (2.5Y2/0) organic silty clay loam; very few medium, dark yellowish brown (10YR3/6) mottles; weak, fine, subangular blocky; friable to firm; noneffervescent; abrupt lower boundary; alluvium or lacustrine.
28-45 (1.0-1.5)	2Bg1	very dark gray to very dark grayish brown (2.5Y3/1) heavy silty clay loam; weak, medium, subangular blocky breaking to very weak granular; many, thin, discontinuous, dark yellowish brown (10YR3/4), oxide stains lining pore; firm; noneffervescent; many very fine, few fine pores; clear lower boundary; alluvium or lacustrine.
45-74 (1.5-2.4)	2Bg2	dark to very dark gray (5Y3.5/1) silty clay; weak, coarse, subangular blocky breaking to very weak granular; many, thin, discontinuous, dark yellowish brown (10YR3/4), oxide stains lining pores; firm; noneffervescent; many very fine pores; gradual lower boundary; alluvium or lacustrine.
74-93 (2.4-3.1)	2Cg1	dark to very dark gray (5Y3.5/1) and (5Y4/1) clay; indeterminate structure; many, thin, discontinuous, dark yellowish brown (10YR3/4), oxide stains lining pores; firm; violently effervescent with common, fine and medium soft secondary carbonate masses; many very fine, few fine pores; clear or gradual lower boundary; alluvium or lacustrine.
93-136 (3.1-4.5)	2Cg2	olive gray (5Y4.5/2) clay and olive gray (5Y4/2) clay with few fine pebbles clasts of silty clay and clay; rhythmically laminated with couplets approximately 5 mm±; very firm; violently effervescent; clear lower boundary; alluvium or lacustrine.
136-162 (4.5-5.3)	2Cg3	very dark gray (5Y3/1) clay, olive gray (5Y5/2±) clay and silty clay with silt partings; rhythmically laminated with couplets approximately 2-3 mm±; very firm; violently effervescent, slow to react; clear lower boundary; alluvium or lacustrine.
162-177 (5.3-5.8)	2Cg4	very dark gray (5Y3/1) clay, brown (10YR5/3) clay with silt partings, with few fine pebbles, mostly clastics, few of silty clay and clay; rhythmically laminated with couplets approximately 3-5 mm, but irregular contacts, due to dropstones; very firm; violently effervescent; alluvium or lacustrine.
370-509 (12.1-16.7)	3Cg	dark olive gray (5Y3/2) clay loam diamicton; massive; plastic; violently effervescent; till.

Core/Profile: LW-4
 Location: Rainy River
 Legal description: NW ¼ Section 2 T160N R32W
 County: Lake of the Woods
 Parent material: Alluvium
 Vegetation: Grass
 Slope: <2%
 Elevation: 1124 feet
 Topo. Map: Pitt
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-22 (0-.7)	A(p?)	Very dark to dark grayish brown (10YR3.5/2) silt loam; weak, fine, subangular blocky down to very weak, fine platy and subangular blocky; friable; moderately effervescent; abrupt lower boundary; alluvium, vertical accretion.
22-30 (.7-1.0)	E	brown to dark brown (10YR4/3), (pale brown [10YR6/3±] dry), silt loam; weak, fine, platy; very friable; noneffervescent; many medium pores filled with underlying material; abrupt lower boundary; alluvium, vertical accretion.
30-44 (1.0-1.4)	Bwb1	dark brown (10YR3/3) to dark yellowish brown (10YR3.5/6) silt loam, more clay than above; weak, medium breaking to fine, subangular blocky; few down to none, thin, discontinuous, pale brown (10YR6/3), silt coats on ped faces; friable; noneffervescent; clear lower boundary; alluvium, vertical accretion .
44-60 (1.4-2.0)	Bwb2	light yellowish brown (2.5Y6/4) silt; many, fine and medium, light olive brown (10YR5/6) mottles; weak, coarse, subangular blocky; very friable; noneffervescent; clear lower boundary; alluvium, vertical accretion.
