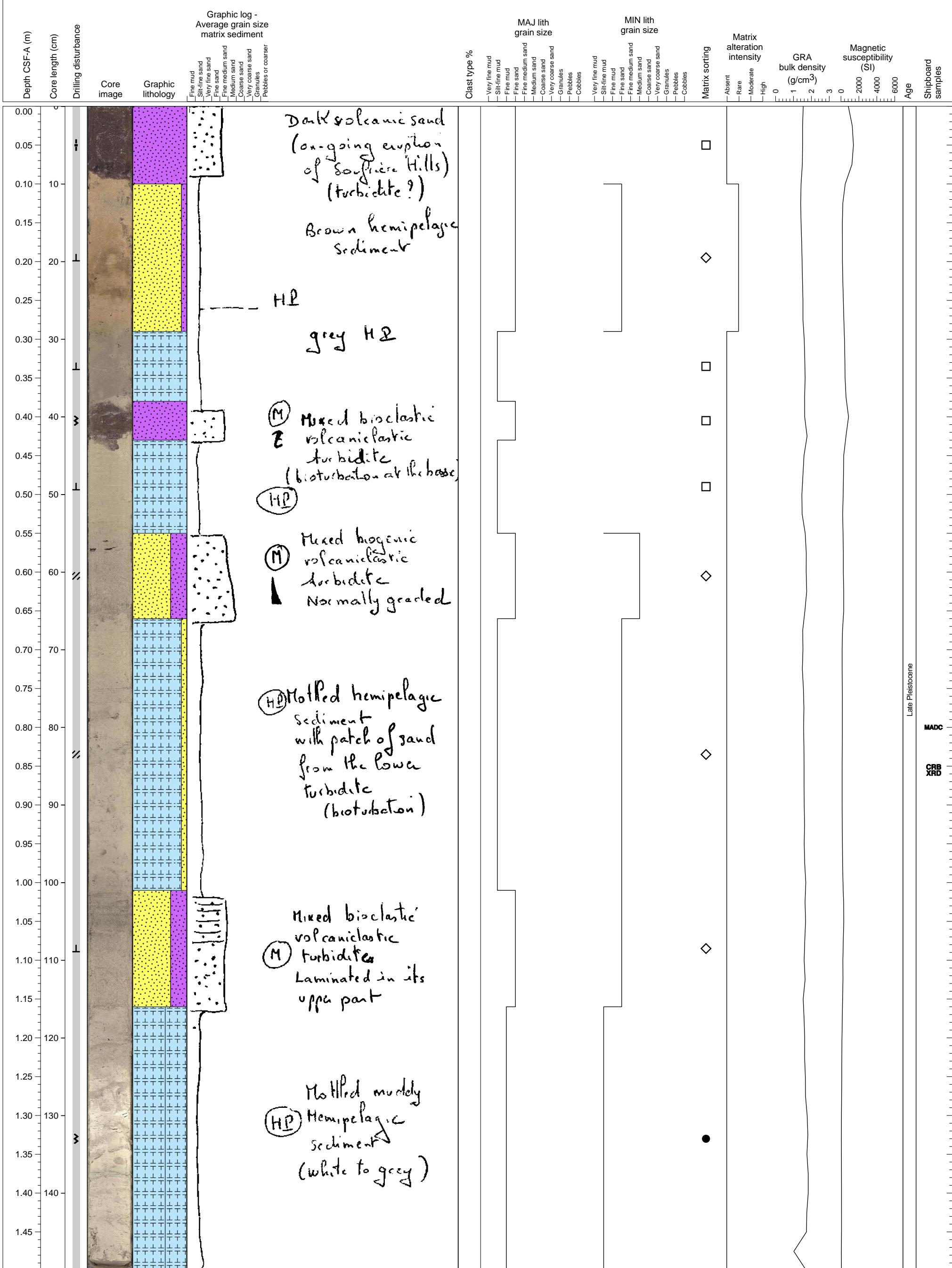
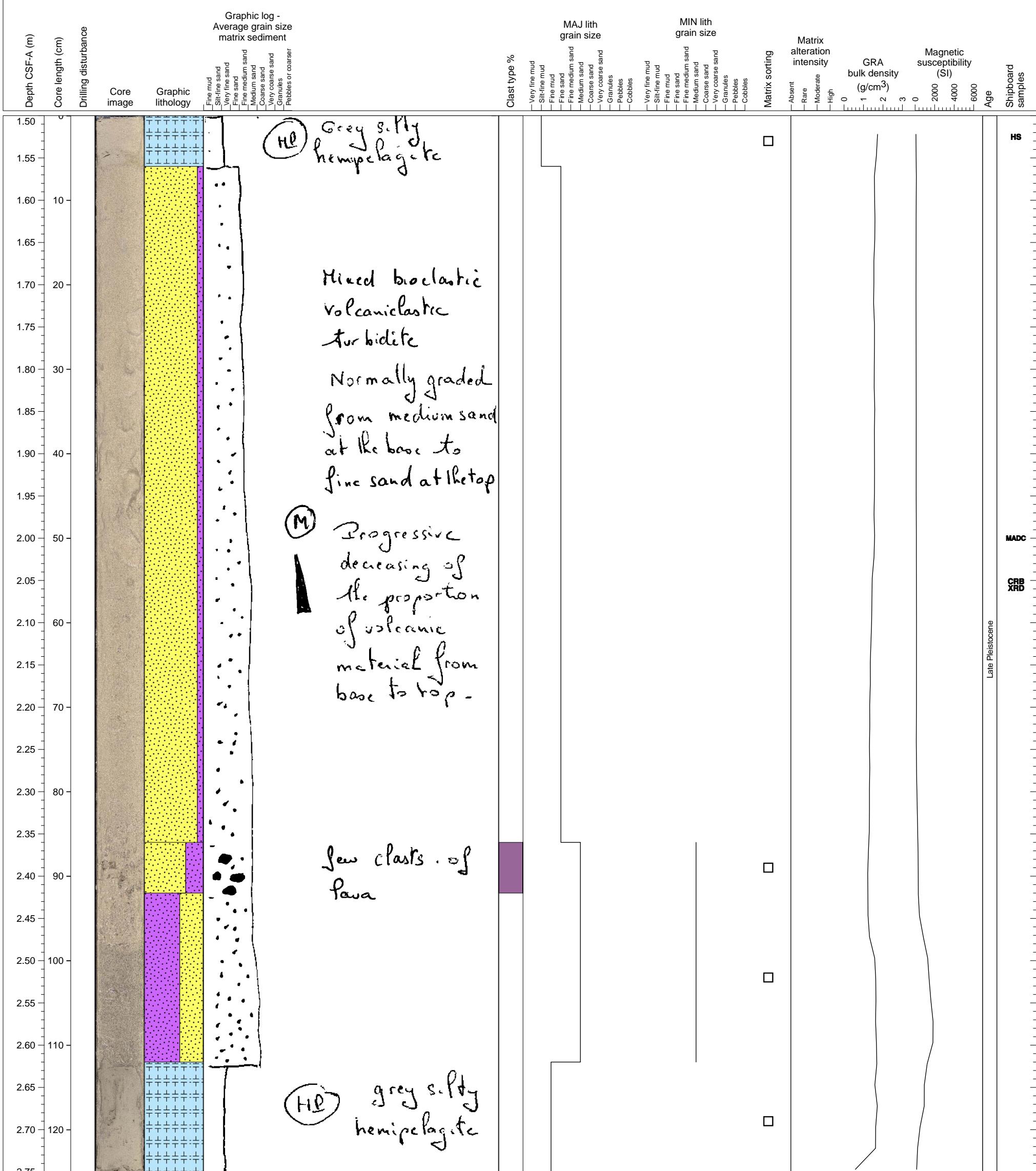


Mostly mottled hemipelagic sediments intercalated with volcaniclastic sand layers and/or turbidites.

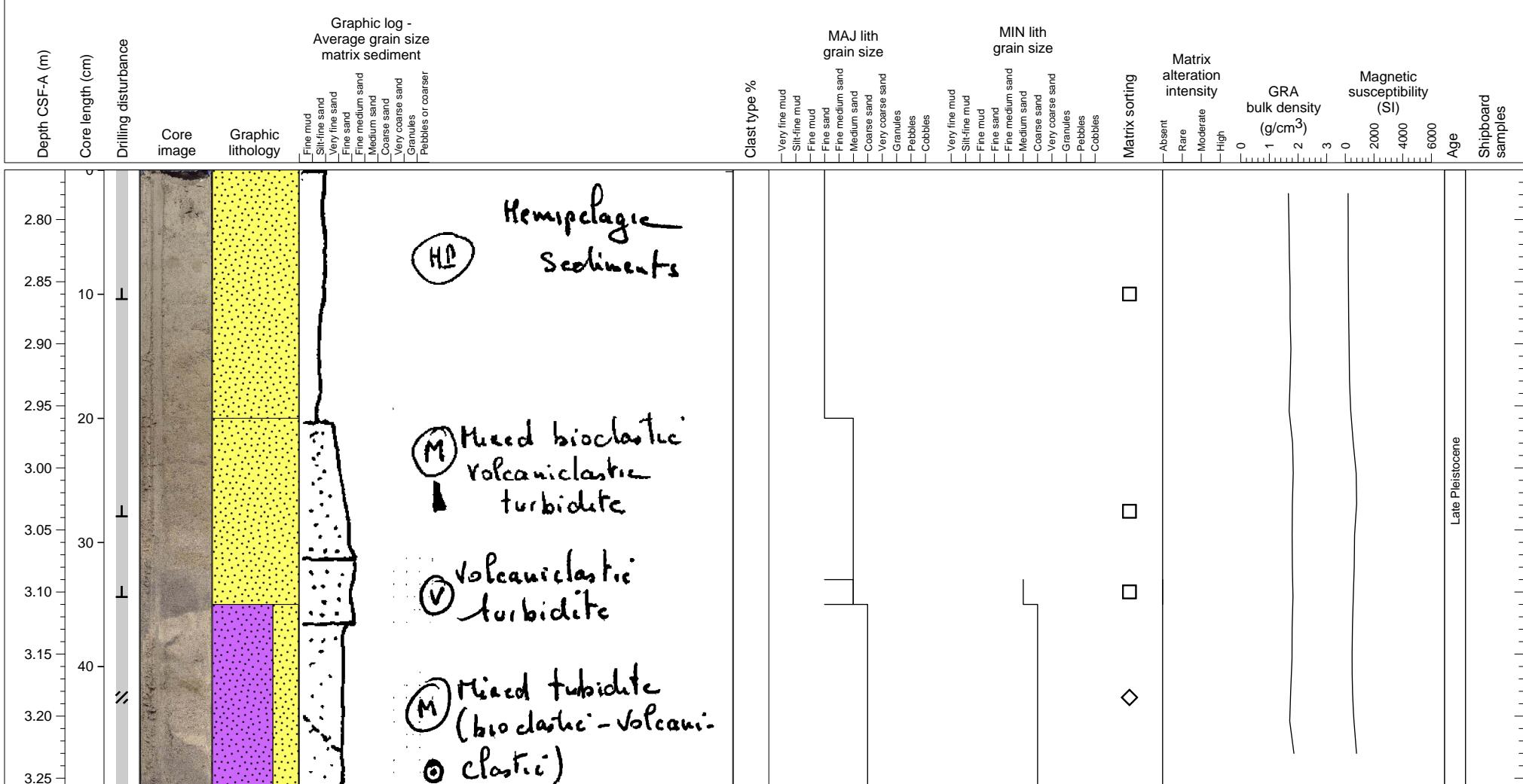


Sample	Top [cm]	Bottom [cm]	Top Depth [m]	Bottom Depth [m]	Groundmass percentage [%]	Groundmass modal grain size [mm]	Groundmass comments	Volcanic grain [%]	Volcanic grain modal size [mm]	Biogenic grain [%]	Mineral grain [%]	Mineral grain modal size [mm]	Lithic grain [%]	Lithic grain modal size [mm]	Olivine present [%]	Olivine size MIN [mm]	Olivine shape	Olivine comment	Plagioclase present [%]	Plagioclase size MAX [mm]	Plagioclase shape	Plagioclase habit	Plagioclase comment	Clinopyroxene present [%]	Clinopyroxene size MAX [mm]	Clinopyroxene shape	Clinopyroxene habit	Clinopyroxene special features	Olivine size MAX [mm]	Olivine shape	Olivine comment	Orthopyroxene present [%]	Orthopyroxene size MAX [mm]	Orthopyroxene habit	Orthopyroxene comments	Amphibolite present [%]	Amphibolite size MAX [mm]	Amphibolite shape	Amphibolite habit	Amphibolite comments	Oxides present [%]	Oxides size MAX [mm]	Oxides shape	Oxides habit	Oxides comments	Quartz present [%]	Quartz size MAX [mm]	Quartz shape	Quartz habit	Comment
340-U1395A-6H-2-W 132/133-TSB-TS#14	0	0.5	71.73	41.735	10	2					90	2.0							40	2	lath	elongate		25	2	lath	elongate		15	1	tabular	equant		15	3	euhedral	equant		5	0.6	subrounded			5	1	subrounded		Grain mount volcaniclastic sand; potentially some carbonate mixed in.		
340-U1395A-14H-CC-W 6/7-TSB-TS#15	0	1	116.89	116.9																																Pumice clast - too thin to properly log.														

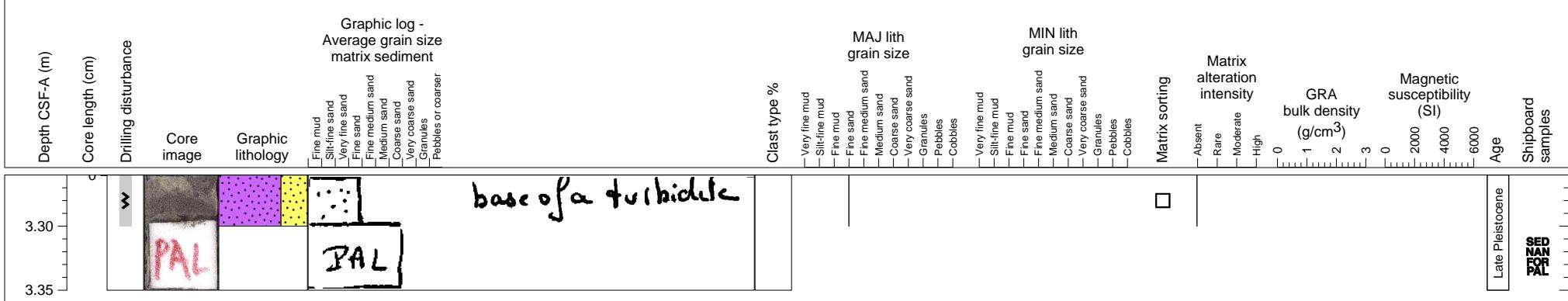
Approximately a 1m thick mixed bioclastic/volcaniclastic turbidite within hemipelagic sediments.



Hemipelagic sediments with two turbidite sands, one carbonate, the other mixed volcanioclastic-bioclastic sand.

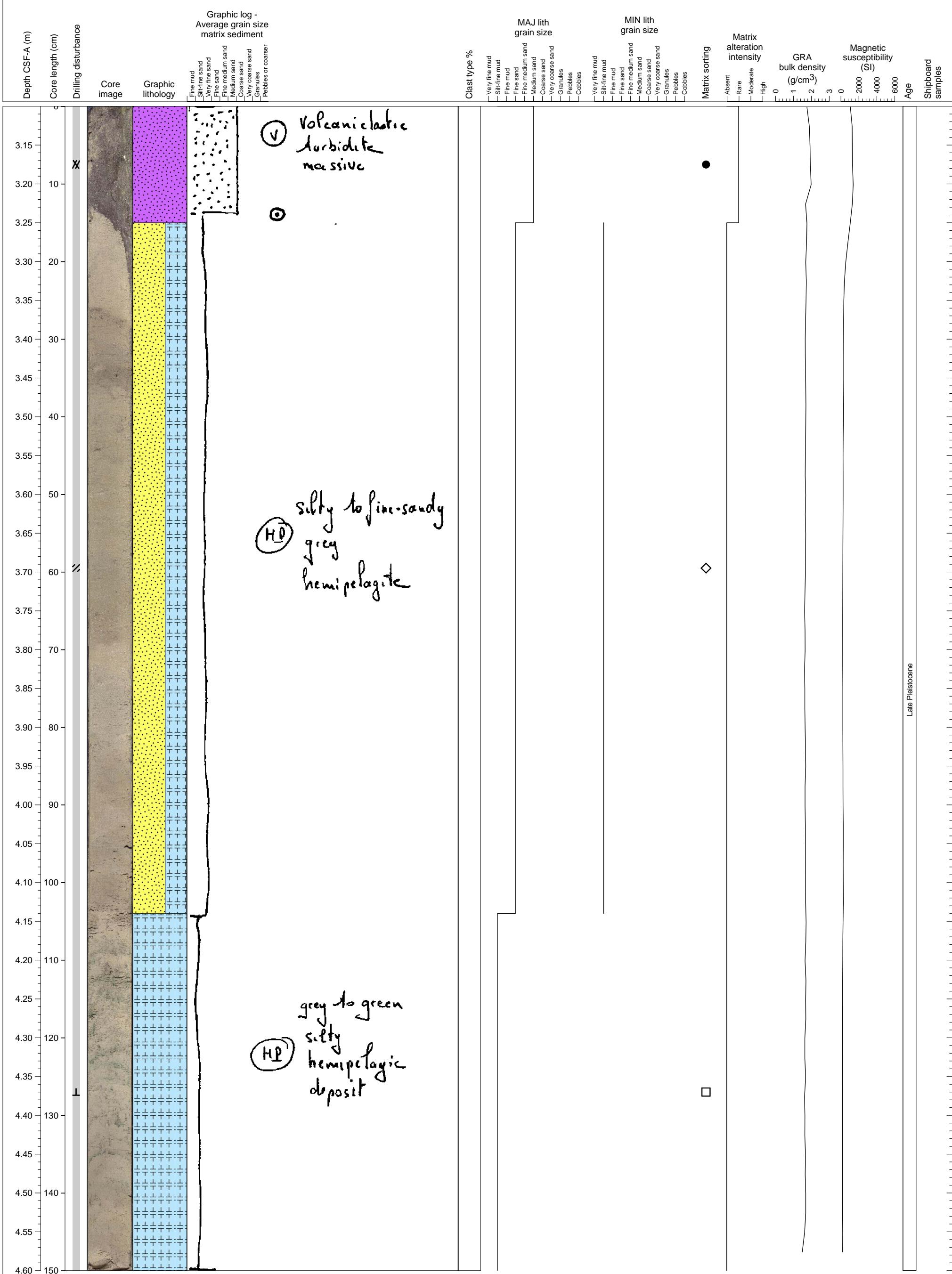


Mixed volcaniclastic-bioclastic sand. Bioturbated and disturbed.

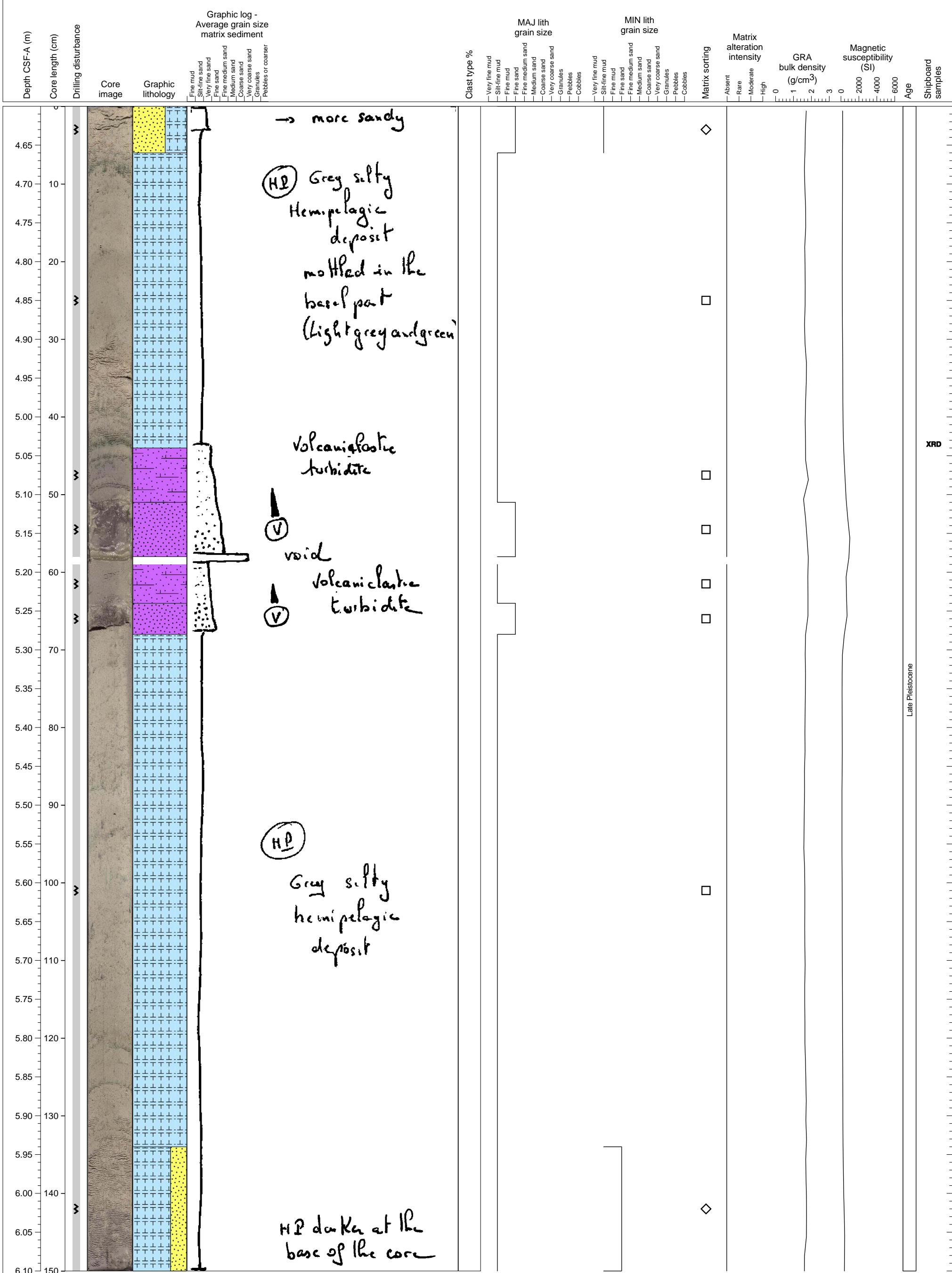


Hole 340-U1395A-2H Section 1, Top of Section: 3.1 CSF-A (m)

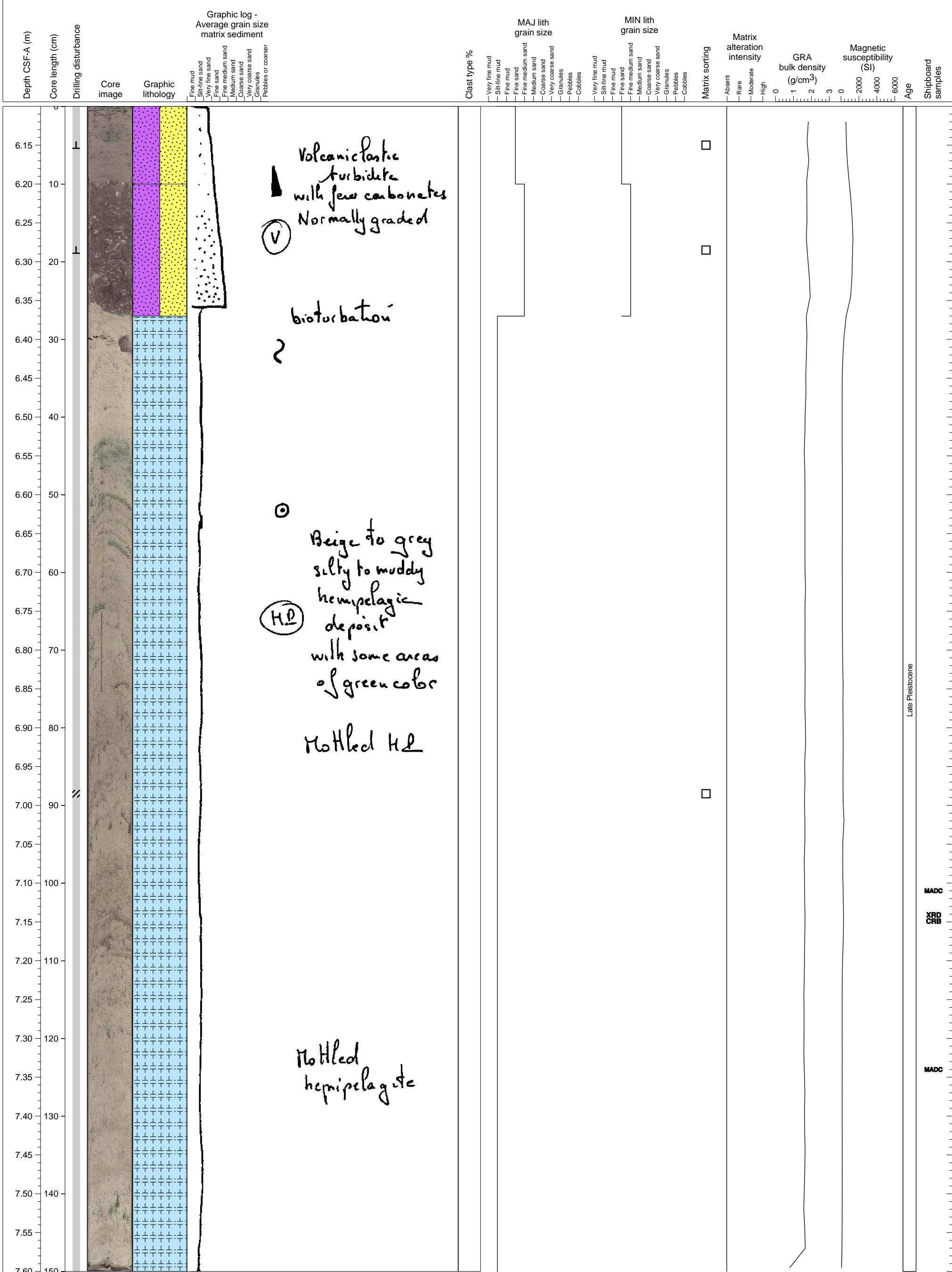
Mottled, grey colored hemipelagic sediments, top 15 cm depth is occupied by volcanioclastic turbidite.



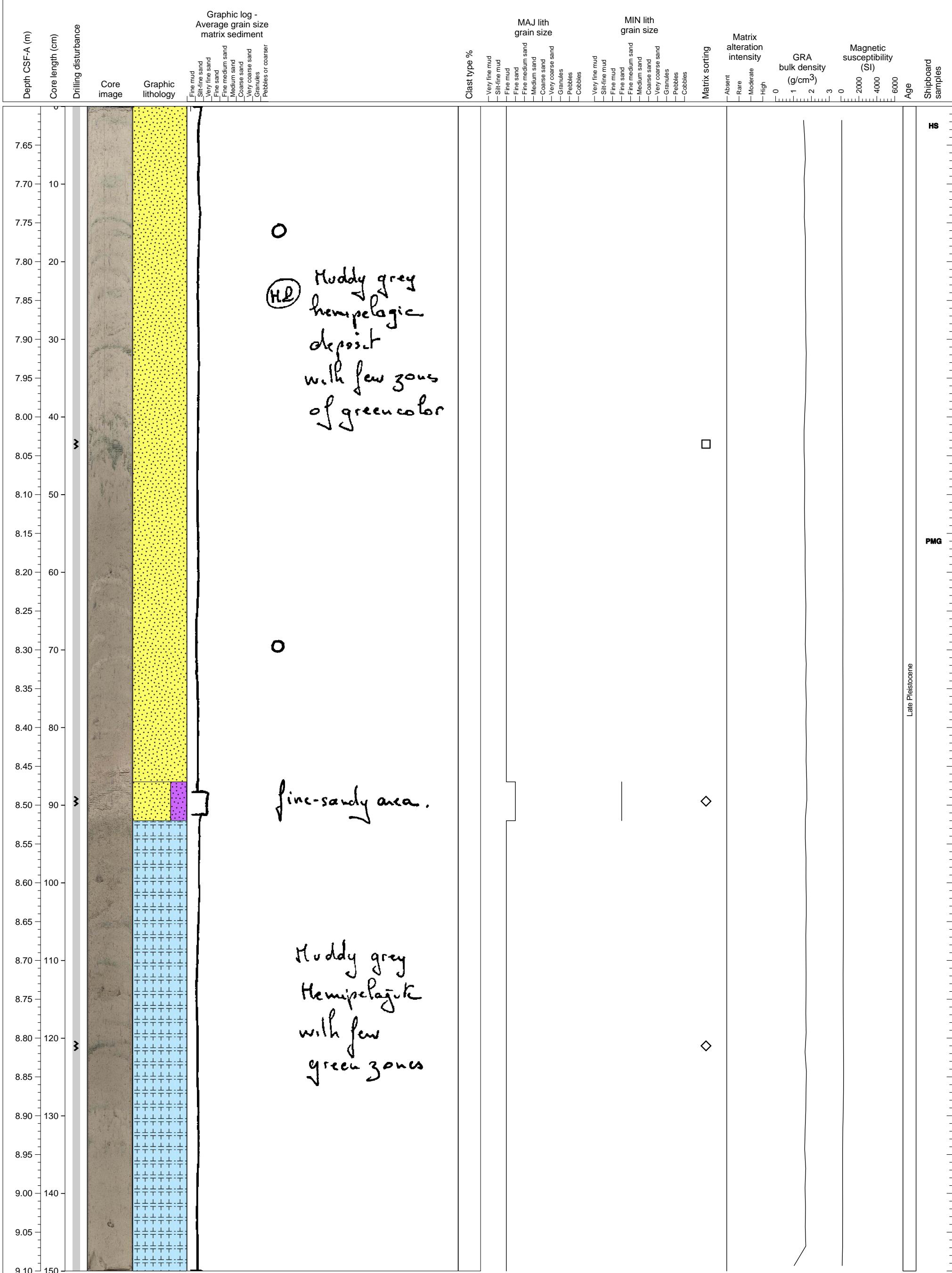
Hemipelagic sediments with two units of volcanioclastic turbidites.



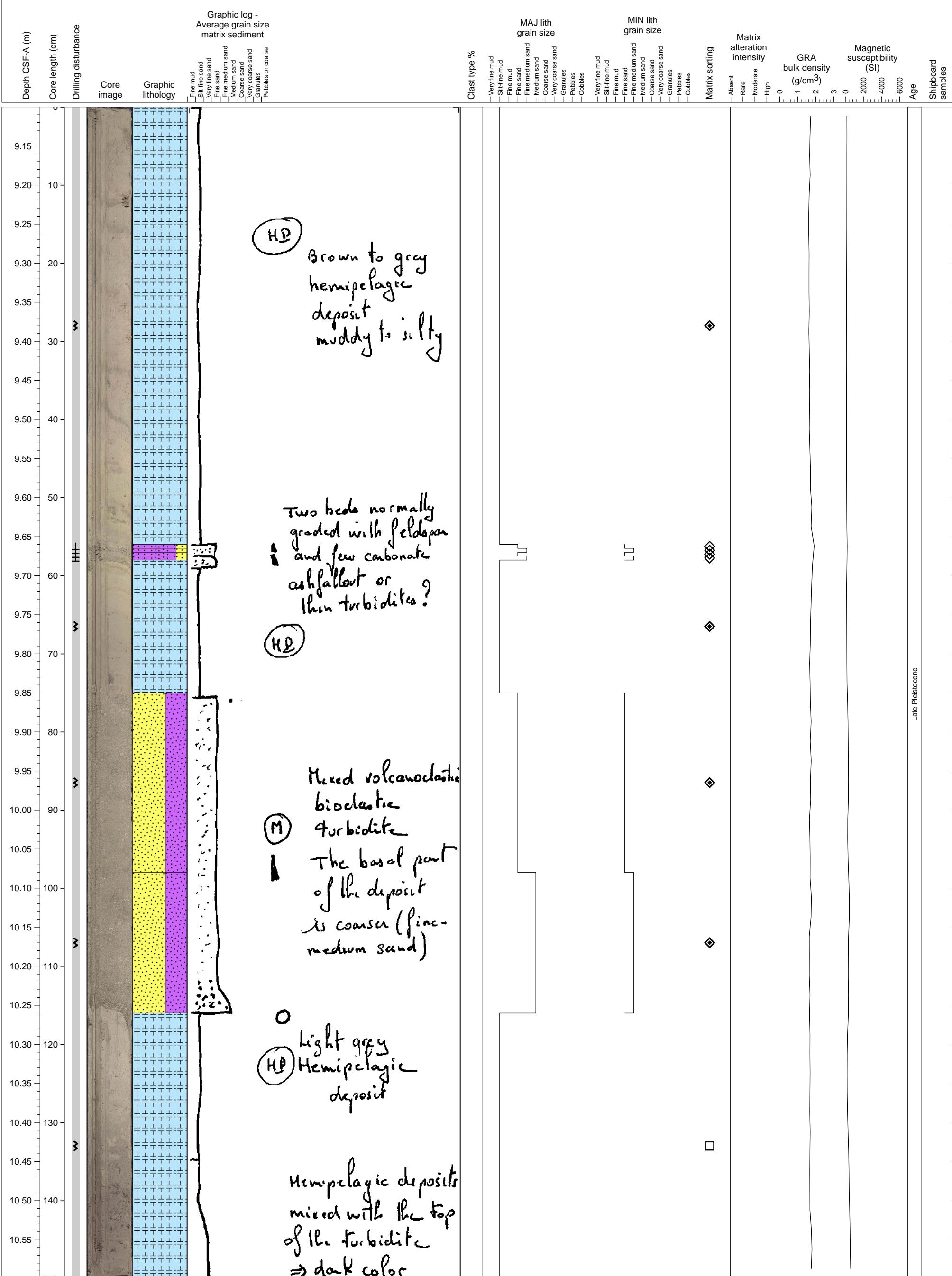
Two thin mixed volcaniclastic-bioclastic turbidites overlying a thick hemipelagic sediment.



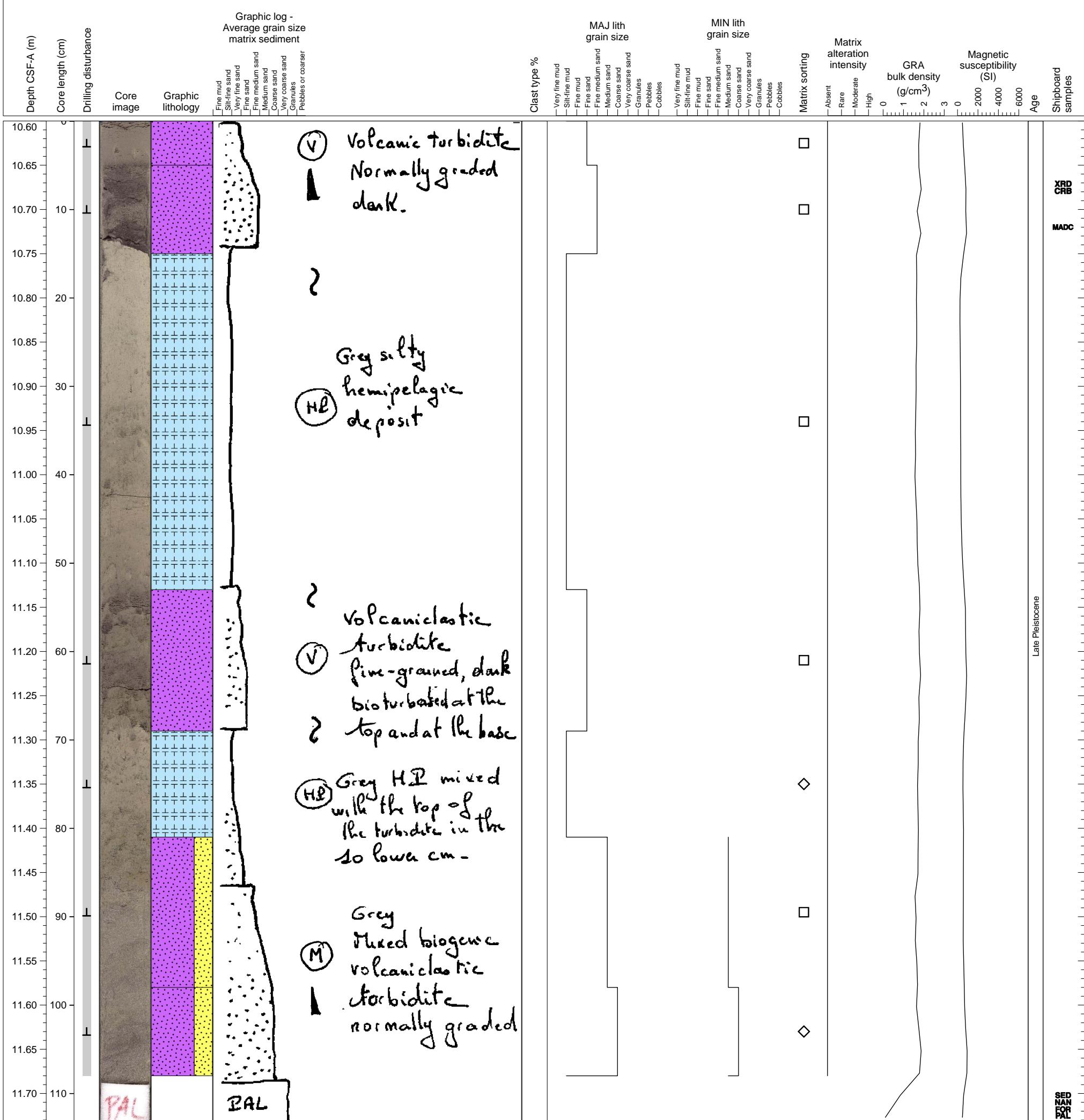
Hemipelagic sediments.



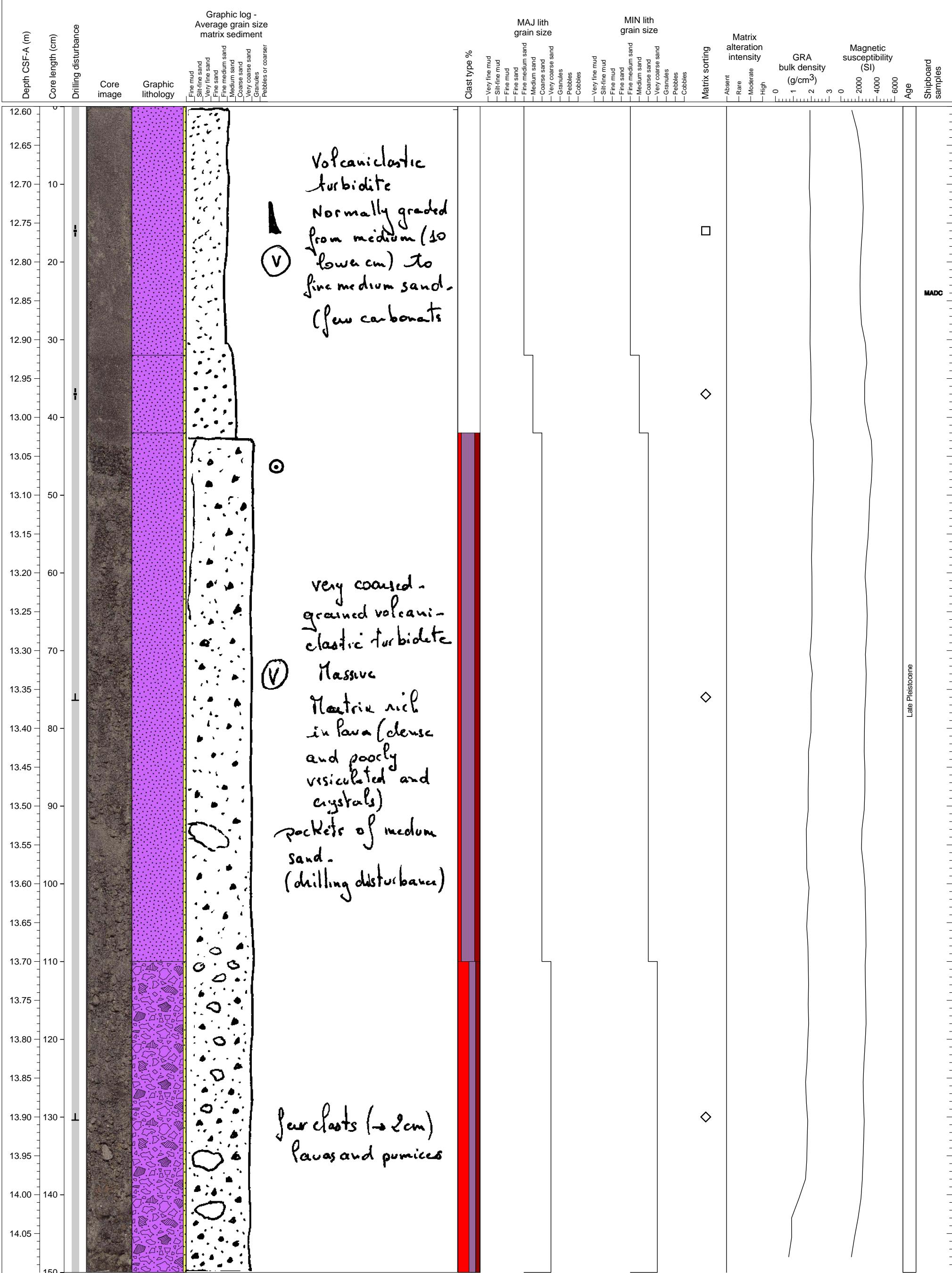
Hemipelagic sediments interbedded with mixed volcanoclastic-bioclastic turbidites.



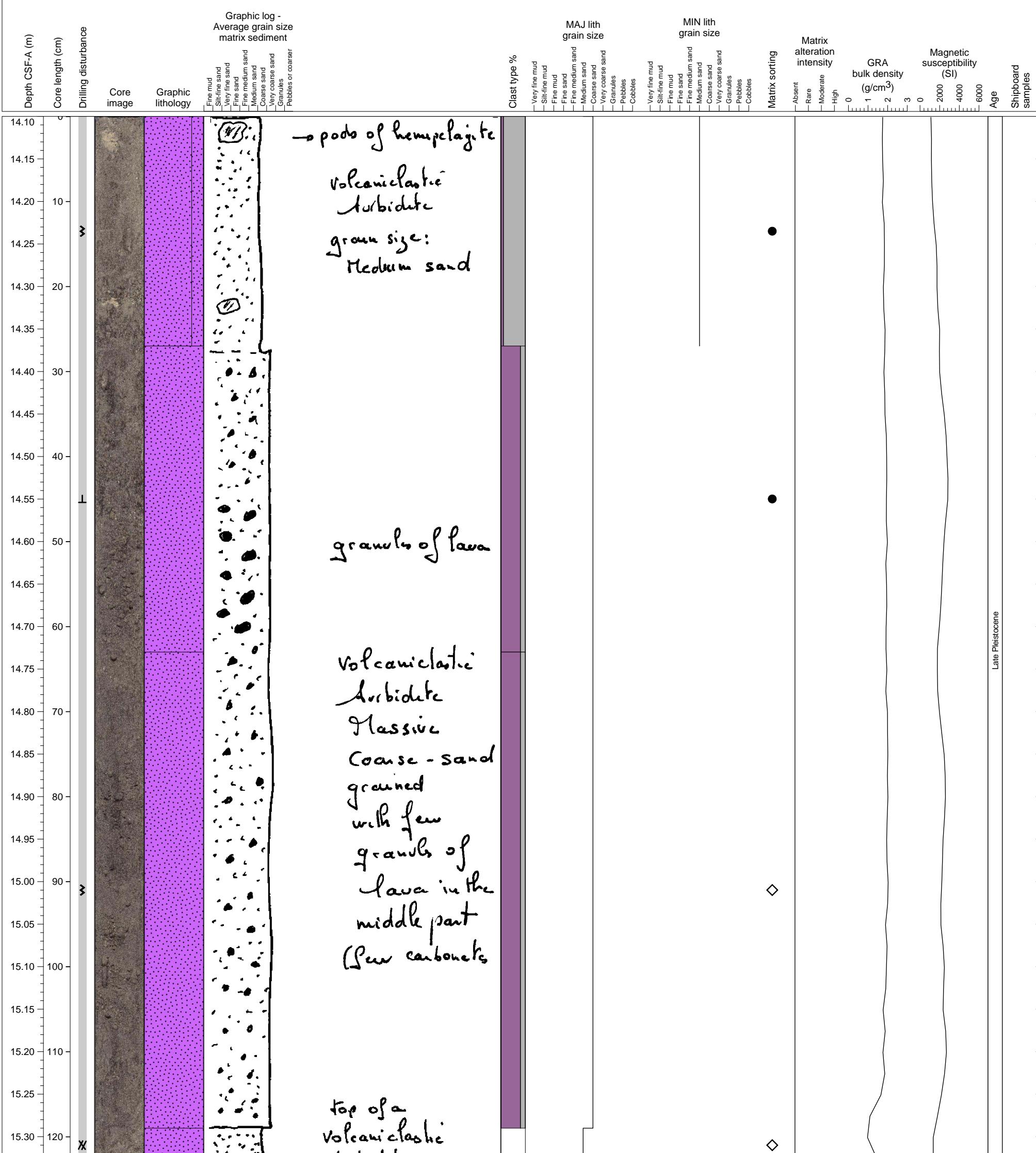
Predominantly volcanioclastic and mixed volcanioclastic/bioclastic turbidites, with thin hemipelagic sediments interbedded.



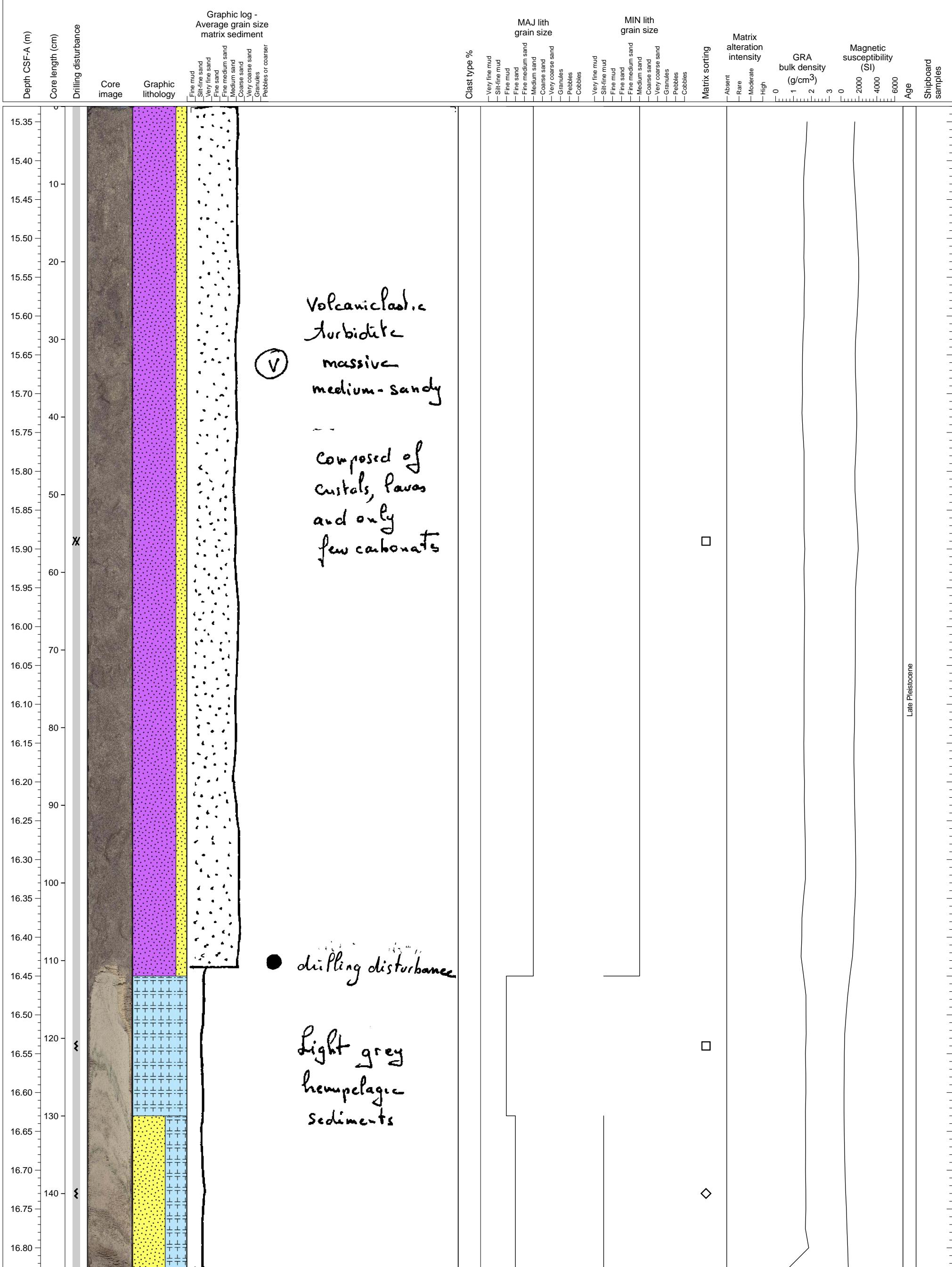
Two volcaniclastic turbidites, with very minor component of carbonate material.



Poorly to moderately sorted volcanioclastic turbidites.



