UNH-1

U.S.G.S Field Activity #: 1984-016-FA

Latitude: 42.9717 Longitude: 70.4567

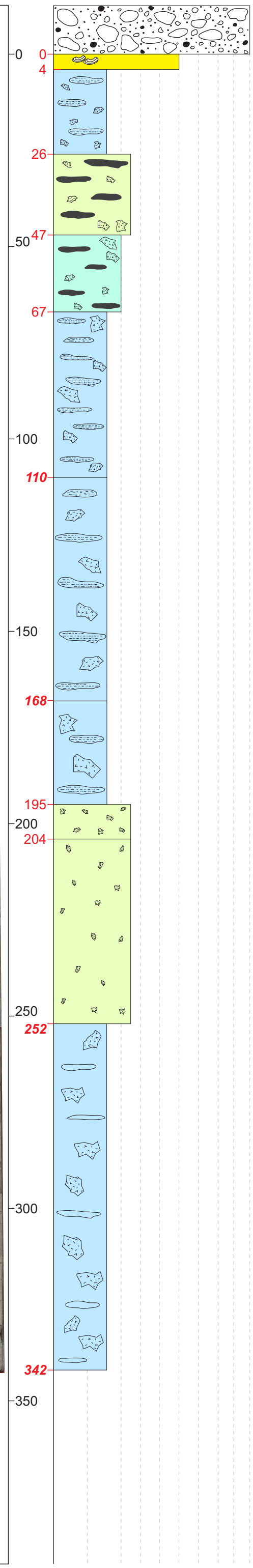

Photo (1984)	Photo (2019)	Depth (cm)	Lithology: Mud – Clay	Lithology: Mud – Silt	Lithology: Sand – VF	Lithology: Sand – F	Lithology: Sand – M	Lithology: Sand – C	Lithology: Sand – VC	Lithology: Gravel – Granule	Lithology: Gravel – Pebble	Lithology: Gravel – Cobble	DESCRIPTION	Color	Sample Depth (cm)	GSM (%) Gravel	GSM (%) Sand	GSM (%) Mud	Sand Fraction Only Mean Phi	Sand Fraction Only Sorting Phi	GSM (%) Gravel	GSM (%) Sand	GSM (%) Mud	Whole Sample Mean Phi	Whole Sample Sorting Phi	Depositional Environment	Seismic Unit
		0–4											**Cobbles and pebbles (possible lag deposits).** Discrepancy between original photo and written description where top 10 cm of the core was omitted.								1.8	53.7	44.5	5.0	3.94	Lodgment till; prior 13.800 YBP while glaciers still covered the region.	**Unit 1.** Diamicton.
		4–26											**Medium Sand**. Light olive gray (5Y5/2); two shell fragments.		0–8						3.6	83.7	12.7	1.9	2.25		
		26–47											**Silty Clay**. Greenish gray (5GY6/1); sharp contact; clay and sand lenses; rock fragments to 1.6 cm.														
		47–67											**Silty Sand**. Light olive gray (5Y5/2); indistinct contact; clay lenses; rock fragments to 1.6 cm.														
		67–88											**Sandy Silt**. Medium gray (N5); sharp contact; clay lenses; rock fragments to 5.6 cm.														
		88–110											**Silty Clay**. Grayish olive green (5GY3/2); indistinct contact; silty sand lenses; rock fragments to 5.6 cm.		88						1.2	50.5	48.3	5.2	3.85		
		110–141											Update 2019: This section was likely reversed in orientation when initial deck photographs were taken and the section was stored. This was revealed by new observations and grain size analysis. Original photograph records are upside down (but have been corrected here). Original descriptions were also recorded when the core section was upside down. Depths for grain size analyses from 1989 and 2019 have been adjusted accordingly.		141						0.8	40.8	58.4	5.9	4.10		
		141–156											**Silty Clay** (32.7% Silt, 31.3% Clay). Grayish olive green (5GY3/2); indistinct contact; silty sand lenses; rock fragments to 5.6 cm.		156						1.0	27.0	72.0	7.0	3.91		
		156–168											New Core Section. **Silty Clay**. Grayish olive green (5GY3/2); indistinct contact; silty sand lenses; rock fragments to 5.6 cm.		178						0.8	18.4	80.8	7.6	3.82		
		168–195											**Silty Sand**. Grayish olive green (5GY3/2); distinct contact; many rock fragments to 0.6 cm.														
		195–204											**Silty Sand**. Grayish olive green (5GY3/2); distinct contact; sand streaks; rock fragments to 0.5 cm.														
		204–252											New Core section. **Silty Clay** (34.3% Silt, 38.4% Clay). Grayish olive green (5GY3/2); large sand lens; rock fragments to 7.5 cm.		292						0.5	25.5	74.0	7.1	3.83		
		252–342																									