60-81 (2.0-2.7)	C1	light olive brown to light yellowish brown (2.5Y5.5/4) silt; many, fine and medium, grayish brown (2.5Y5/2) mottles; very weak, coarse, subangular blocky over strata, very weakly expressed; very friable; violently effervescent with common, medium and coarse, soft secondary carbonate masses; clear lower boundary; alluvium, vertical accretion.
81-111 (2.7-3.6)	C2	light olive brown (2.5Y5/4) silt with much very fine sand; common, medium and coarse, olive brown (2.5Y4/4) mottles and few to common, fine to coarse grayish brown to olive gray (2.5Y-5Y5/2) mottles; thin laminae, weakly expressed; very friable; violently effervescent; clear lower boundary; alluvium, vertical accretion.
111-150+ (3.6-4.9+)	2C3	light yellowish brown (2.5Y6/3.5) very fine sand; single grain; loose; violently effervescent; alluvium, channel deposits.
<176->311 (<5.8->10.2)	2Cg	grayish brown to light brownish gray (2.5Y5.5/2) very fine sand and loamy very fine sand; thin laminae, weakly expressed; single grain; loose to very friable; violently effervescent; alluvium, channel deposits.

Core/Profile: LW-5
 Location: Rainy River
 Legal description: NW ¼ Section 2 T160N R32W
 County: Lake of the Woods
 Parent material: Alluvium
 Vegetation: Grass
 Slope: <2%
 Elevation: 1128 feet
 Topo. Map: Pitt
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-28 (0-.9)	A	black (10YR2/1) silt loam with much very fine sand; weak, fine, subangular blocky worm bioturbated; friable; slightly effervescent; abrupt lower boundary; alluvium, channel till.
28-37 (.9-1.2)	AC	black to very dark gray to very dark grayish brown (2.5Y2.5/1) heavy silt loam with much very fine sand, with few very dark gray (2.5Y3/1) laminae; very weak subangular blocky over strata, very weakly expressed; friable to firm; noneffervescent; clear lower boundary; alluvium, channel till.
37-44 (1.2-1.4)	2Bg	very dark gray to very dark grayish brown (2.5Y3/1) down to dark gray to dark grayish brown (2.5Y3.5/1) silty clay loam with much very fine sand; few faint fine and medium, dark brown (10YR3/3) mottles; very weak subangular blocky; firm; noneffervescent; few, fine roots; few fine pores; clear lower boundary; alluvium, vertical accretion.
44-58 (1.4-1.9)	2BCg1	dark grayish brown to olive brown (2.5Y4/3) light loam; many faint fine and medium, olive brown (2.5Y4/4) mottles and common, very fine dark yellowish brown (10YR3/4) mottles; very weak, coarse, subangular blocky; friable; noneffervescent; common, fine pores; few fine roots; clear lower boundary; alluvium, vertical accretion.
58-70 (1.9-2.3)	2BCg2	olive gray (5Y5/2) light loam; few medium and coarse, grayish brown (2.5Y5/2) mottles, and common, very fine to fine, dark yellowish brown (10YR3/4,3/6) mottles; very weak, coarse, subangular blocky; friable; noneffervescent; common, fine, roots; common, fine pores; clear lower boundary; alluvium, vertical accretion.
70-118 (2.3-3.9)	3Cg1	grayish brown to light olive brown (2.5Y5/3) very fine sand, well sorted; few, medium, dark yellowish brown (10YR4/6) mottles; single grain; loose; noneffervescent; clear lower boundary; alluvium, channel deposits.
<202->337 (<6.6->11.1)	3Cg2	gray to grayish brown (5Y-2.5Y5/1) very fine sand and coarse silt, well sorted; strata, very weakly expressed; plastic; violently effervescent; alluvium, channel deposits.
<438->573 (<14.3->18.8)	3Cg2	gray to grayish brown (5Y-2.5Y5/1) coarse silt and very fine sand, well sorted; strata, very weakly expressed; plastic; violently effervescent; alluvium, channel deposits.