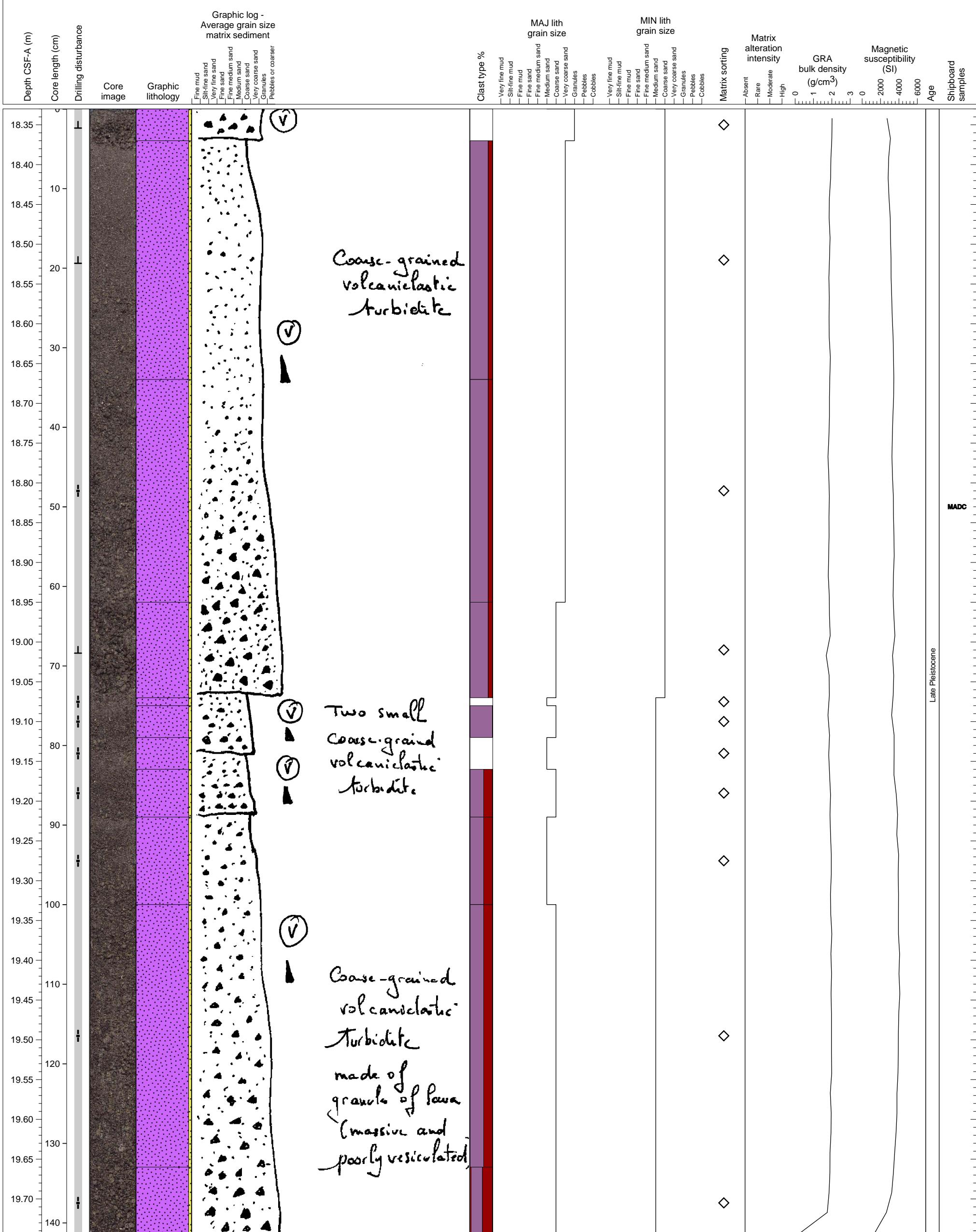
Bottom unit of volcanioclastic turbidite overlying hemipelagic fines.



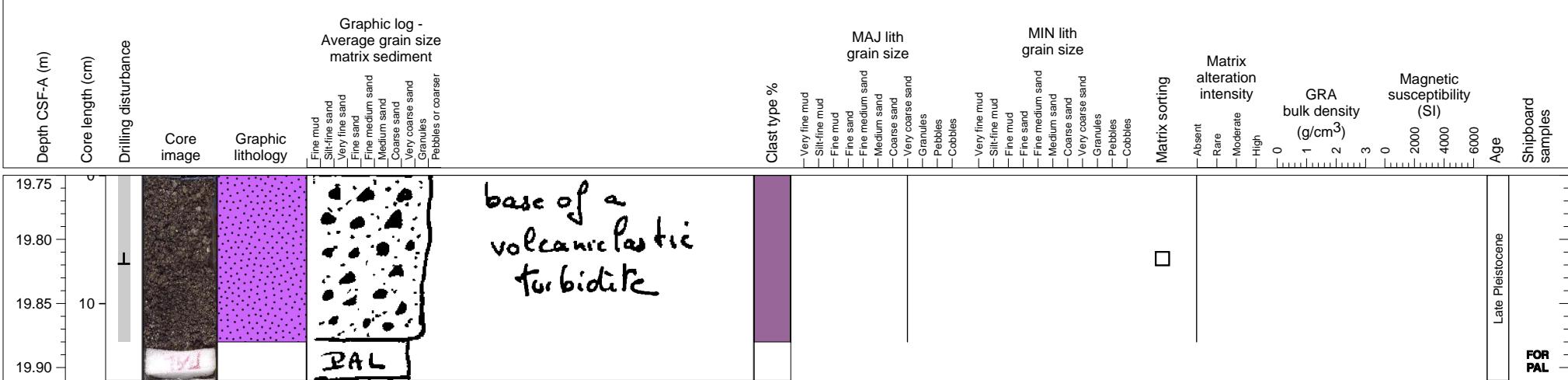
Multistoried, medium to very coarse-grained volcaniclastic turbidites.



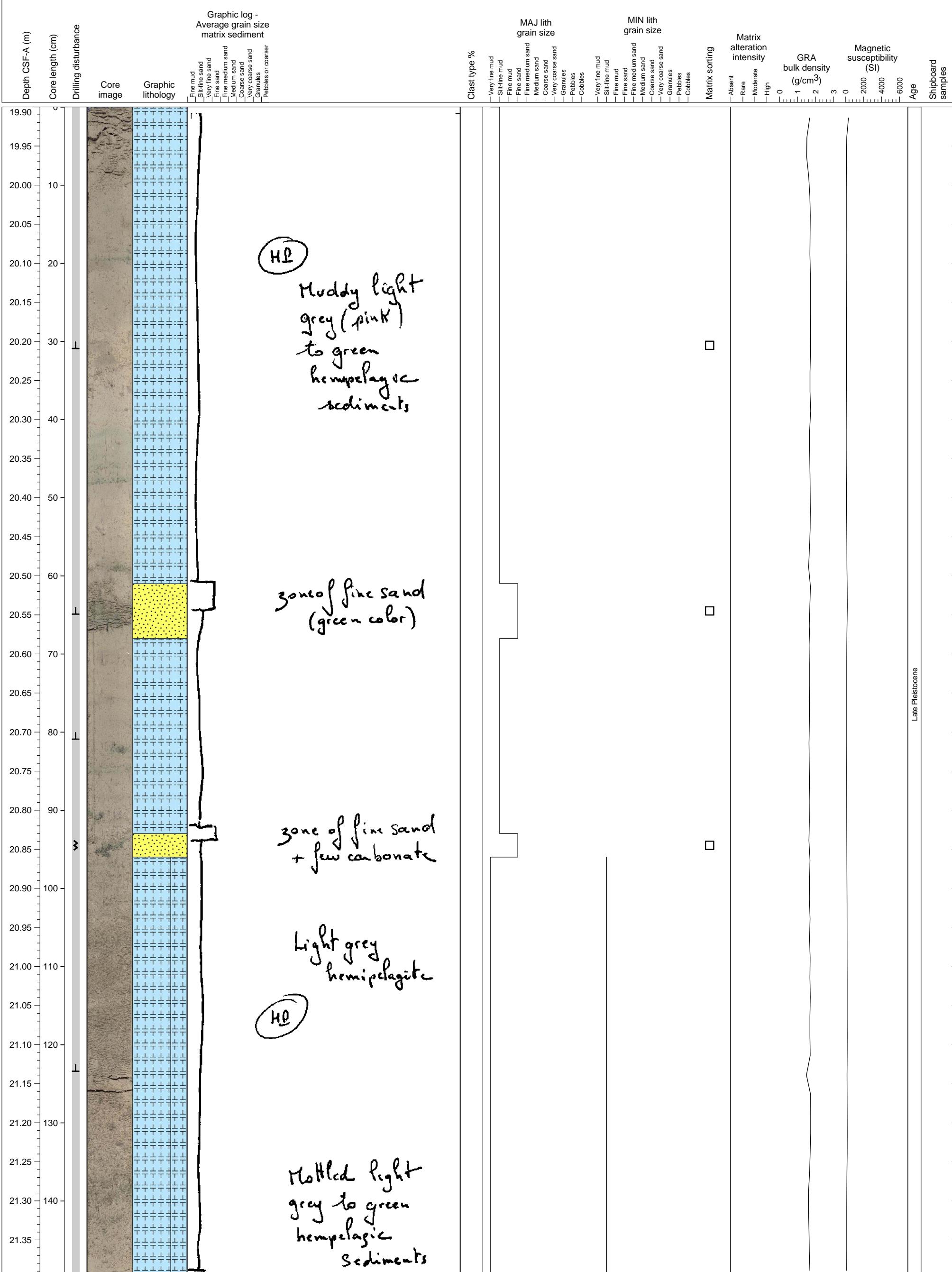
Series of stacked volcanioclastic turbidite sands, all with minor bioclastic material. All normally graded and massive. Lower two have more clasts, mostly dense lava.



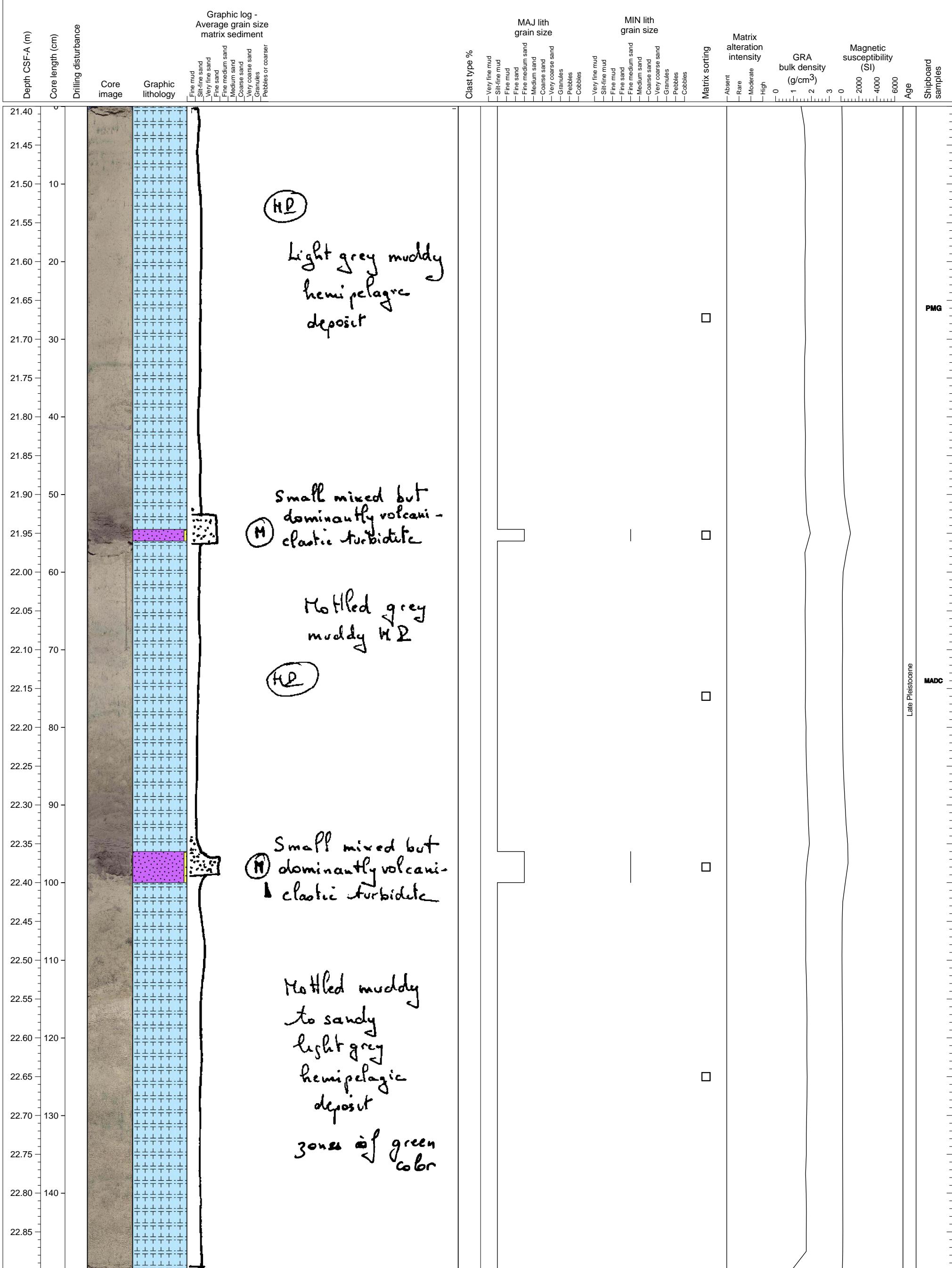
Volcaniclastic sand with 5% granule clasts of volcanics.



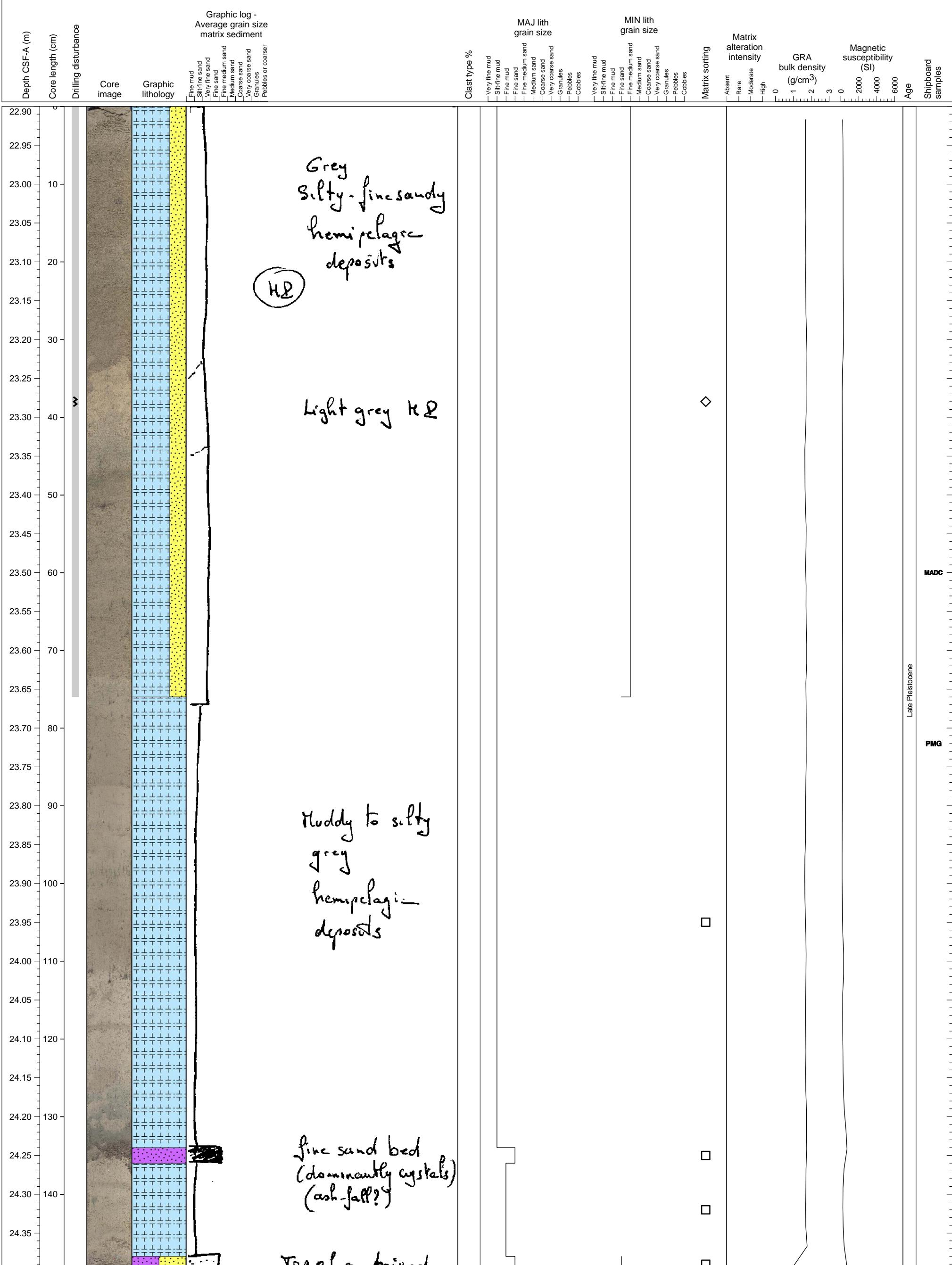
Mottled, fine grained hemipelagic sediments with thin green layers.



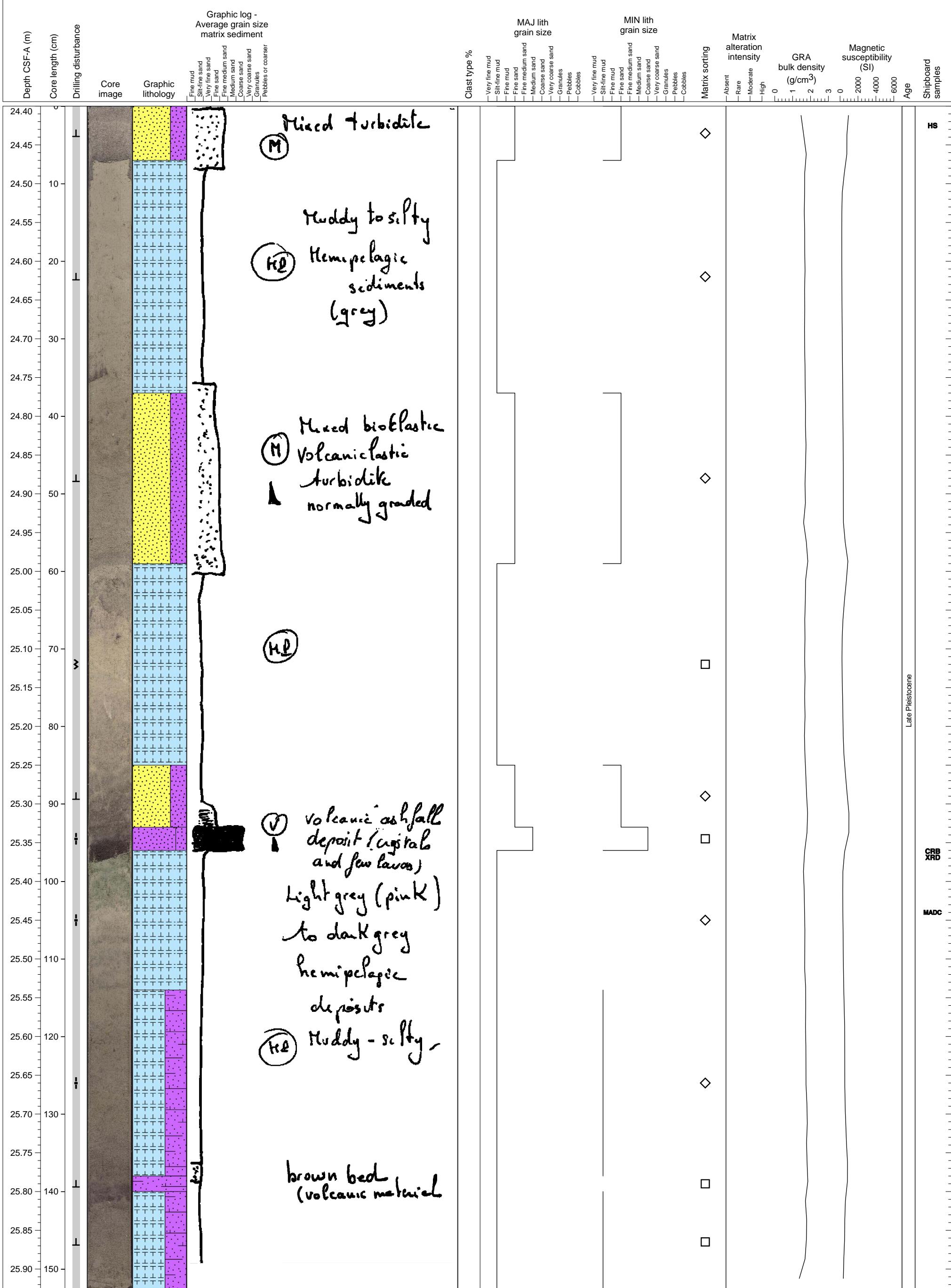
Predominantly hemipelagic sediments with two thin mixed volcaniclastic-bioclastic turbidite sands.



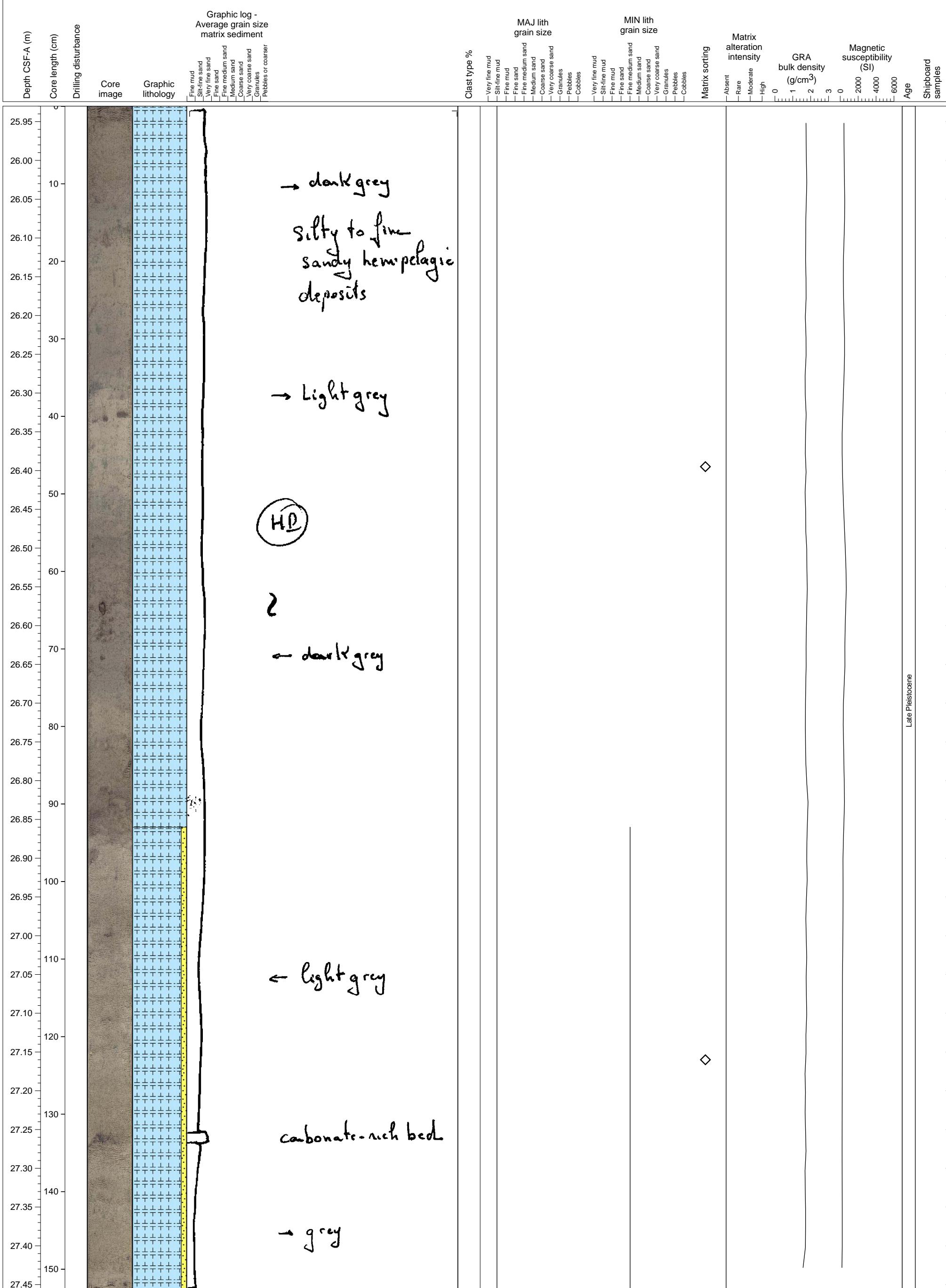
Mainly composed of hemipelagic fine sediments.



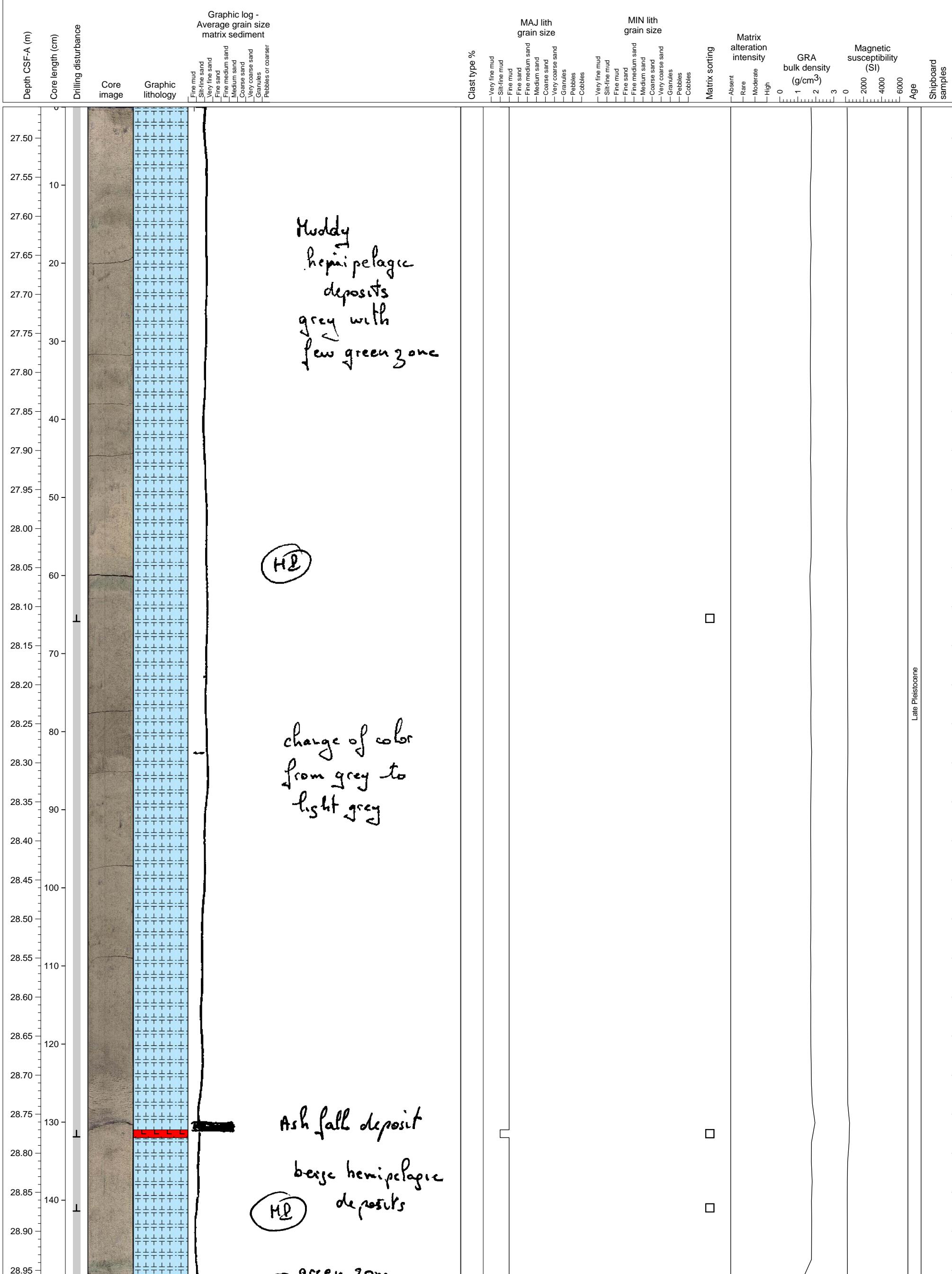
Alternation of hemipelagic sediment and mixture of bioclastic and volcaniclastic materials and occasionally intercalated with volcaniclastics.



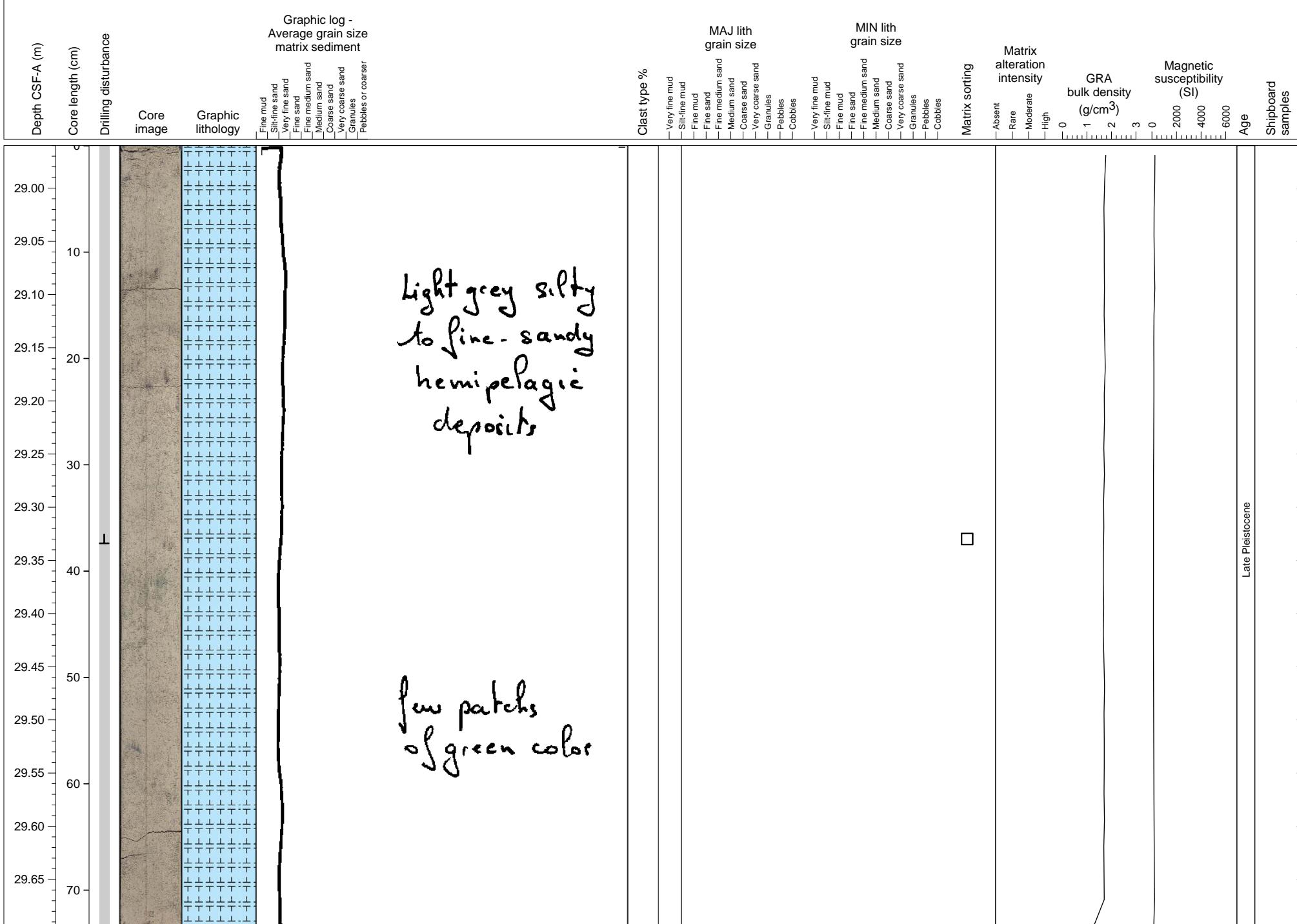
Hemipelagic sediments.



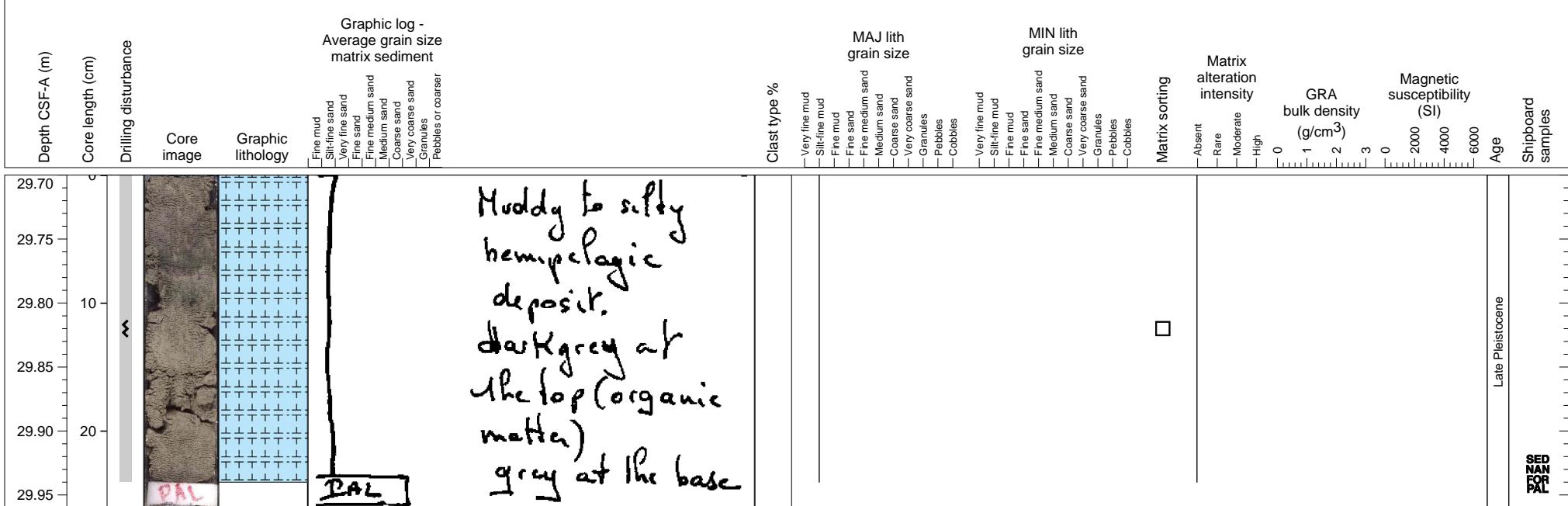
Thick hemipelagic sediment with a very thin ash layer.



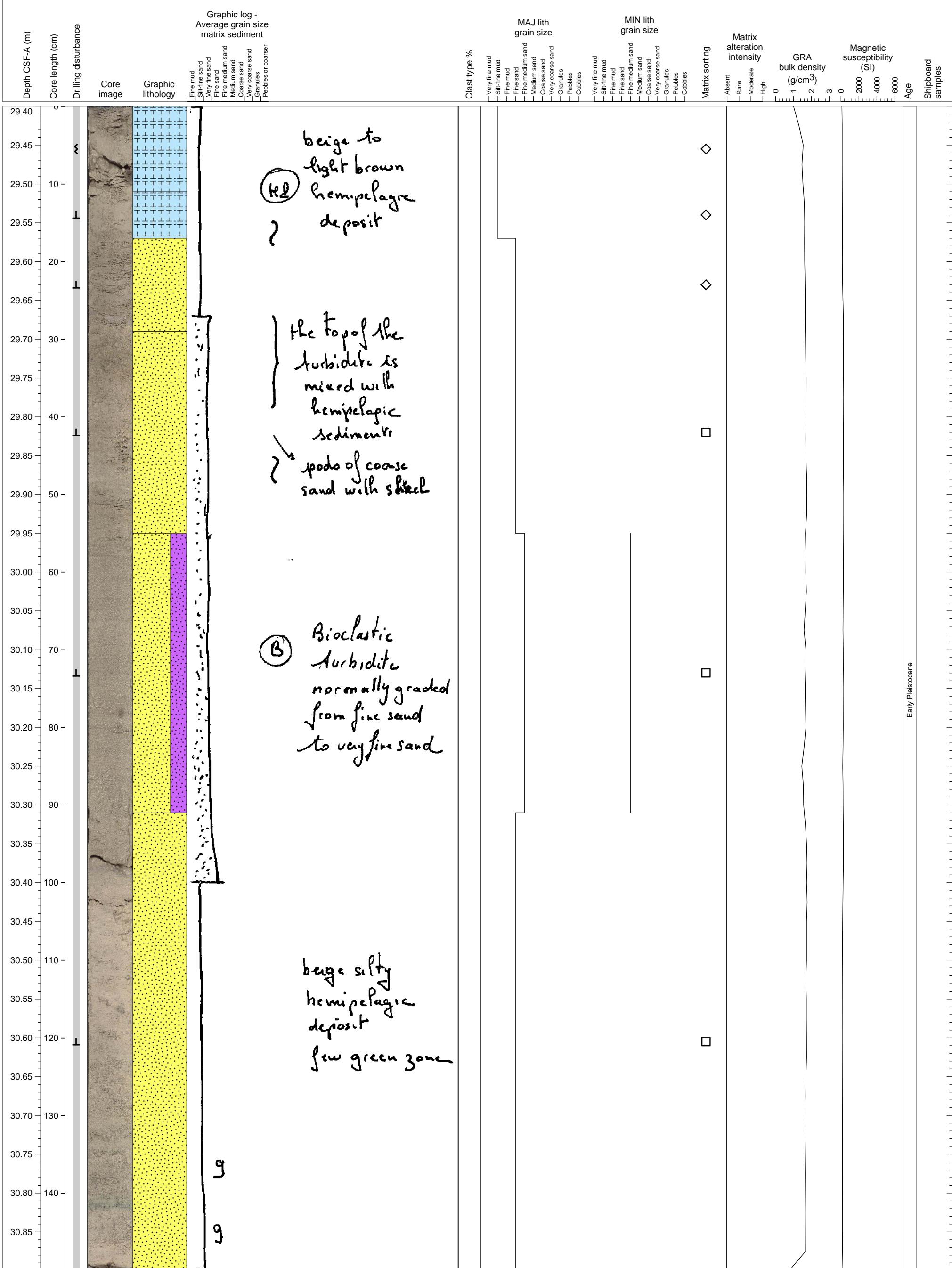
Hemipelagic sediment.



Hemipelagic sediment.

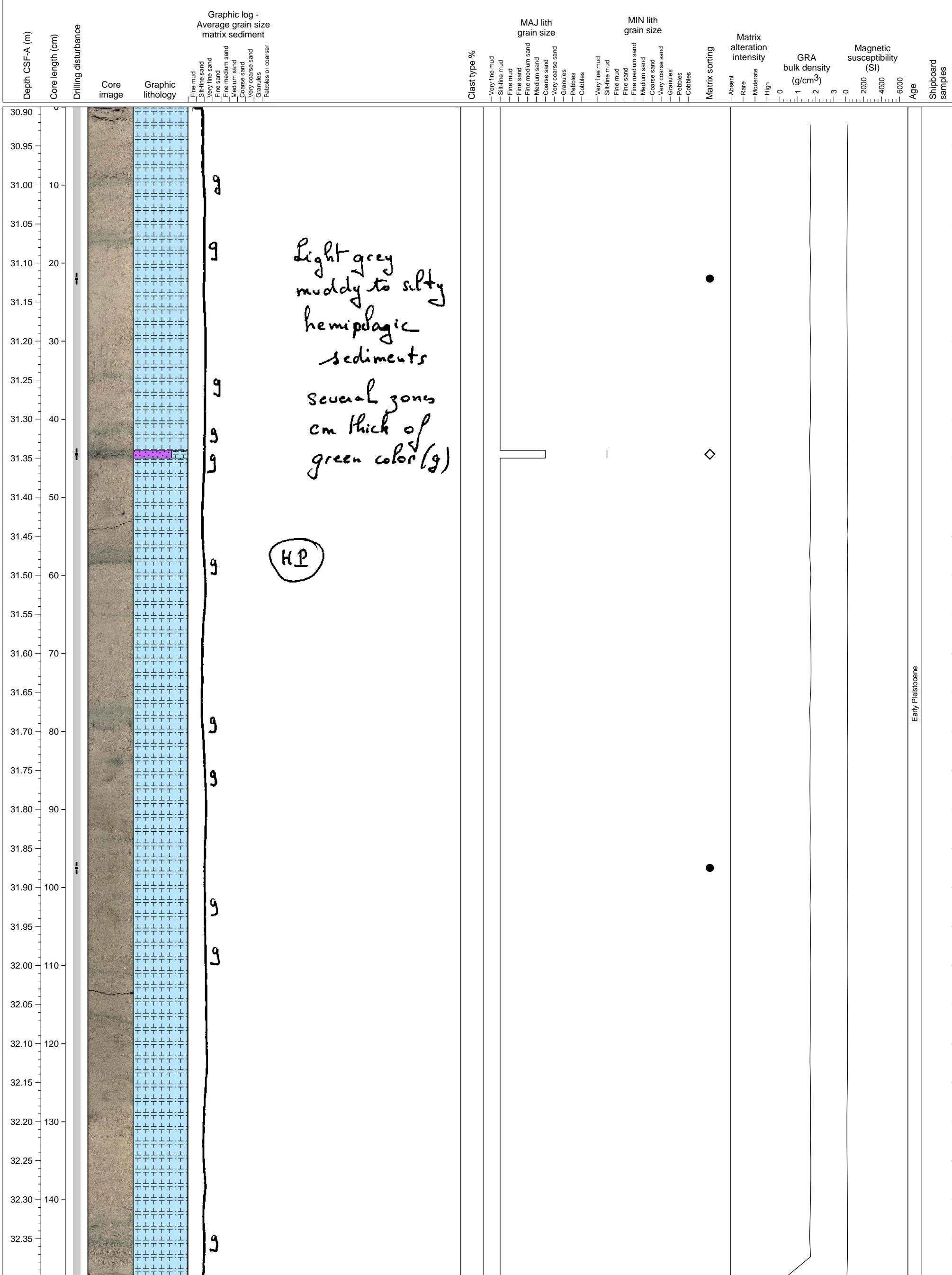


Predominantly hemipelagic sediments, some fine sand, with a mixed carbonate-volcaniclastic turbidite.

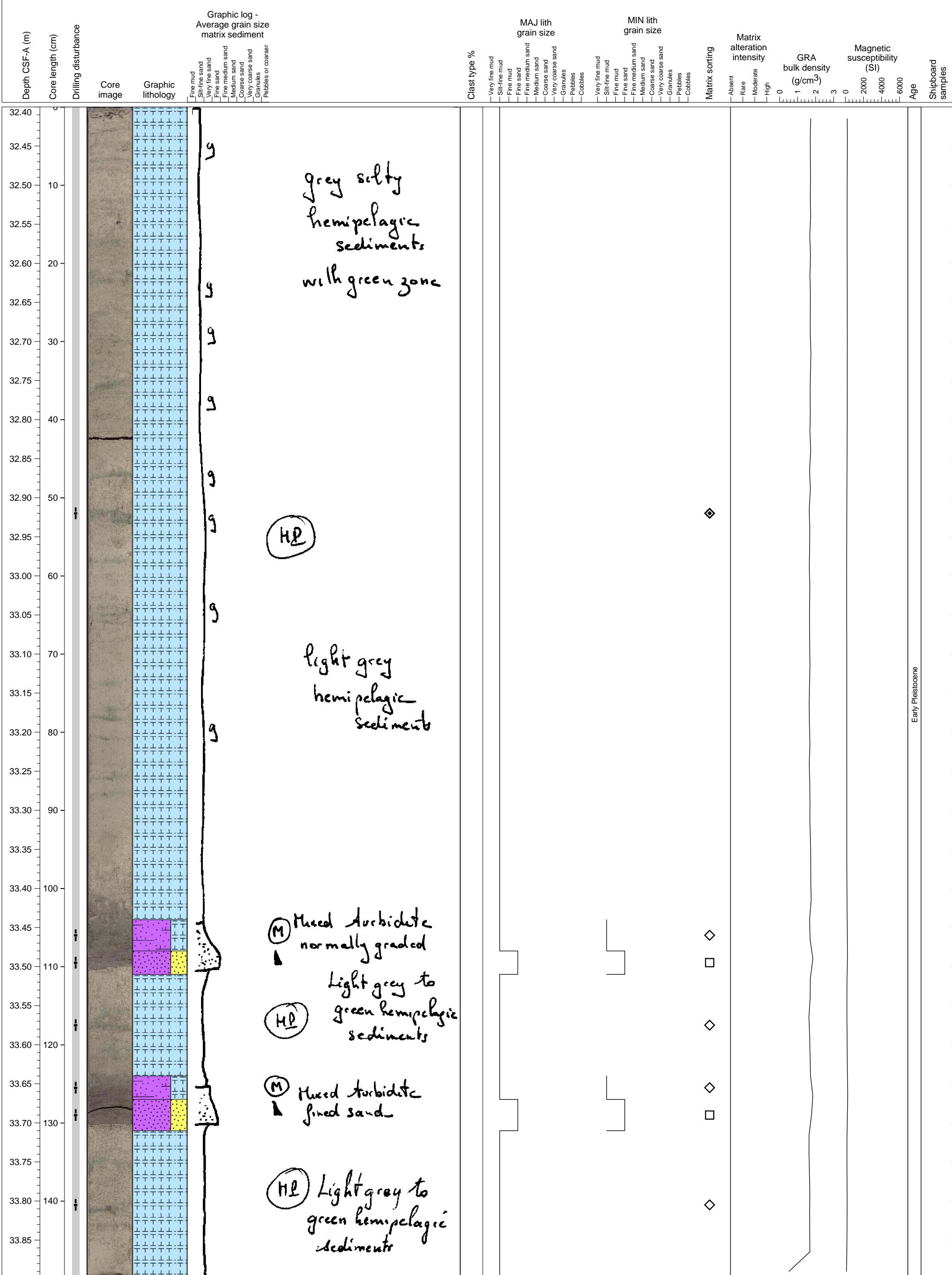


Hole 340-U1395A-5H Section 2, Top of Section: 30.9 CSF-A (m)

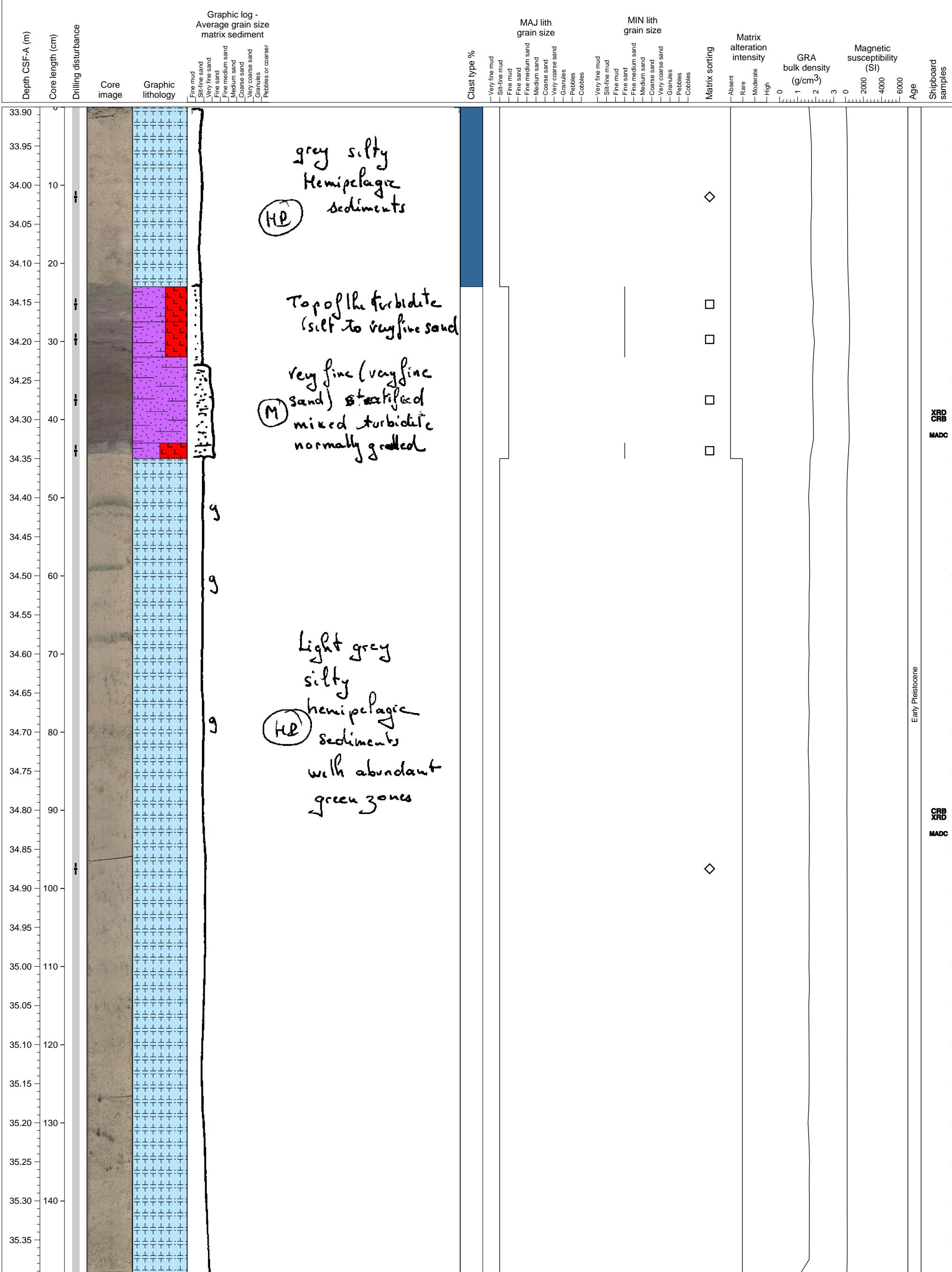
Silty-muddy hemipelagic sediments with greenish colored bands, and with a potential tephra layer.