Core/Profile: LW-6
 Location: Rainy River
 Legal description: NE ¼ NE ¼ Section 3 T169N R32W
 County: Lake of the Woods
 Parent material: Lacustrine/glaciolacustrine
 Vegetation: Grass
 Slope: <2%
 Elevation: 1123 feet
 Topo. Map: Pitt
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-16 (0-.5)	A	very dark grayish brown (2.5Y3/2) silty clay, with one lamination at base of (2.5Y2/2); weak to moderate, fine, angular blocky and subangular blocky; very firm; noneffervescent; many very fine to fine roots; abrupt lower boundary; lacustrine.
16-31 (.5-1.0)	Bw	very dark grayish brown (2.5Y3/2) silty clay; moderate to strong, coarse, prismatic breaking to moderate medium and coarse angular blocky; very firm; noneffervescent; clear lower boundary; many very fine roots; many very fine to fine pores; clear lower boundary; lacustrine.
31-49 (1.0-1.6)	2C1	grayish brown to light brownish gray to light yellowish brown to light olive brown (2.5Y5.5/3±) silty clay loam with common, fine, sand with one large dolomite clast; common, fine and medium light brownish gray to grayish brown (2.5Y5.5/2) mottles, associated with carbonate masses; indeterminate structure; firm; violently effervescent with common, fine to medium, soft secondary carbonate masses; abrupt lower boundary; glaciolacustrine.
49-107 (1.6-3.5)	2C2	light olive brown (2.5Y5/4±) silt loam and silt with strata of grayish brown to dark grayish brown to olive brown to light olive brown (2.5Y4.5/3) light loam with very few, fine pebbles and granules; few, dark yellowish brown (10YR4/6) mottles along horizontal partings; thin to thick laminae, moderately expressed; friable; violently effervescent; very abrupt lower boundary; glaciolacustrine.
107-157 (3.5-5.2)	2C3	(2.5Y-10YR9/3.5) heavy loam and heavy loam diamicton, with laminae of light yellowish brown (2.5Y6/4) silt and dark gray to very dark gray to dark grayish brown to very dark grayish brown (2.5Y3.5/1) clay; few zones with many very fine, black, oxidation dots and stains; thin, bedded, interstratified with laminae; few, discontinuous, dark yellowish brown (10YR4/6±), oxide stains on very coarse ped faces; very firm; violently effervescent; very abrupt lower boundary; glaciolacustrine.
157-188 (5.2-6.2)	2C4	light yellowish brown to light olive brown to yellowish brown (2.5Y-10YR5.5/4±) silt and silt loam with laminae of dark to very dark gray to dark to very dark grayish brown (2.5Y3.5/1) clay; few zones with many very fine, black, oxidation dots and stains; thin to thick laminae, moderately expressed; few, discontinuous, dark yellowish brown (10YR4/6±), oxidation stains on very coarse ped faces; friable; violently effervescent; very abrupt lower boundary; glaciolacustrine.
188-218+ (6.2-7.2+)	2Cg	gray to dark gray (5Y4.5/1) and light olive brown (2.5Y5/4) silt with laminae of very dark gray to very dark grayish brown (2.5Y3/1) clay; thin laminae, strongly expressed; friable; violently effervescent; glaciolacustrine.

Core/Profile: LW-7
 Location: Rainy River
 Legal description: NW ¼ Section 2 T160N R32W
 County: Lake of the Woods
 Parent material: Alluvium/lacustrine/glaciolacustrine/till
 Vegetation: Grass
 Slope: <2%
 Elevation: 1124 feet
 Topo. Map: Pitt
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-8 (0-.3)	A	very dark grayish brown (10YR3/2) light silt loam; granular and weak, fine, subangular blocky; friable; noneffervescent; many very fine to fine roots; abrupt lower boundary; alluvium.
8-17 (.3-.6)	C	dark grayish brown (2.5Y4/2) sandy loam and very fine sand (approximately light gray [2.5Y7/2] dry); thin laminae, very weakly expressed; friable; noneffervescent; abrupt lower boundary; alluvium.