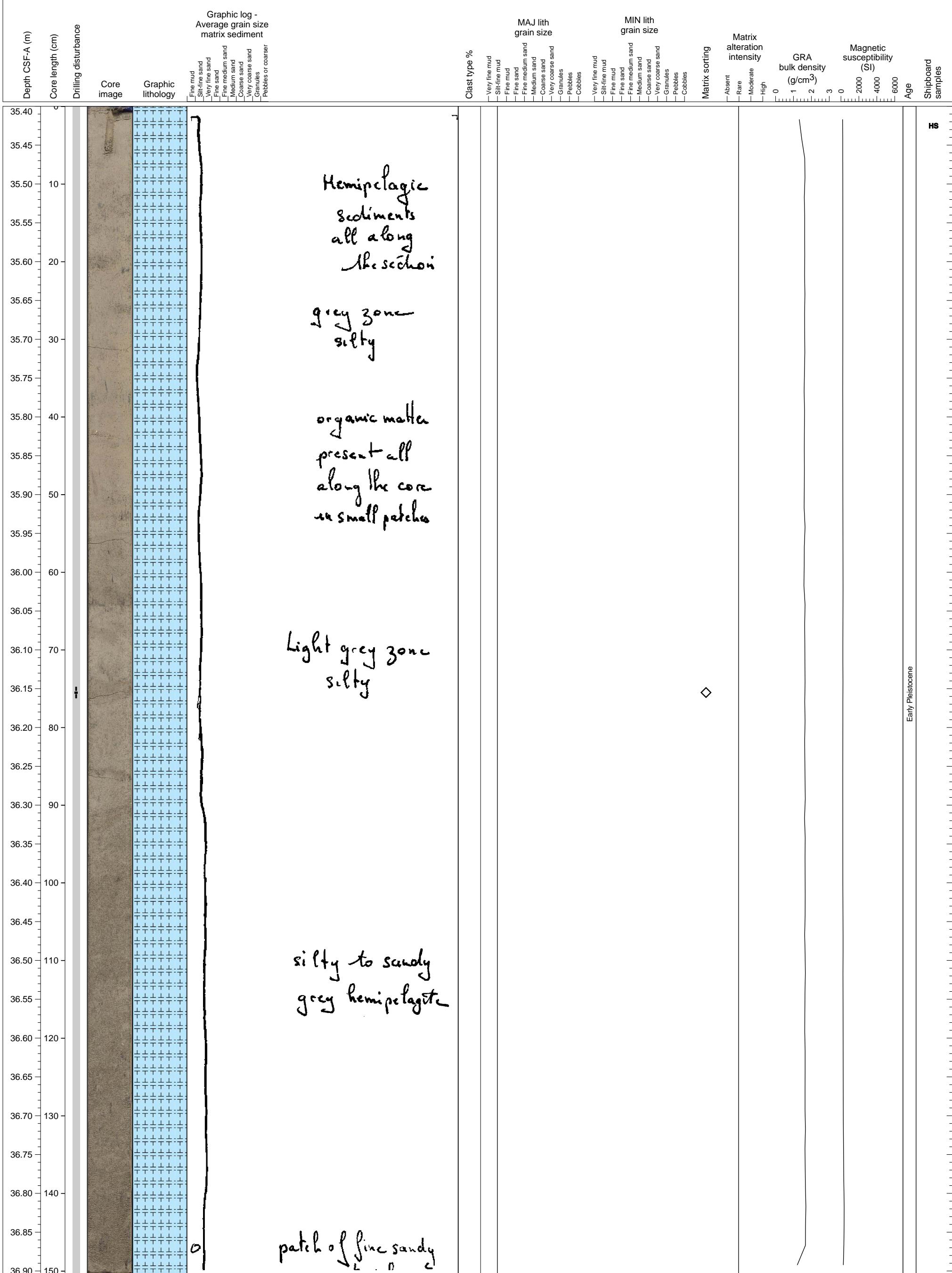
Hemipelagic sediments with thin layers of mixed bioclastic and volcanioclastic turbidites.



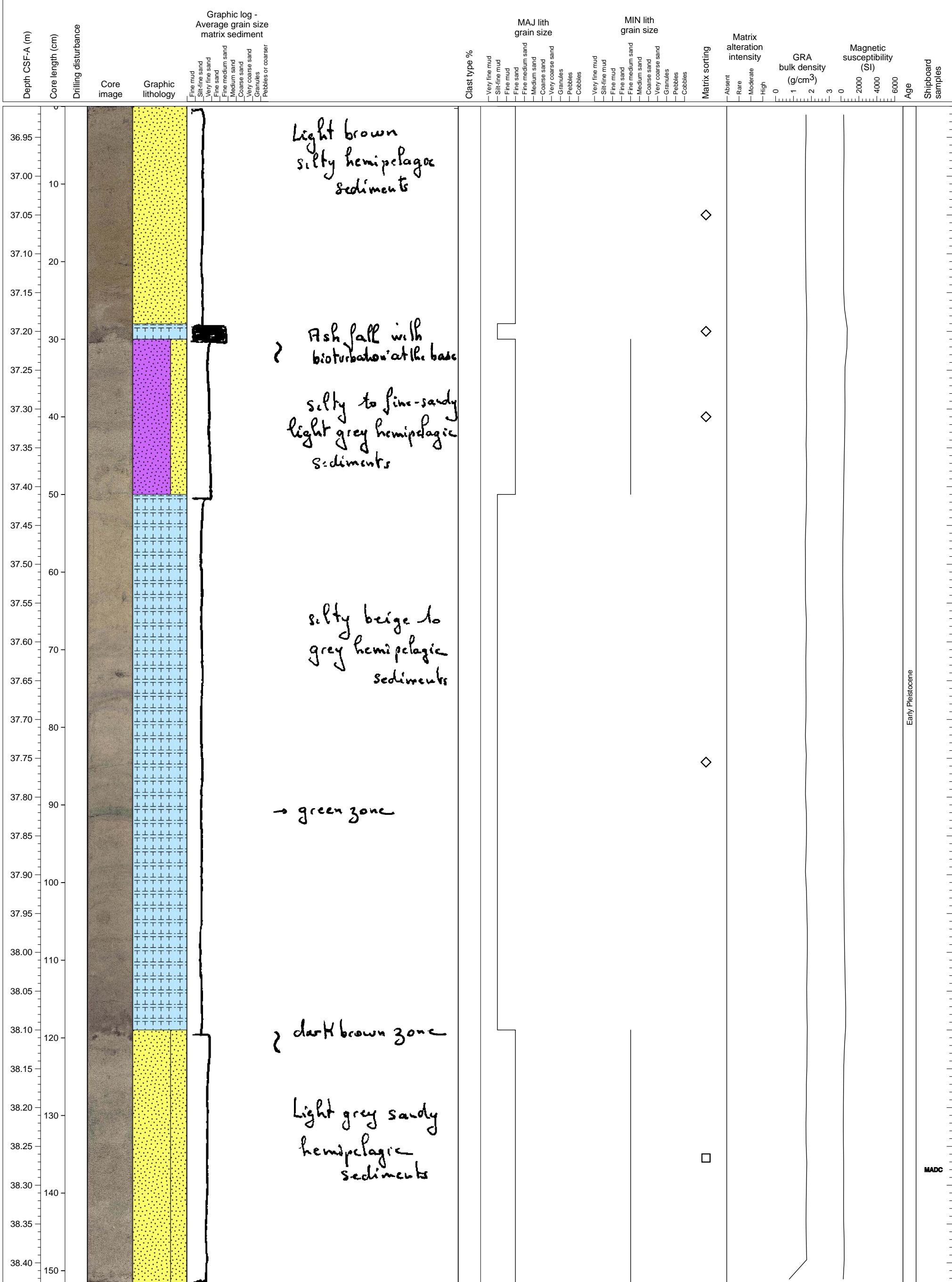
Hemipelagic sediment, one mixed turbidite.



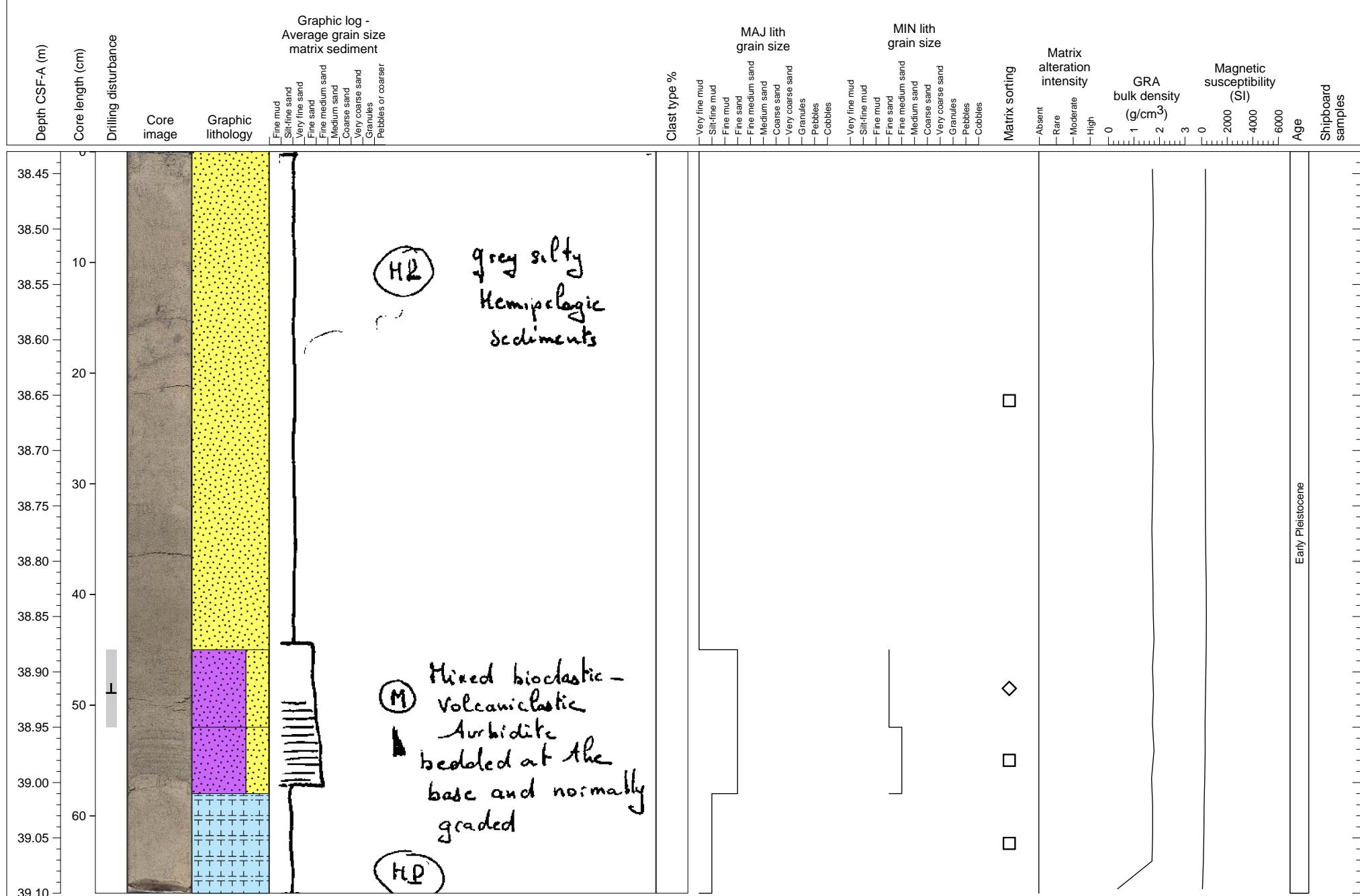
Pale yellowish gray colored hemipelagic carbonate ooze with disperse greenish layers, tiny black organic clasts and sandy patches. Clast content is less than 0.5 %.



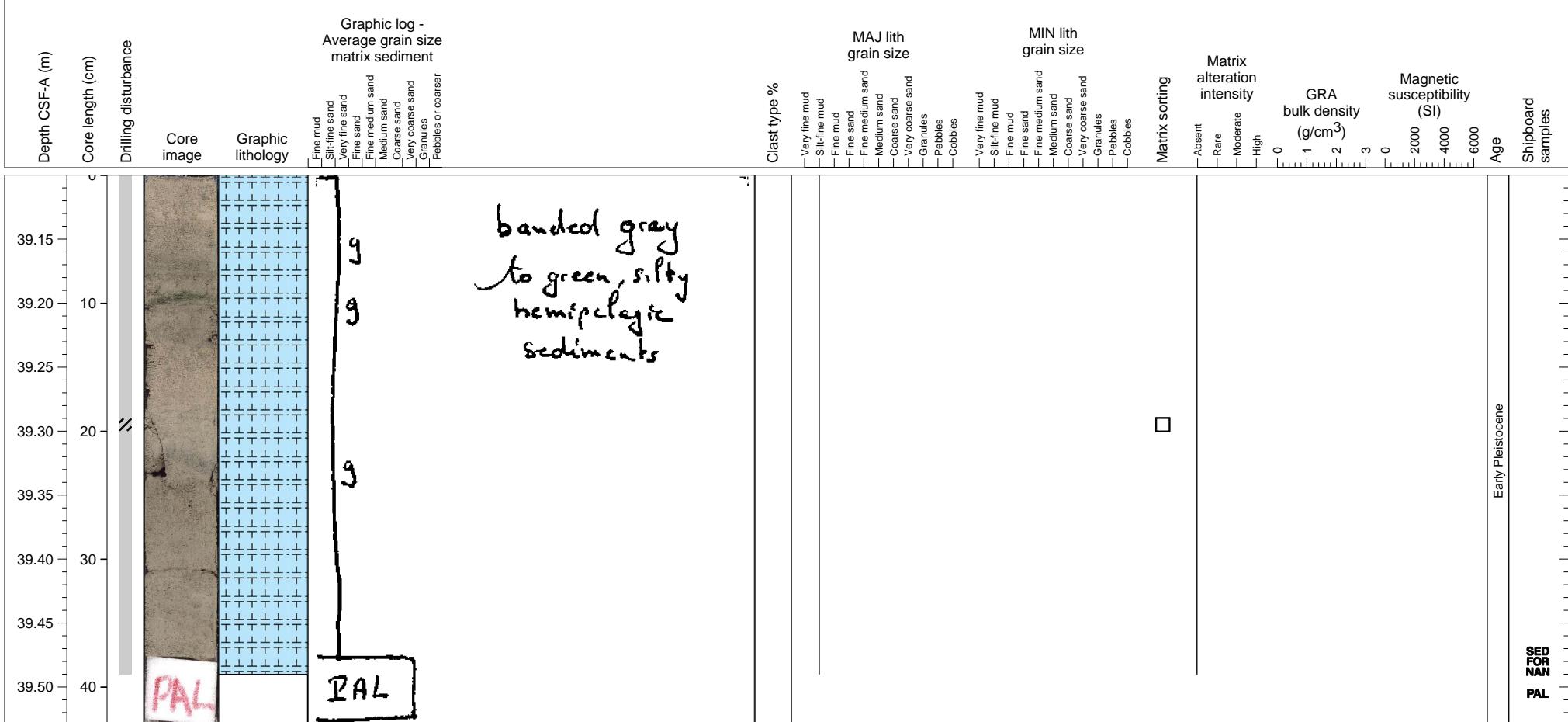
Hemipelagic sediments with one ashfall layer intercalation.



Hemipelagic sediment with a thinly bedded, normally graded sandy turbidite

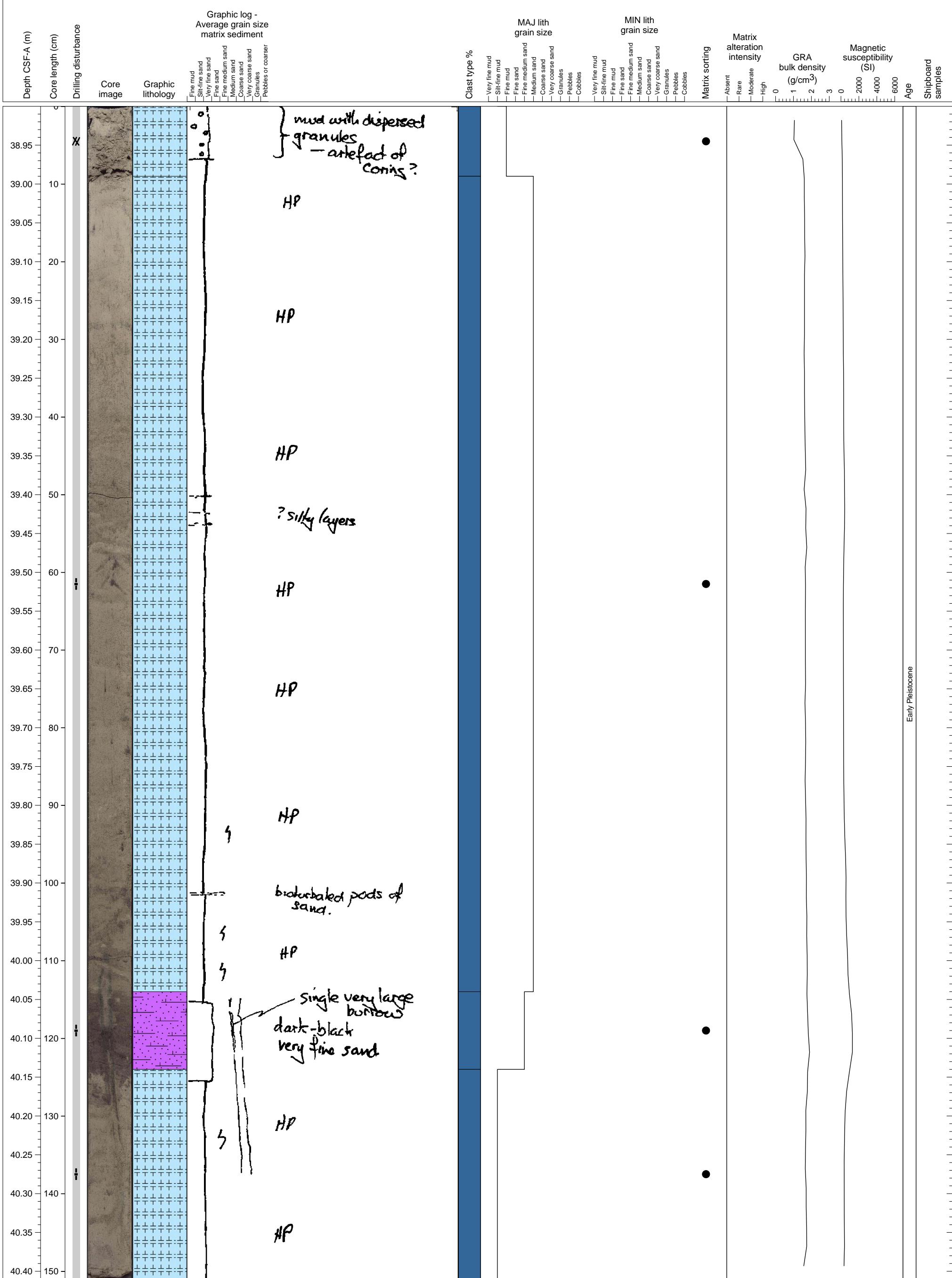


Hemipelagic sediment.

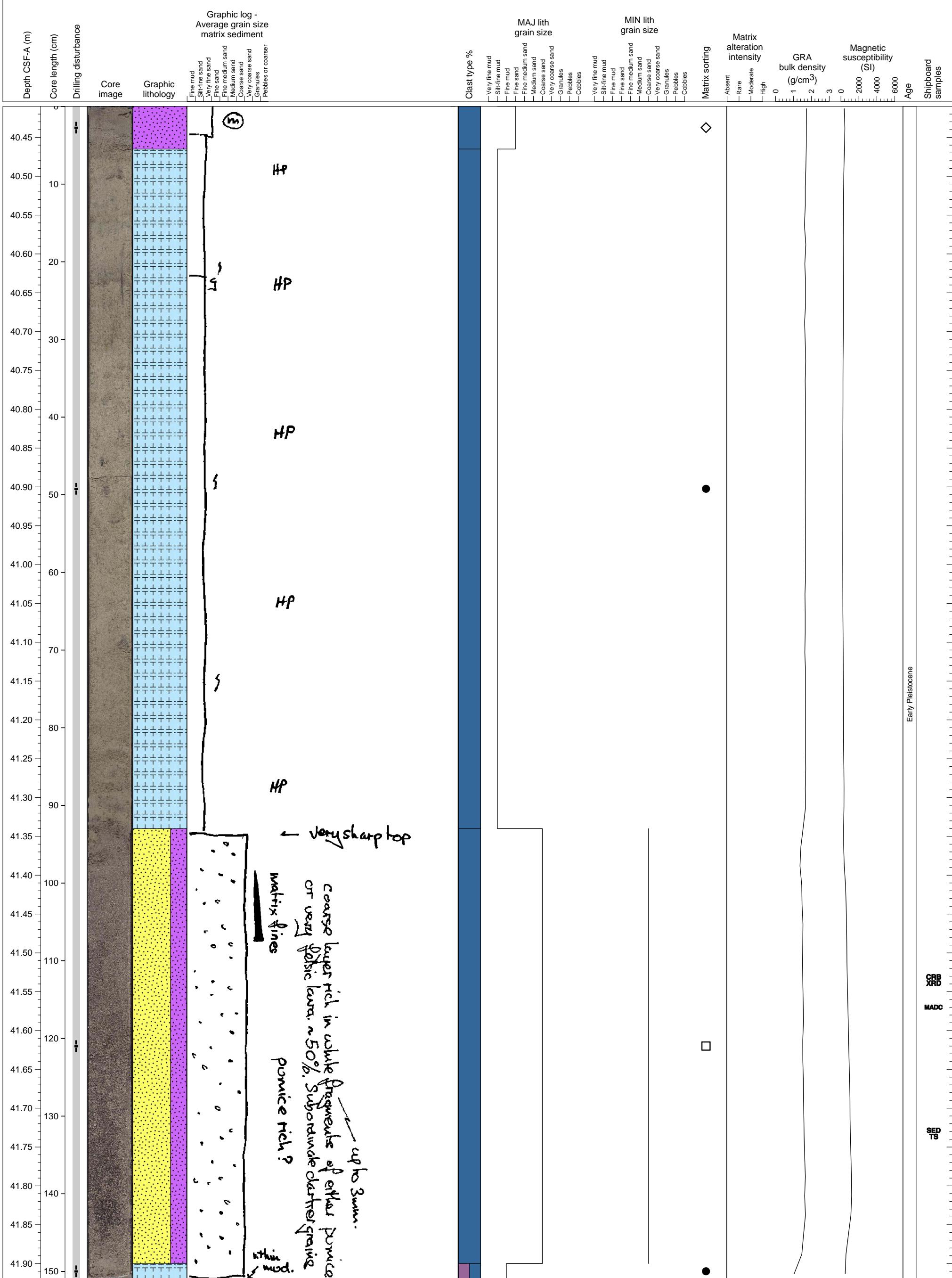


Hole 340-U1395A-6H Section 1, Top of Section: 38.9 CSF-A (m)

Alternating layers of hemipelagic clay and volcaniclastic mud. Significant bioturbation is present.

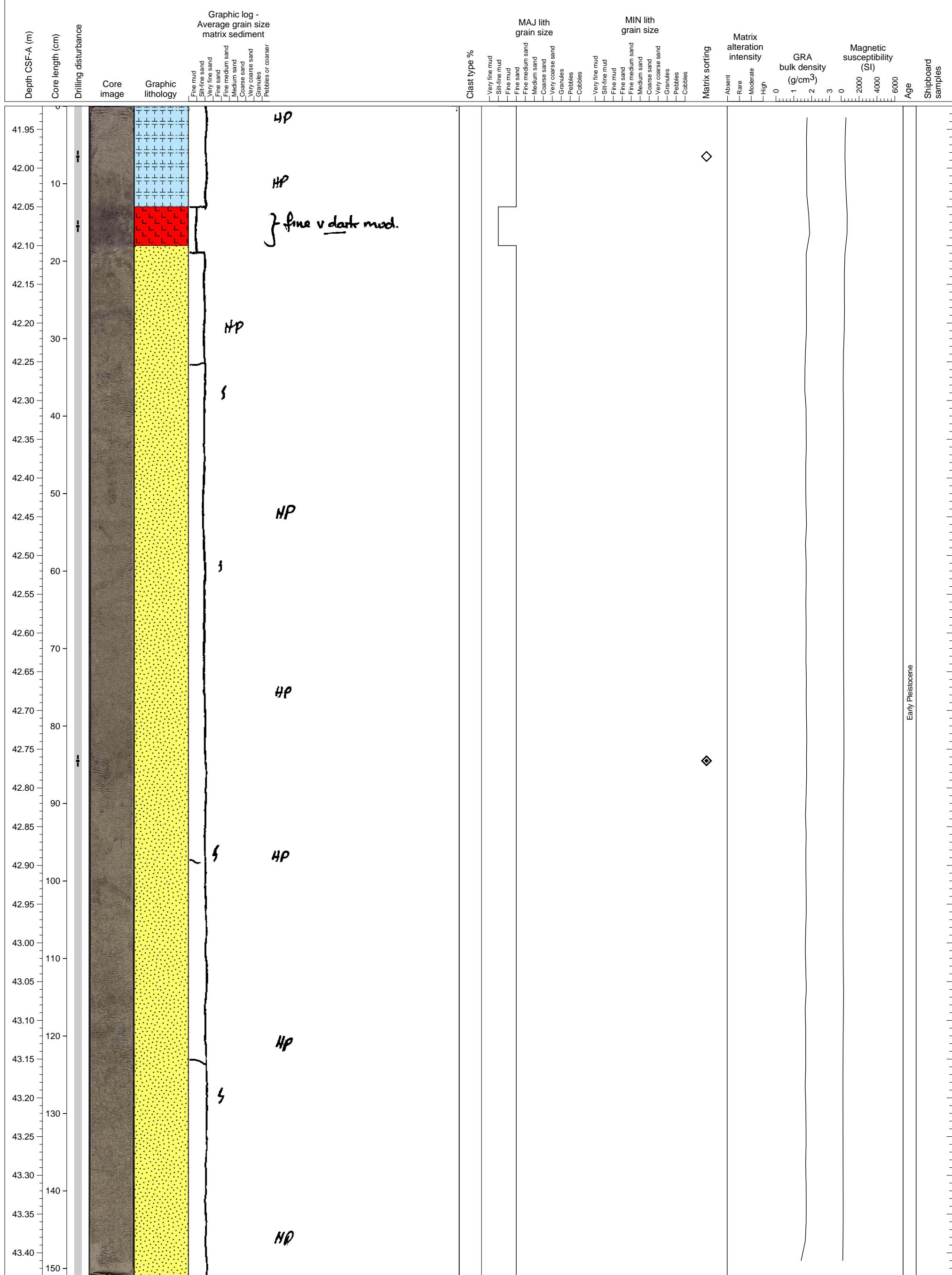


Alternating layers of hemipelagic clay and volcanioclastic/bioclastic sand.

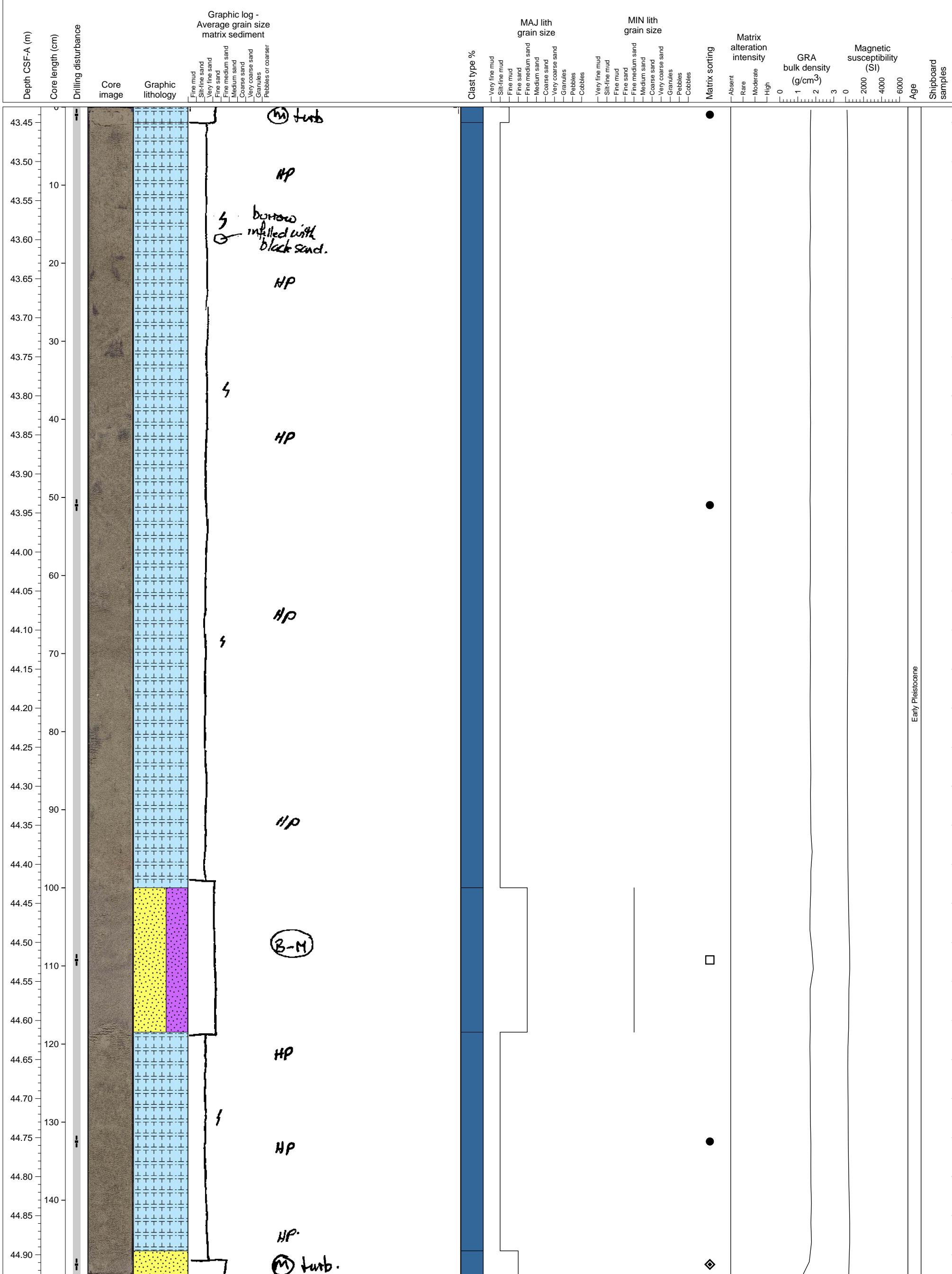


Hole 340-U1395A-6H Section 3, Top of Section: 41.92 CSF-A (m)

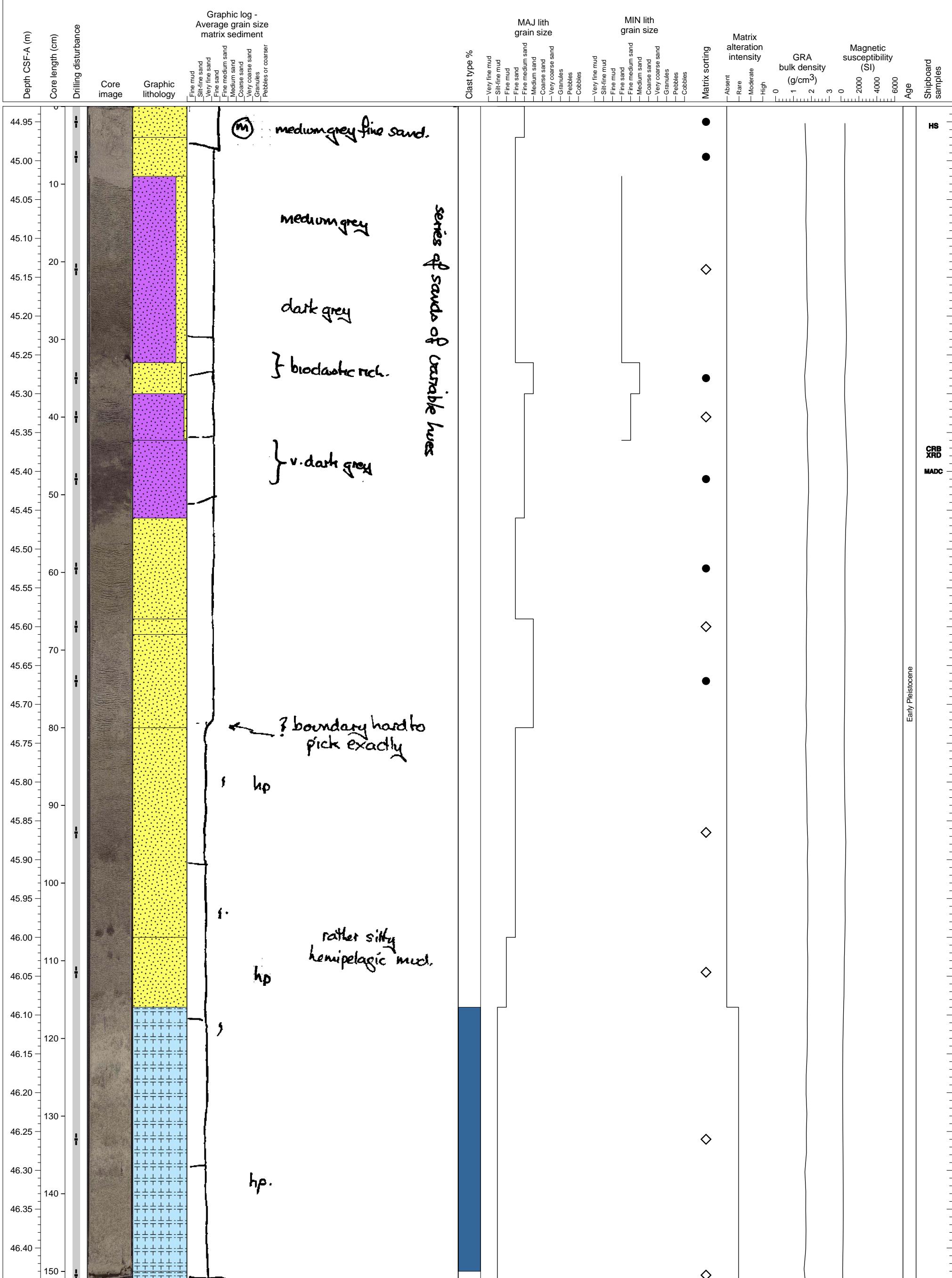
This is mostly hemipelagic calcareous fine sand, which contains shell fragments. In the upper part of the section from 13 to 18 cm, well sorted silt-fine mud gray layer appears, which could be an ash layer.



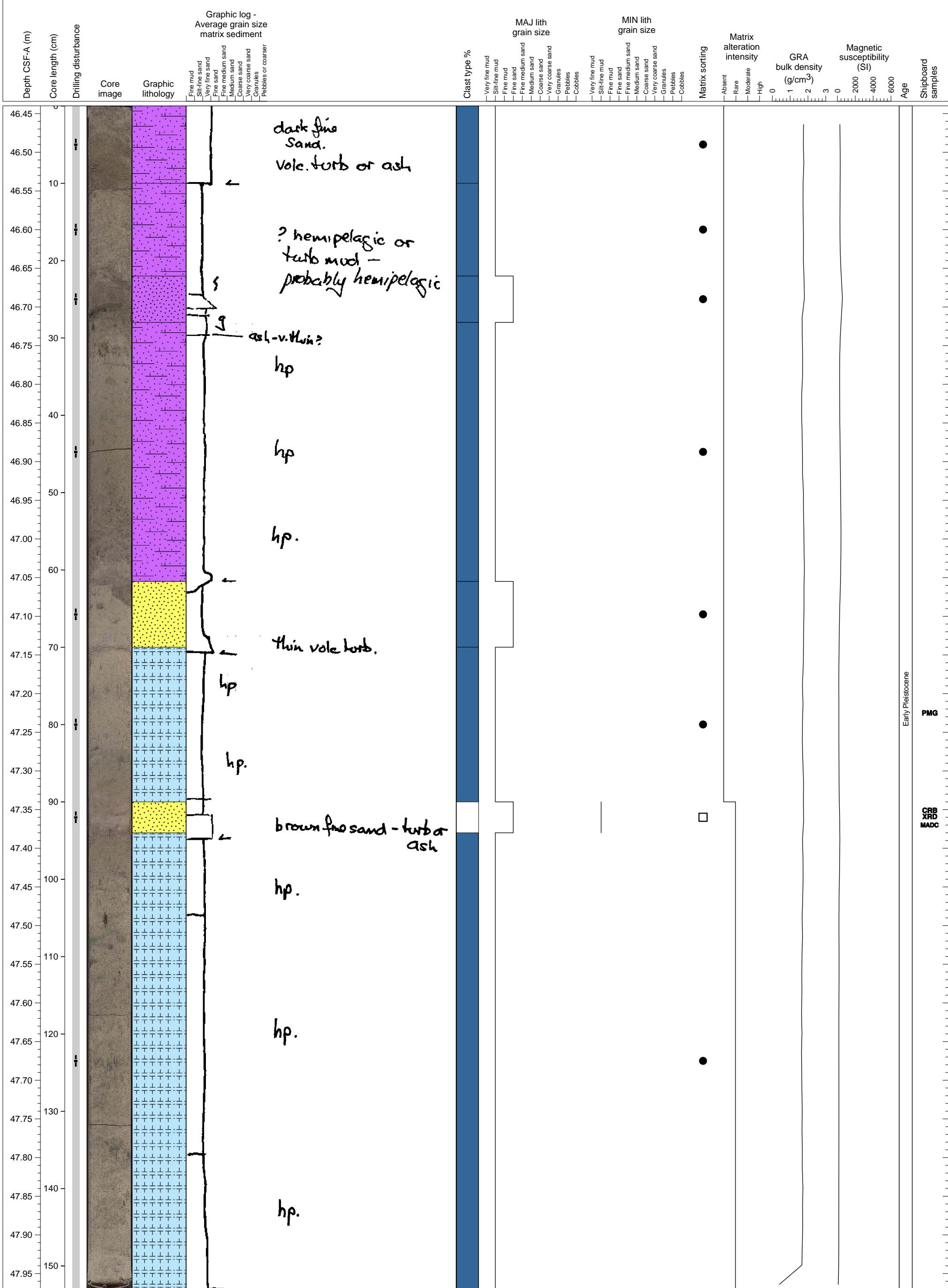
Interlayered hemipelagic clay and bioclastic/volcaniclastic sand layers.



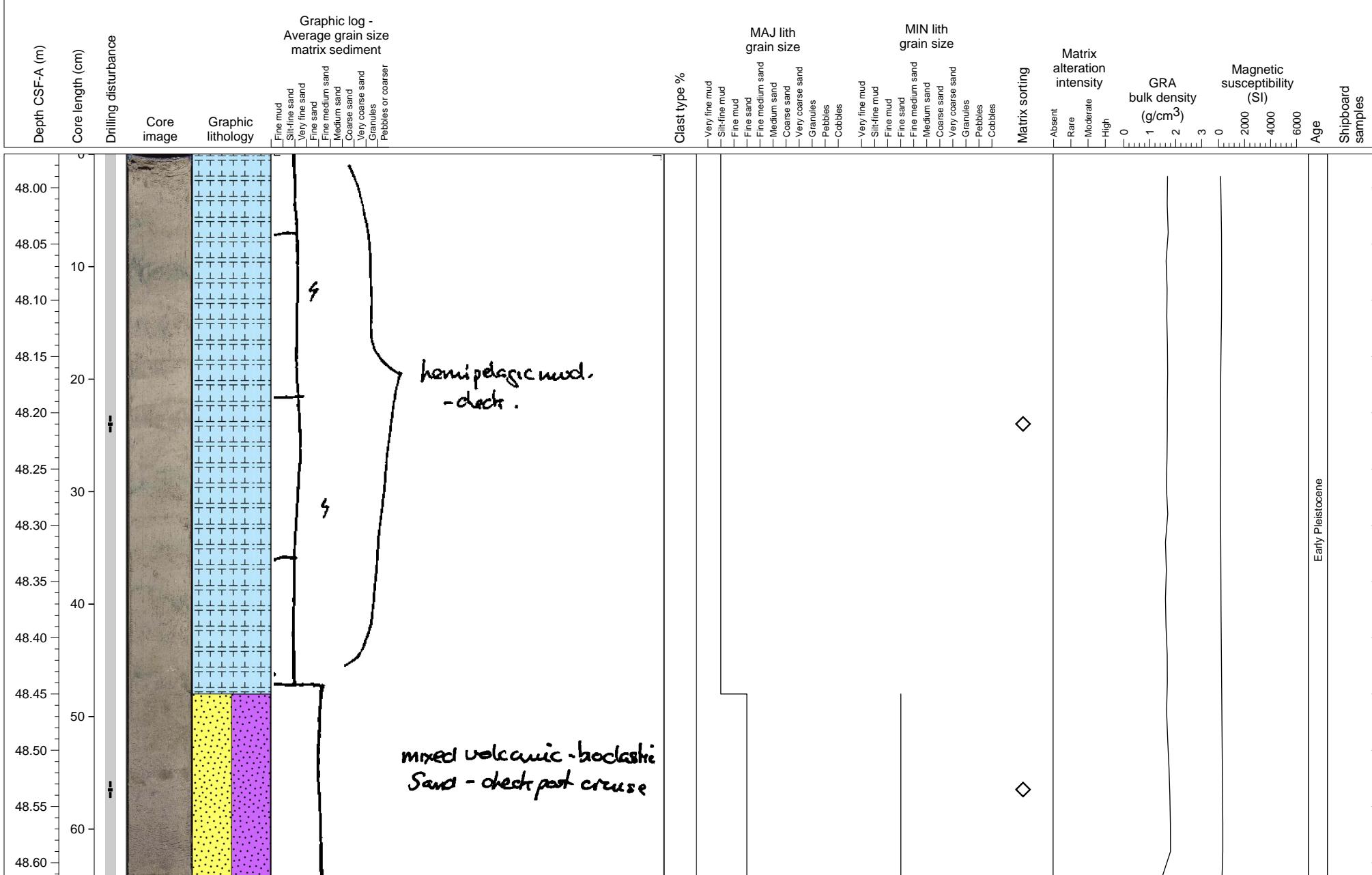
Upper part is stacked sand, lower part hemipelagite.



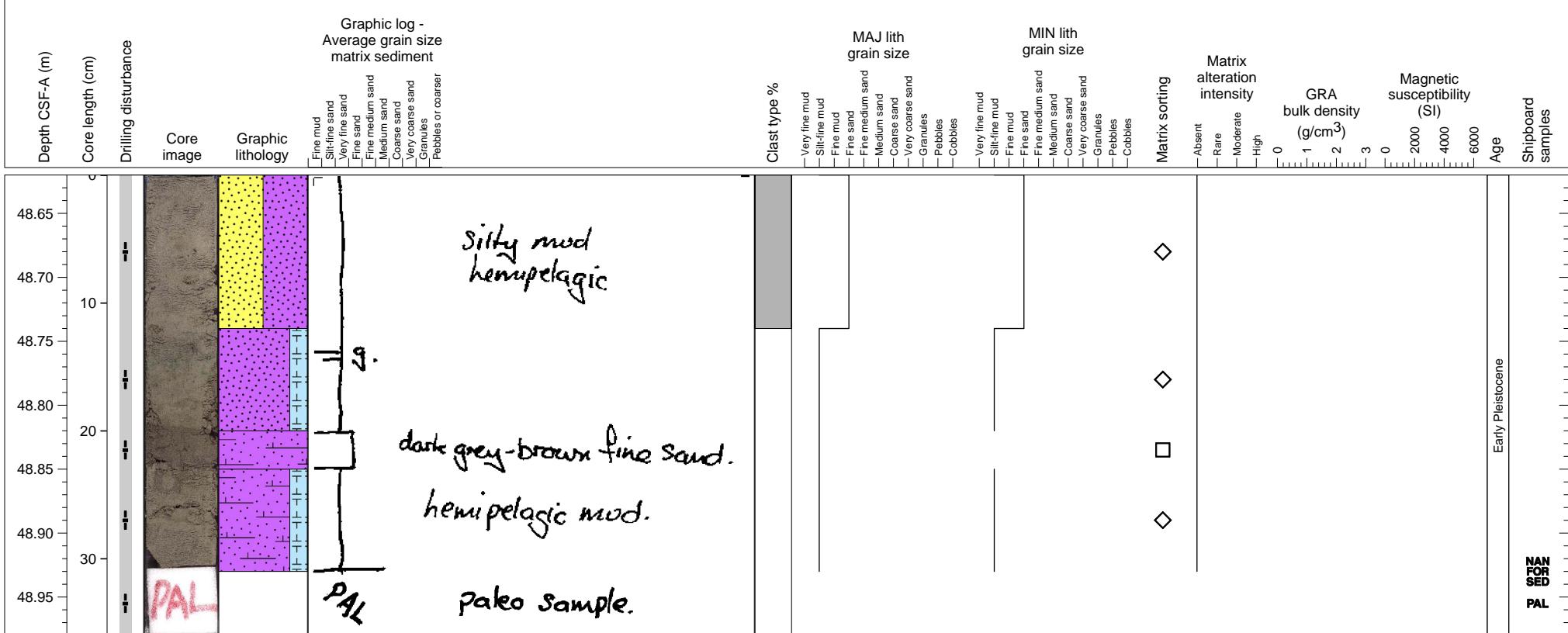
Interlayered hemipelagic clay and bioclastic sand units overlain with fining upward volcaniclastic sand to mud layers.



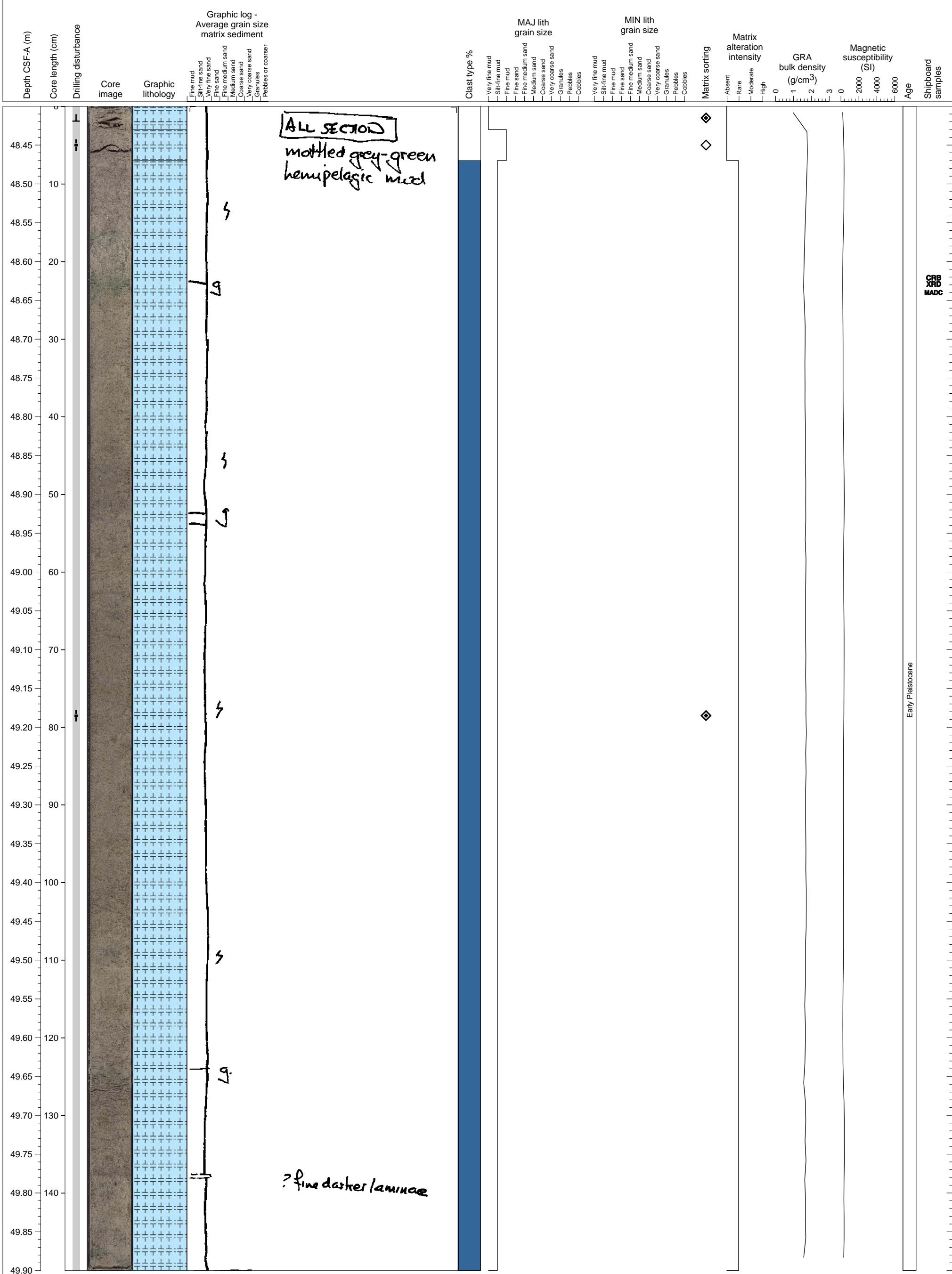
Turbidite layer is overlain by hemipelagic calcareous ooze. The turbidite continues to 6HCC. Hemipelagic sediment have several colored diffuse layers, which might represent thin ash layers.



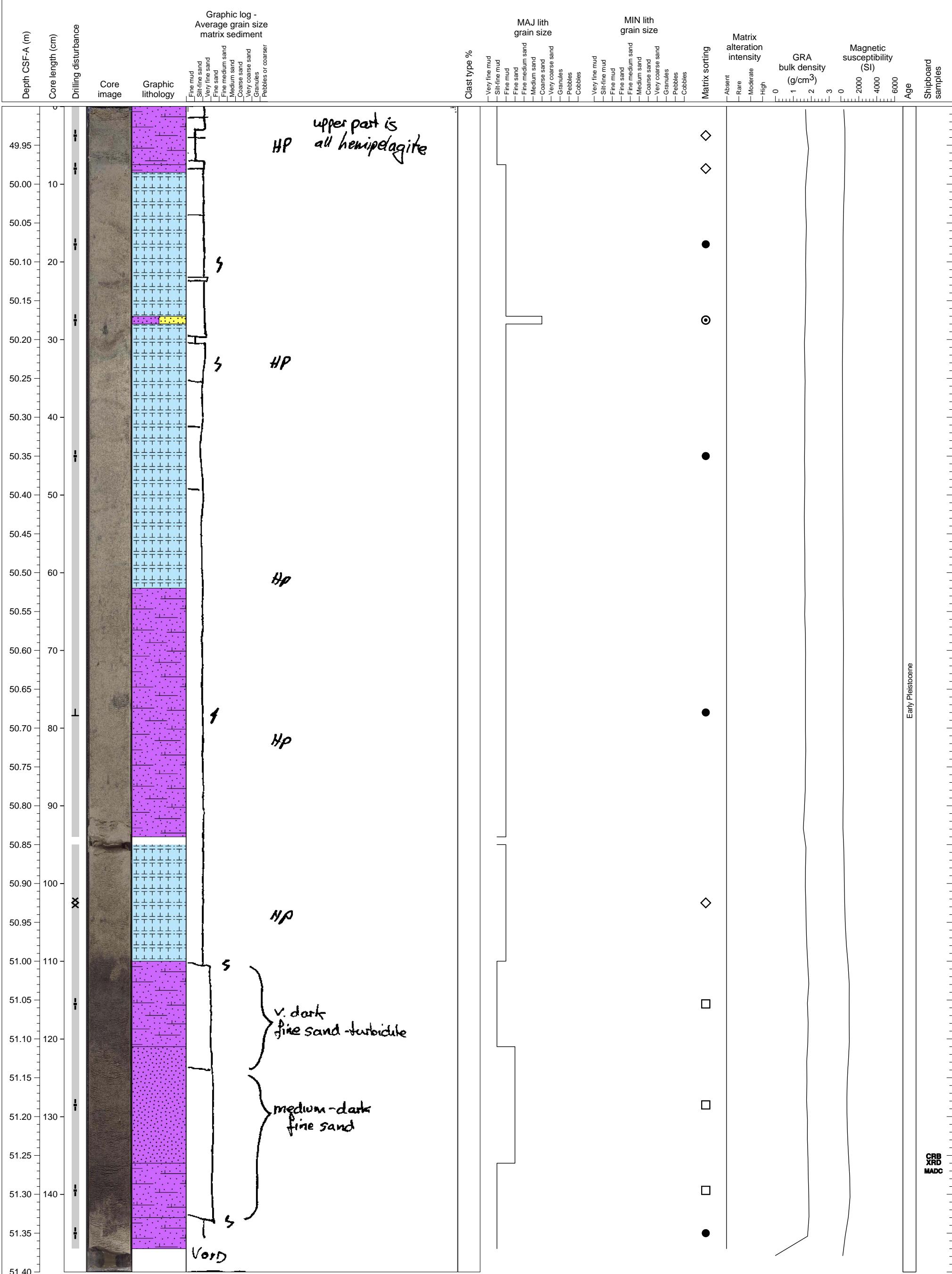
Upper part is the base of turbidite, which continues from the upper section 6H7. Below the turbidite, there are volcanic mud and ash layers, which may suggest that turbidites (landslide?) has happened after the eruption and deposition of ash layer.



Homogeneous hemipelagic carbonate ooze with minor amount of biogenic clasts. Thin greenish layers are interbedded at 22 cm and 125 cm.

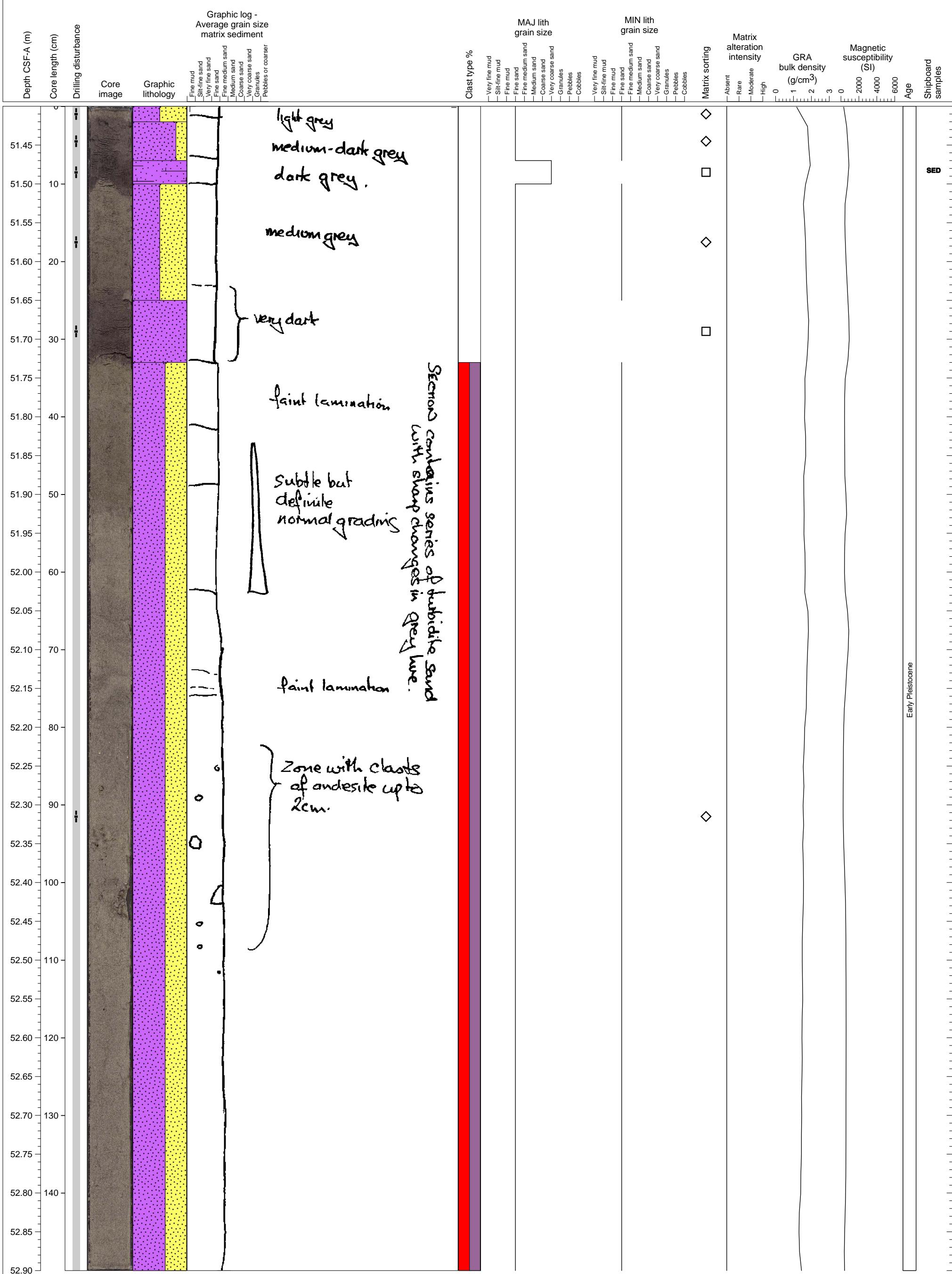


Carbonate ooze and interlayered dark gray colored turbidites.



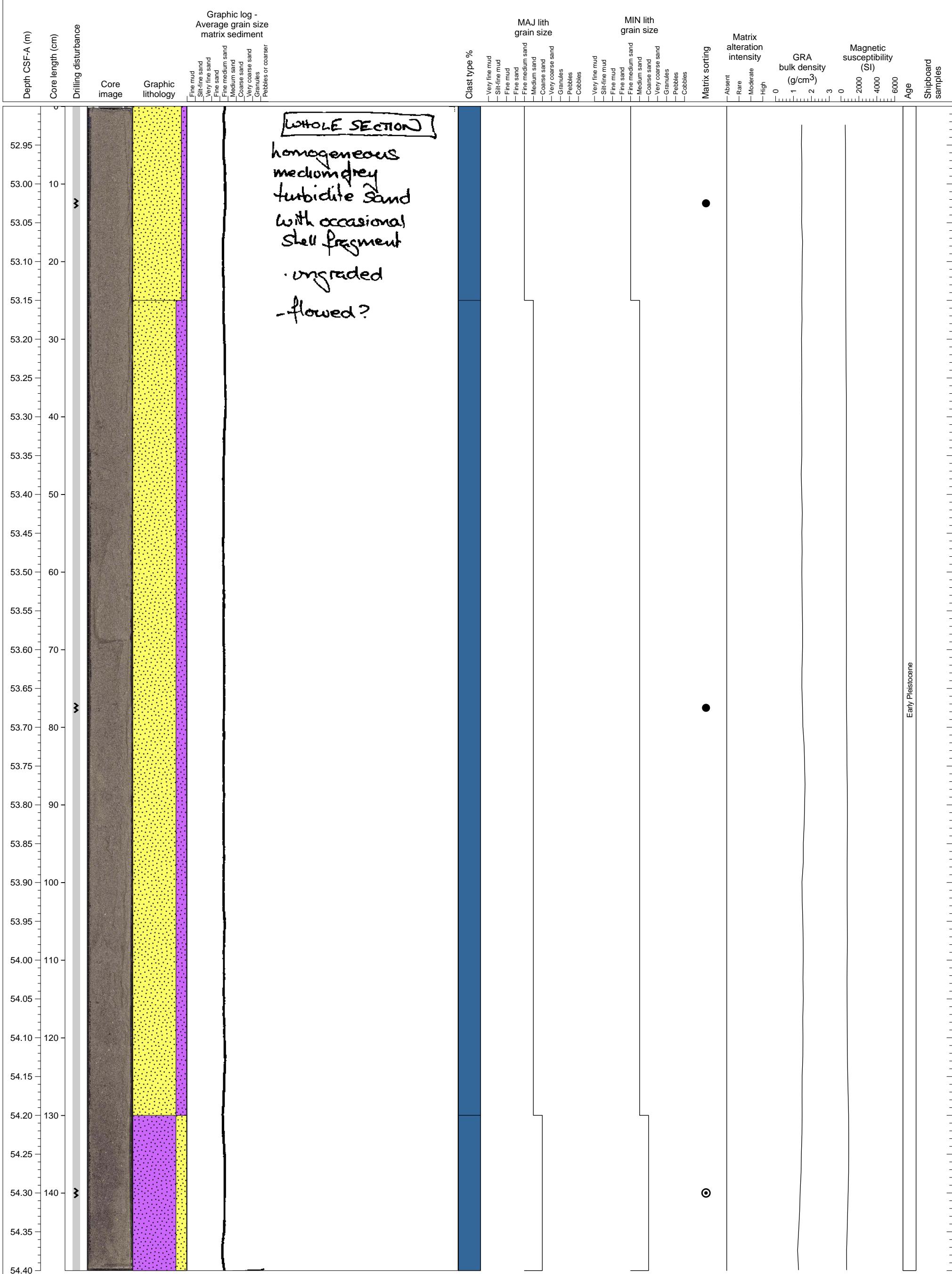
Hole 340-U1395A-7H Section 3, Top of Section: 51.4 CSF-A (m)

This section consists of three turbidites, which range from 0-10 cm, 10-33 cm and 33-150 cm. The upper two turbidites show dark gray in the bottom and gradually change into gray in color upward. The contents of volcanic materials are most abundant in the bottom and decrease upward, which can explain gradual upward lighter color. It also suggested that the bottom dark gray layer also contain small amount of biogenic materials, which support turbidite origin. These are not ash layers as was thought previously.

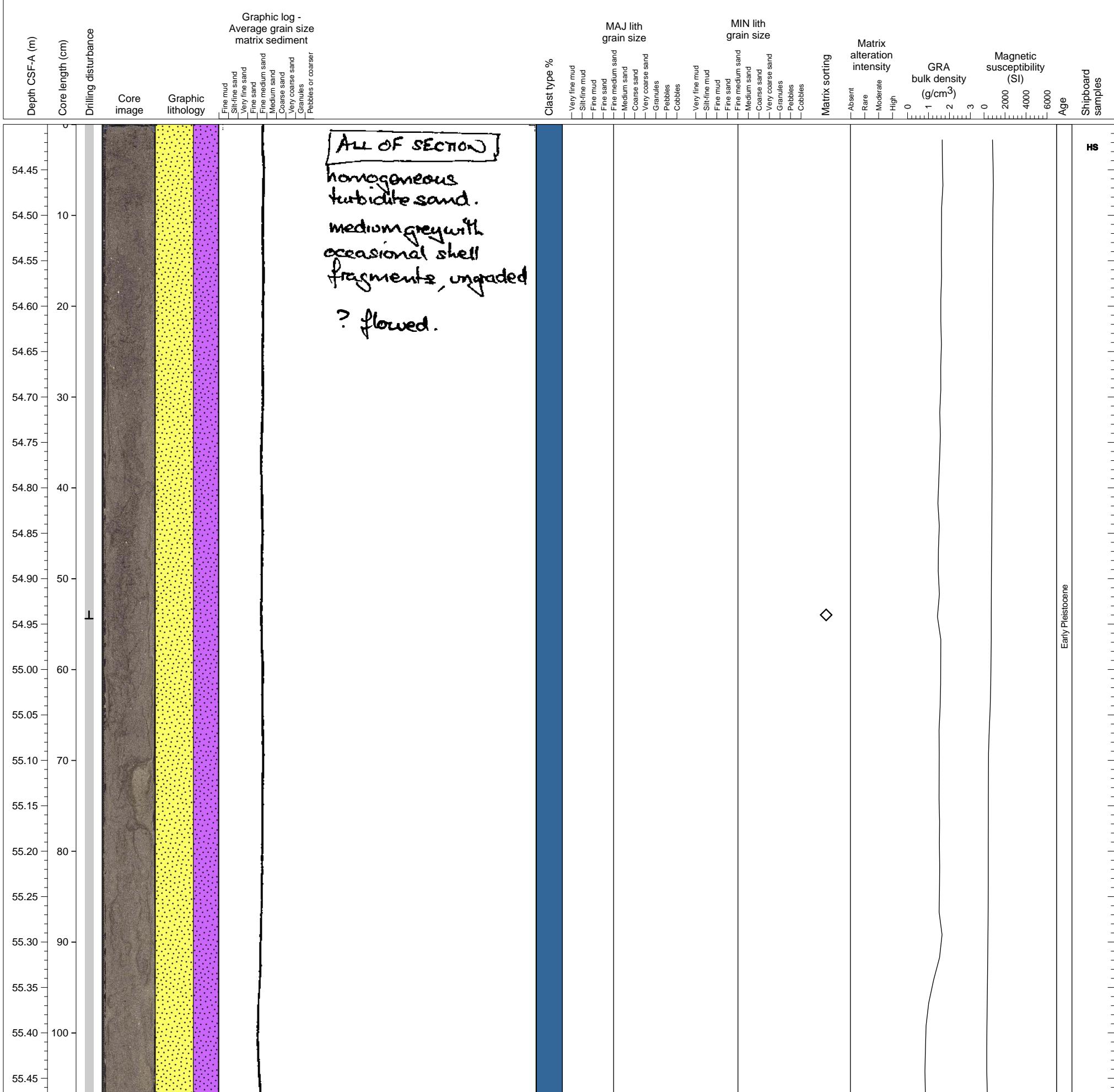


Hole 340-U1395A-7H Section 4, Top of Section: 52.9 CSF-A (m)

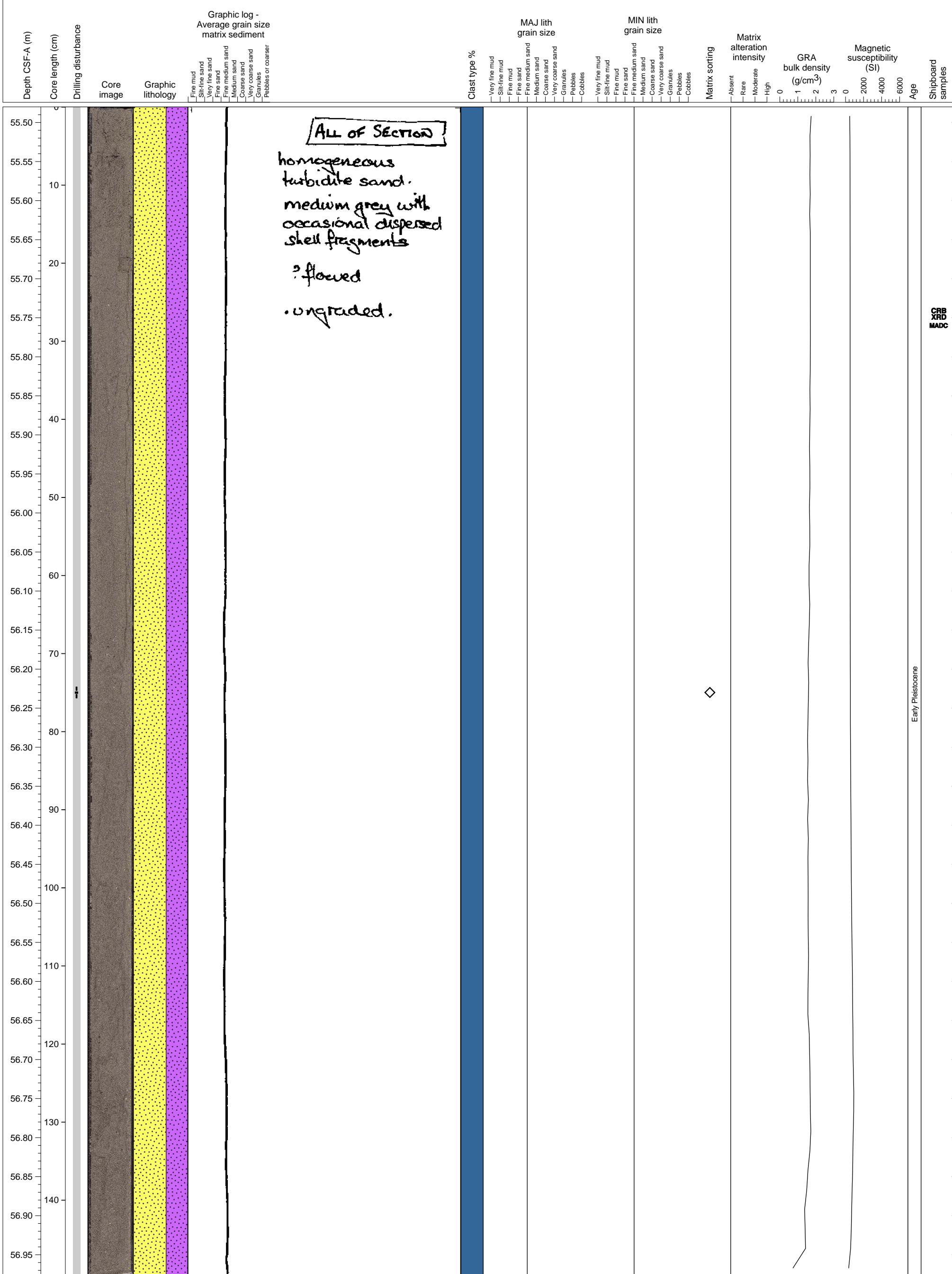
Mixture of biogenic calcareous sand and volcaniclastic sand turbidite.



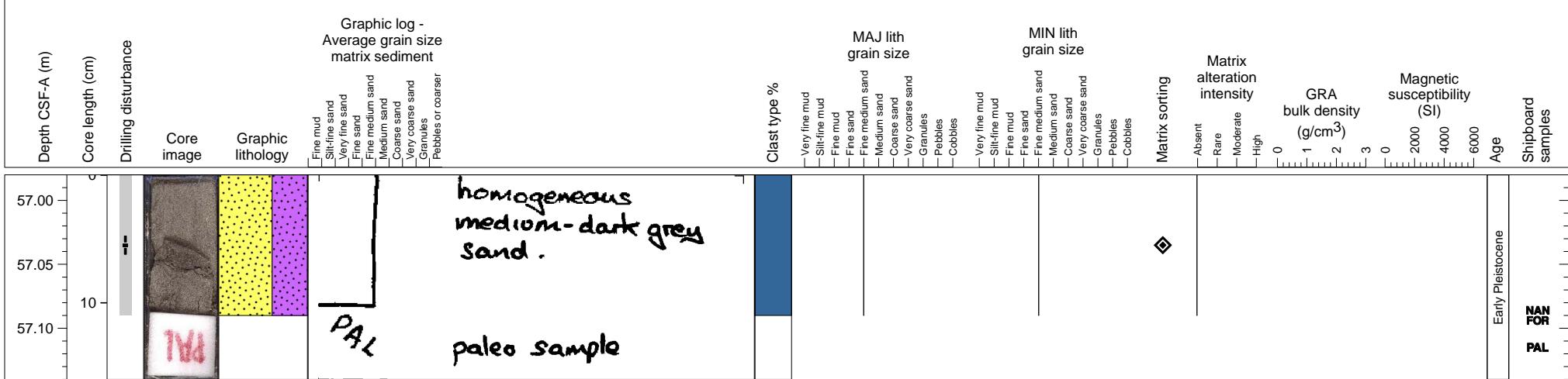
Massive bioclastic/volcaniclastic layer.



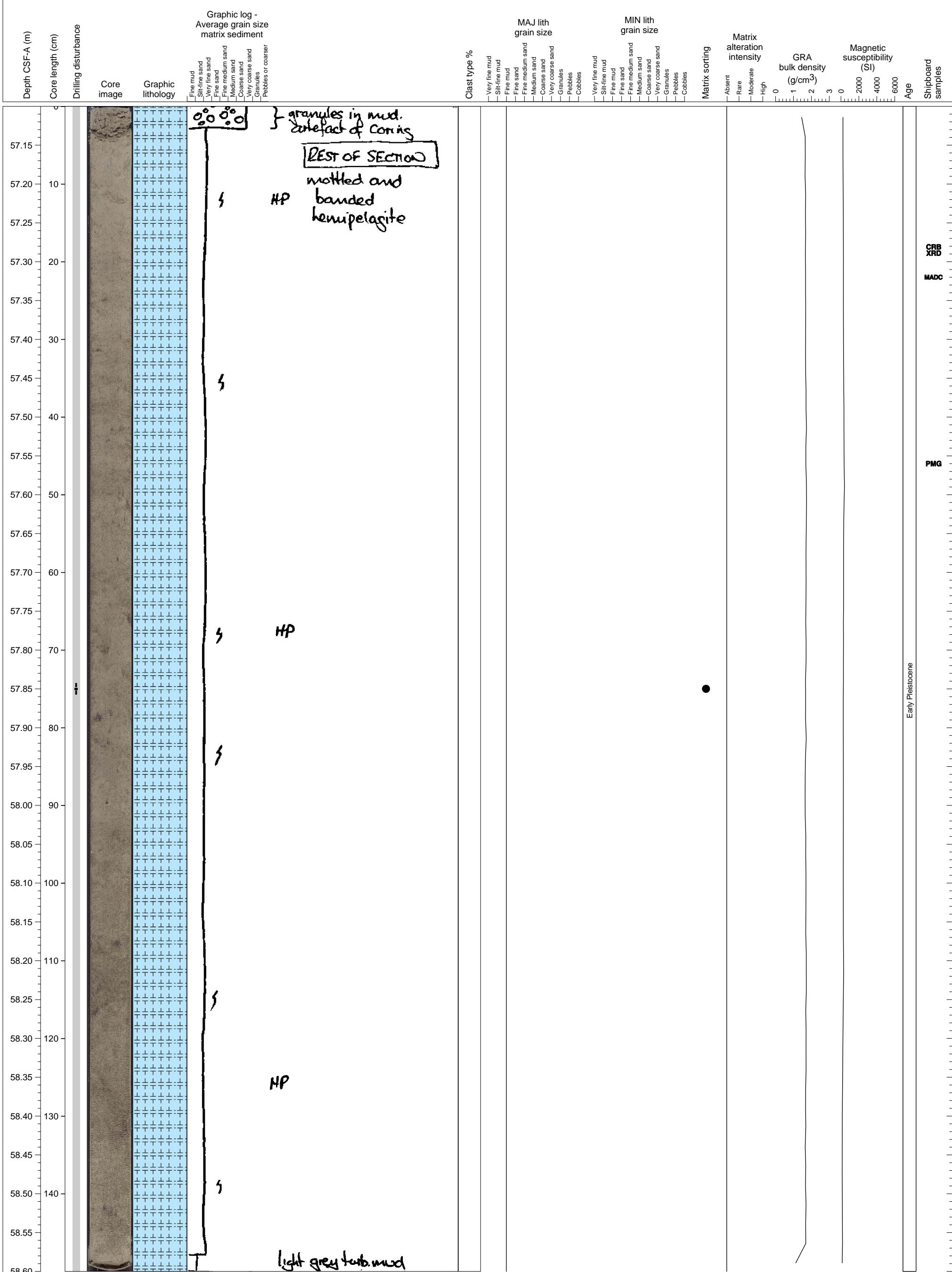
Massive bioclastic/volcaniclastic sand unit..



Massive bioclastic/volcaniclastic sand. PAL sample from base.

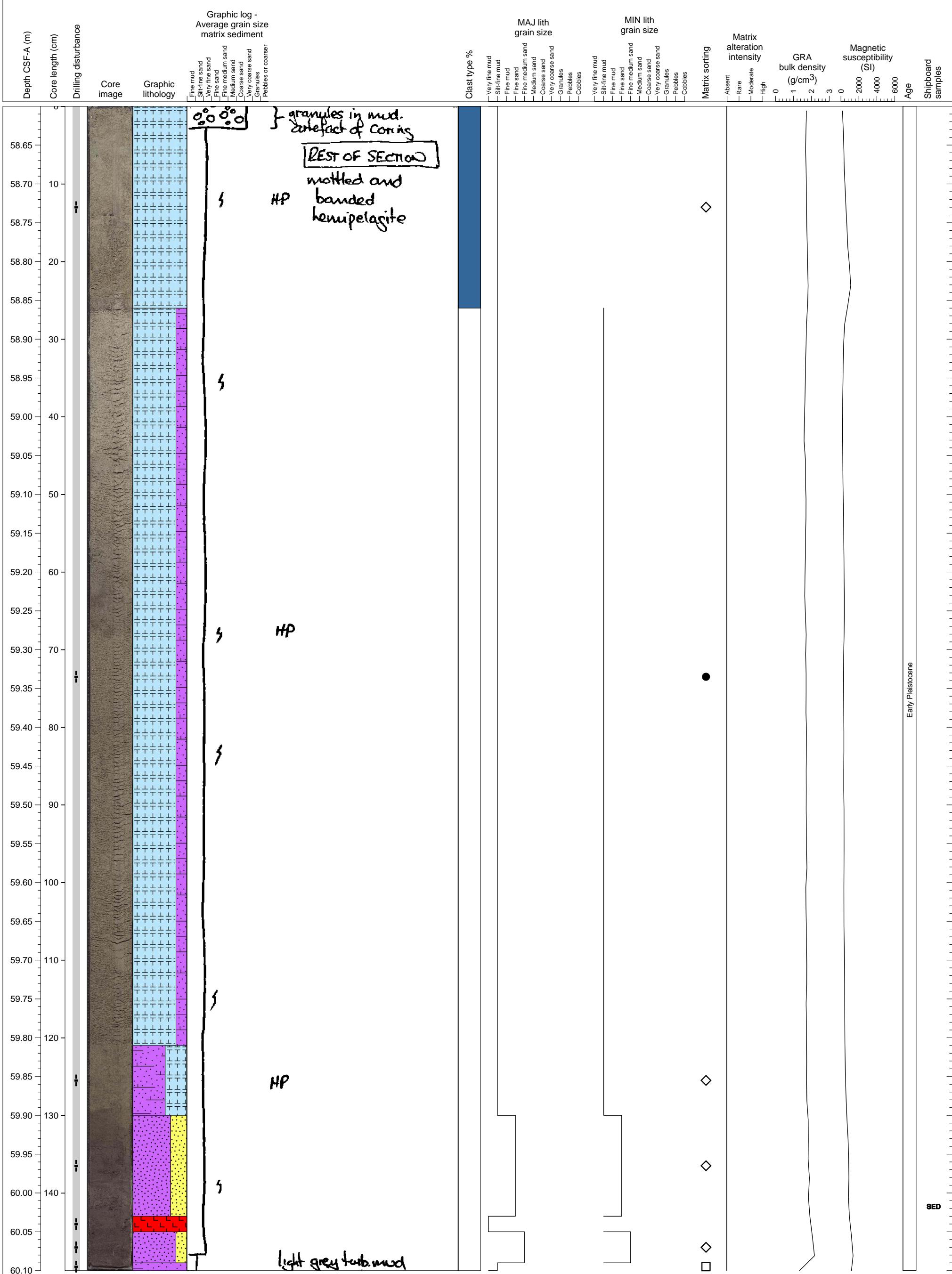


Hemipelagic mud with some shell fragments up to granule size, occasionally black colored sandy pods consisting of coarse shell fragments.



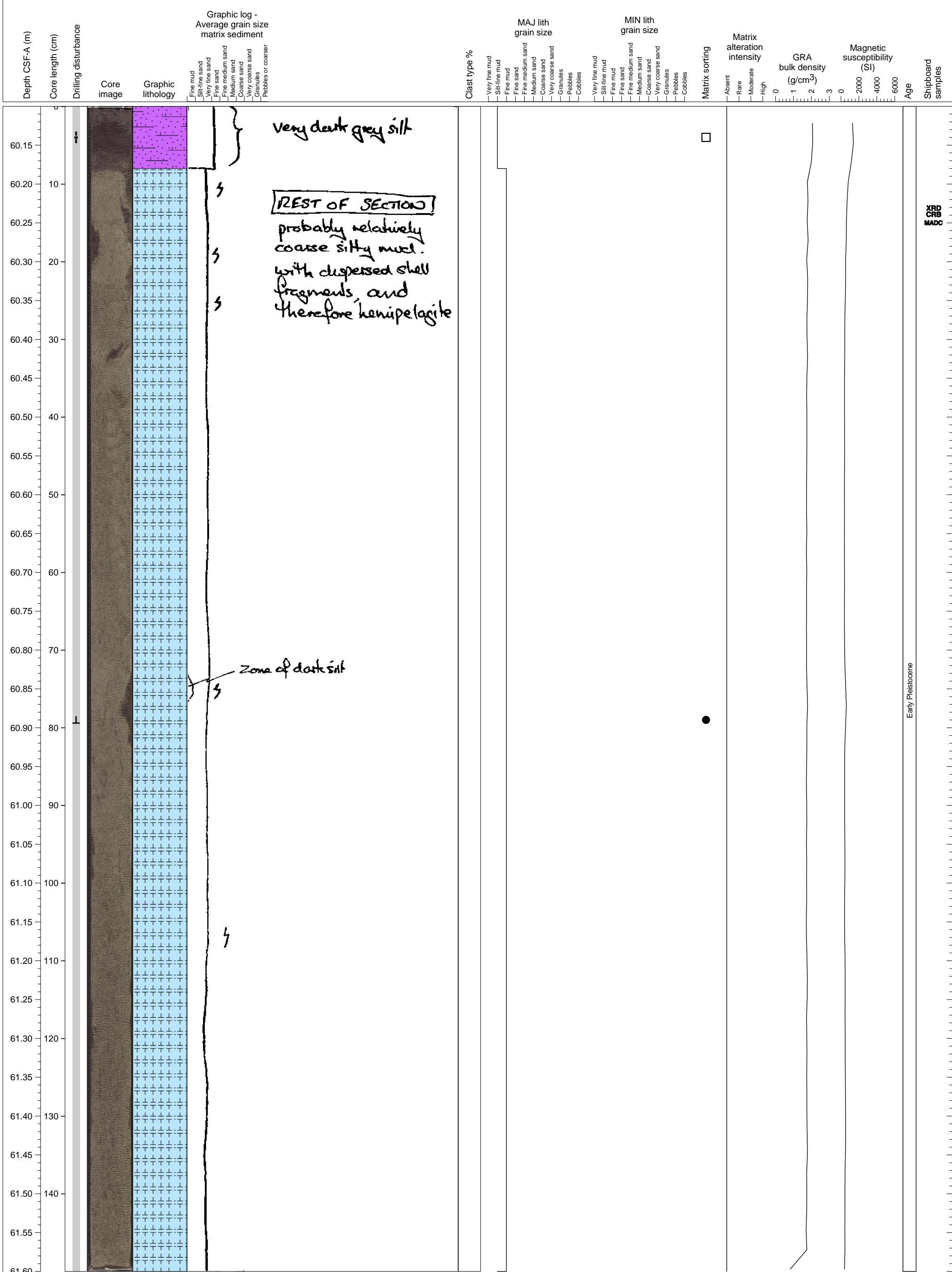
Hole 340-U1395A-8H Section 2, Top of Section: 58.6 CSF-A (m)

Alternation of carbonate rich hemipelagic mud and calcareous sand. Two mafic ash layers sit in lowermost part.

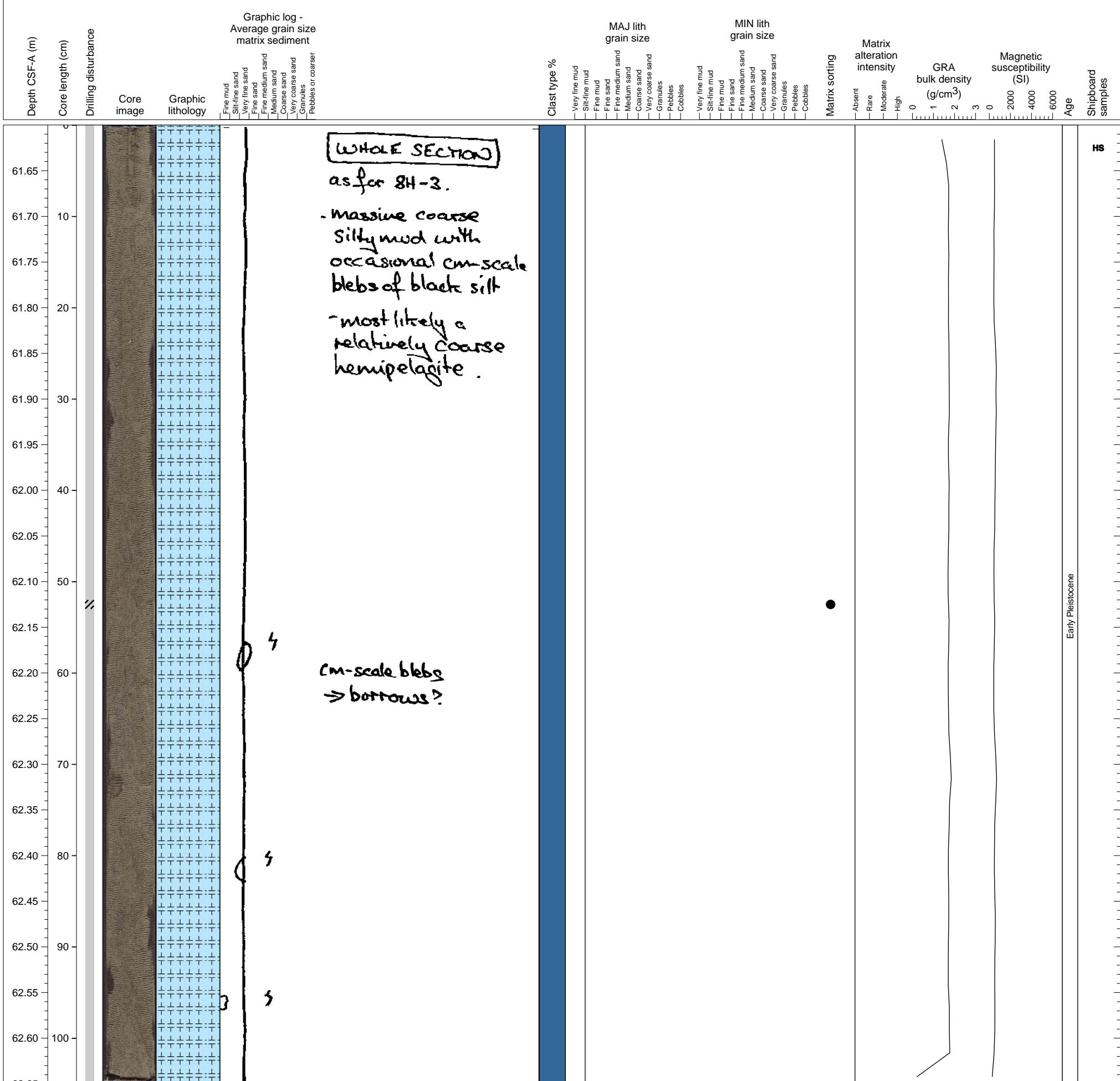


Hole 340-U1395A-8H Section 3, Top of Section: 60.1 CSF-A (m)

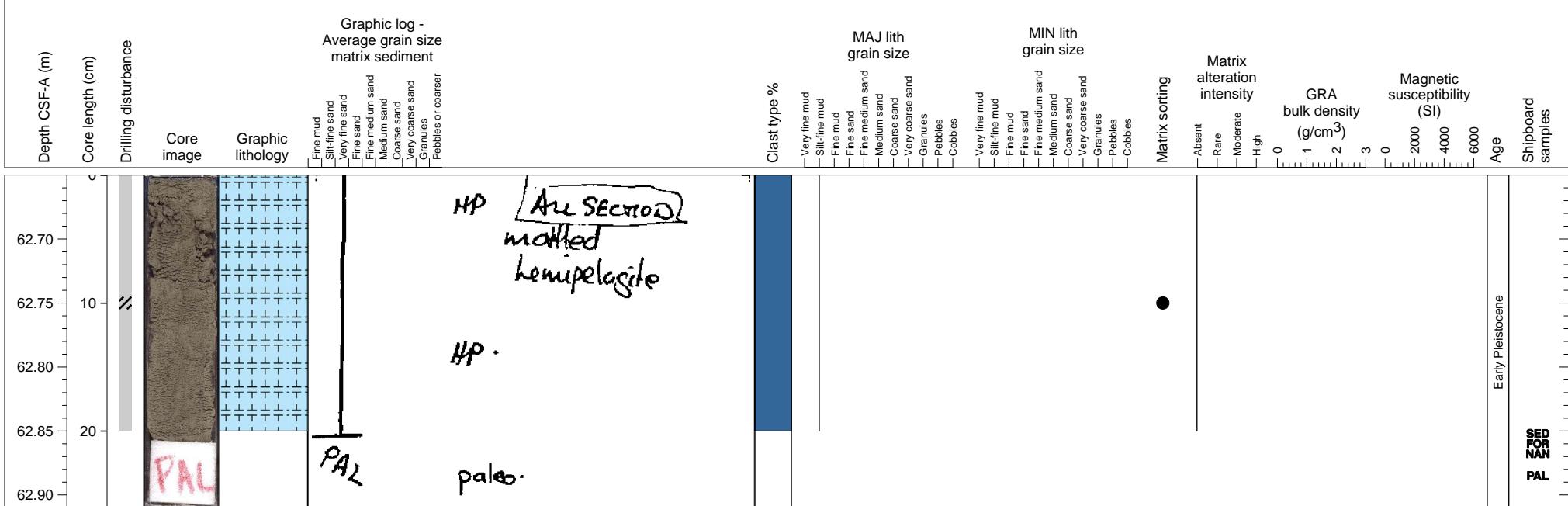
Top 8 cm is black to dark gray colored well-sorted turbidite and the lower part is hemipelagic sediment



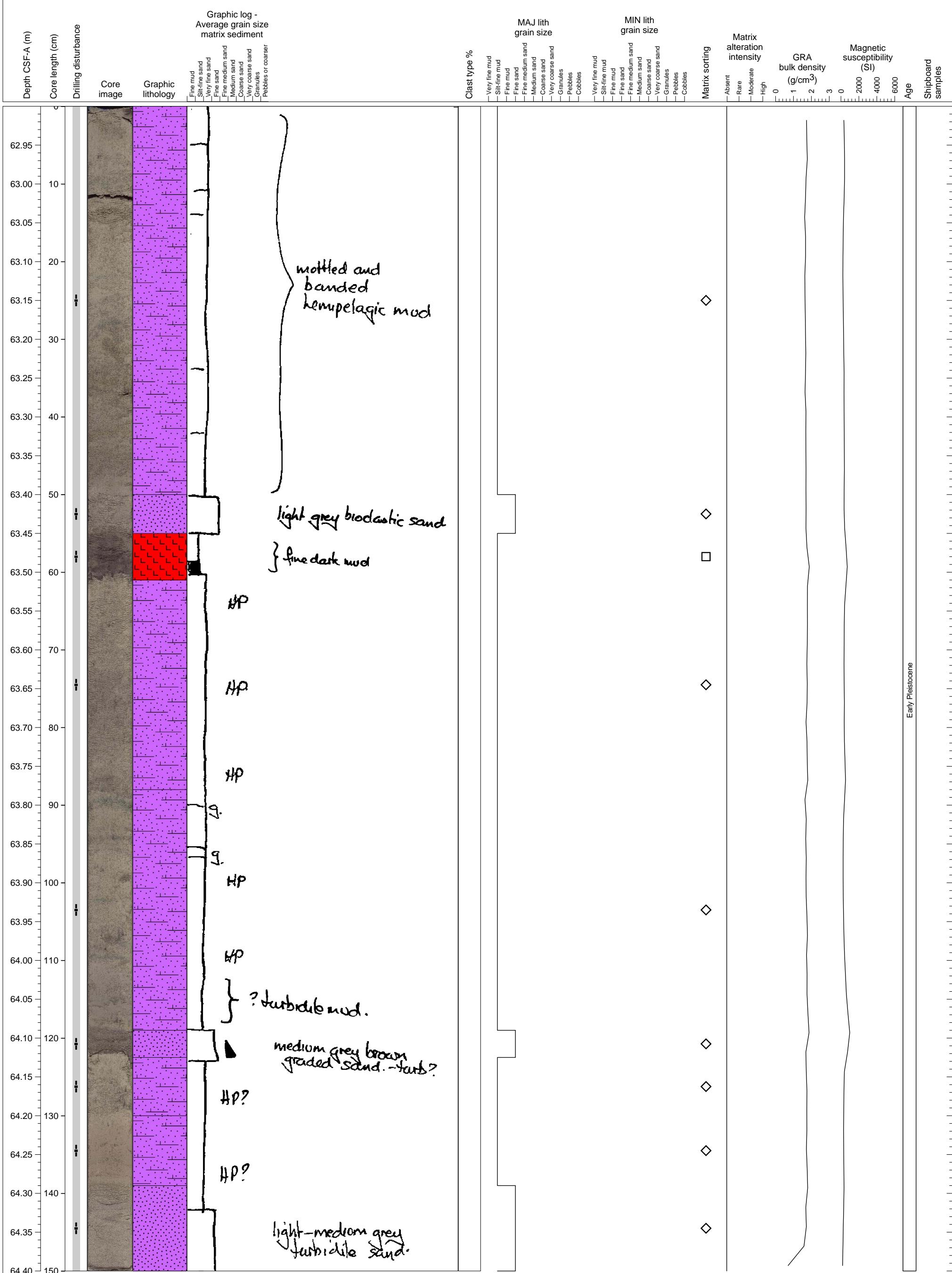
Hemipelagic clay with significant bioturbation. The burrowing may be responsible for darkening the color of the clay.



Hemipelagic clay with significant bioturbation. Bioturbation may be responsible for introducing material to darken the clay.

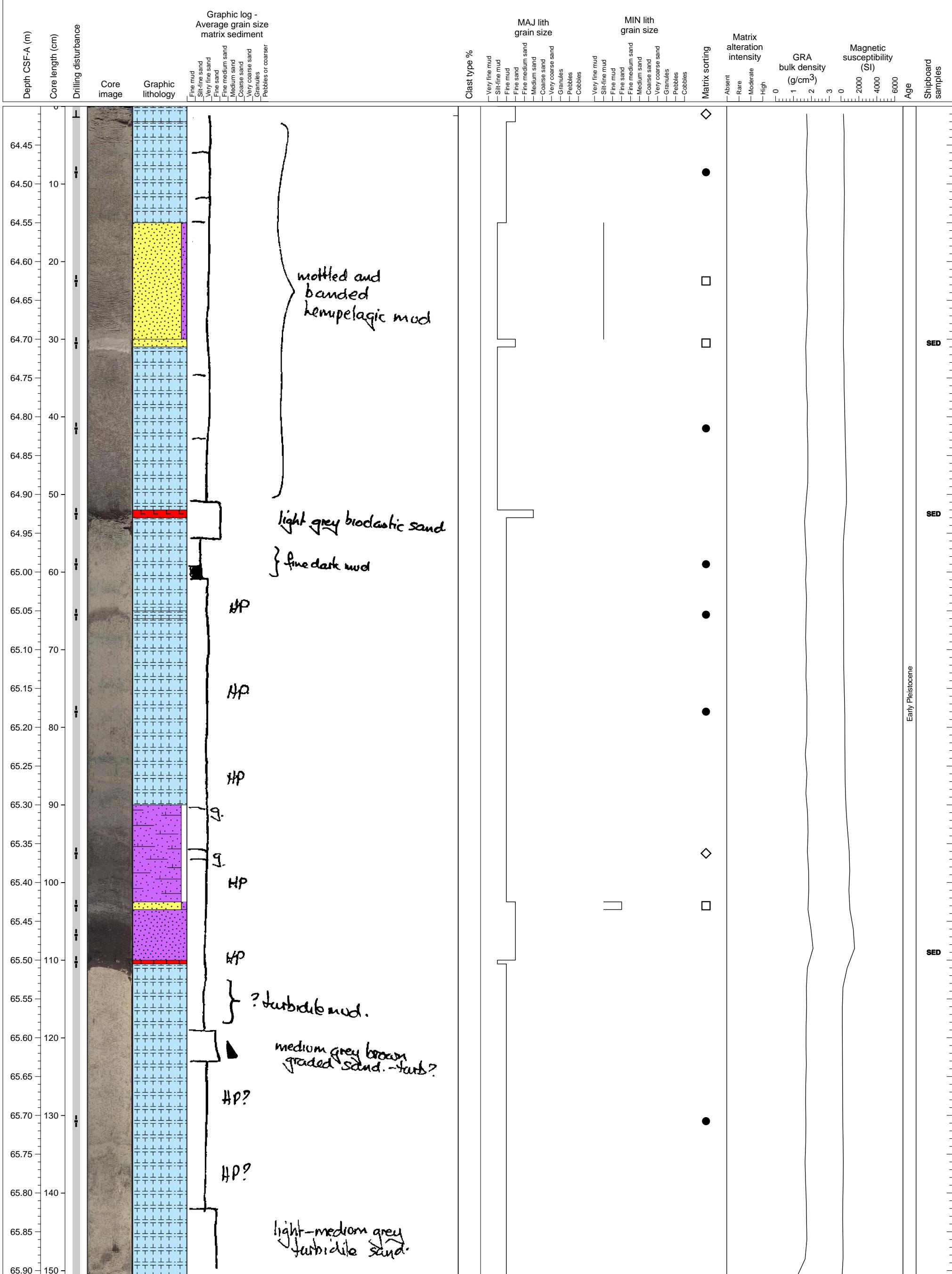


One ash layer is recognized from 55-61 cm, which is dark gray in color and stands out from underlying light gray color turbidites. The upper part and lower part of the section consist of turbidites: three turbidites below the ash layer and one turbidite on the ash layer.

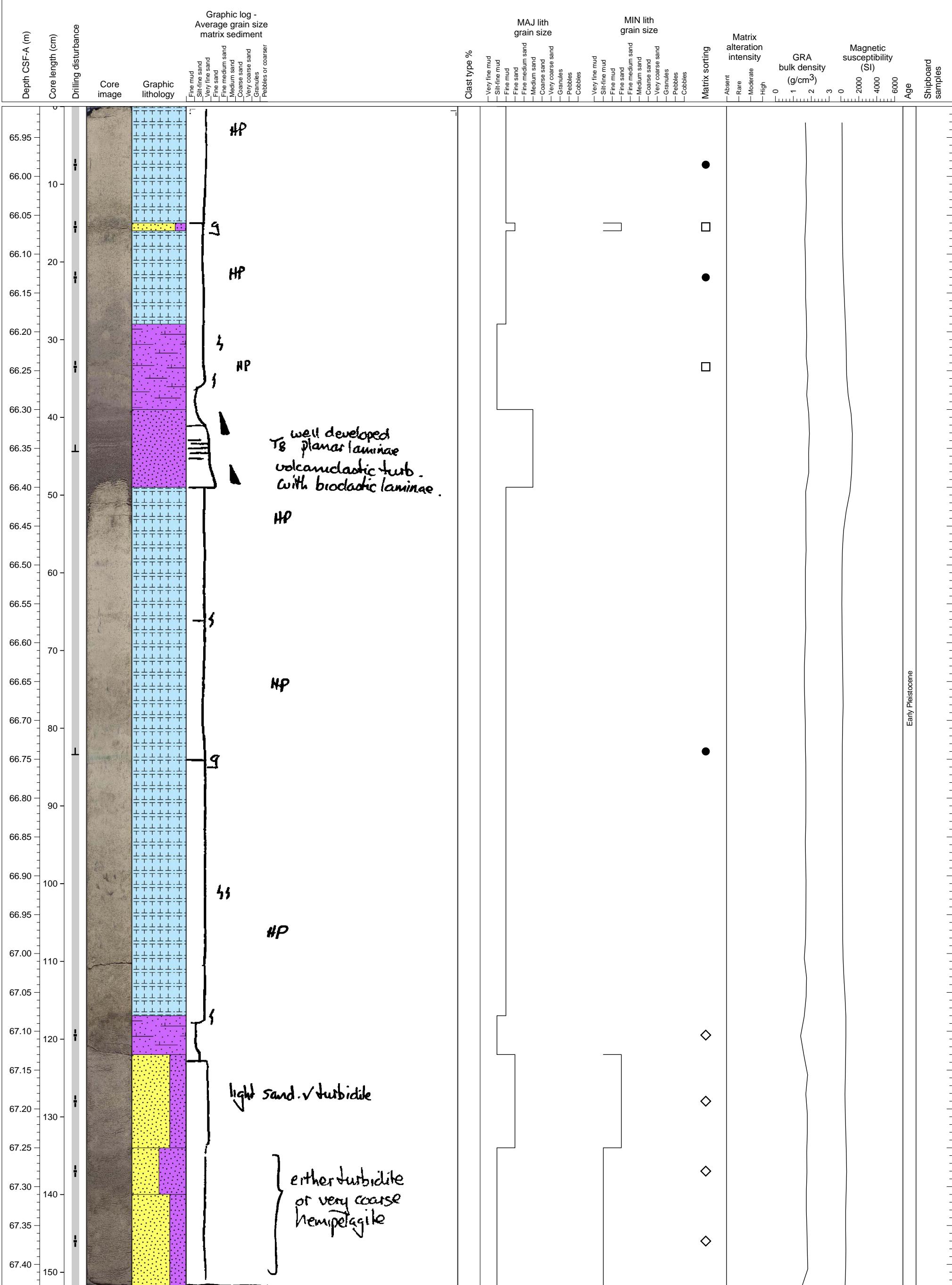


Hole 340-U1395A-9H Section 2, Top of Section: 64.4 CSF-A (m)

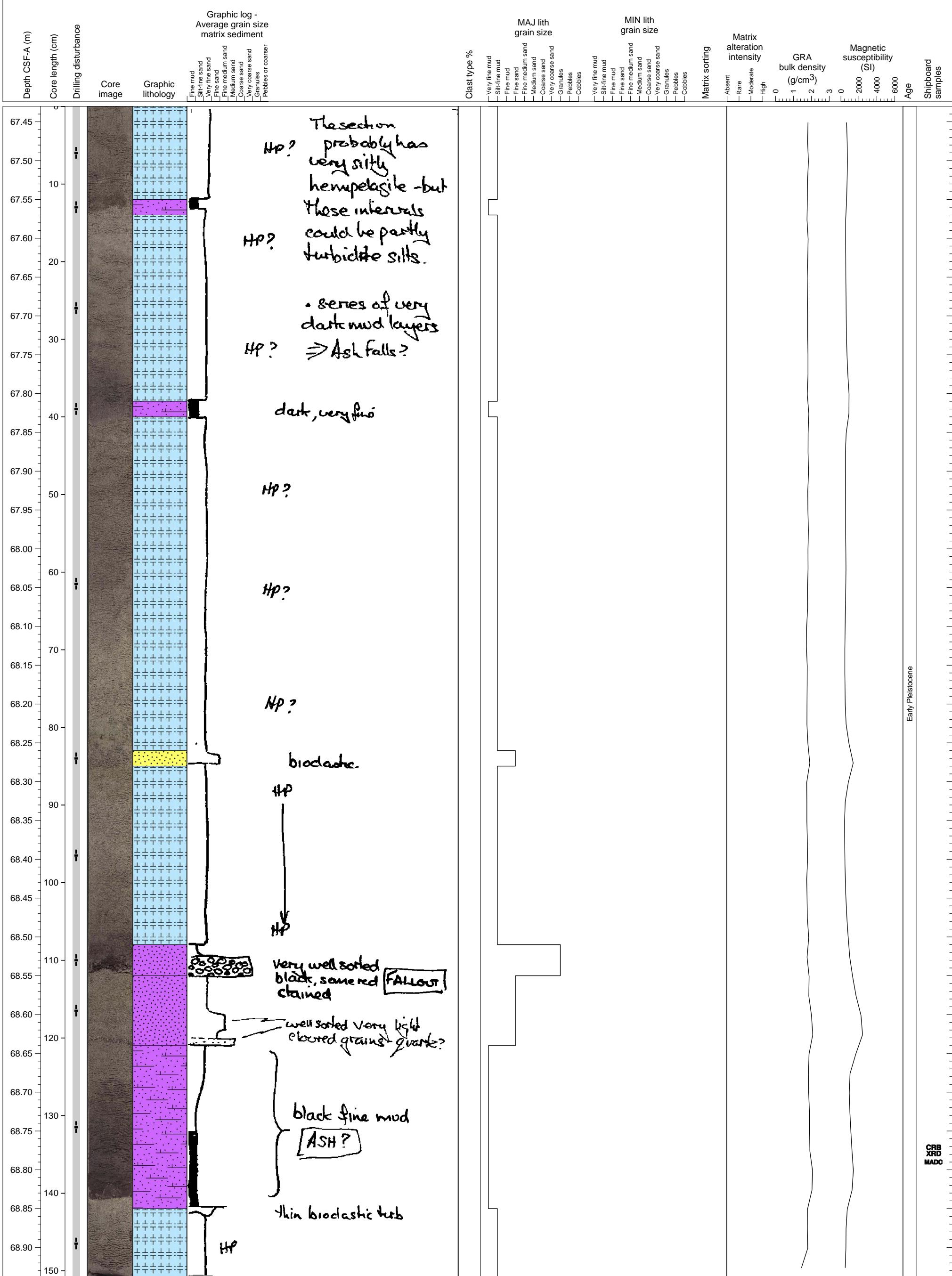
Hemipelagic sediments interlayered with bioclastic turbidites and tephra. At 52-53 cm thin basaltic scoriaceous tephra is embedded. At 110 cm there is a very sharp boundary. Hemipelagic sediment is covered by mafic tephra and turbidite. This boundary must be a very good key marker.