17-34 (.6-1.1)	2Bwb1	very dark grayish brown (2.5Y3/2) silty clay; weak, coarse breaking to medium, subangular blocky; very firm; noneffervescent; few very fine roots; many very fine pores; clear lower boundary; lacustrine.
34-44 (1.1-1.4)	2Bwb2	very dark grayish brown (2.5Y3/1.5) silty clay; weak, coarse, breaking to medium, subangular blocky; very firm; noneffervescent; few very fine roots; many very fine pores; clear lower boundary; lacustrine.
44-69 (1.4-2.3)	2Bwb3	dark to very dark grayish brown to olive brown (2.5Y3.5/3) silty clay to clay; weak, coarse, subangular blocky down to very weak, coarse, subangular blocky over thin laminae in lower 0.10 m; very firm; noneffervescent; few very fine roots; many very fine pores; very few slickensides; clear lower boundary; lacustrine.
69-78 (2.3-2.6)	2CBb	dark to very dark grayish brown to olive brown (2.5Y3.5/3) silty clay to clay and grayish brown to light olive brown (2.5Y5/3) silty clay; thin laminae, weakly to moderately expressed; common, thick, continuous, black to very dark gray to very dark grayish brown (2.5Y2.5/1) clay coats lining pores; very firm; noneffervescent with many fine, soft, secondary carbonate masses and discontinuous laminae; many very fine to fine pores; very abrupt lower boundary; lacustrine.
78-123 (2.6-4.0)	3C1	dark grayish brown to olive brown (2.5Y4.5/3,4/3), grayish brown to light olive brown to brown (2.5Y-10YR5/3) silty clay diamicton with common, fine pebbles and granules and few, very fine to fine clasts of silt± and silt, and black to very dark gray to very dark grayish brown (2.5Y2.5/1) clay; very weak, very coarse, subangular blocky over thin beds to thin laminae; many thick, very dark gray to very dark grayish brown (2.5Y3/1) clay coats lining pores; very firm; violently effervescent; many very fine, fine and medium pores, some truncated within the unit; very abrupt lower boundary; glaciolacustrine.
123-151+ (4.0-5.0+)	4C2	light olive brown to olive brown (2.5Y4.5/3.5, 4/3.5) silty clay diamicton; very weak, coarse, platy down to massive; very firm; violently effervescent; till.
<250->385 (<8.2->12.6)	4C3	very dark grayish brown (2.5Y3/2) silty clay loam diamicton; indeterminate structure; very firm; violently effervescent; till.

Core/Profile: LW-8
 Location: Rainy River
 Legal description: SE ¼ Section 12 T160N R30W
 County: Lake of the Woods
 Parent material: Alluvium/lacustrine
 Vegetation: Grass
 Slope: <2%
 Elevation: 1094 feet
 Topo. Map: Clementson
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-10 (0-.3)	A	very dark brown (10YR2/2) silty clay loam; moderate, very fine subangular blocky and granular; firm; noneffervescent; many, fine roots; abrupt lower boundary; alluvium.
10-15 (.3-.5)	Bw	very dark grayish brown (10YR3/2) silty clay loam; weak, medium break along tp fine, subangular blocky; firm; noneffervescent; abrupt lower boundary; alluvium.
15-24 (.5-.8)	Ab	very dark brown (10YR2/2) silty clay loam; weak, fine, subangular blocky; firm; noneffervescent; clear lower boundary; alluvium.
24-65 (.8-2.1)	Bwb	dark to very dark grayish brown to olive brown (2.5Y3.5/3) silty clay loam down to heavy silt loam; many, fine and medium, olive brown (2.5Y4/4) mottles, faint; weak, coarse, subangular blocky; firm; noneffervescent; clear lower boundary; alluvium.
65-108 (2.1-3.5)	C1	dark grayish brown down to olive brown (2.5Y4/3) to grayish brown (2.5Y5/2) heavy silt loam to silt loam; common, fine, dark yellowish brown (10YR3/6,4/6) mottles; probably originally stratified; firm to friable; slightly and very slightly effervescent with many down to common fine and medium soft secondary carbonate masses; clear lower boundary; alluvium.