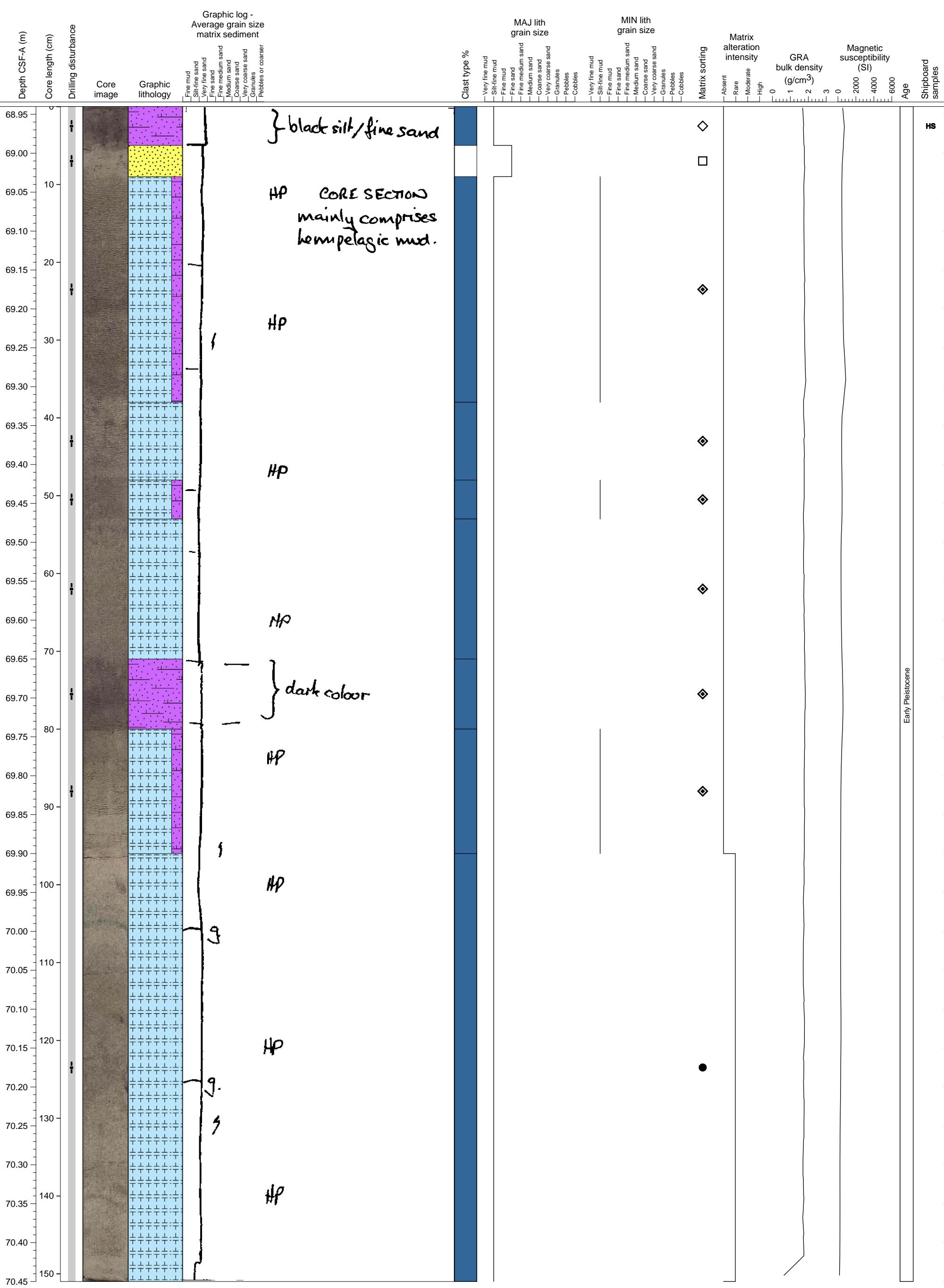
Hemipelagic sediment interlayered with turbidites. At 50 cm, there is a sharp boundary which is separated by a turbidite with typical normal grading.



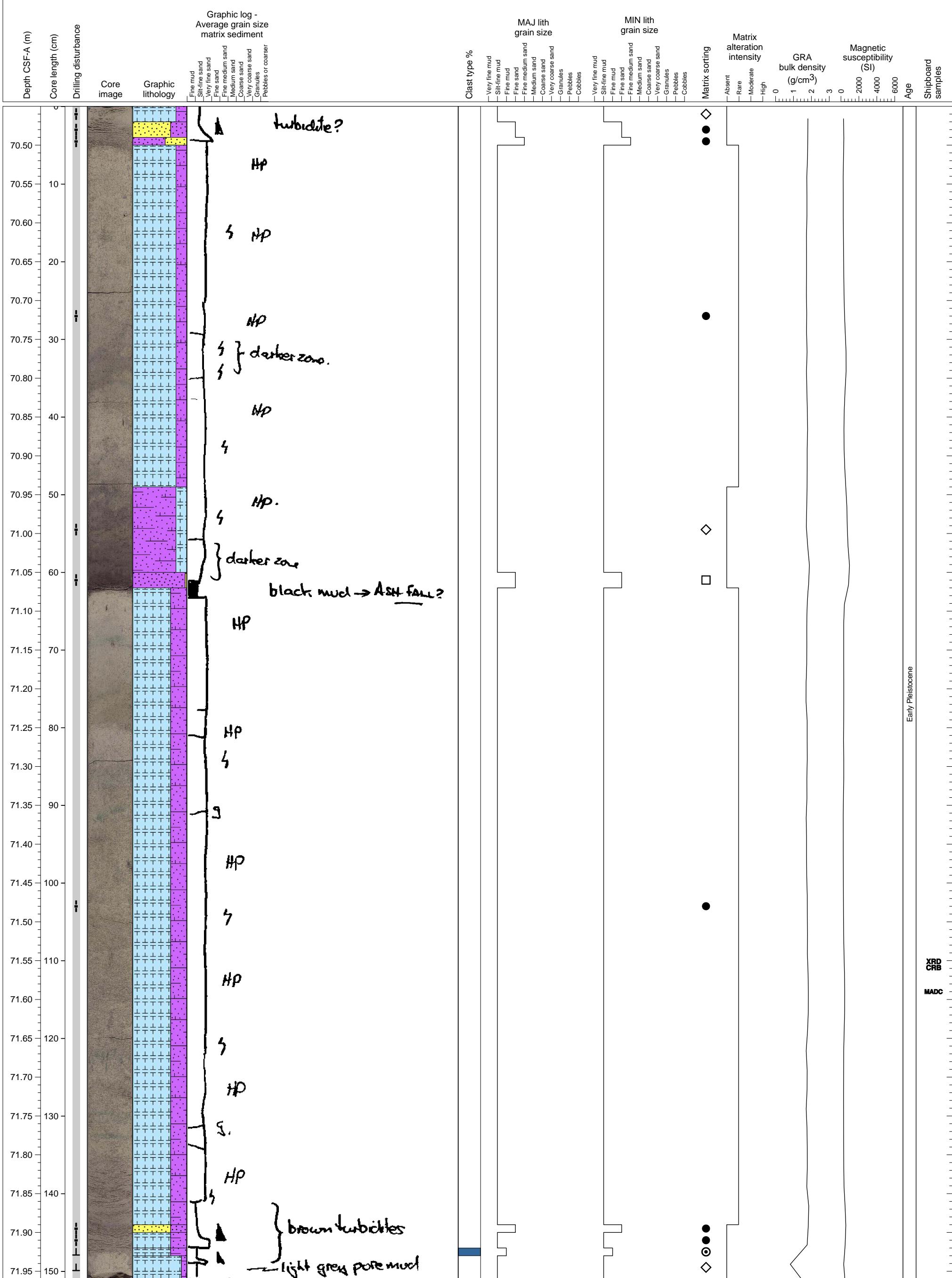
Hemipelagic clay with several thin black fine mud layers (ashes?) and one well sorted granule layer (fallout) plus thin turbidites.



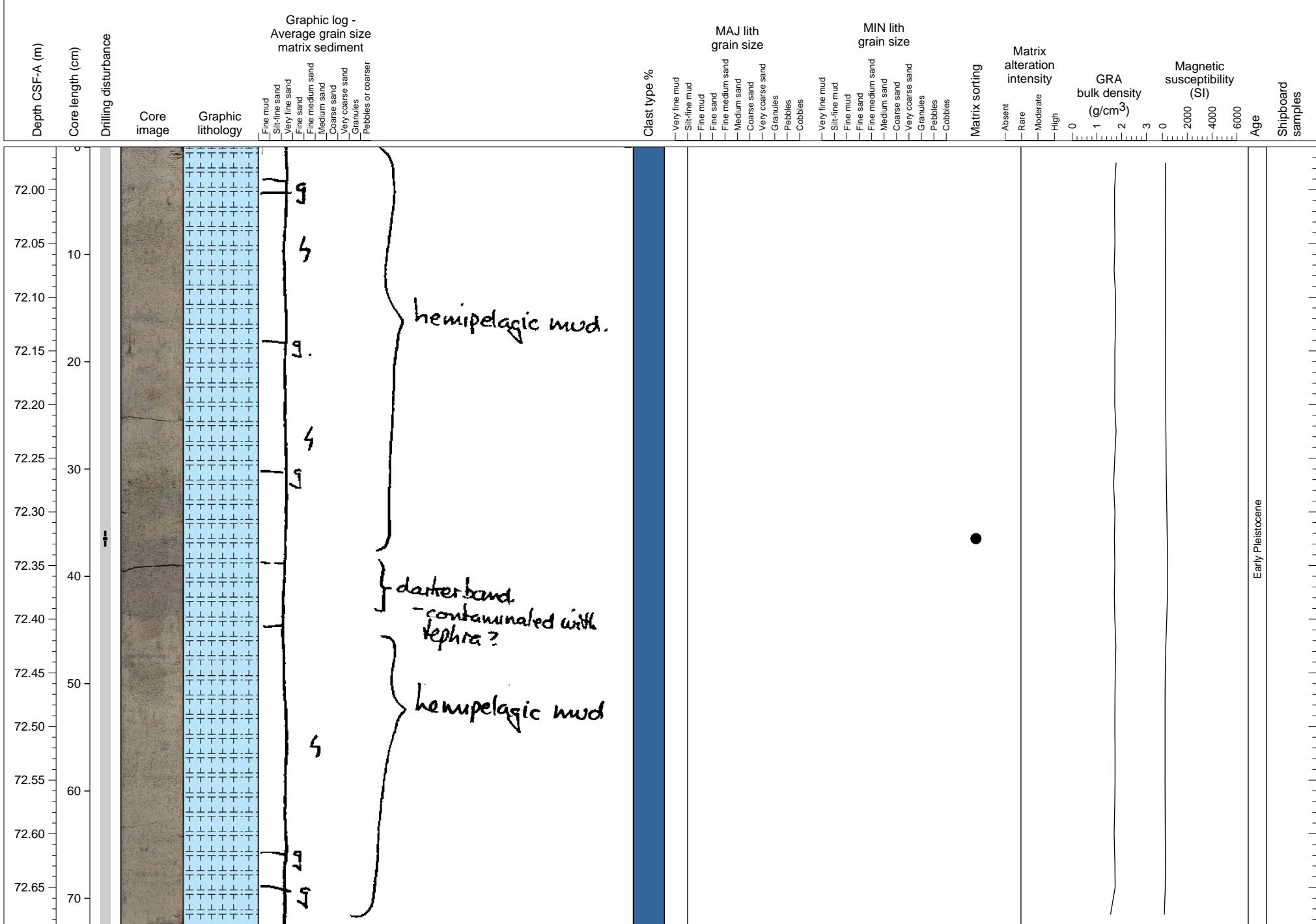
Interlayered hemipelagic clay and volcanioclastic mud. The hemipelagic clay and mud are often intimately mixed leading to darker clay bands. Significant bioturbation is present..



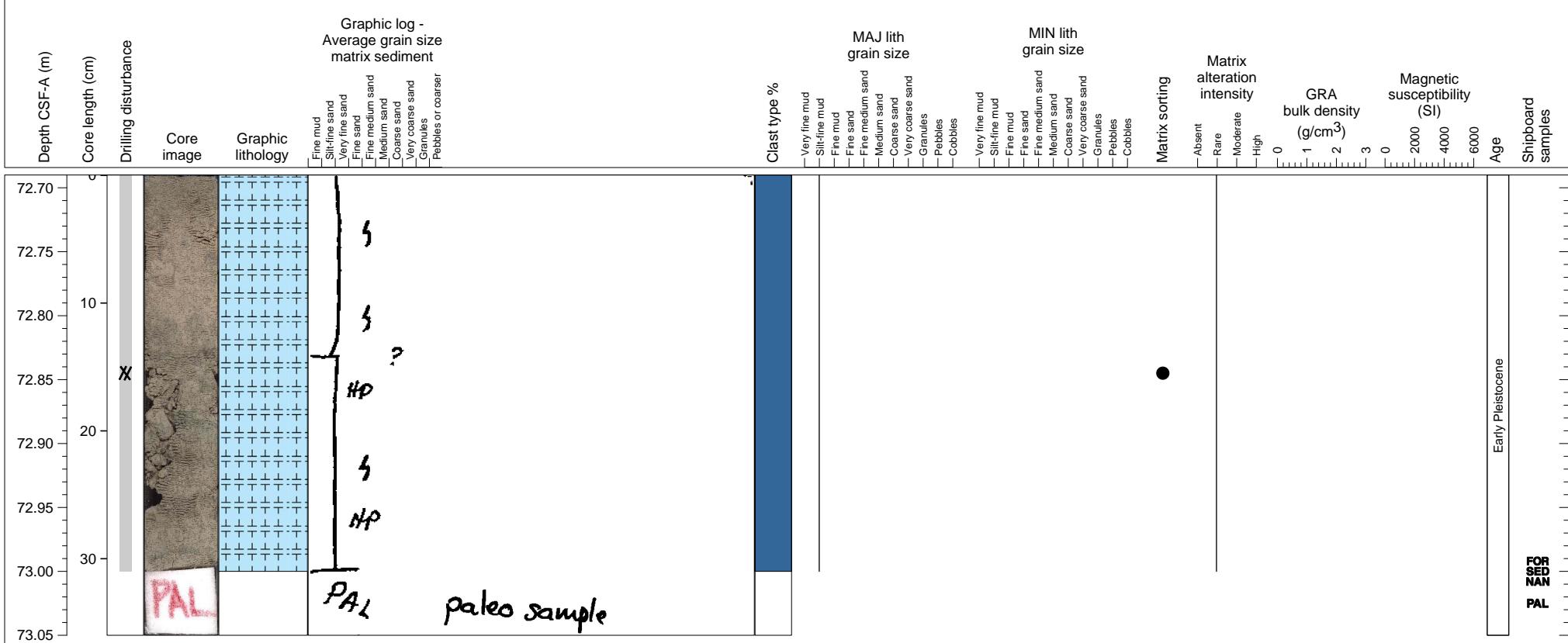
Interbedded hemipelagic ooze and volcaniclastic turbidite in various matrix contents. Three successions of normal graded volcaniclastic turbidite.



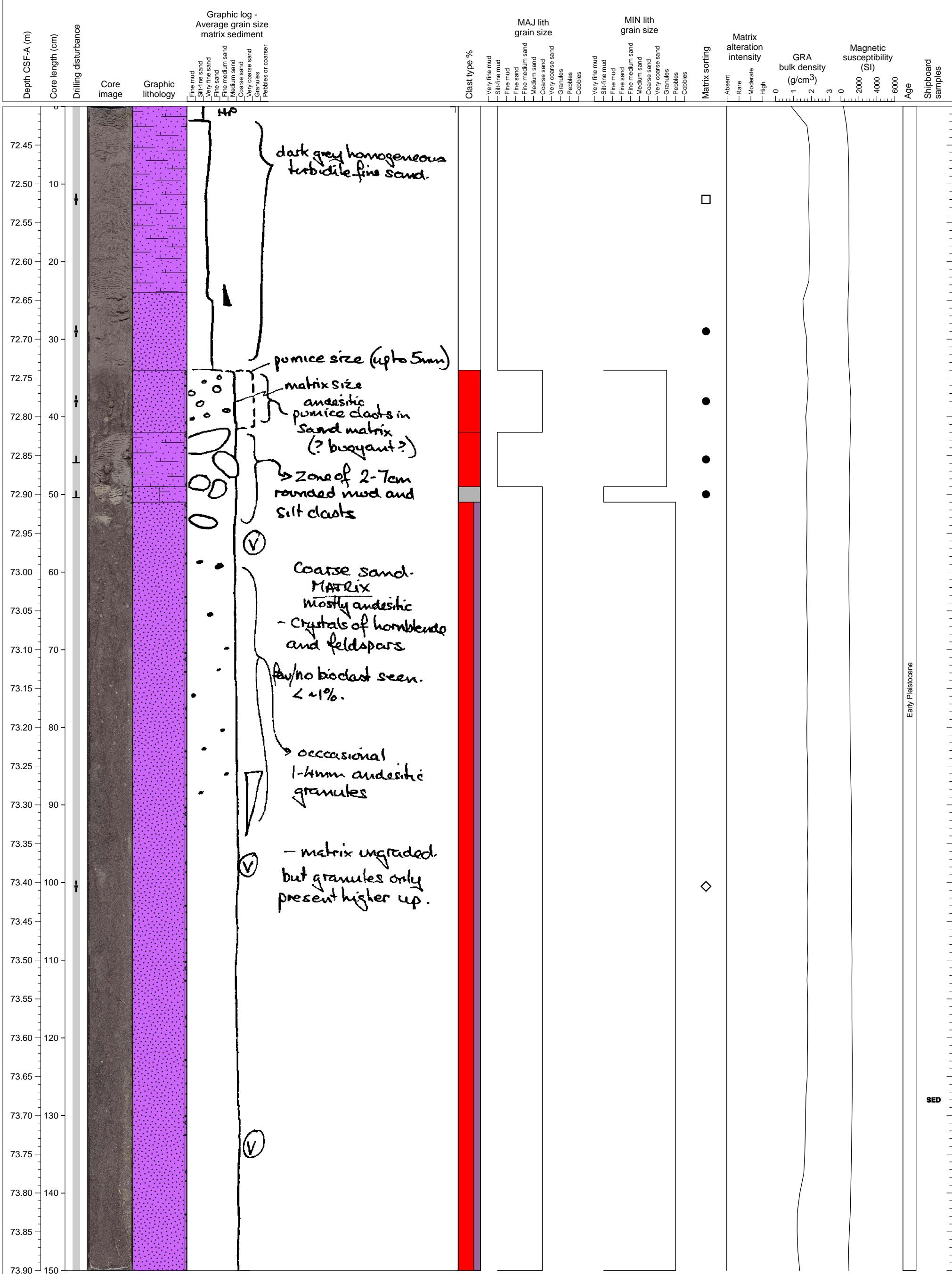
Hemipelagic clay with significant bioturbation. Darker colored lenses may reflect bioturbation or diffuse glauconite layers.



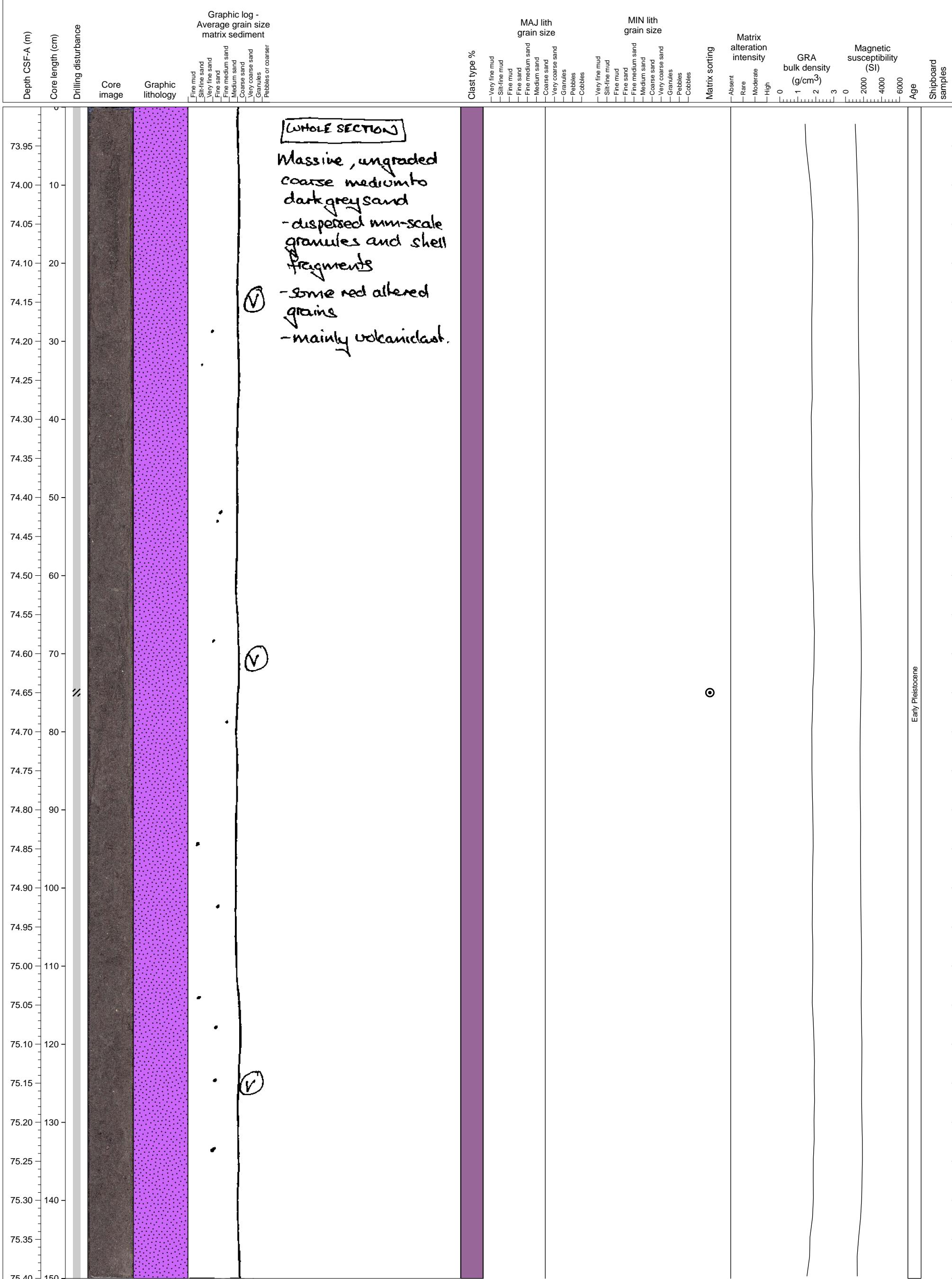
Hemipelagic clay with significant bioturbation. PAL sample from base of section.



Upper part of thick turbidite. Pebble sized pumice and silt-mud clasts look concentrated in the top of the turbidite. This is covered by a fine grained layer, and a thin turbidite.

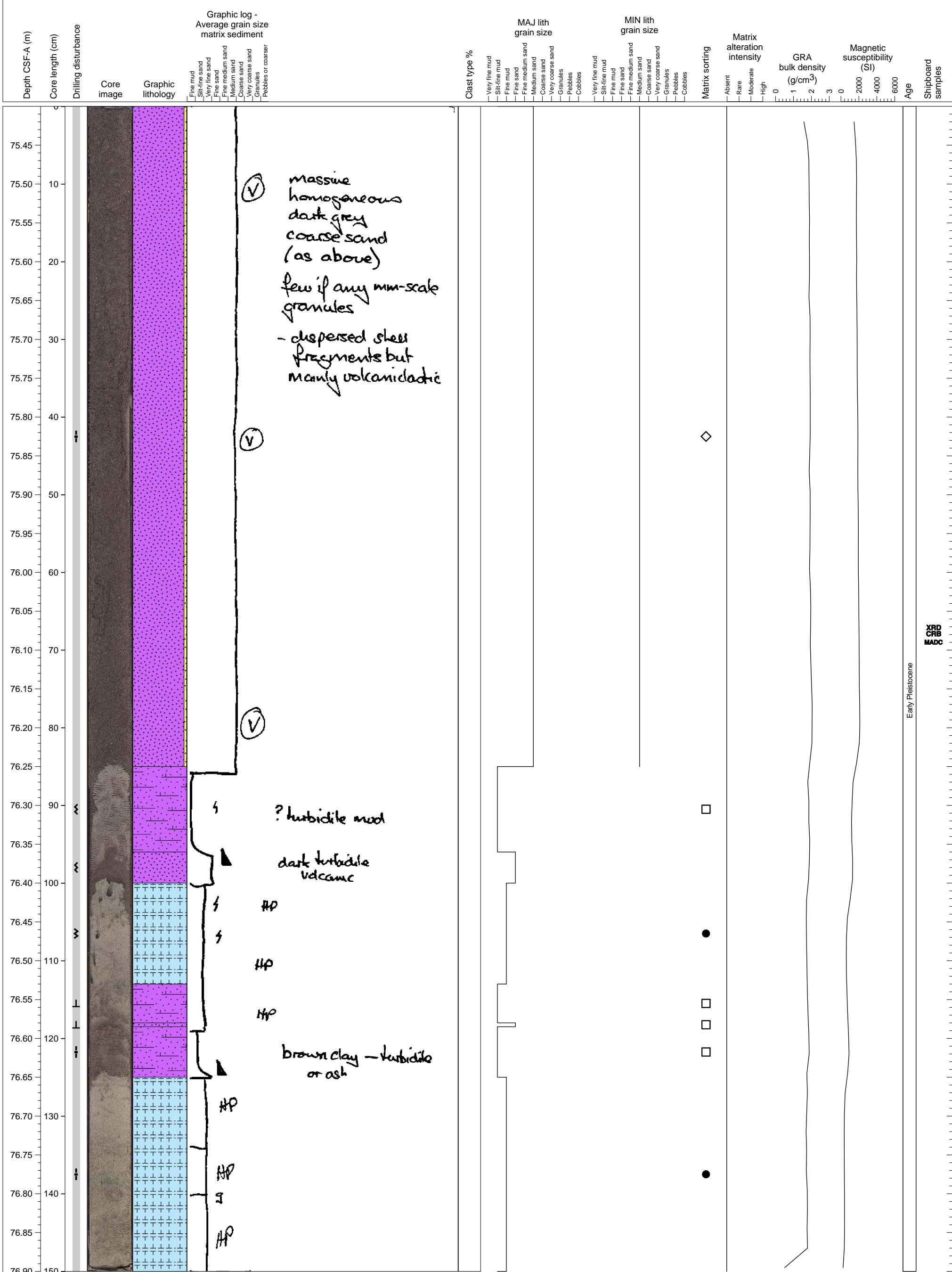


This section is a middle part of one massive turbidite, which continues from lower section and continues upward to higher section. Pumice clasts concentrate at the top of the turbidite in upper section, and the lower boundary of the turbidite, which is observed in the lower section seems eroded the lower layer. Most part of the turbidite consist of ill-sorted coarse sand, containing small amount of small pebbles of rounded andesite lava fragments.

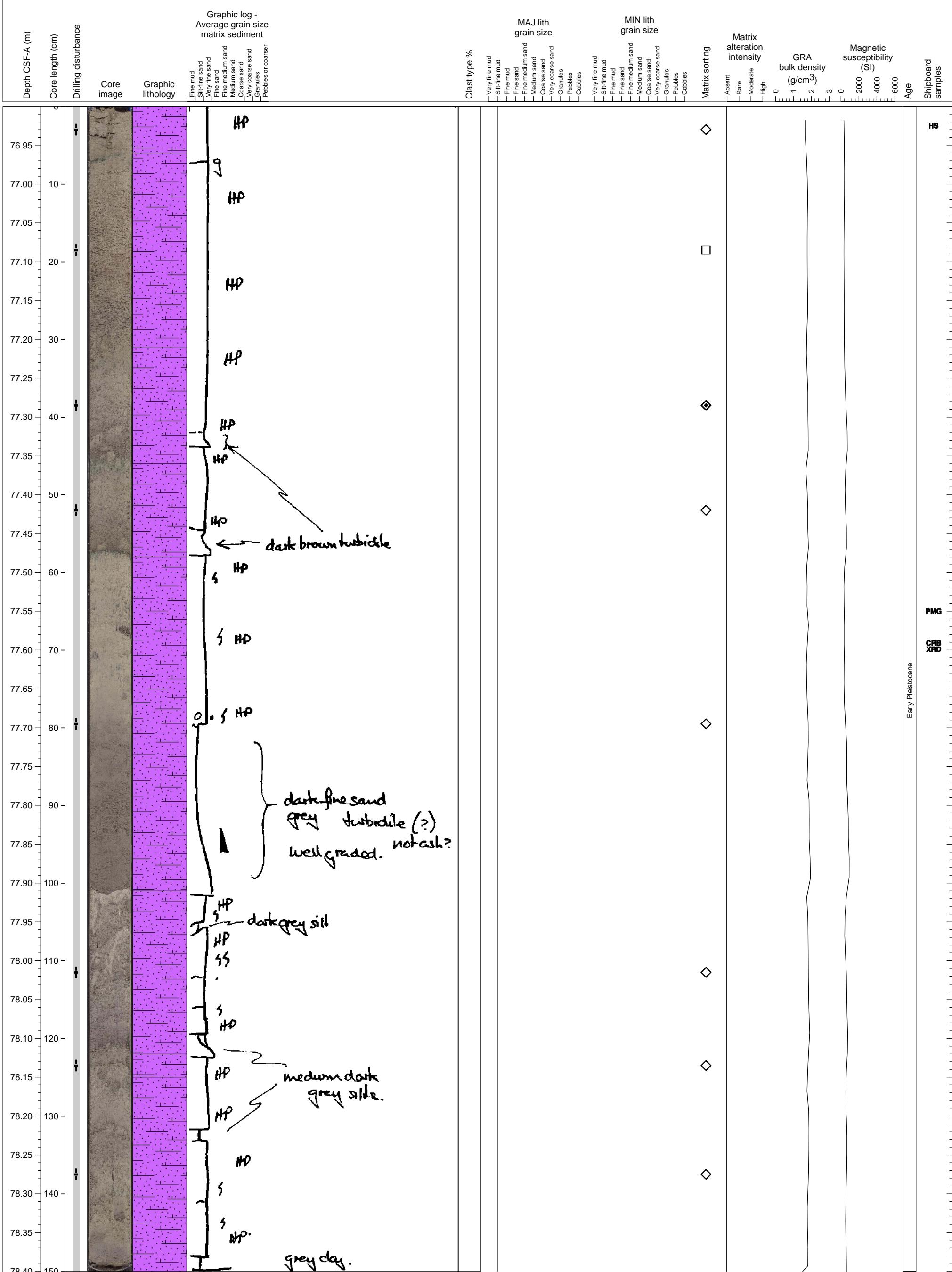


Hole 340-U1395A-10H Section 3, Top of Section: 75.4 CSF-A (m)

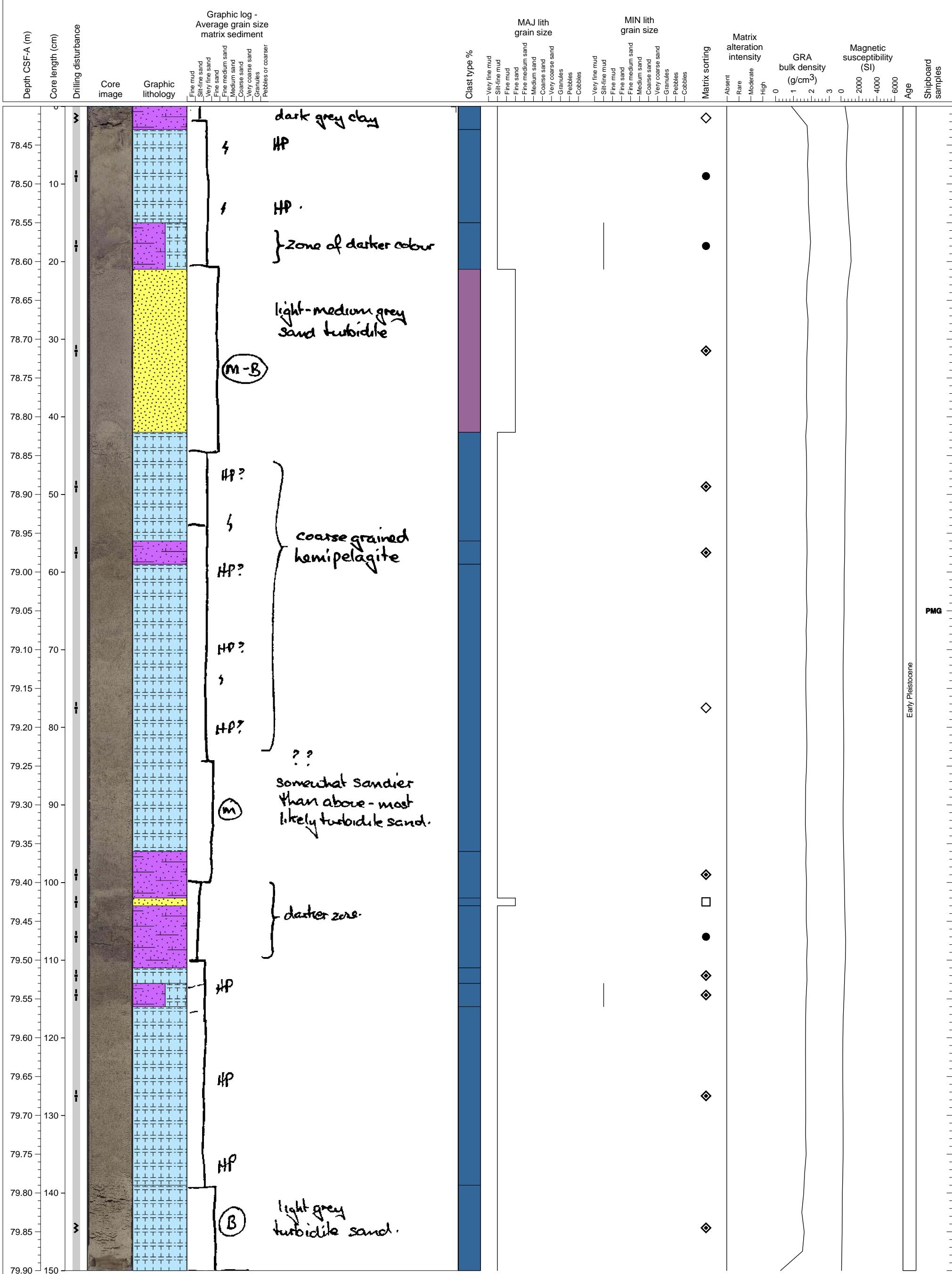
Successive turbidites interlayered with hemipelagic sediments.



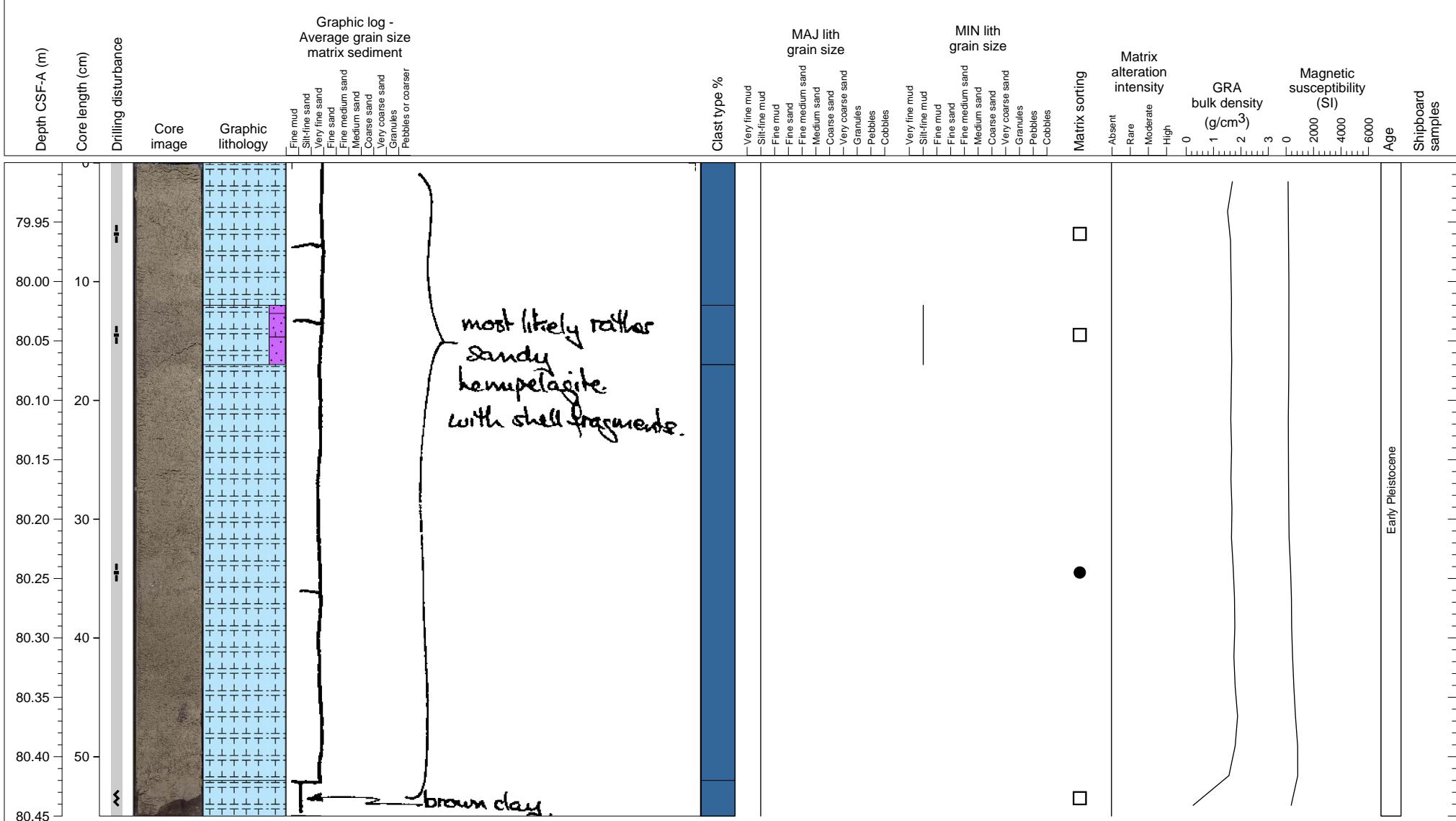
Hemipelagic mud with two dark silts.



Interlayered hemipelagic mud, some intimately mixed with volcaniclastic mud, and volcaniclastic mud layers. Significant bioturbation.

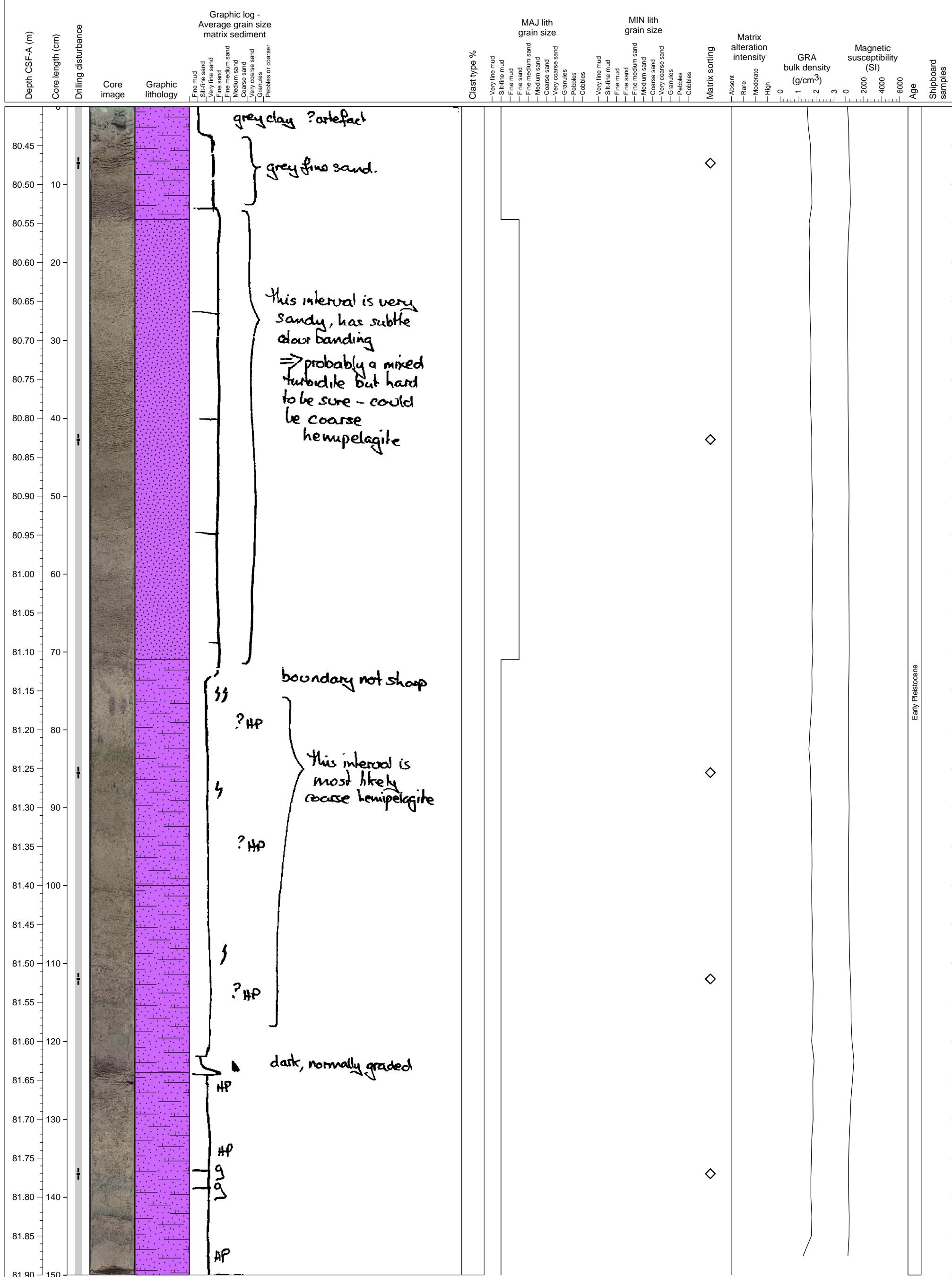


Interlayered hemipelagic clay and darker volcaniclastic mud/hemipelagic clay unit. Significant bioturbation present in some layers.

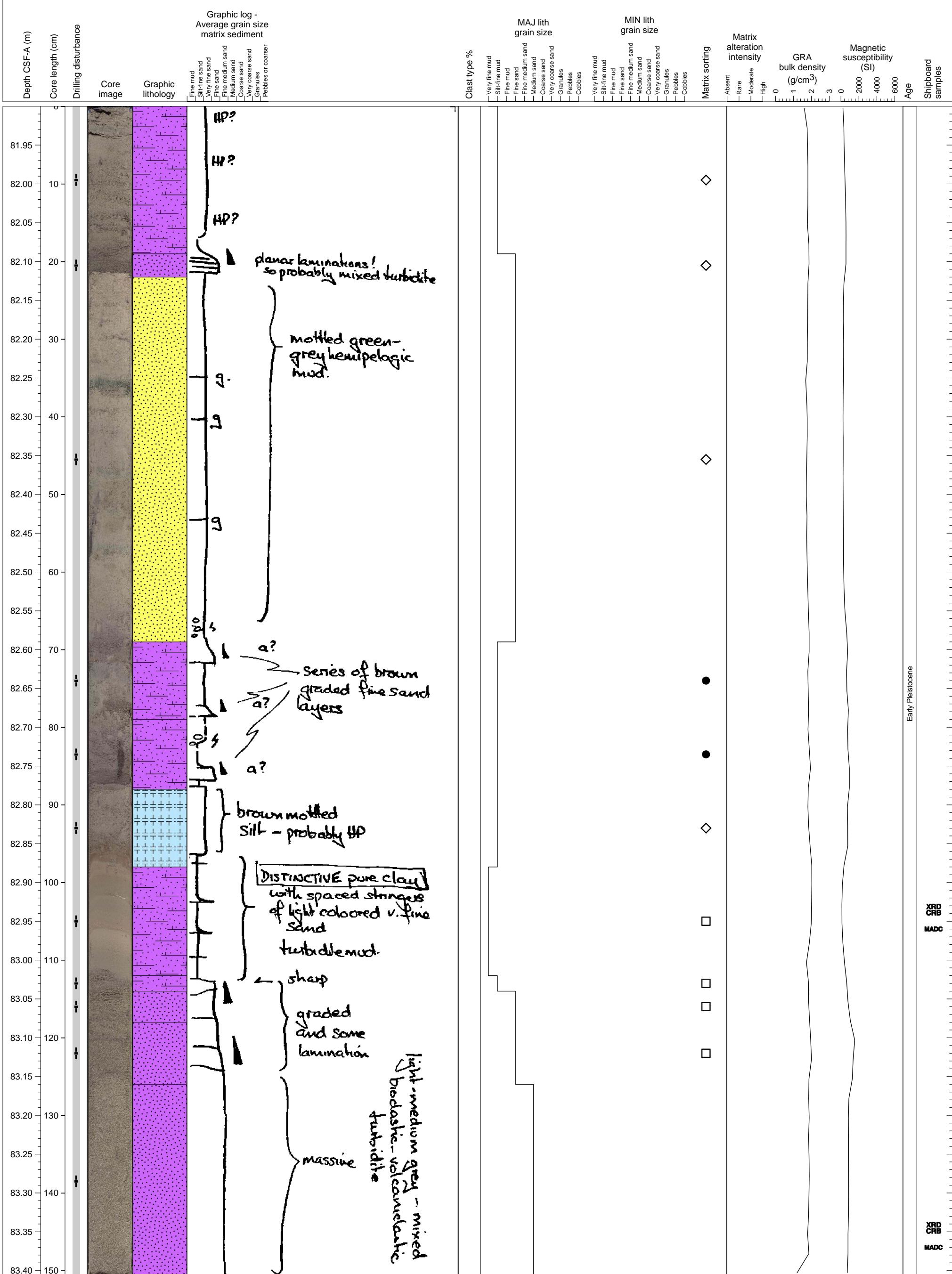


Hole 340-U1395A-11H Section 1, Top of Section: 80.4 CSF-A (m)

This section is mostly composed of four sets of turbidites fining upward from very fine sand at the bottom and fining upward, mostly silt-fine mud. From 14.5-71 cm, no clear grading is observed (massive sand). This part is a mixture of volcanic and biogenic materials. The volcanic mud at the base of the section (124-150 cm) is an upper part of turbidite, whose lower part is observed in the next section 2-A.

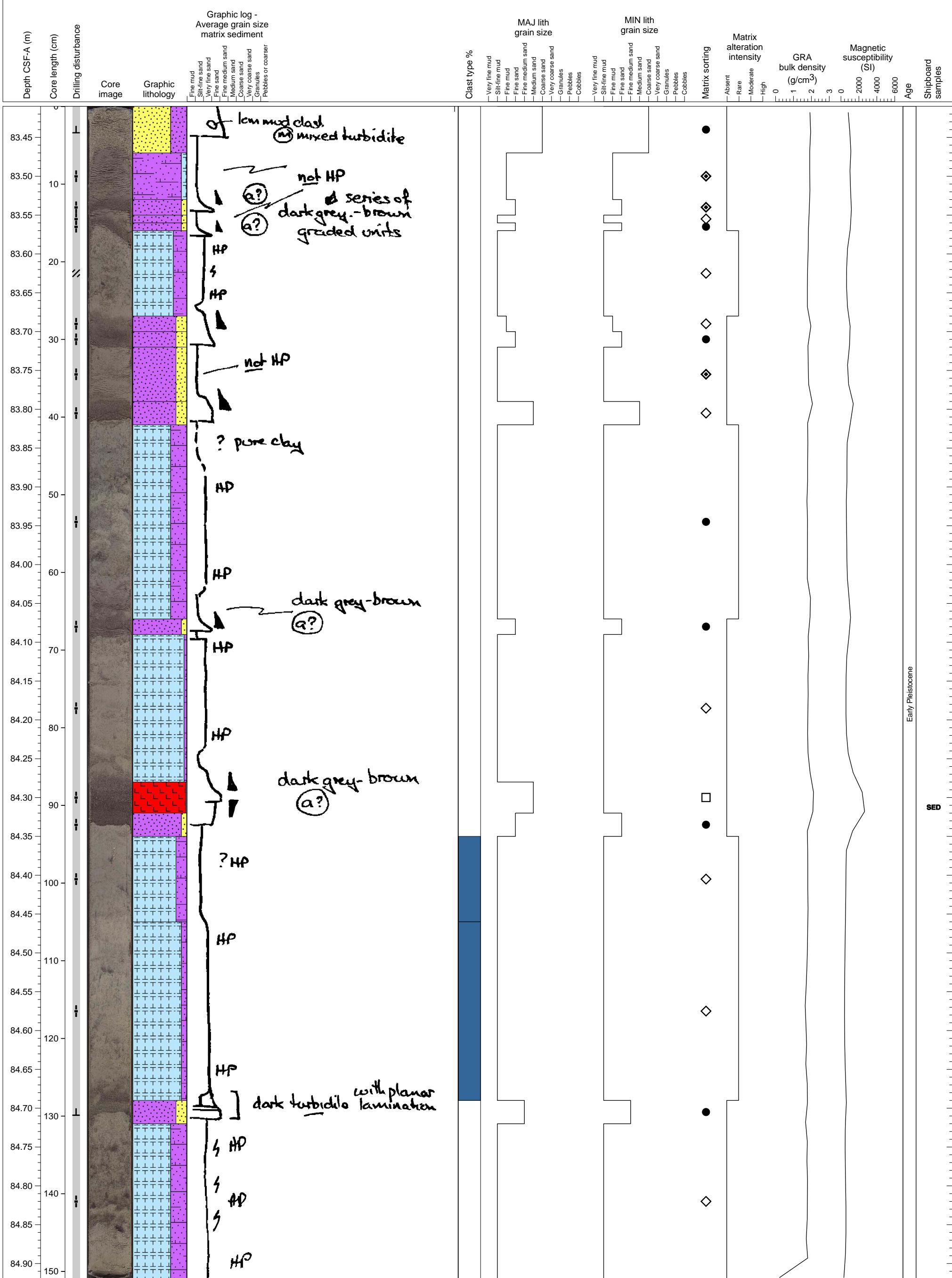


This section has four sets of turbidites; hemipelagic sand and hemipelagic mud sits between these turbidites at 22-69 cm and 88-98 cm. The turbidite from 98-150 cm continues upward from medium sand through fine sand, very fine sand, silt to very fine mud.



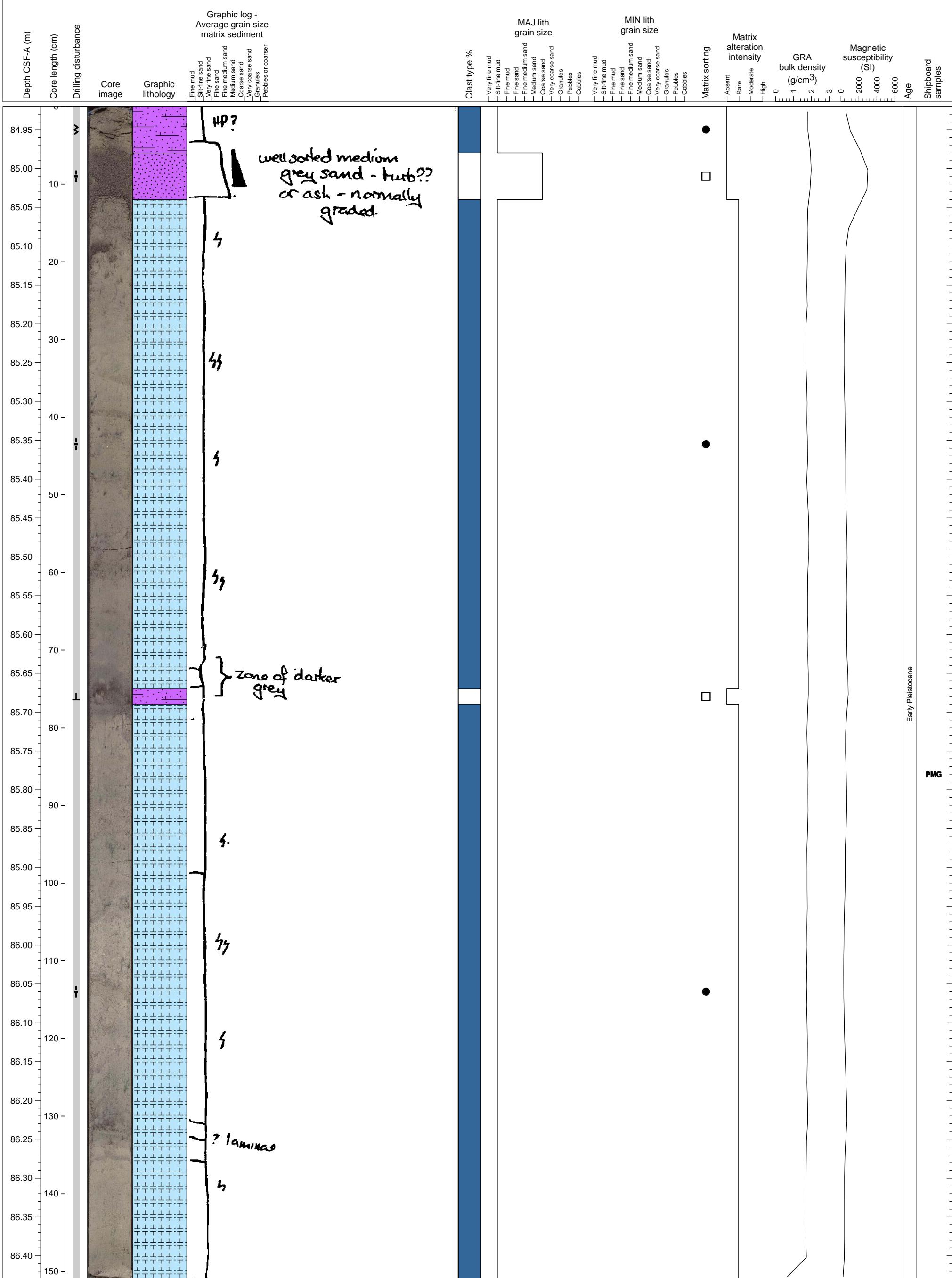
Hole 340-U1395A-11H Section 3, Top of Section: 83.41 CSF-A (m)

"Five successions of volcanioclastic turbidites and hemipelagic carbonate ooze. A well sorted coarser-grained ash layer (tephra, which contains plagioclase and amphibole crystals) is observed at 87 cm."



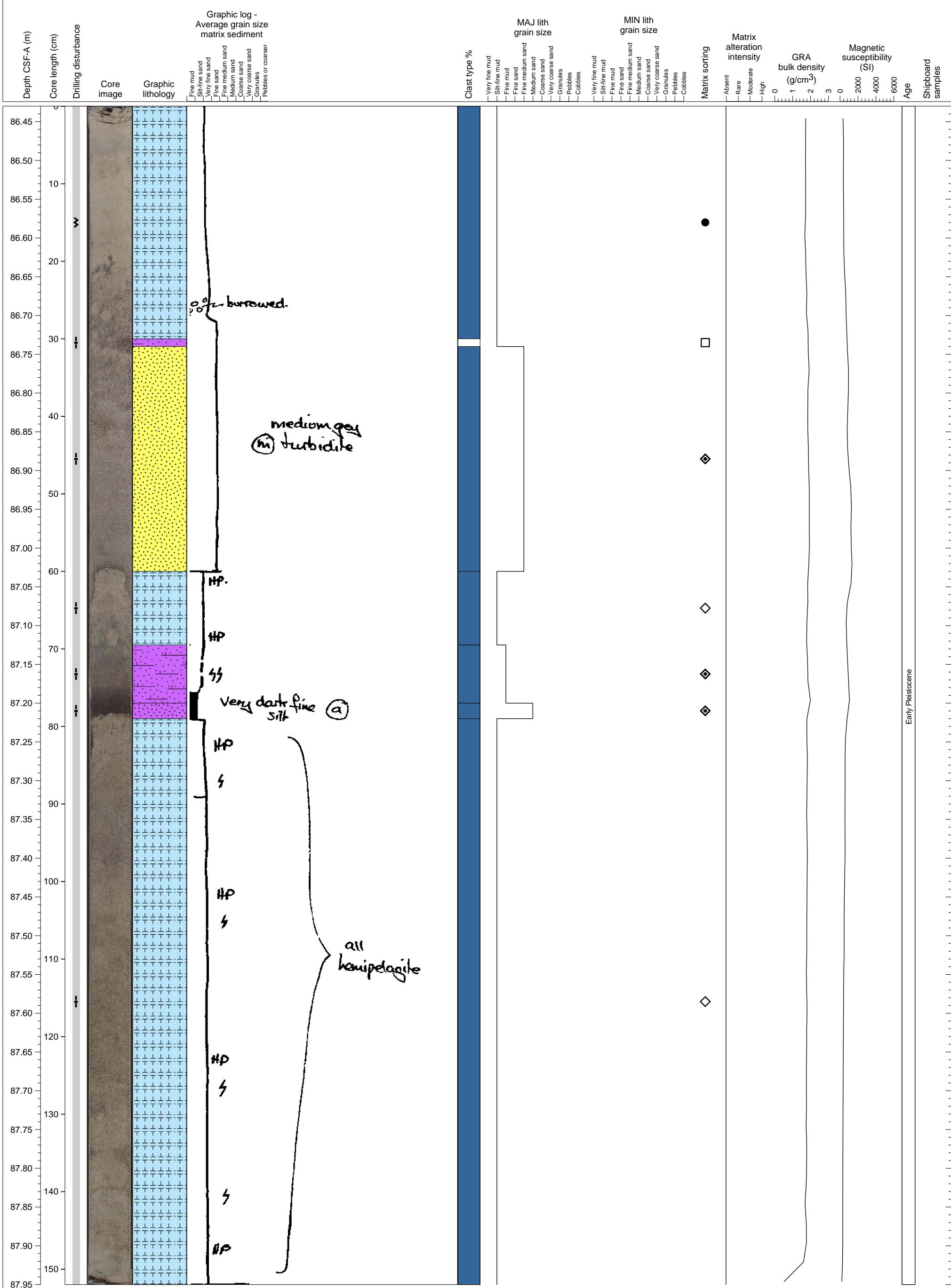
Hole 340-U1395A-11H Section 4, Top of Section: 84.92 CSF-A (m)

Hemipelagic clay containing a diffuse volcaniclastic mud or ash layer at section base. Top of section is a volcaniclastic fall or turbidite deposit which fines upward from coarse sand to mud.

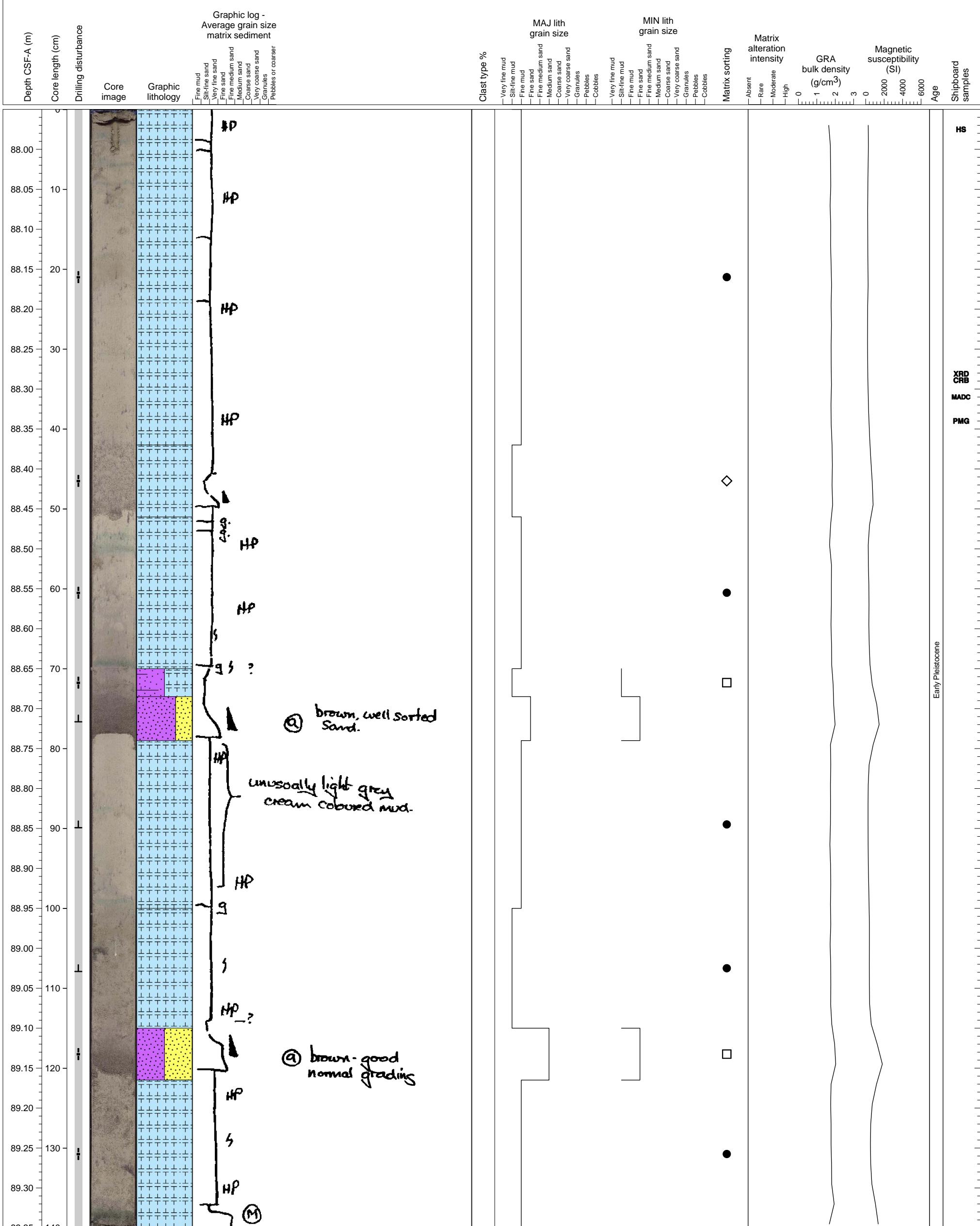


Hole 340-U1395A-11H Section 5, Top of Section: 86.43 CSF-A (m)

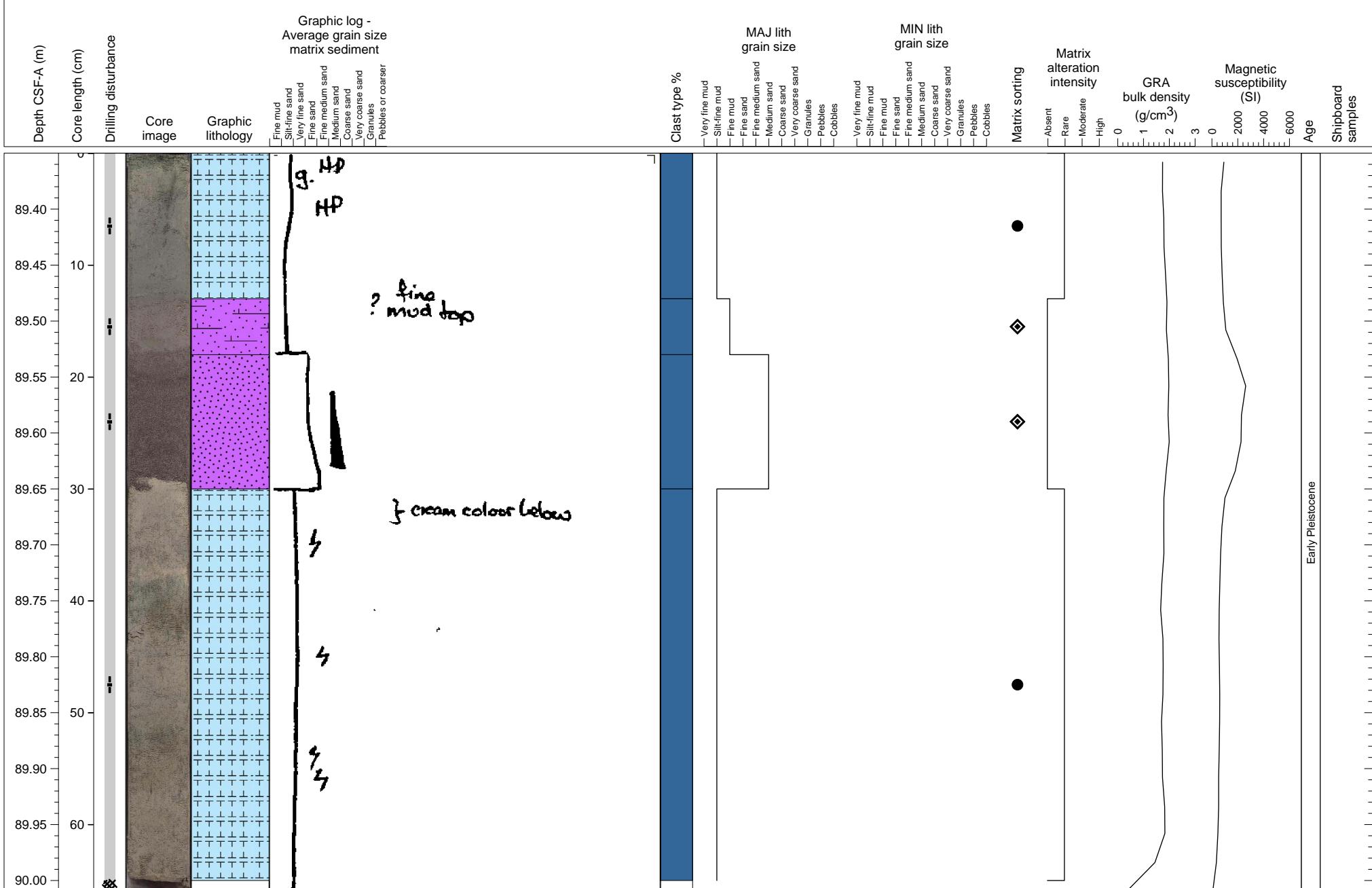
Hemipelagic clay with massive bioturbation interlayered with a fining upward volcaniclastic turbidite sequence and a diffuse volcaniclastic mud or ash layer.



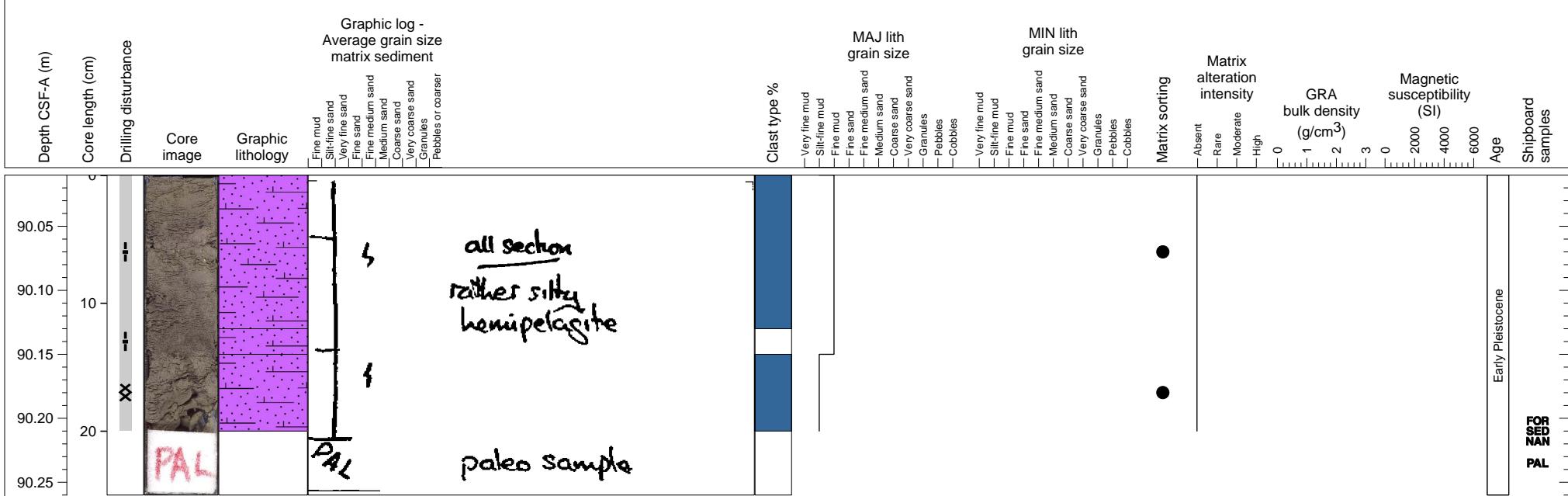
Hemipelagic sediments interlayered with volcaniclastic and bioclastic turbidites



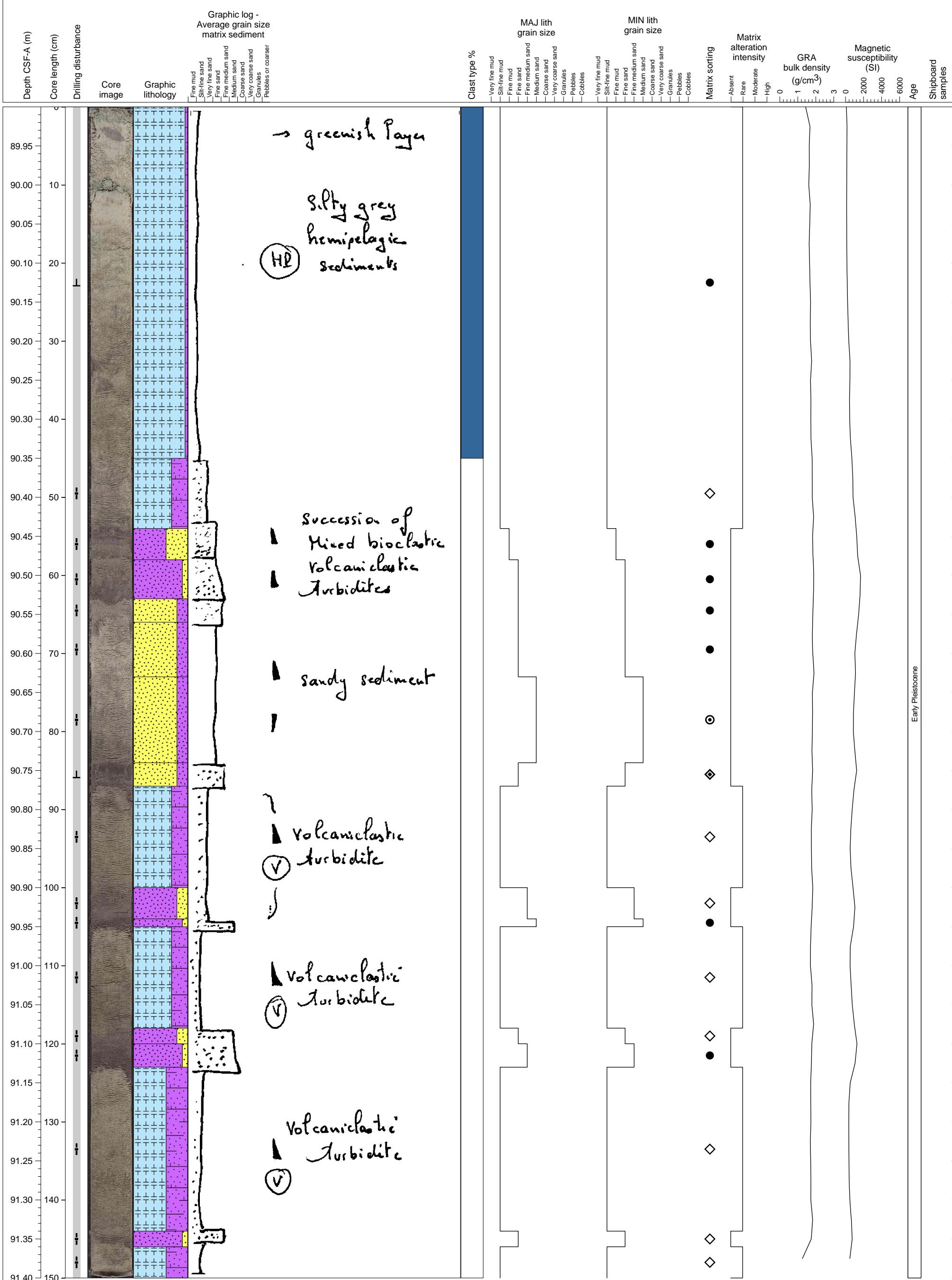
Hemipelagic clay showing massive bioturbation bracketing a fining upward volcanioclastic turbidite unit. Void at section base.



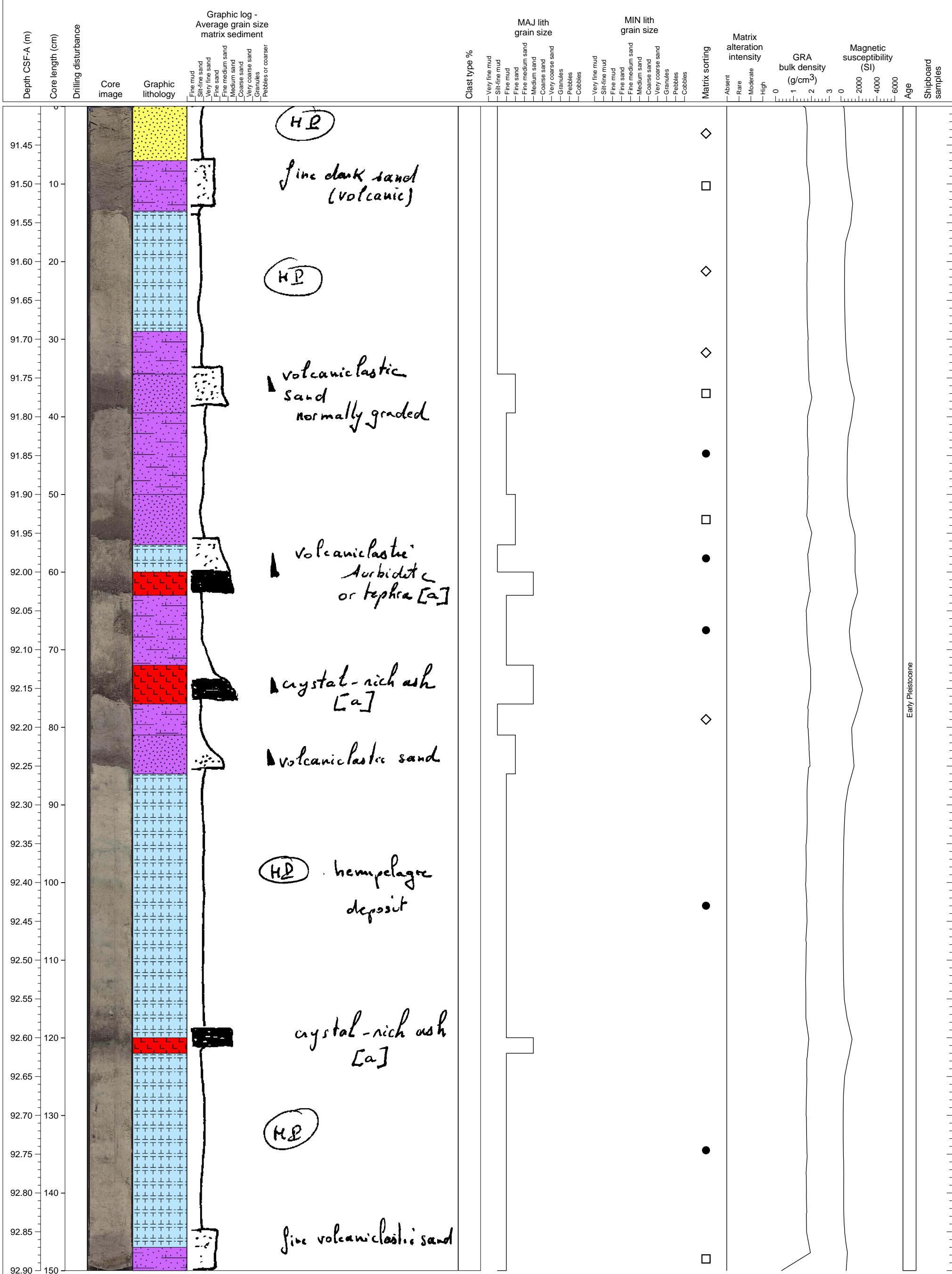
Heavily bioturbated volcanioclastic mud with a diffuse volcanioclastic mud or ash layer interlayered. PAL sample taken from base.



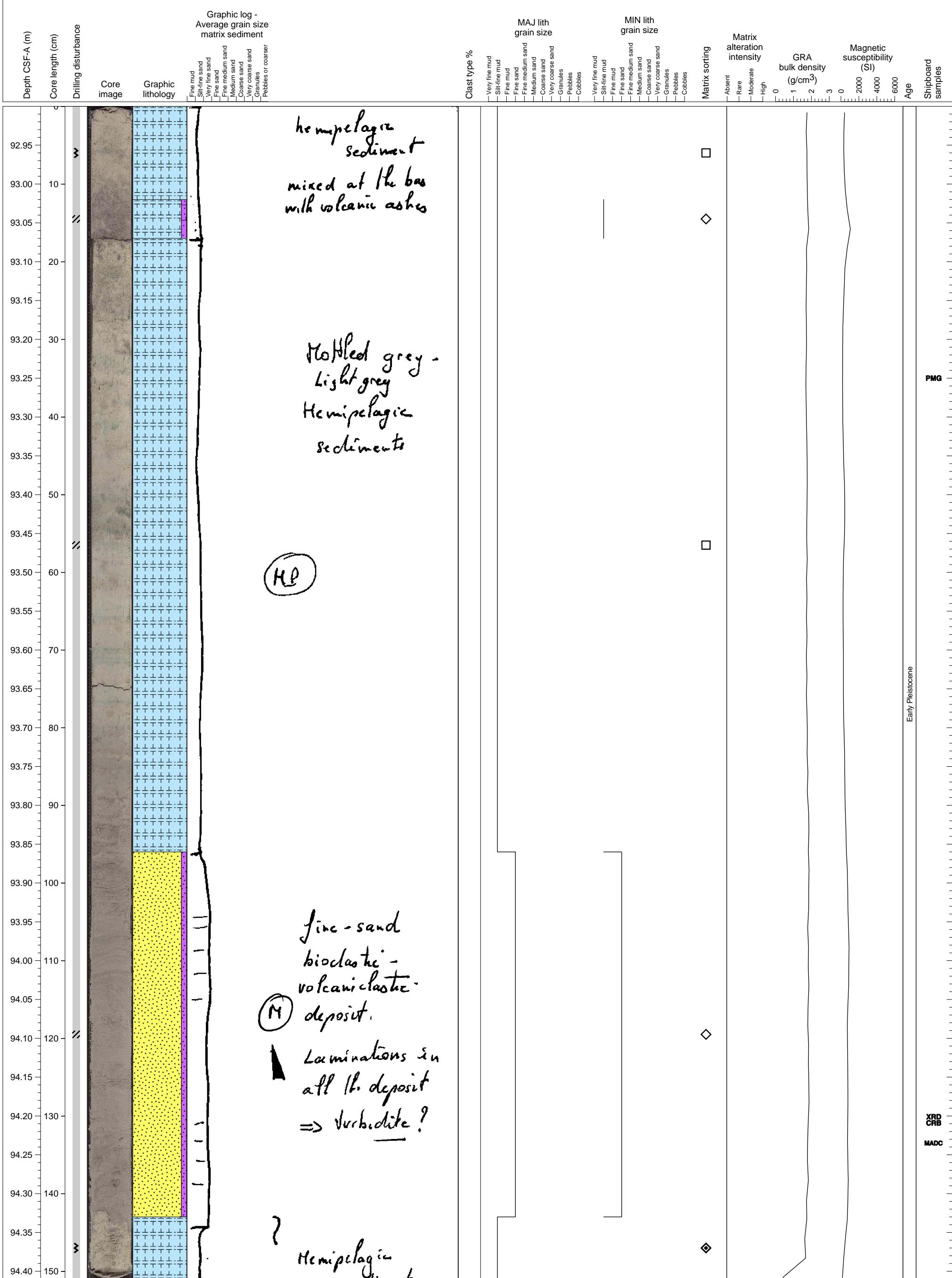
Uppermost part is a strongly bioturbated hemipelagic carbonate ooze. It is followed by a succession of volcaniclastic turbidites. Each sequence gradually varies from lower volcanoclast rich to upper carbonate ooze rich parts.



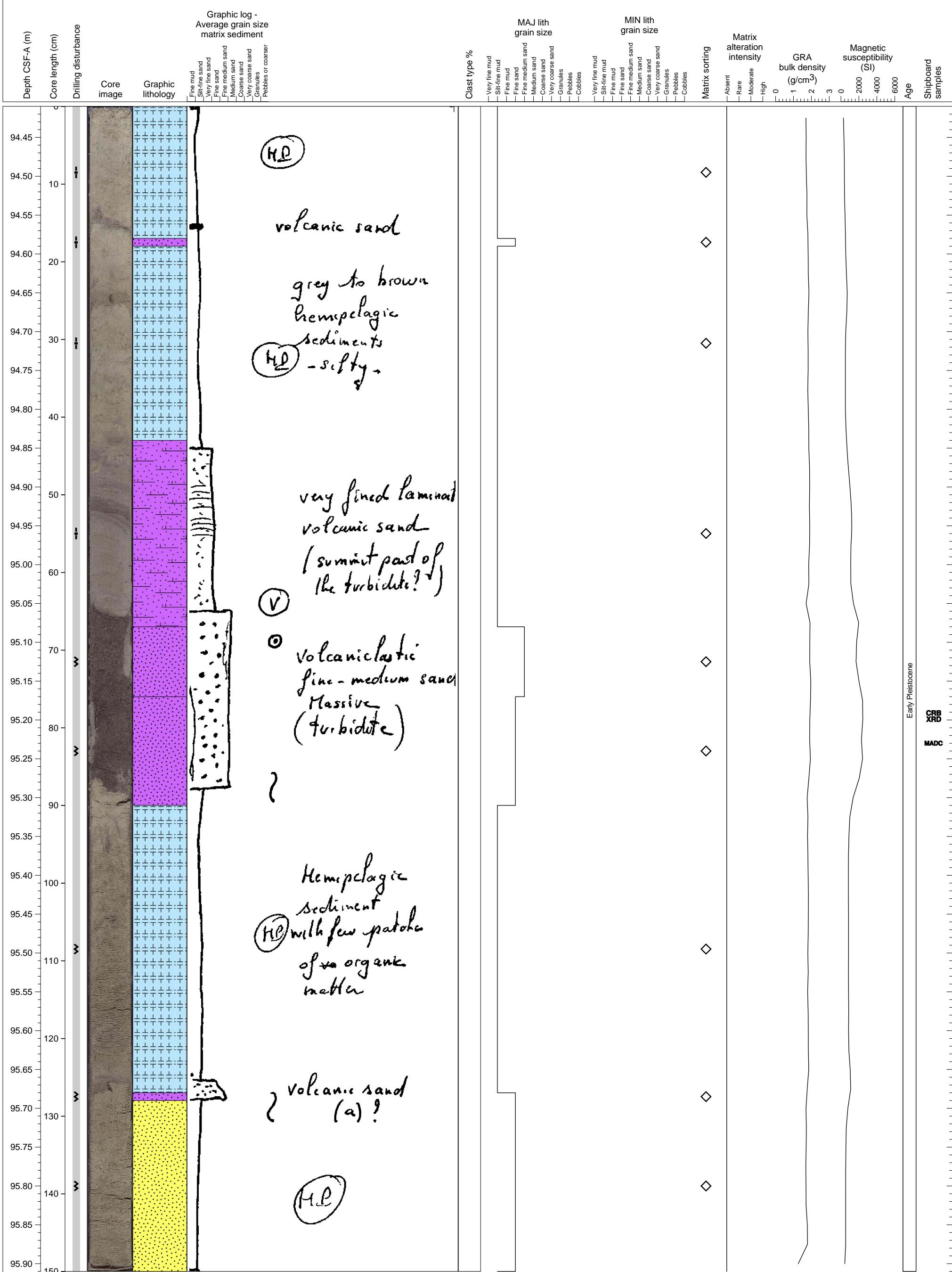
Hemipelagic sediments interlayered by at least three crystal-rich tephra layers and turbidites.



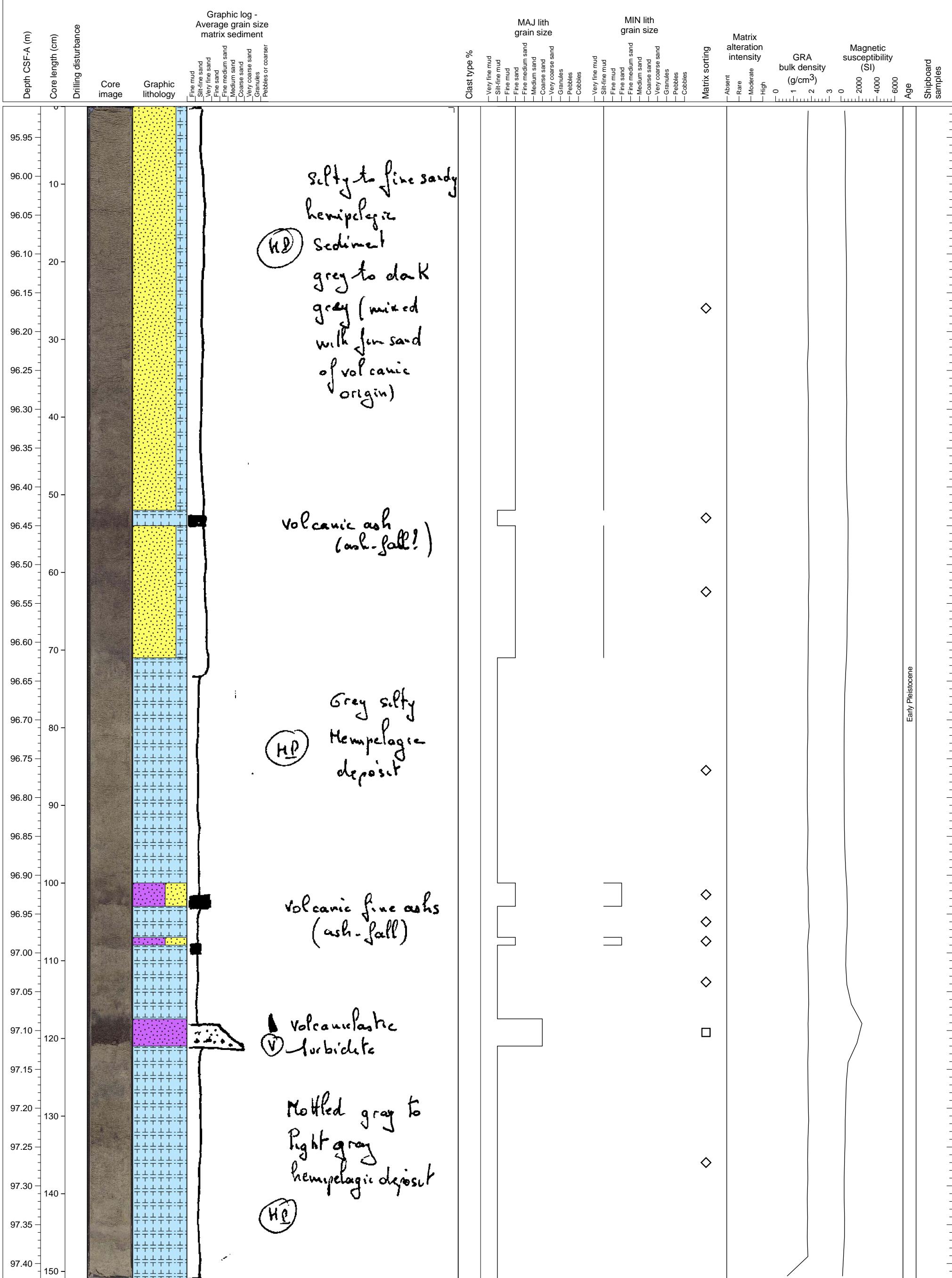
Hemipelagic sediments intercalated with laminated mixture of bioclastic and volcaniclastic turbidite layers.



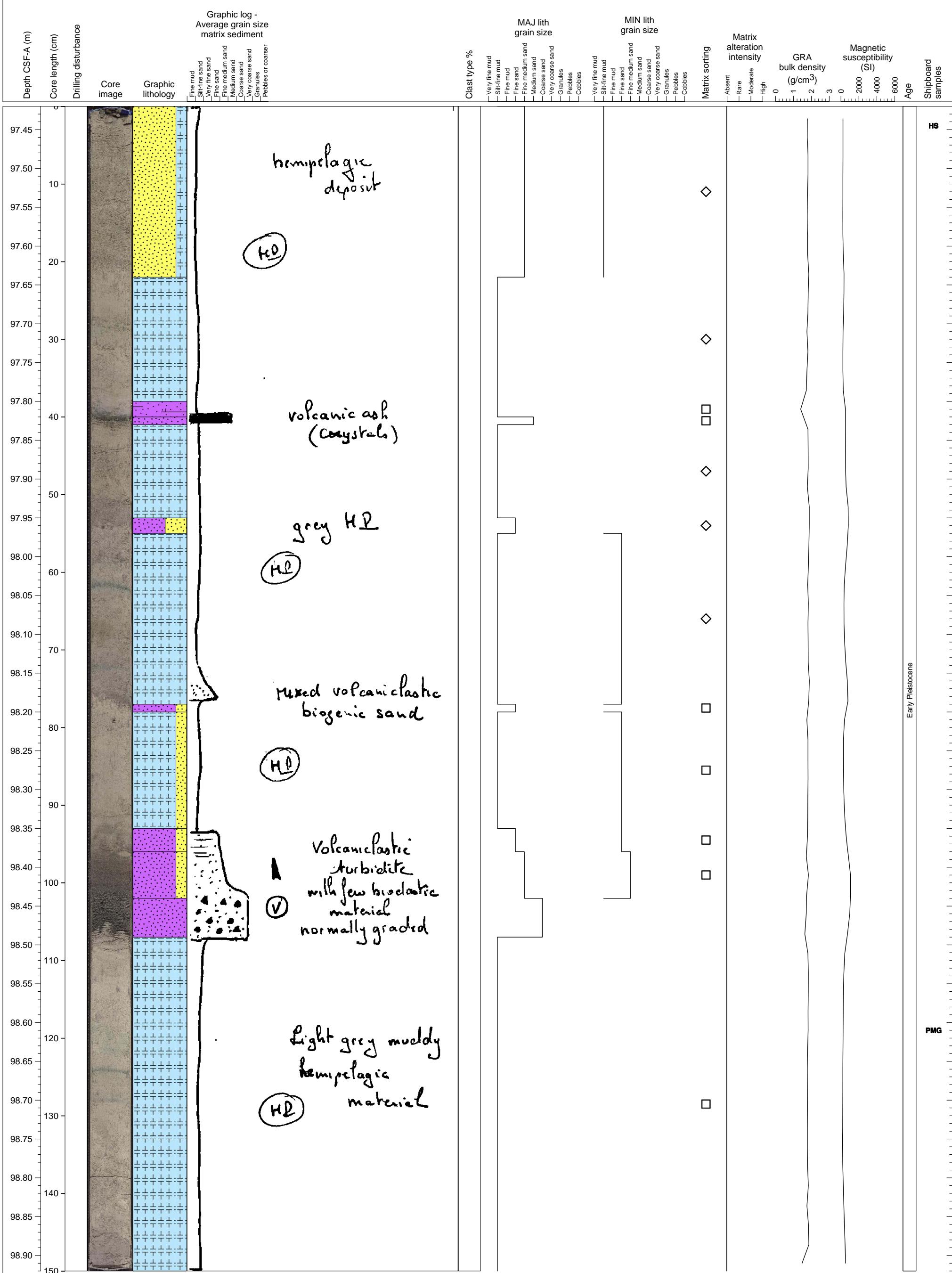
No clear turbidite is observed in this section. This section consists of alternation of volcanic sand and mud and mostly hemipelagic sand and mud.



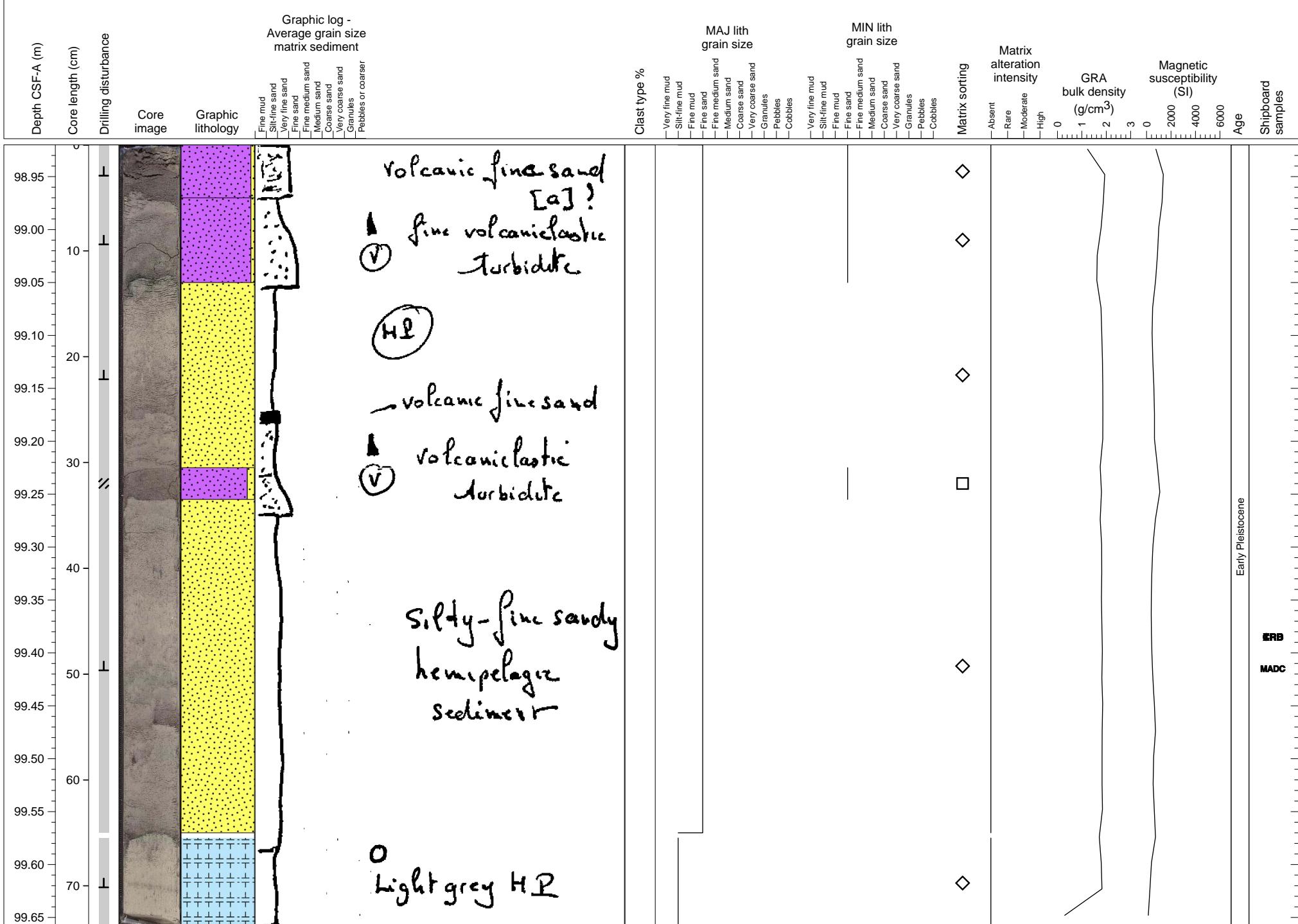
Hemipelagic sediments with a couple of intercalations of volcaniclastic and mixed turbidites.



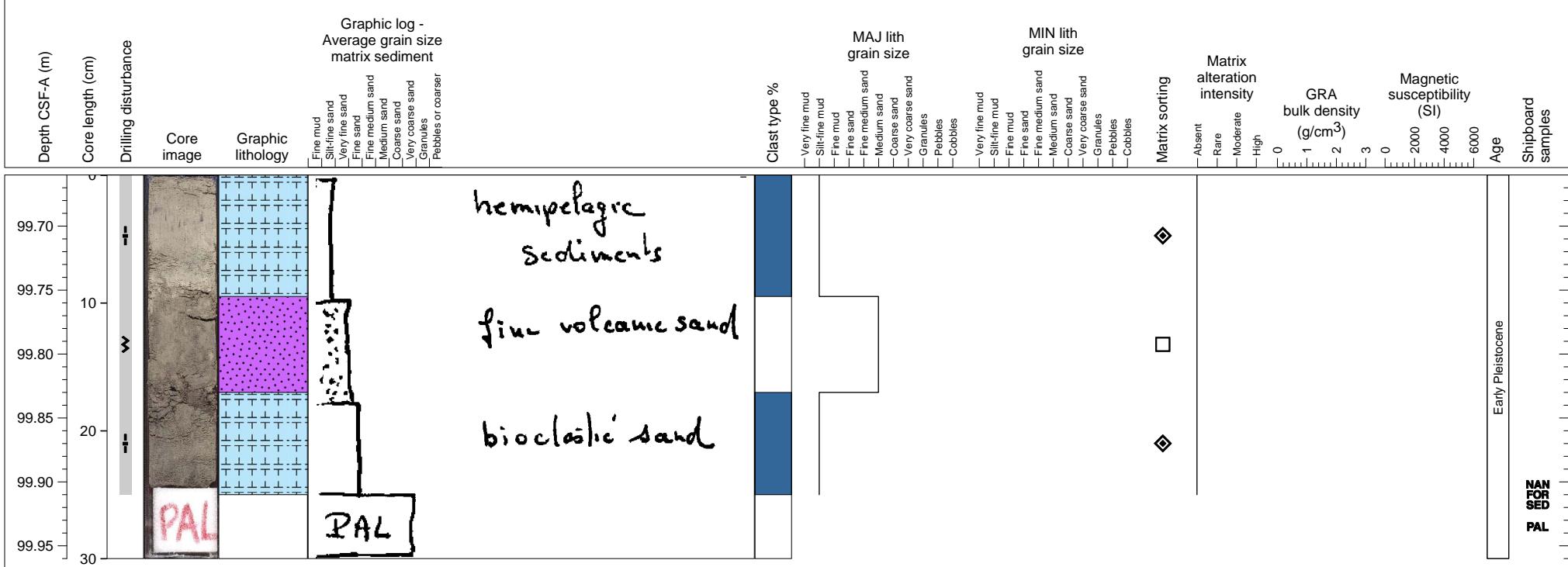
Hemipelagic fines with intercalations of volcaniclastic turbidite with one crystal rich ashfall layer.