108-127 (3.5-4.2)	C2	grayish brown to dark grayish brown (2.5Y4.5/2.5) very fine sandy loam and light silt loam down to very fine sandy loam and loamy very fine and fine sand; common, dark yellowish brown (10YR3/6,4/6) mottles; indeterminate structure, probably originally stratified; friable to very firm; slightly effervescent; very abrupt lower boundary; alluvium.
127-175± (4.2-5.7±)	2Cg1	dark grayish brown to grayish brown (2.5Y4.5/2) to (2.5Y4.5/2.5) silt and very fine sandy loam; few to common, medium, dark yellowish brown (10YR3/6,4/6) mottles; thin beds to laminae, very weakly expressed; friable; slightly effervescent, with few fine soft secondary carbonate masses; clear lower boundary; alluvium.
175-362 (5.7-11.9)	2Cg2	grayish brown to olive gray (2.5Y-5Y5/2) and olive gray (5Y5/2) silt, light silt and very fine sandy loam and olive gray (5Y5/2) with one bed olive brown (2.5Y4/5) very fine sand, well sorted; common, coarse, horizontal, olive brown (2.5Y4/6,4/7) mottles; strata, moderately expressed; thin beds to laminae; friable to very friable; strongly effervescent, with few fine soft secondary carbonate masses in finer beds; alluvium.
362-378+ (11.9-12.4+)	3C	fine sand and sandy gravel; indeterminate, single grain; loose; indeterminate effervescence; indeterminate lower boundary, probably abrupt; alluvium.
<534->669 (<17.5->21.9)	4Cg	dark grayish brown (5Y4/2) silty clay; indeterminate; very plastic; violently effervescent; lacustrine.

Core/Profile: LW-9
 Location: Rainy River
 Legal description: SE ¼ Section 12 T160N R30W
 County: Lake of the Woods
 Parent material: Alluvium/lacustrine
 Vegetation: Grass
 Slope: <2%
 Elevation: 1090 feet
 Topo. Map: Clementson
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-17 (0-.6)	A	black (10YR2/1) silt loam; weak, fine, subangular blocky; friable; noneffervescent; many inclusions of material below; very abrupt lower boundary; alluvium.
17-21 (.6-.7)	Cg	grayish brown to dark grayish brown (2.5Y4.5/2) coarse silt to very fine sand (light gray [10YR7/1] dry); close to single grain; loose; noneffervescent; very abrupt lower boundary; alluvium.
21-39 (.7-1.3)	2Btgb1	very dark grayish brown (2.5Y3/2) silty clay loam; moderate, medium breaking to subangular blocky, tending to angular blocky; many, thin, continuous, dark grayish brown (2.5Y4/2) clay coats on ped faces; noneffervescent; firm to very firm; many very fine to fine pores; gradual lower boundary; alluvium.
39-68 (1.3-2.2)	2Btgb2	dark grayish brown (2.5Y4/2) down to dark grayish brown to grayish brown (2.5Y4.5/2) silty clay loam; common, very fine and fine, dark yellowish brown (10YR3/6) mottles; weak, coarse, subangular blocky; common, thin, discontinuous, dark grayish brown (2.5Y4/2), clay coats on ped faces and lining pores; few organic coats lining pores; firm to very firm; noneffervescent; many very fine to fine pores; very few large roots; clear lower boundary; alluvium.
68-340 (2.2-11.2)	2Cg	dark grayish brown (2.5Y4/1.5,4/2) silty clay loam with light brownish gray (2.5Y6/2) silt partings down to olive gray (5Y4.5/2±) silty clay loam, heavy silt loam down to silt loam; few, very fine and fine, dark yellowish brown (10YR3/6) mottles down to zones with many fine and medium dark yellowish brown (10YR3/6,4/6,4/8) mottles; thin beds to thin laminae, moderately down to strongly expressed; firm to friable; very slightly effervescent to slightly effervescent, with very few, fine, soft, secondary carbonate masses, and common, carbonate-enriched partings, with common, fine and medium, soft secondary carbonate masses down to no secondary carbonate masses; alluvium.