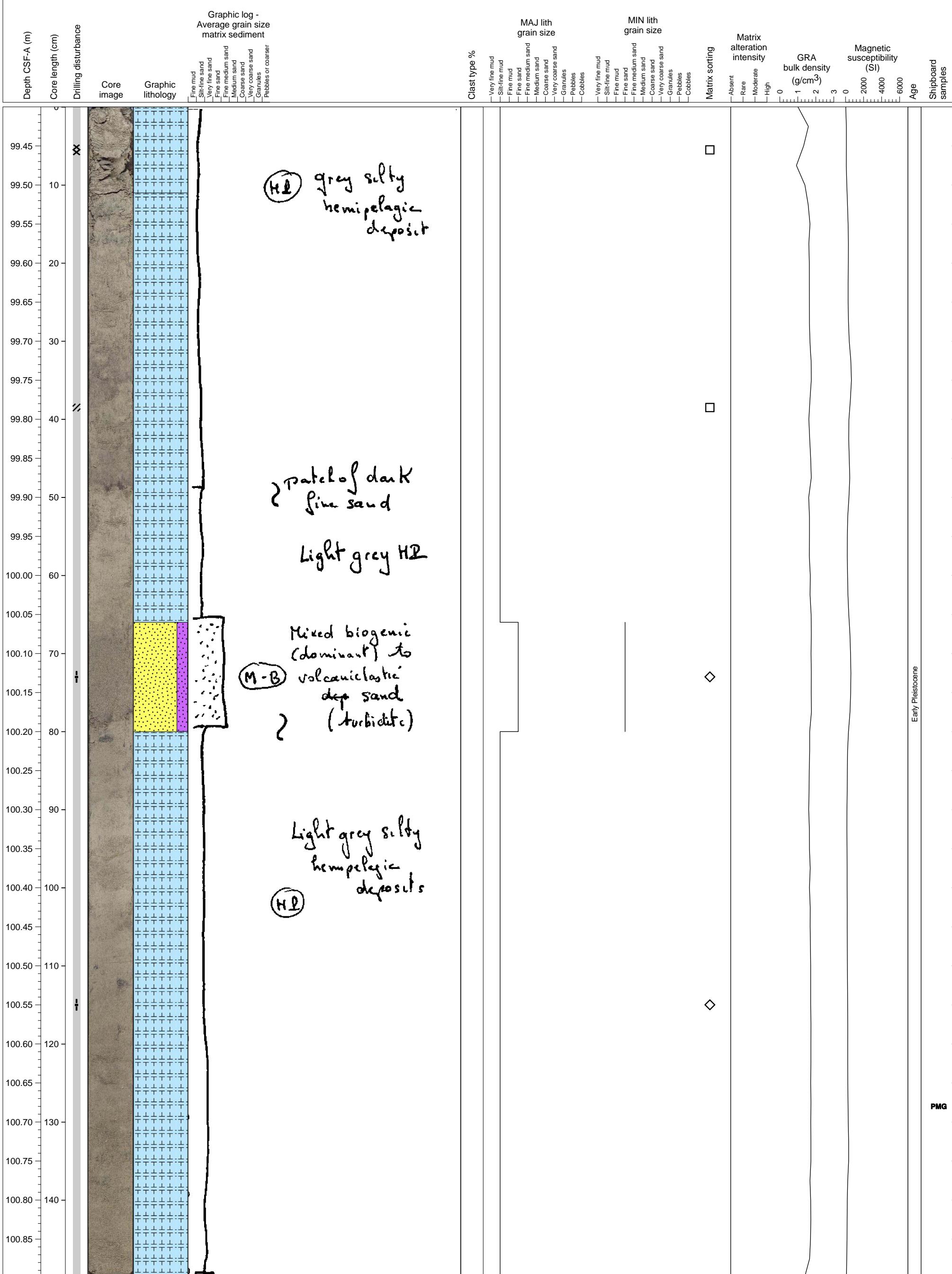
Predominantly hemipelagic sediments with two stacked turbidites atop and a thin ash layer.



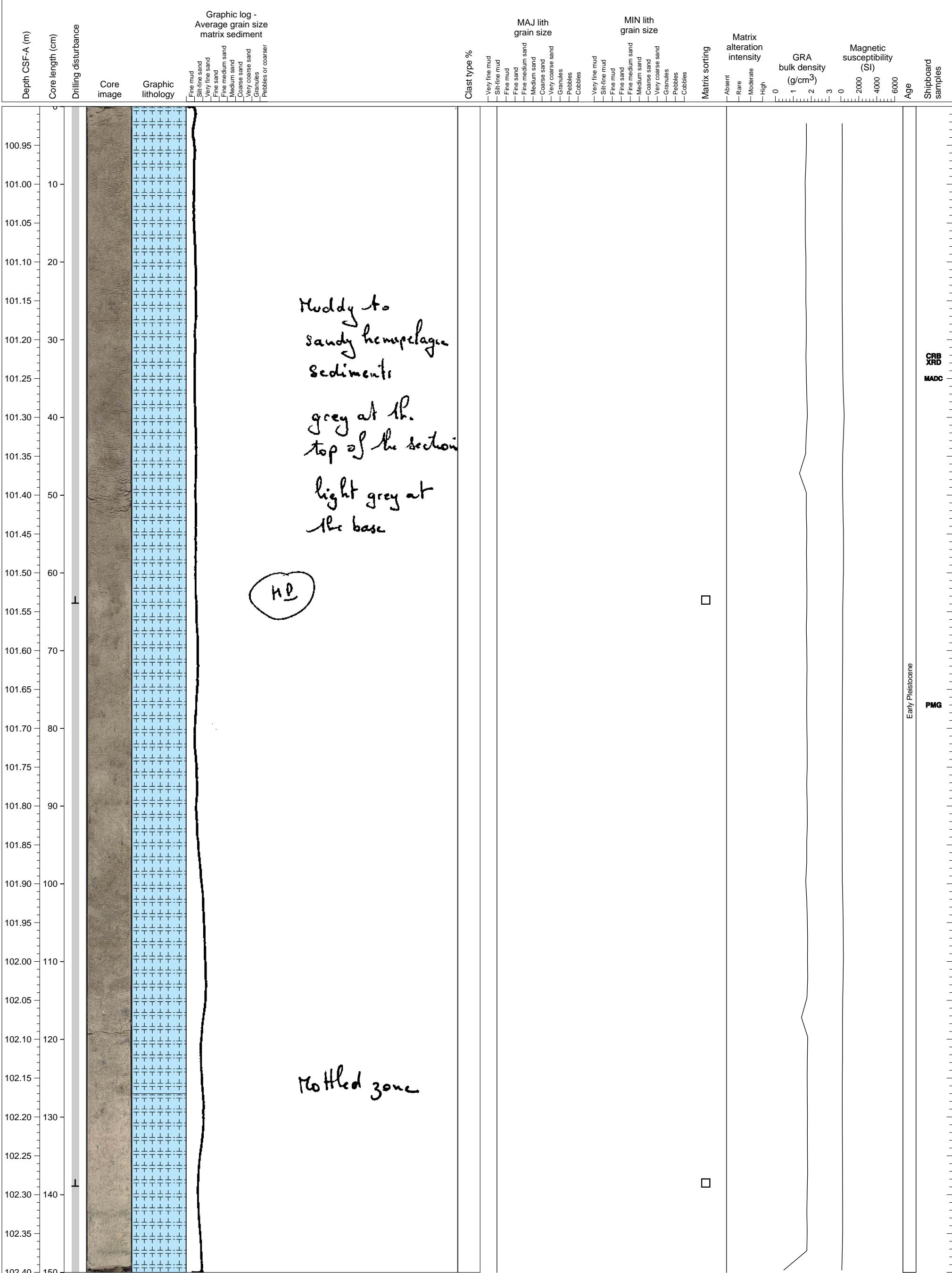
Interlayered hemipelagic clay with volcanioclastic turbidite. Significant bioturbation is present.



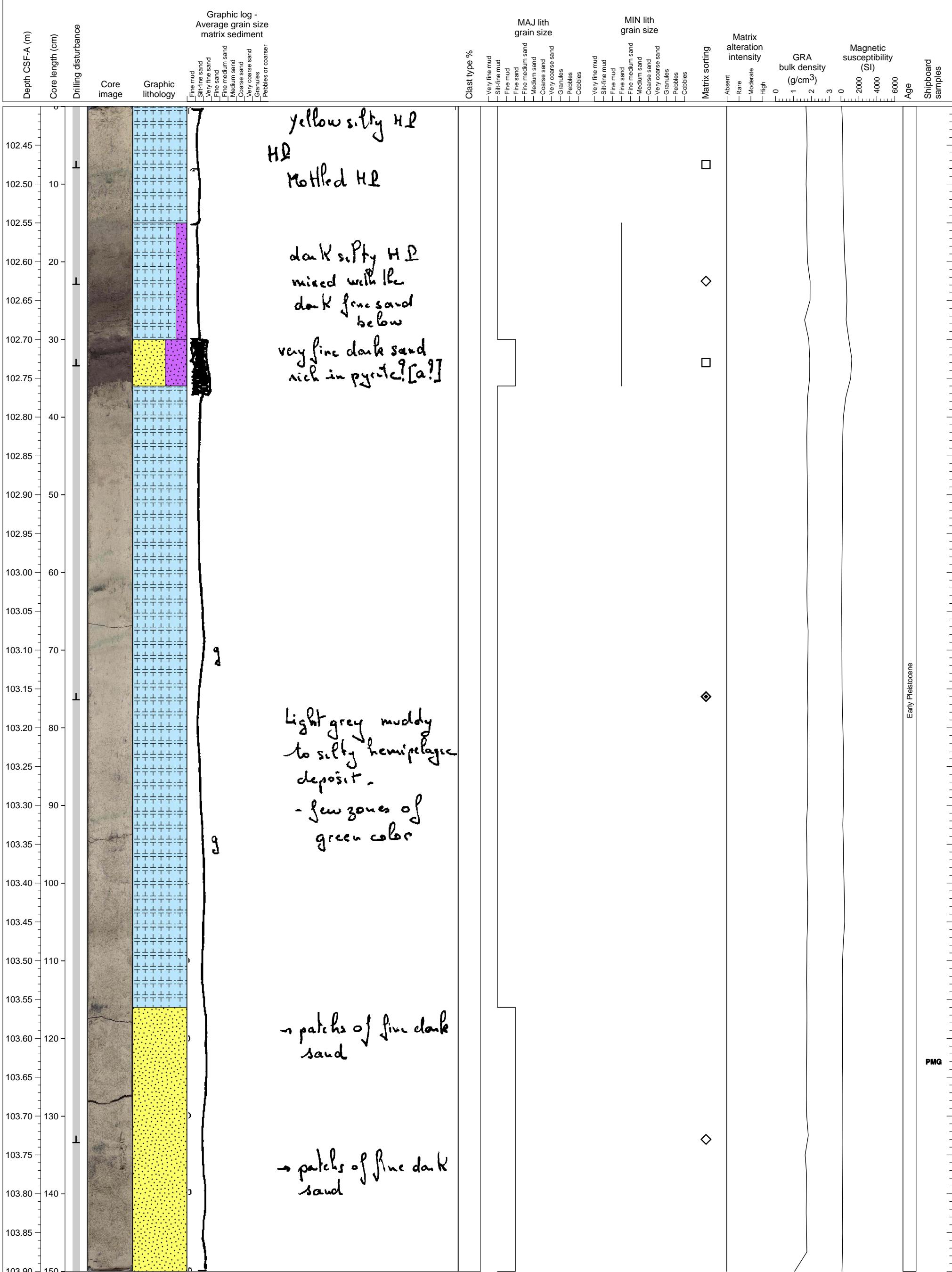
Hemipelagic sediment with a mixed bioclastic-volcaniclastic turbidite.



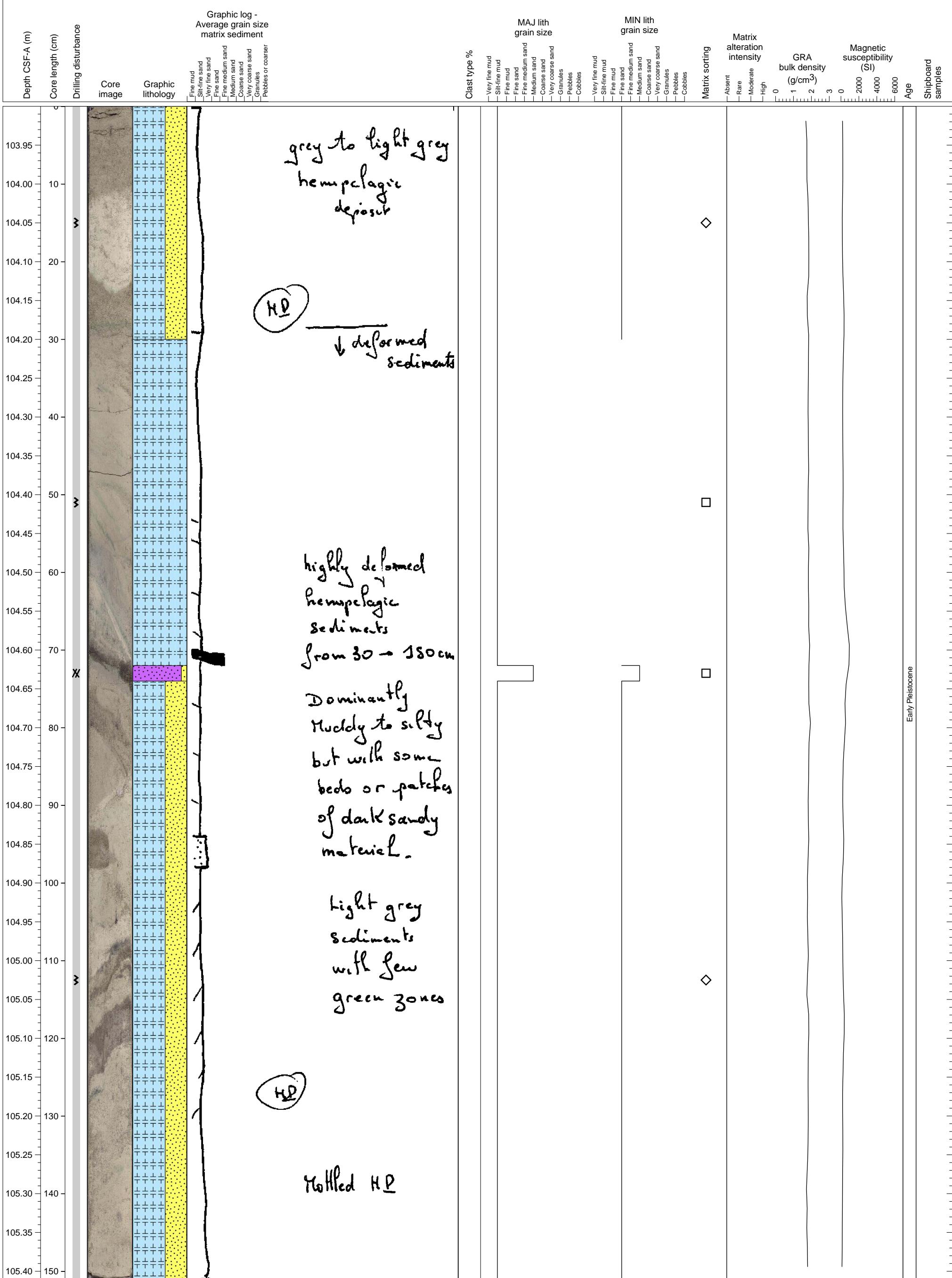
Hemipelagic sediments, heavily disturbed, but not by drilling.



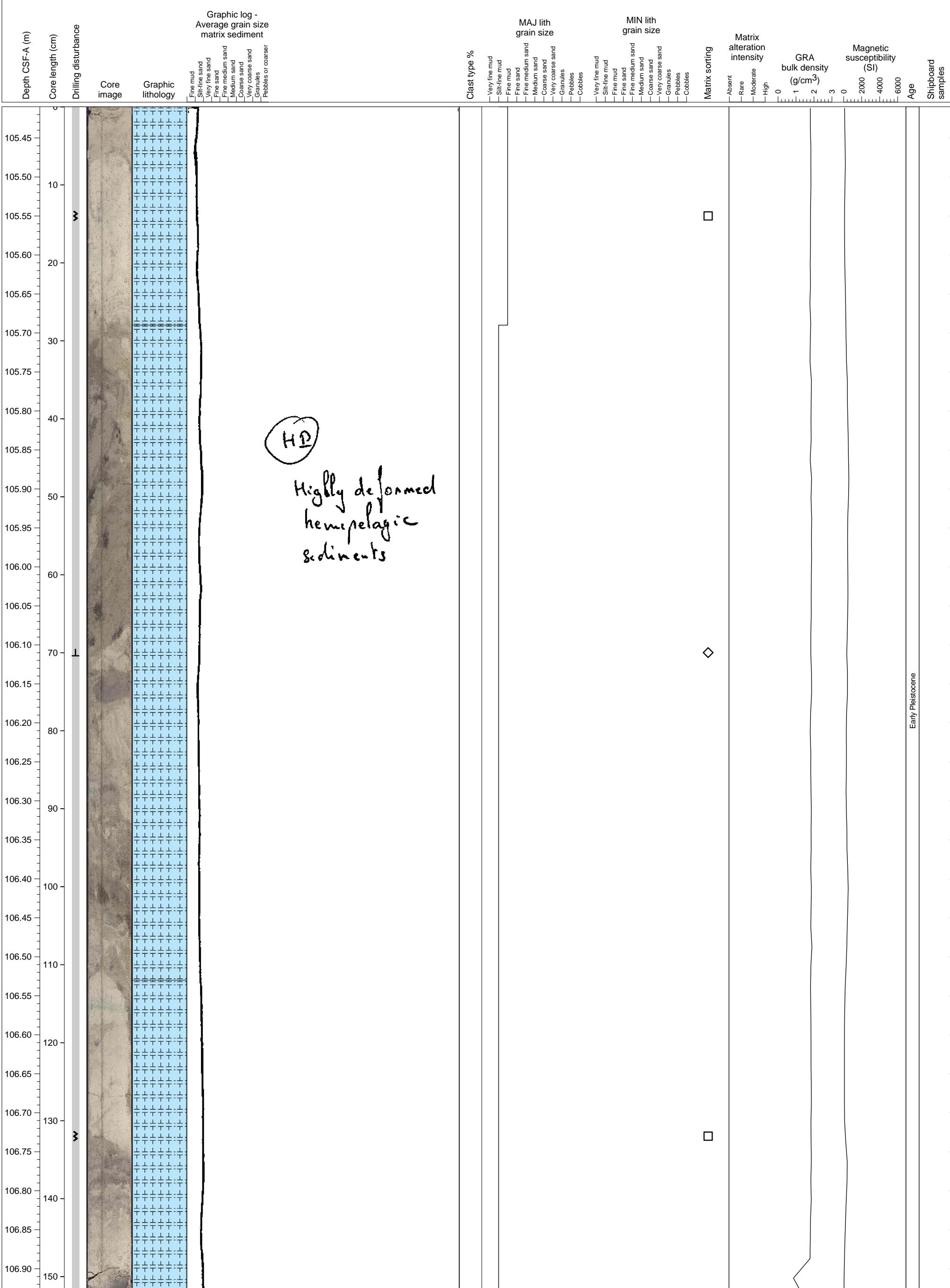
Silty to sandy mottled hemipelagic sediments intercalated with mixture of bioclastic and volcanioclastic sandy turbidites.



Hemipelagic sediments with one tephra layer of medium sand in size. All sediments are highly deformed.

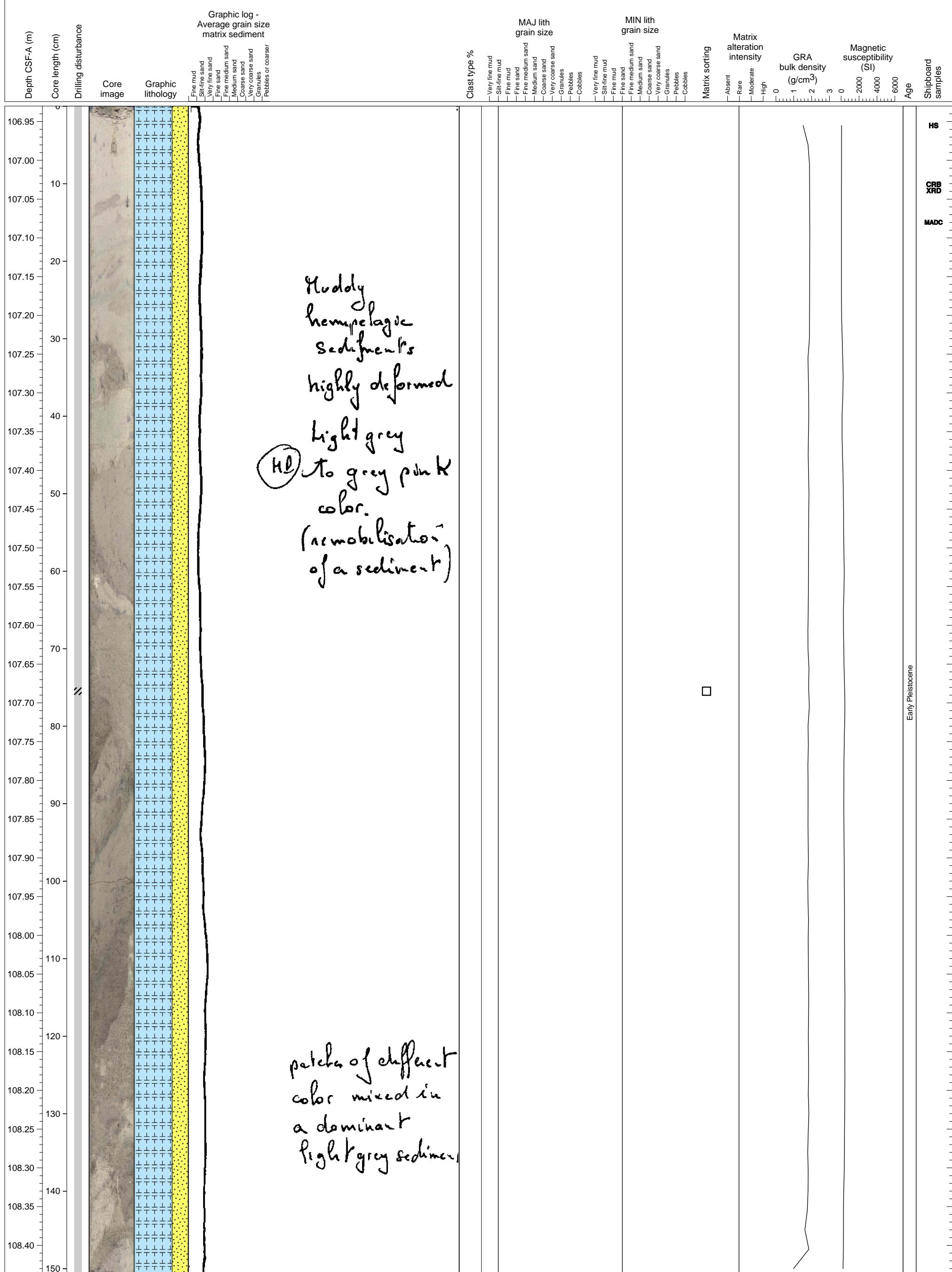


Grey colored totally deformed hemipelagic sediments (slump deposits?).

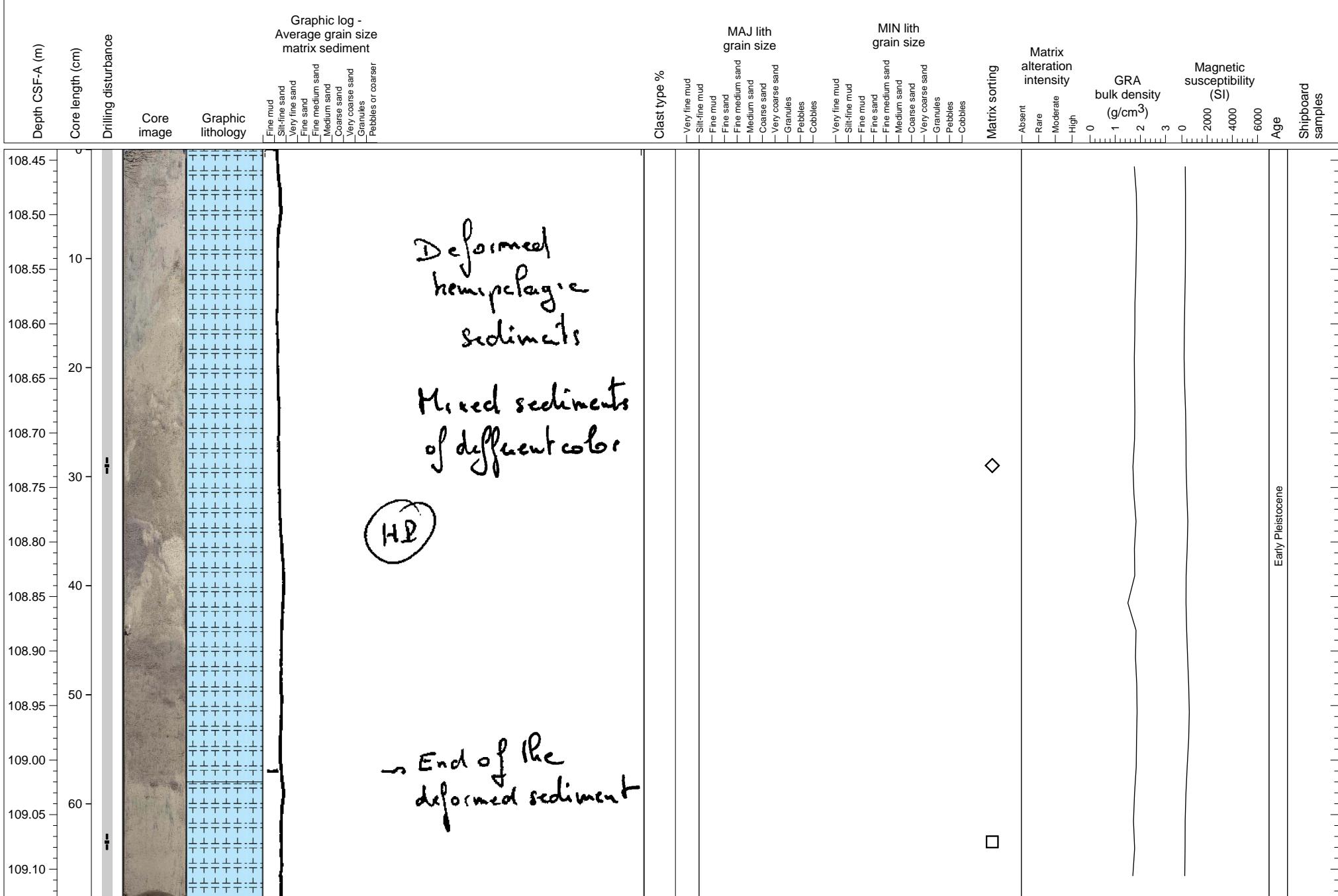


Hole 340-U1395A-13H Section 6, Top of Section: 106.93 CSF-A (m)

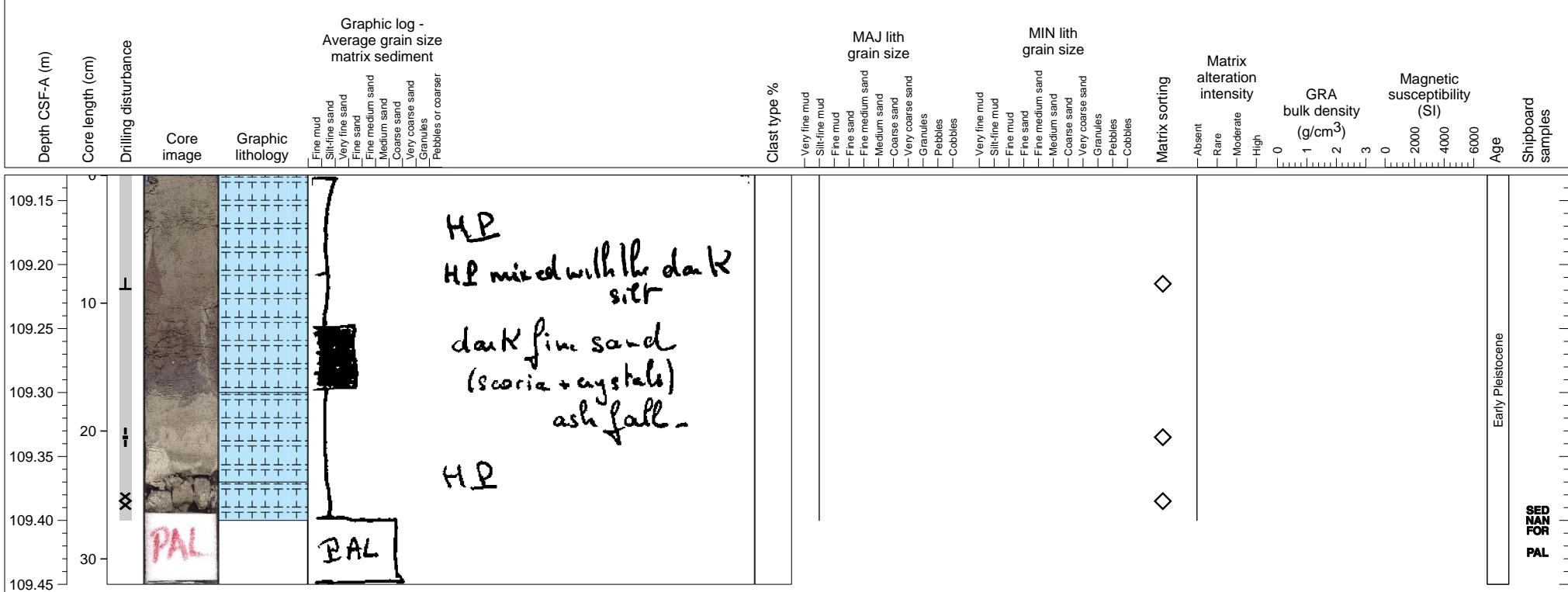
Highly deformed muddy hemipelagic sediment with light grey to greyish pink color. There are many patches of various shapes and colors especially lower part of this section. Deformation might be due to slumping.



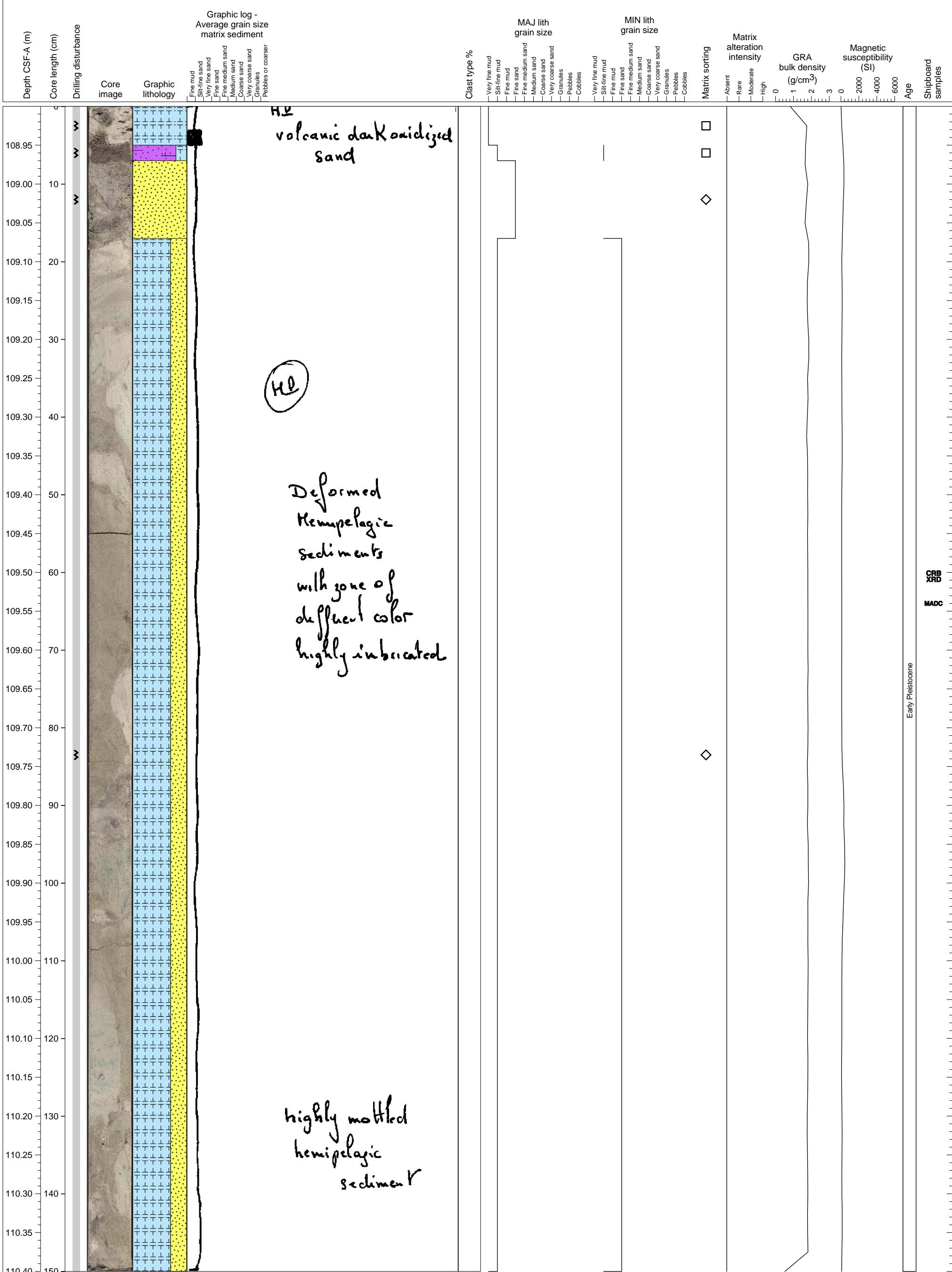
Hemipelagic sediments, heavily disturbed in upper part of section.



Heavily disturbed hemipelagic sediments.

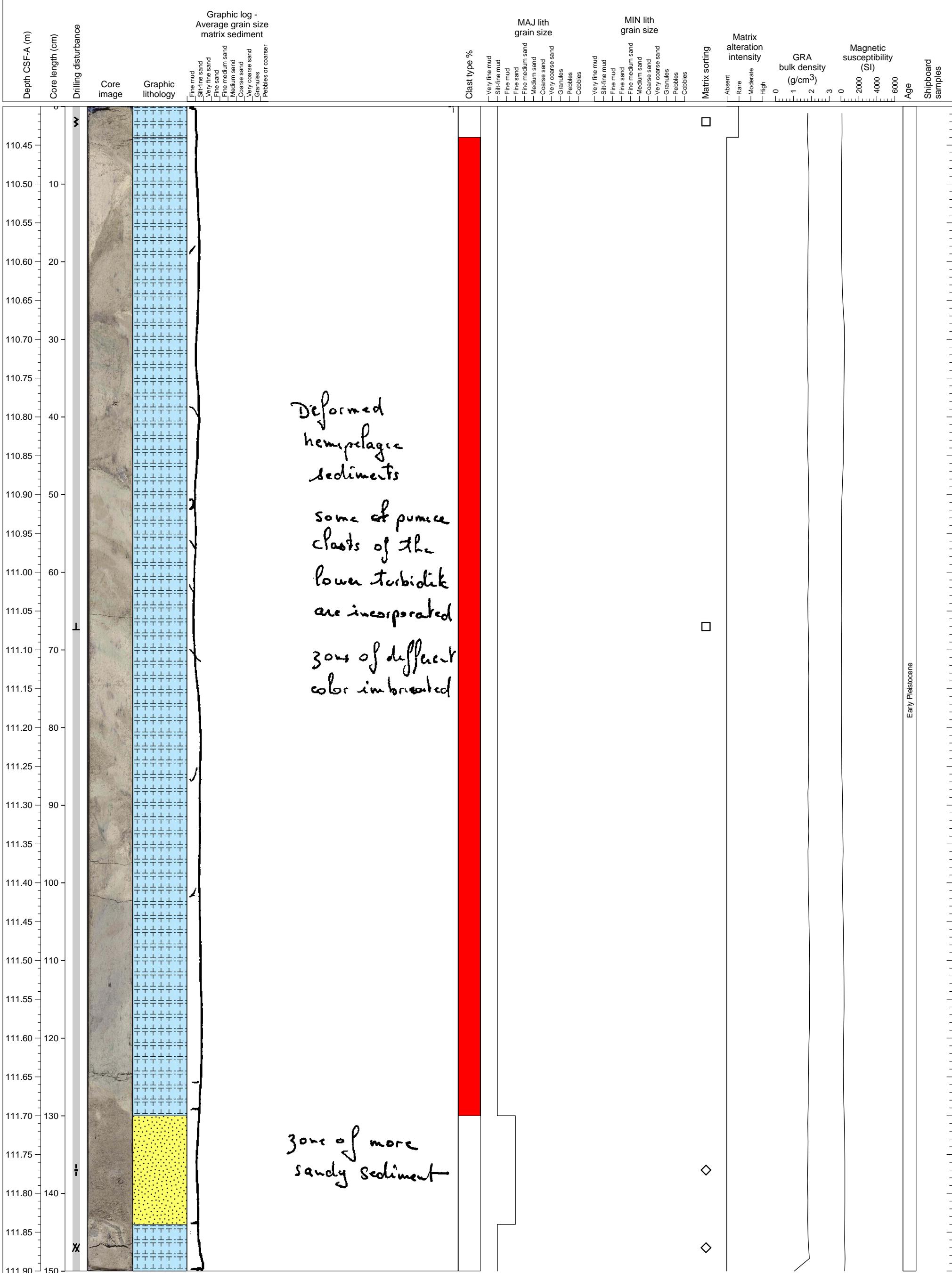


Deformed hemipelagic sediments with a brown colored volcaniclastic mud layer in the upper part of this section.

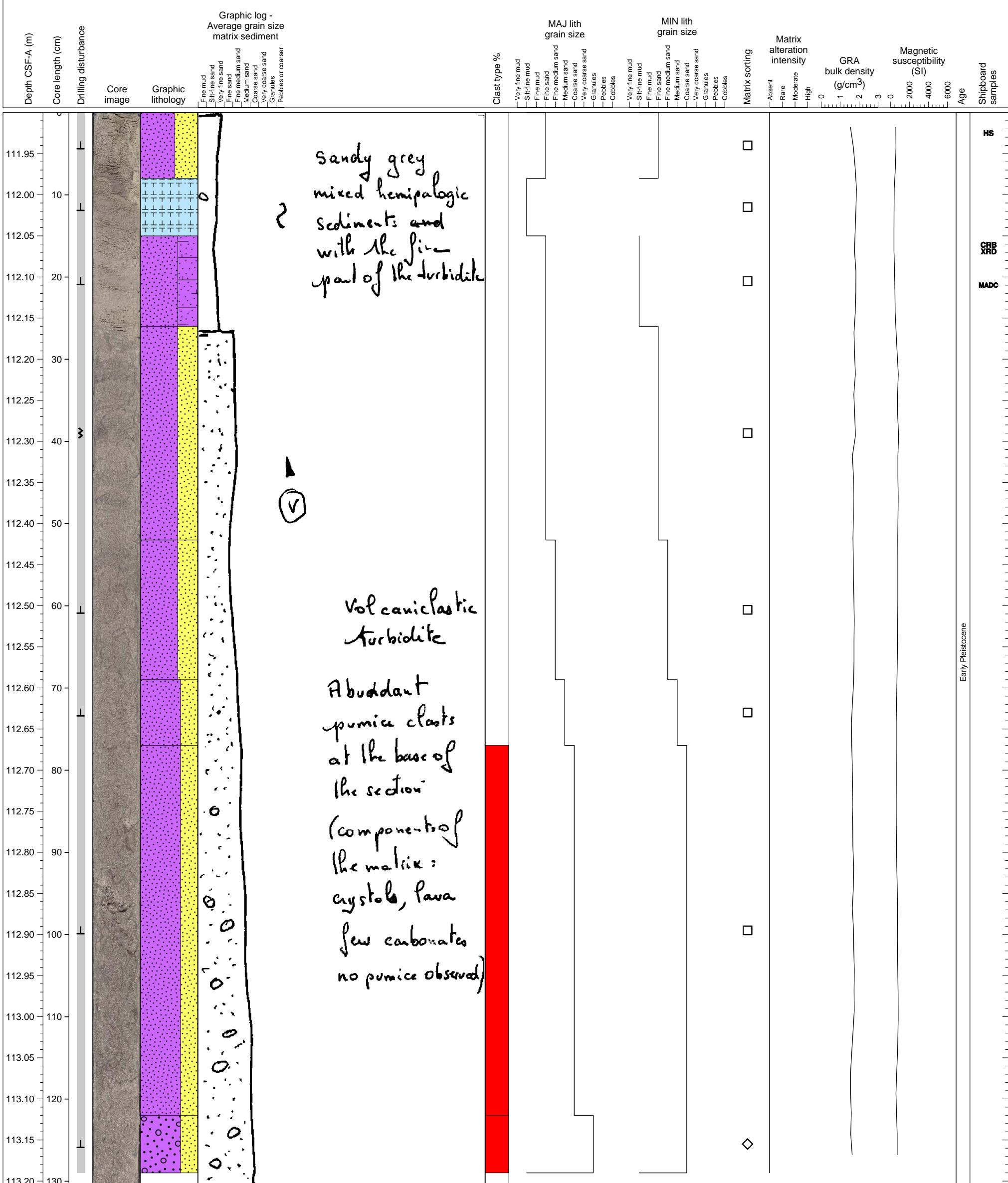


Hole 340-U1395A-14H Section 2, Top of Section: 110.4 CSF-A (m)

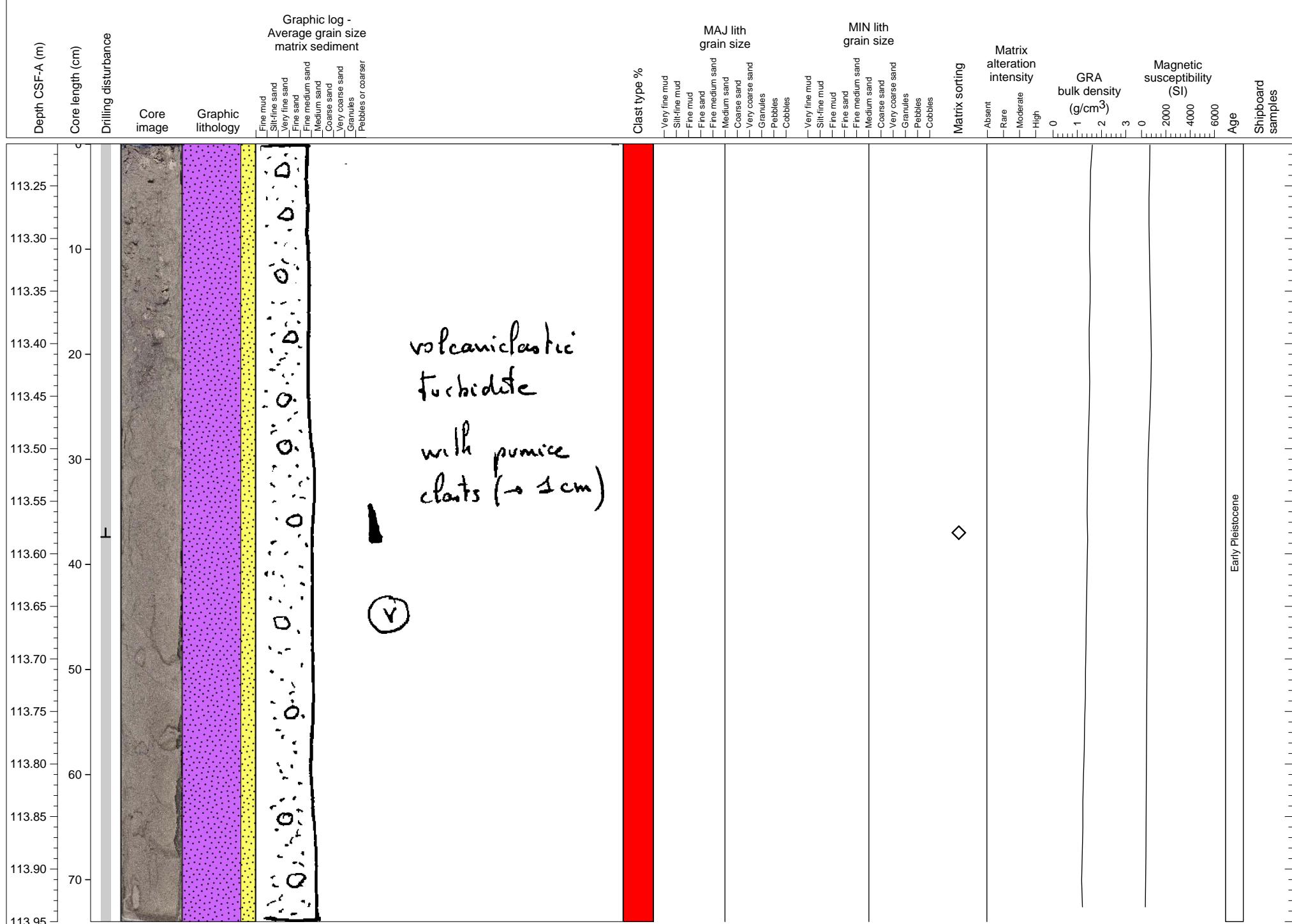
Hemipelagic sediments, sometimes heavily distorted and slightly bioturbated.



Part of pumiceous, volcaniclastic turbidite sequence; 4 cm size pumice.



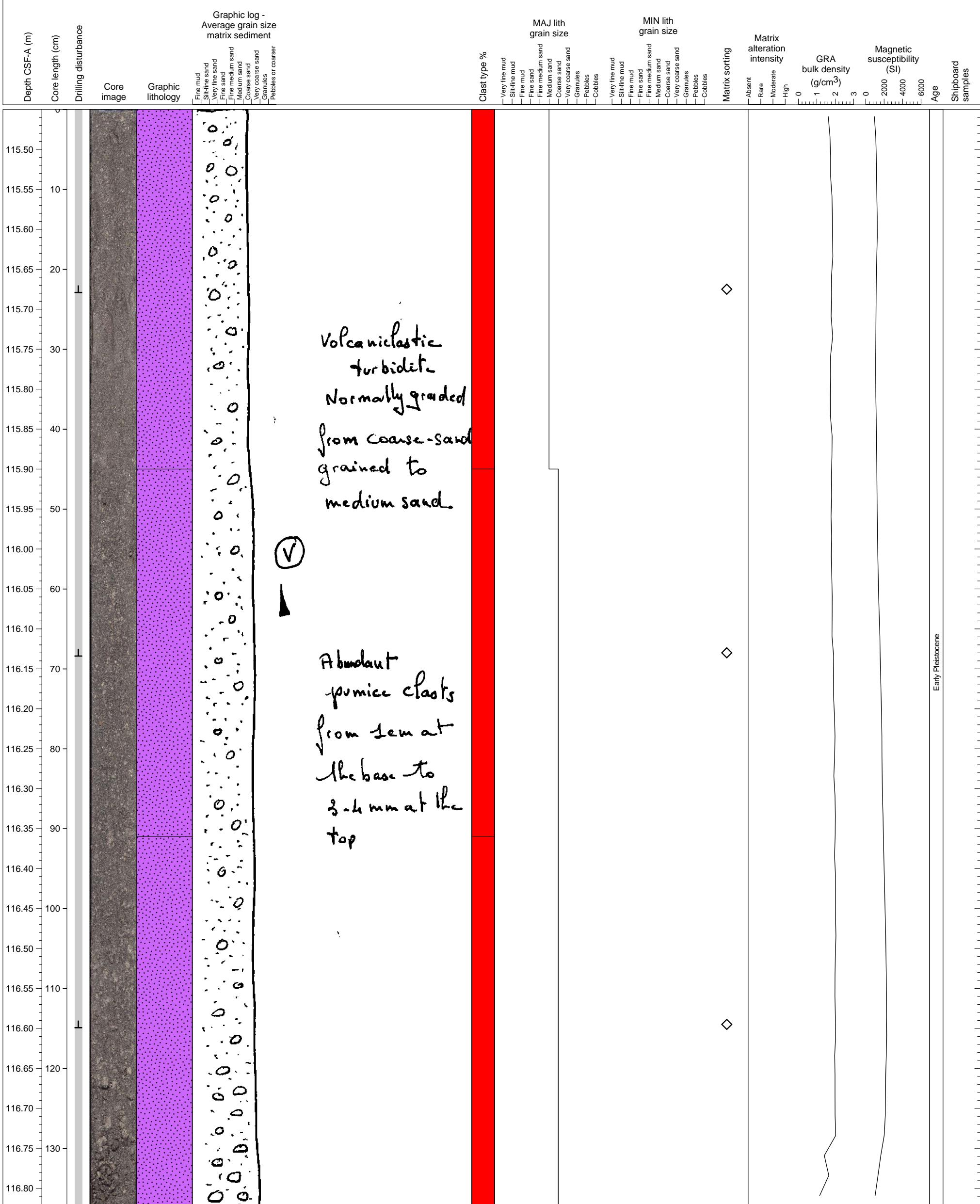
Mixed volcanioclastic/carbonate turbidite with rounded pumice clasts



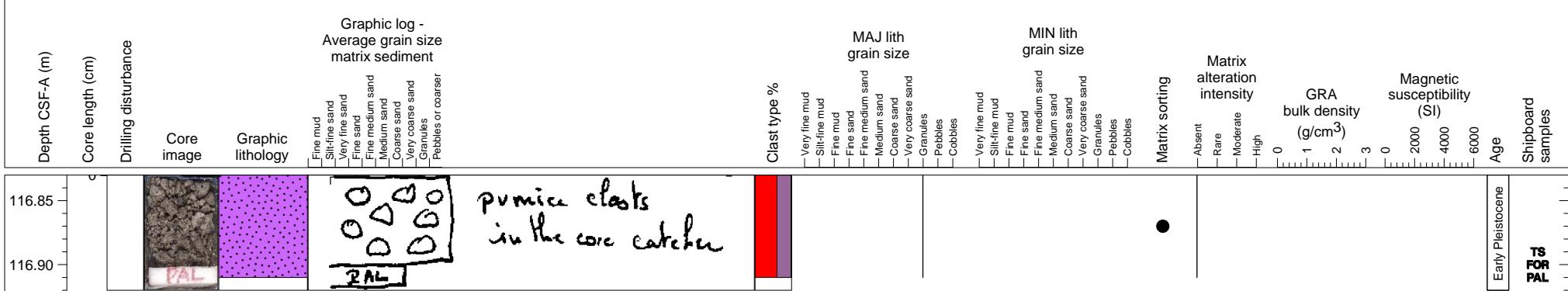
Middle part of a volcaniclastic turbidite with pumice clasts. Normal grading from the bottom of the section to the top. Pumice clasts (up to 1.5cm size), feldspar, and amphibole grains are present.