340-540 (11.2-17.7)	3C	fine sand; single grain; loose; indeterminate effervescence; indeterminate lower boundary, but probably abrupt; alluvium.
540->632 (17.7->20.7)	4Cg	olive gray (5Y4/2) silty clay; indeterminate structure; very plastic; violently effervescent; lacustrine.

Core/Profile: LW-10
 Location: Rainy River
 Legal description: SE ¼ Section 12 T160N R30W
 County: Lake of the Woods
 Parent material: Alluvium/lacustrine
 Vegetation: Grass
 Slope: <2%
 Elevation: 1092 feet
 Topo. Map: Clementson
 Remarks:

Depth cm(ft)	Horizon or Zone	Description
0-20 (0-.7)	A	black (10YR2/1) silt loam; very weak, fine, subangular blocky breaking to crumb; friable; noneffervescent; very abrupt lower boundary; alluvium.
20-32 (.7-1.0)	EB	very dark grayish brown (10YR3/2) and brown (10YR5/3) silty clay loam; weak, fine, subangular blocky, tending to angular blocky; common thin discontinuous silt coats; friable to firm; noneffervescent; few very fine and fine, medium pores; clear lower boundary; alluvium.
32-53 (1.0-1.7)	Bt	very dark grayish brown (2.5Y3/2) silty clay loam; moderate, fine, subangular blocky and angular blocky; many, continuous, thin, very dark grayish brown (10YR3/2) clay coats on ped faces and lining pores; noneffervescent; many very fine and fine, few medium pores; gradual lower boundary; alluvium.
53-75 (1.7-2.5)	BCt	dark grayish brown (2.5Y4/2.5) with few black to very dark grayish brown (2.5Y2.5/2) silty clay loam; weak to moderate, fine and medium subangular blocky and angular blocky over thin beds; coatings are many, continuous to discontinuous, thin, very dark grayish brown (10YR3/2) clay coats on ped faces and lining pores; firm; noneffervescent; gradual lower boundary; many very fine and fine few, medium pores; alluvium.
75-122 (2.5-4.0)	CB	grayish brown (2.5Y5/2.5±) silty clay loam with common, light brownish gray (2.5Y6/2), silt partings; many, very fine dark yellowish brown (10YR3/4,3/6) mottles; moderate, medium and coarse, platy, breaking to weak, medium and coarse subangular blocky and angular blocky, all over thin beds to laminae; few, discontinuous, thin, dark yellowish brown (10YR3/2) clay coats on ped faces, and thin to thick, lining pores; firm; noneffervescent; many very fine and fine, few medium, pores; gradual lower boundary; alluvium.
122-217 (4.0-7.1)	Cg1	grayish brown to dark grayish brown to olive gray (2.5Y-5Y4.5/2±) silty clay loam with many light brownish gray (2.5Y6/2) silt partings; many, very fine to fine, dark yellowish brown (10YR3/4,3/6) mottles; thick to thin laminae, moderately expressed; firm; very slightly effervescent; diffuse lower boundary; alluvium.
217-342 (7.1-11.2)	Cg2	olive gray (5Y5/2 and 4/2) heavy silt loam and silty clay loam with common light brownish gray (2.5Y6/2) silt partings and few very fine sand and very fine sandy loam partings; common, fine and medium, dark yellowish brown (10YR3/6) mottles; thick to thin, laminae, moderately to weakly expressed; firm to friable; very slightly effervescent; alluvium.
342-490 (11.2-16.1)	2C	fine sand, cobble, gravel, and coarse sand; indeterminate structure, single grain; loose; indeterminate effervescence; indeterminate lower boundary, but probably abrupt; alluvium.
490->559 (16.1->18.3)	3Cg	dark olive gray (5Y3/2) silty clay loam; indeterminate structure; plastic; violently effervescent; lacustrine.
<668->803 (<21.9->26.3)	3Cg	very dark gray (5Y3/1) silty clay loam; indeterminate structure; plastic; violently effervescent; lacustrine.