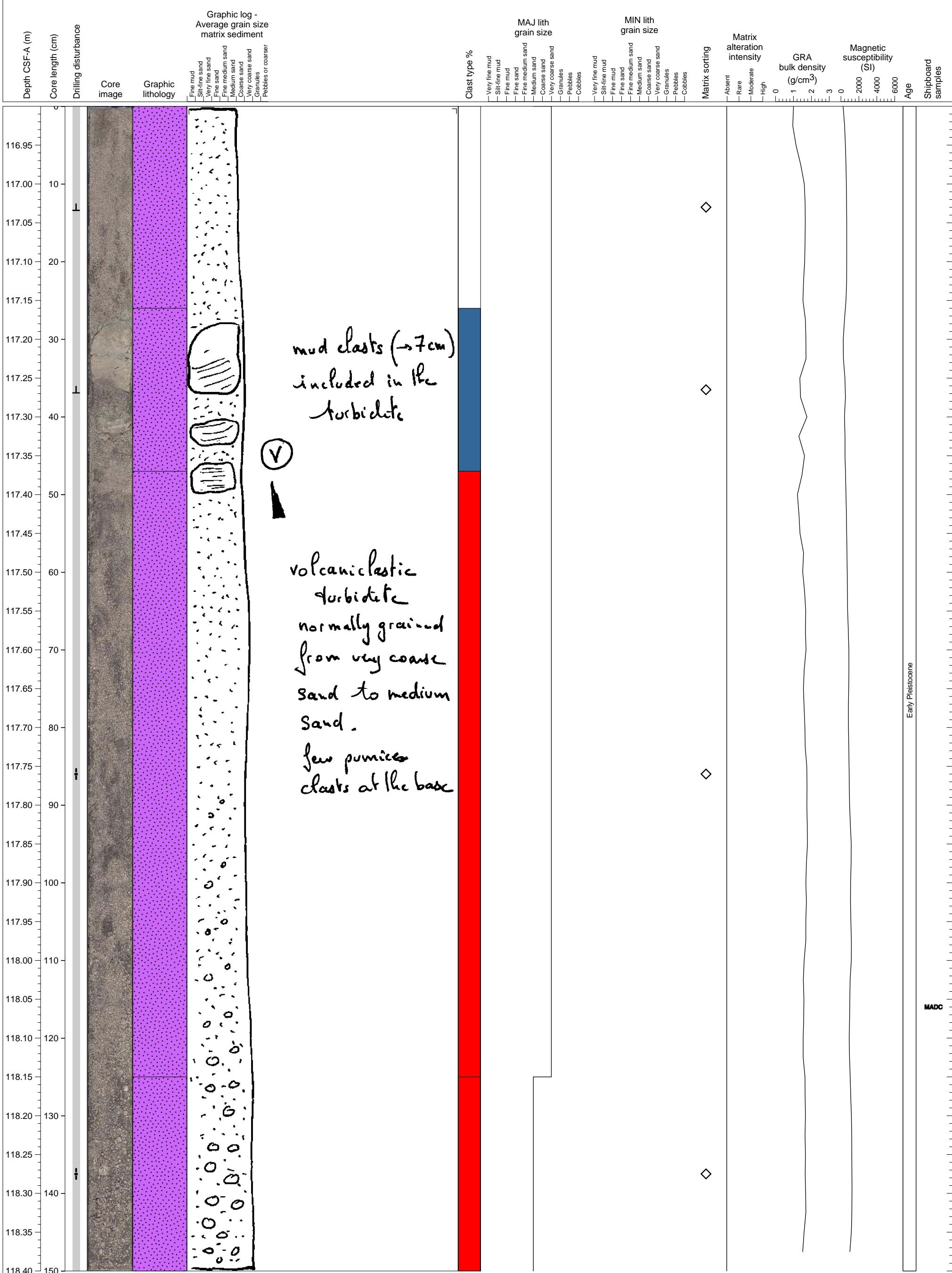
Volcaniclastic turbidite normally graded from coarse sand to medium sand in size, with angular pumice clasts of up to 1 cm.



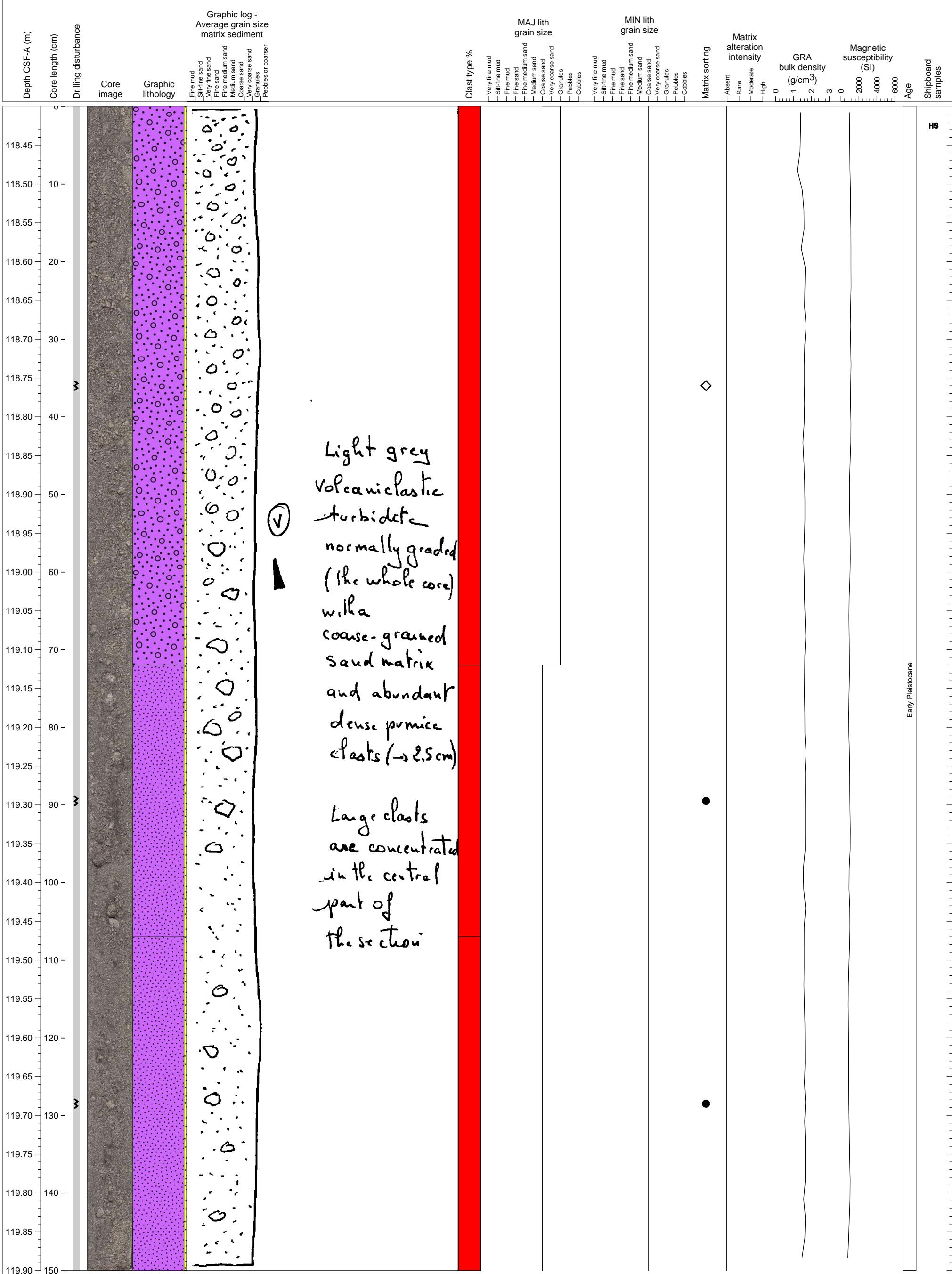
Pumice clasts from core catcher with spare matrix in between.



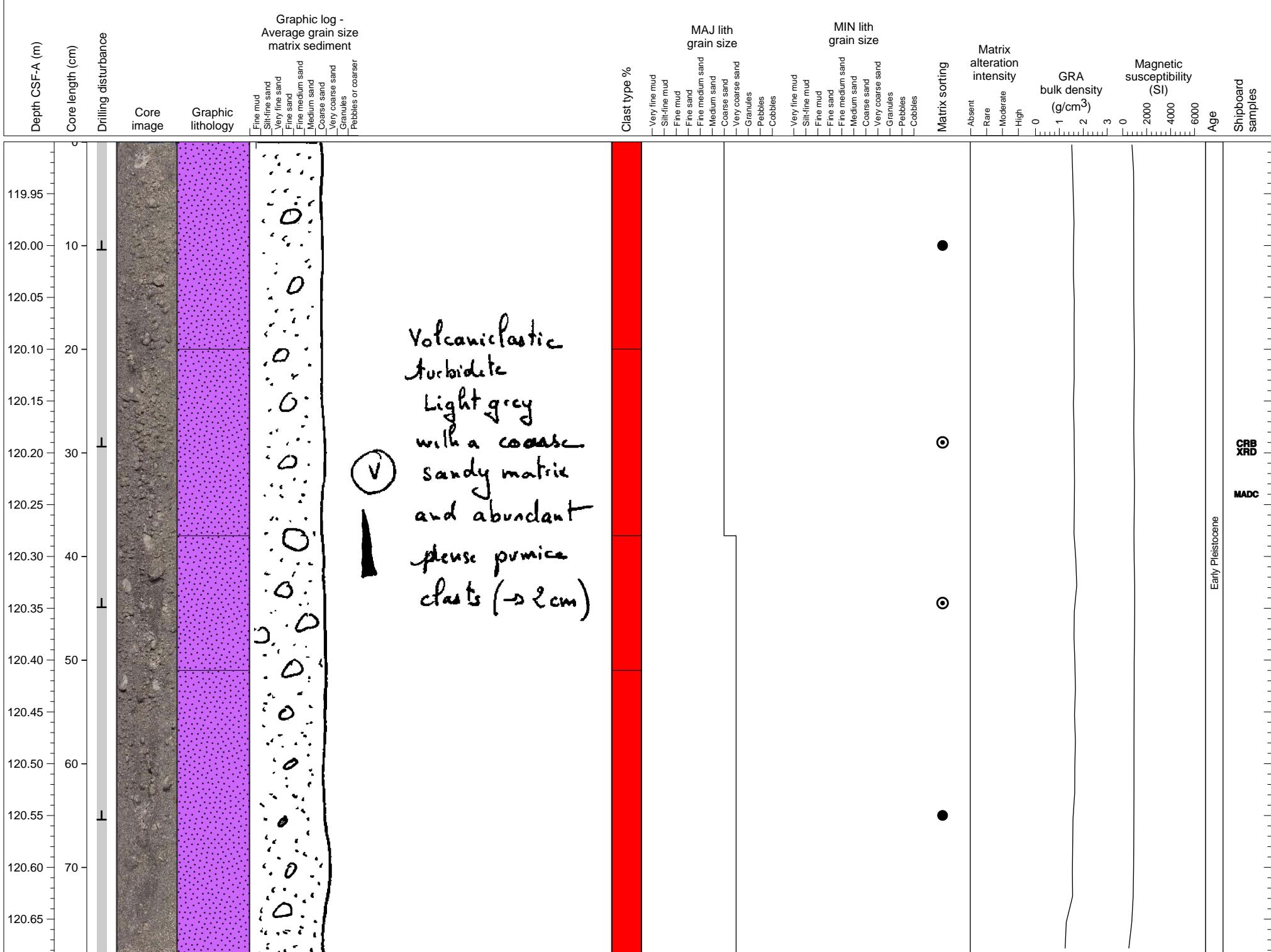
Thick volcanioclastic turbidite with pumice-rich matrix and clasts.



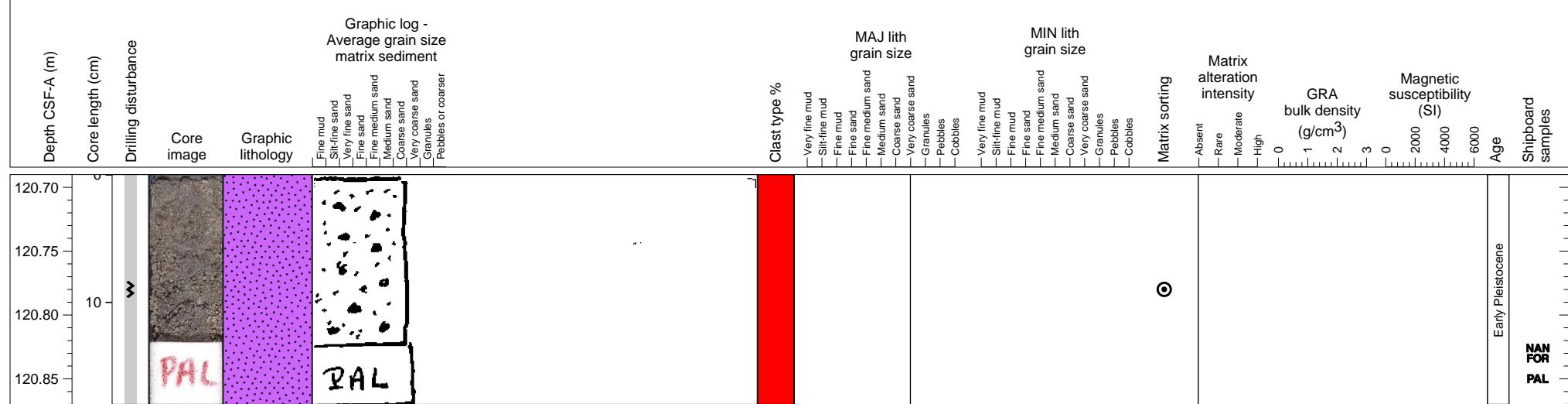
Pumiceous massive unit; pumice clasts (up to 2 cm) and amphibole are present.



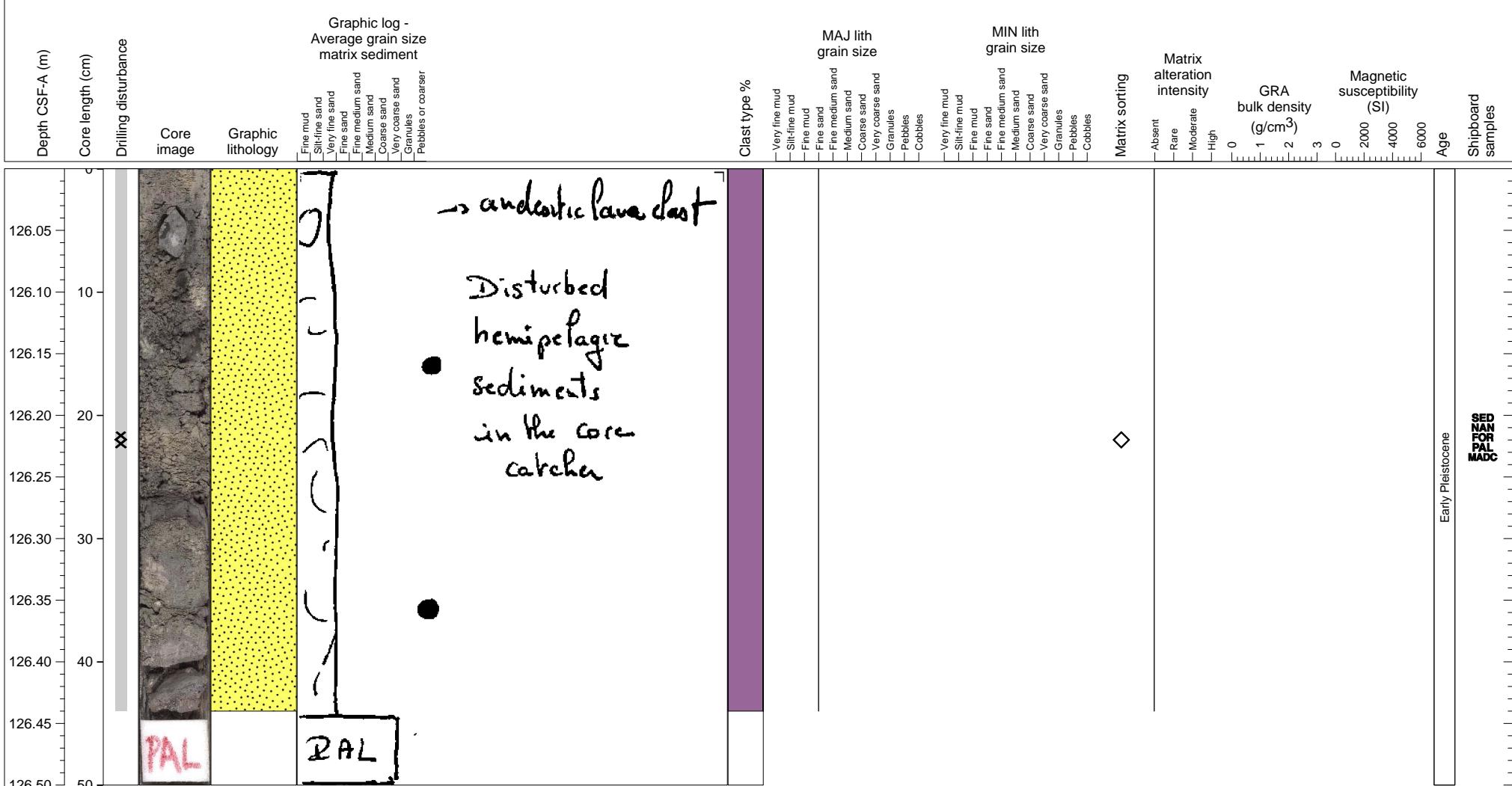
Coarse grained volcaniclastic turbidite, probably lower portion of the pumiceous volcaniclastic turbidite sequence.



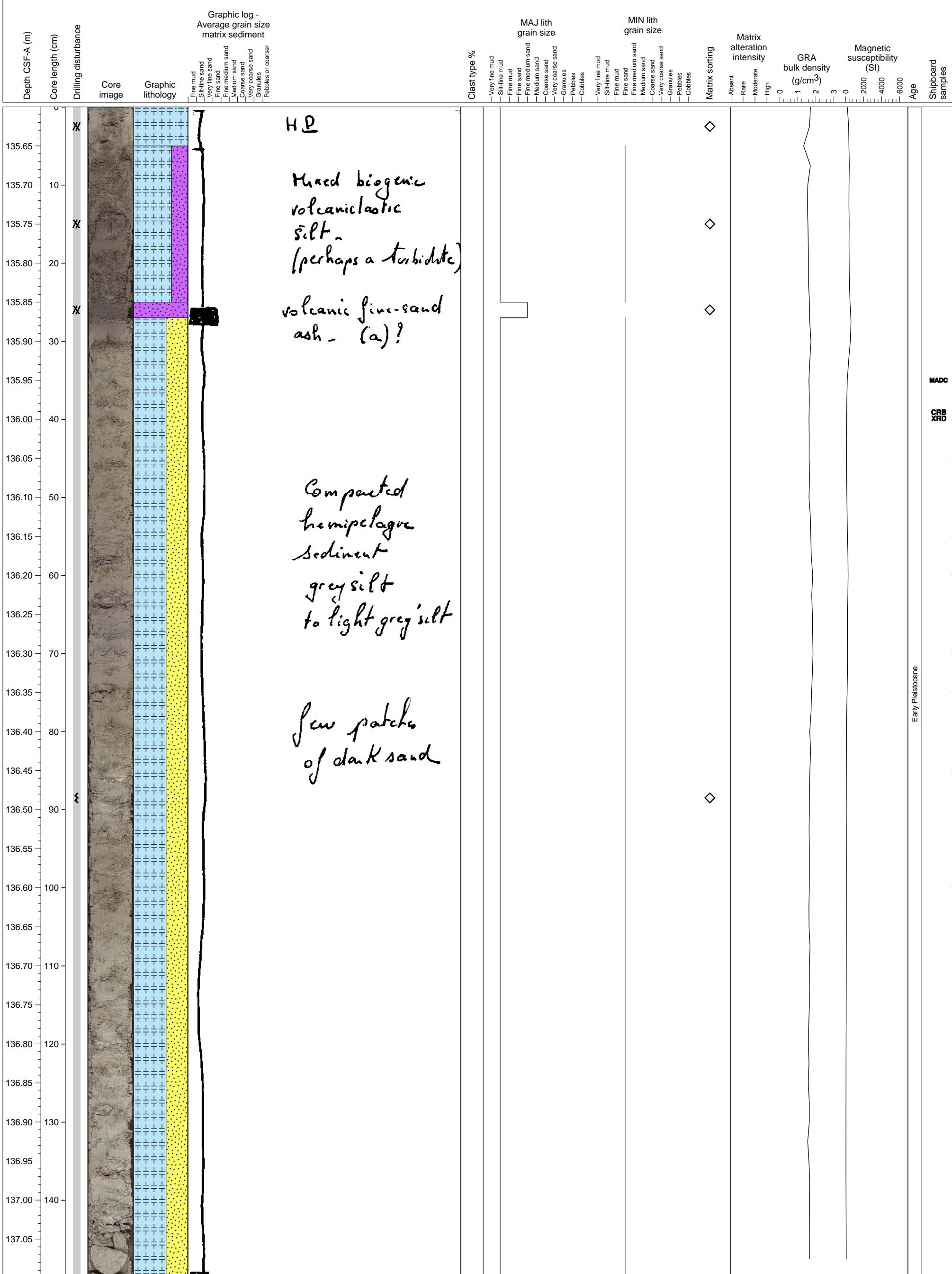
Lowermost part? of pumiceous volcaniclastic turbidite.



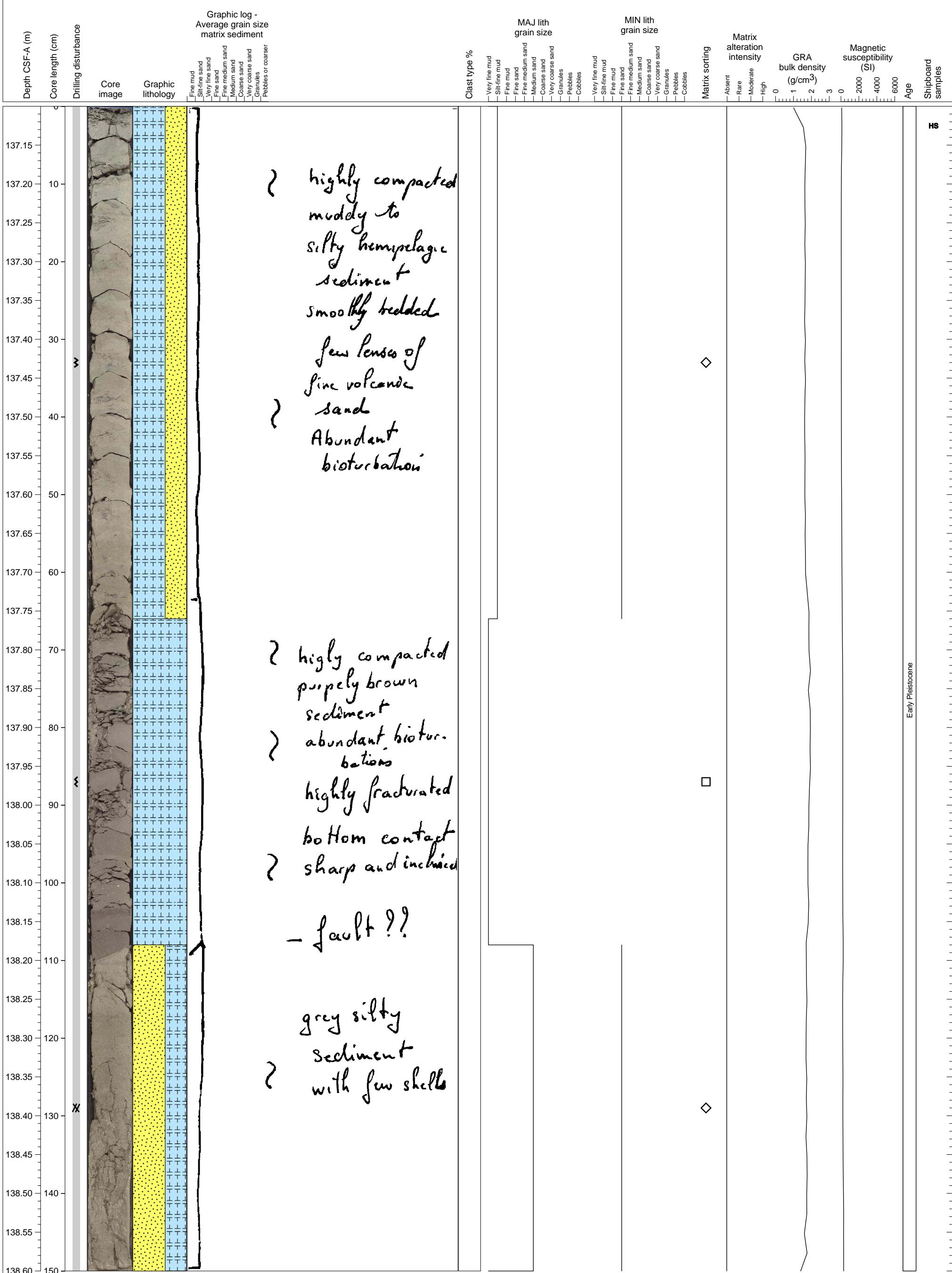
Highly disturbed (by coring) hemipelagic sediment with a single large (40 mm) andesite lava clast.



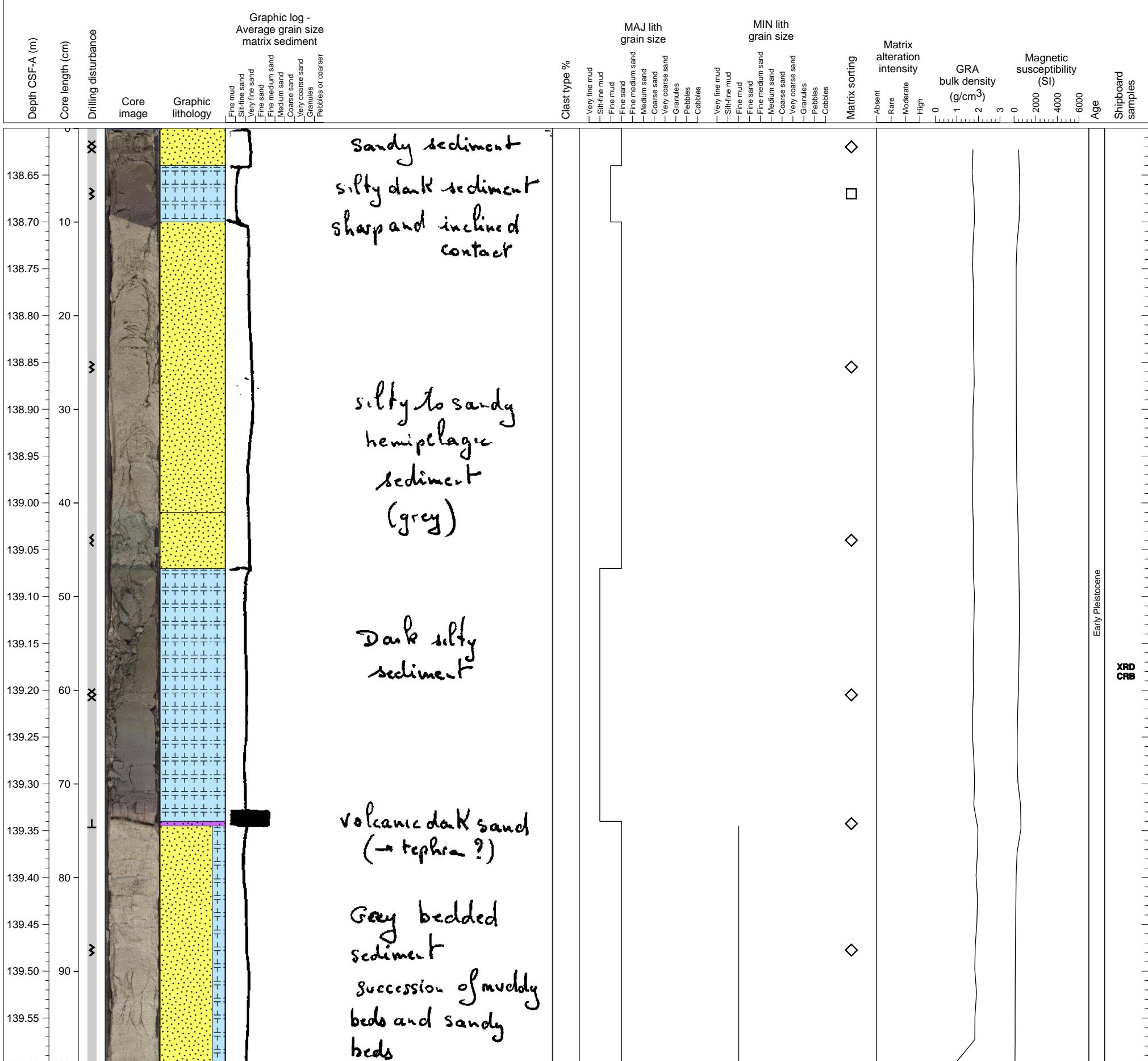
Hemipelagic fines.



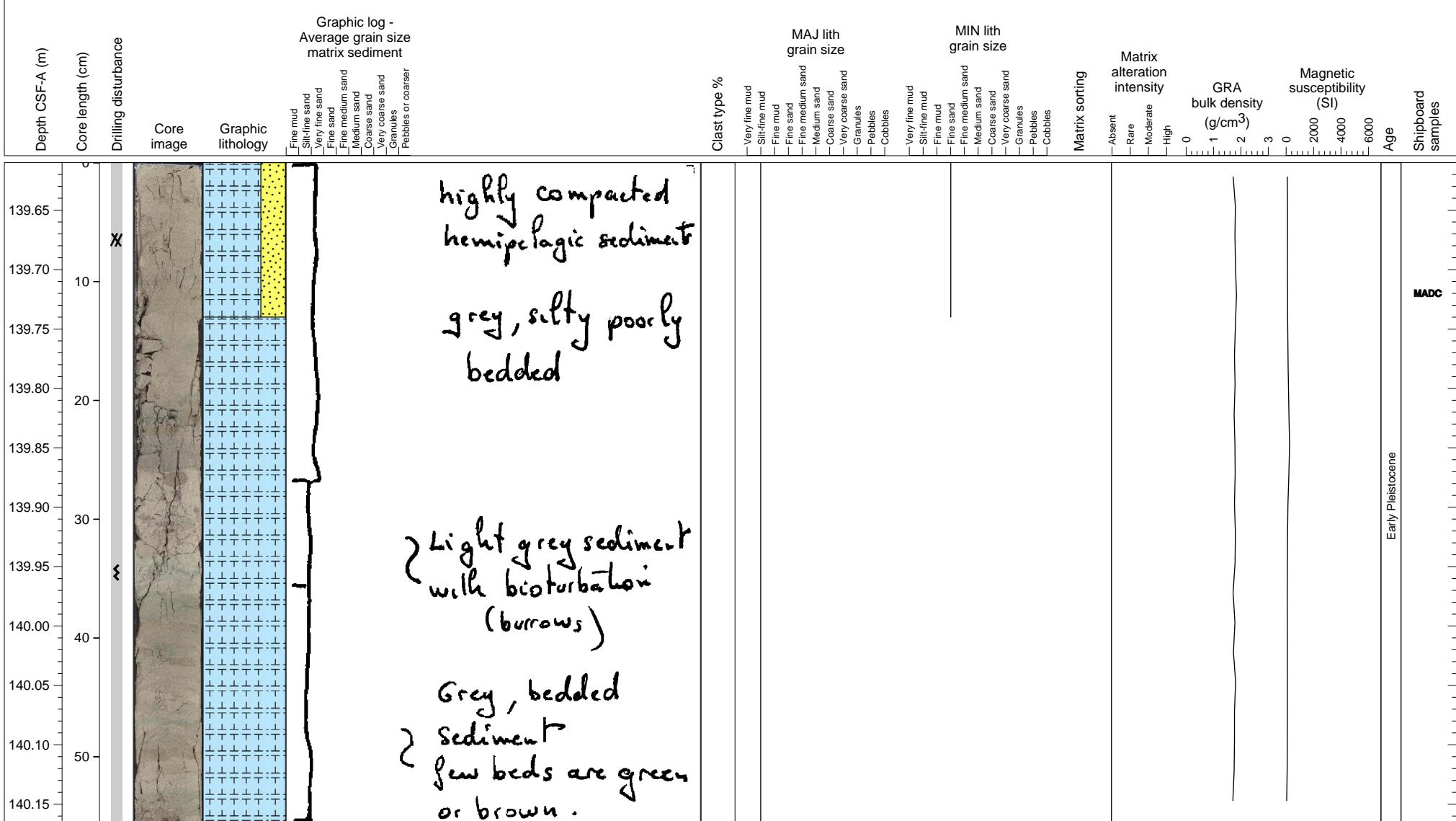
Laminated hemipelagic sediments intercalated with compacted purplish grey clay bearing on bioturbation. A minor fault is present at 108 cm. .



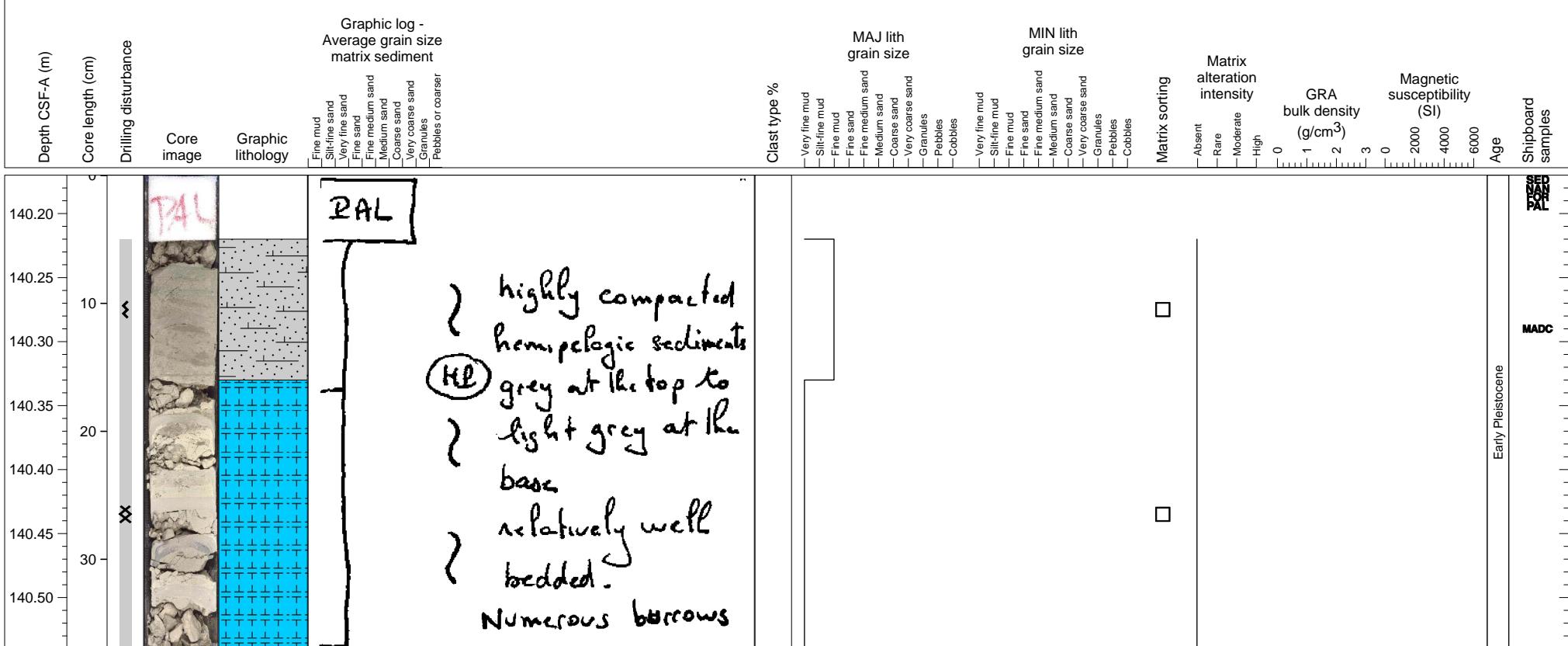
Sequence of slightly to moderately lithified calcareous sands with a thin ash-rich layer.



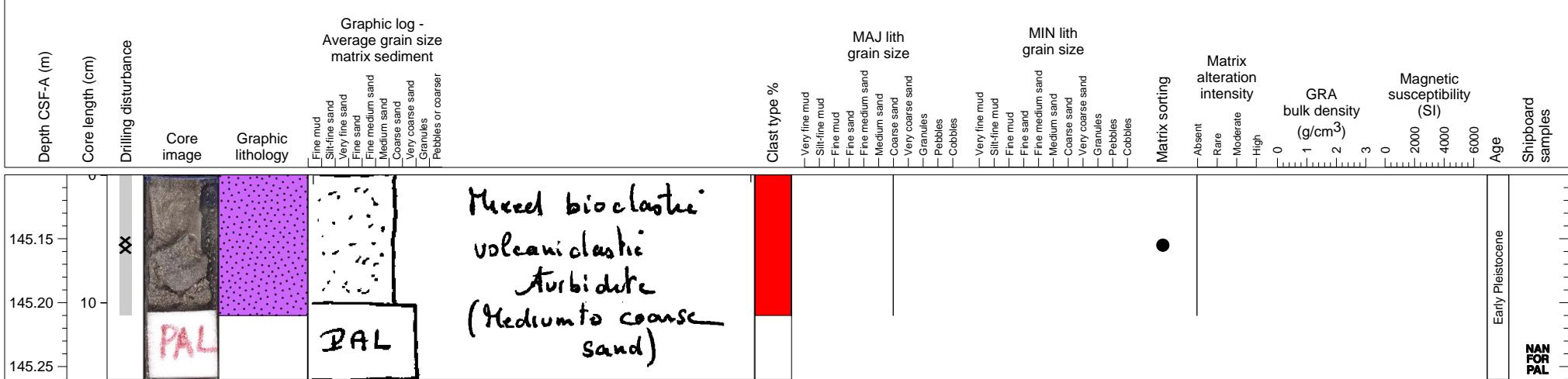
Laminated, bioturbated, hemipelagic sediments.



Grey, laminated, bioturbated, hemipelagic sediments.



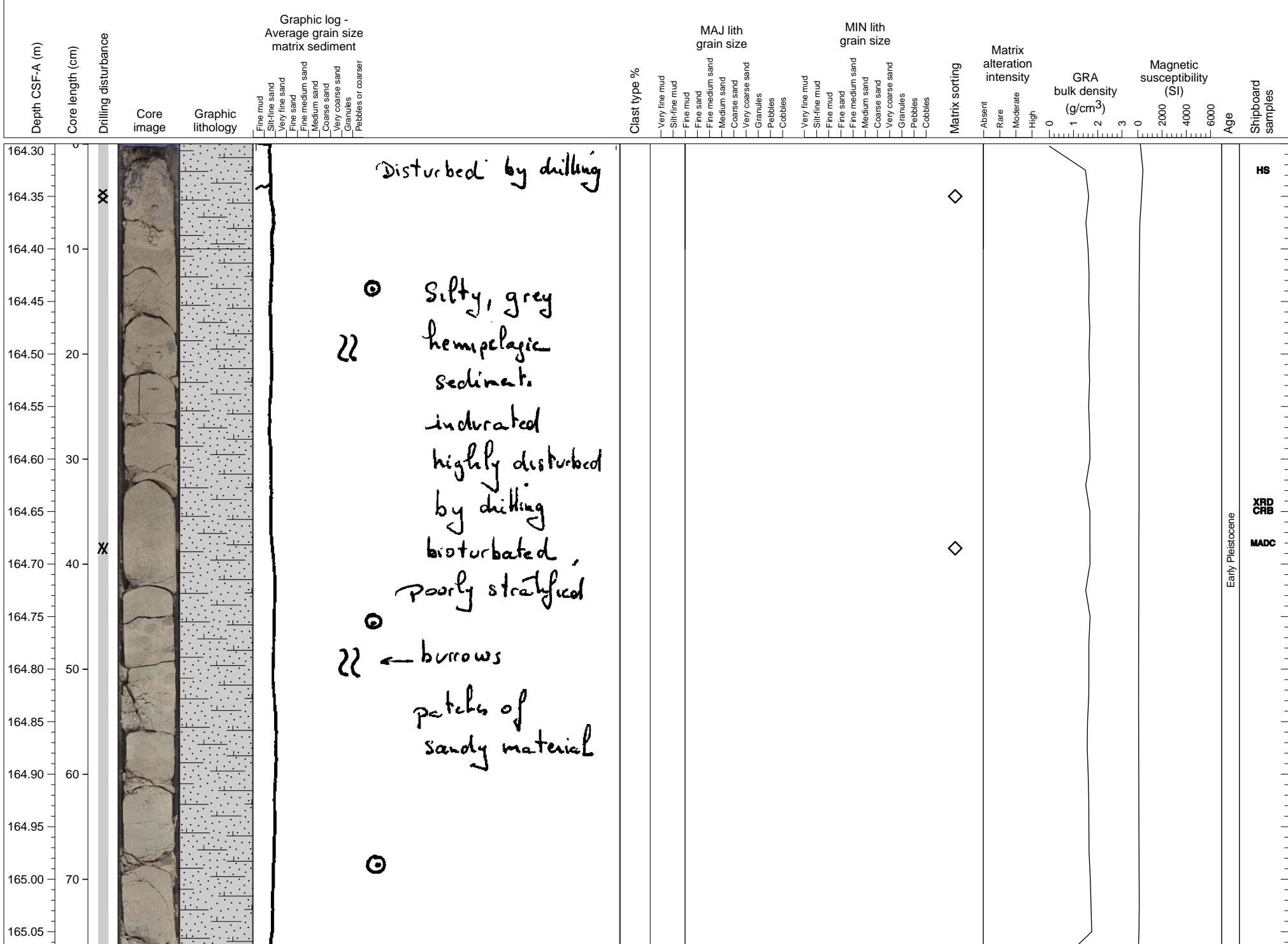
Severely disturbed (by drilling) sample of pumice-rich volcaniclastic turbidite.



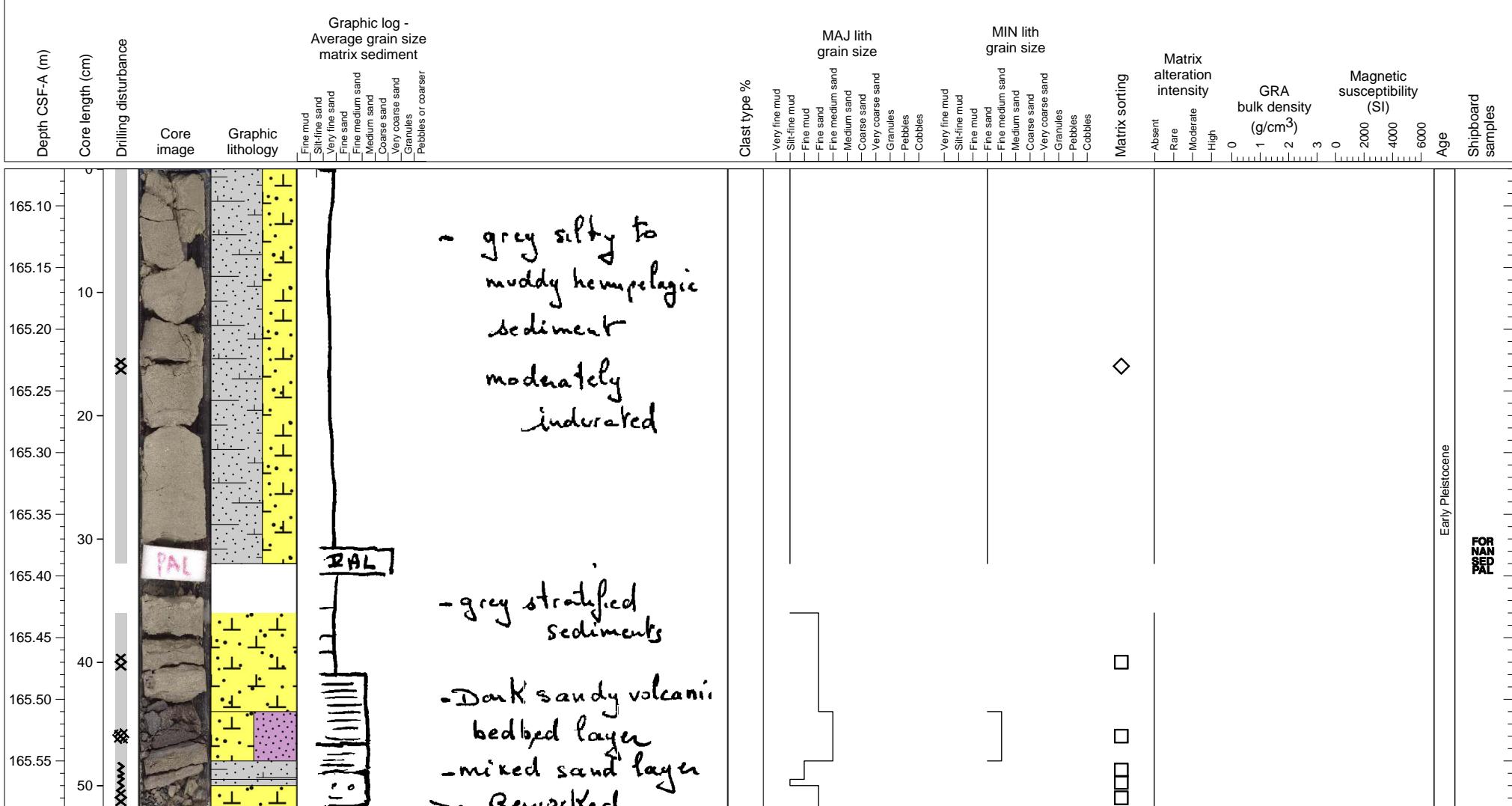
Heavily disturbed pieces of volcaniclastic sand with pumice and bioturbated hemipelagic sediments.



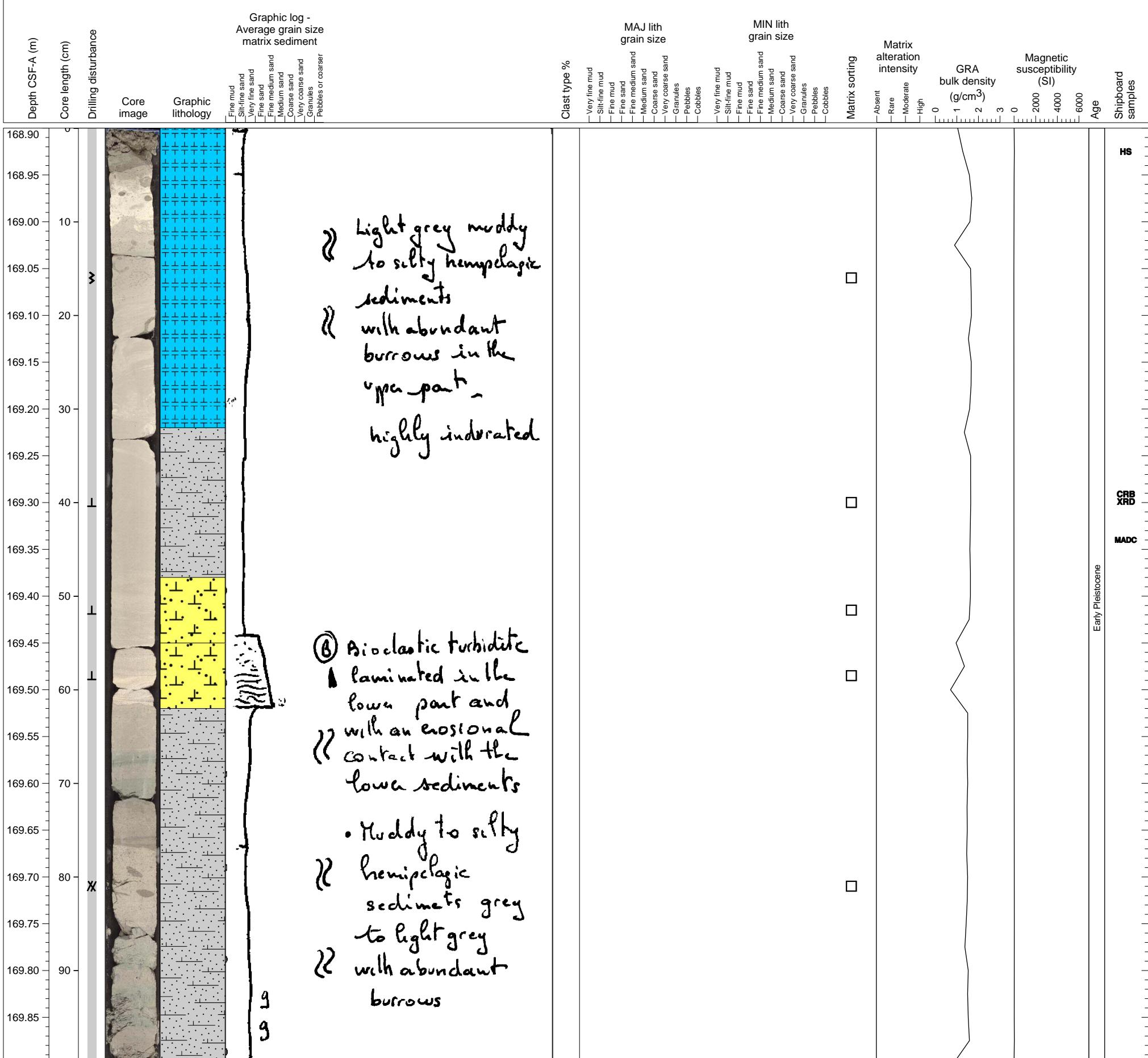
Moderately lithified hemipelagic sediment with strong bioturbation, including patches of medium sand in burrows. Top 10 cm severely damaged by drilling.



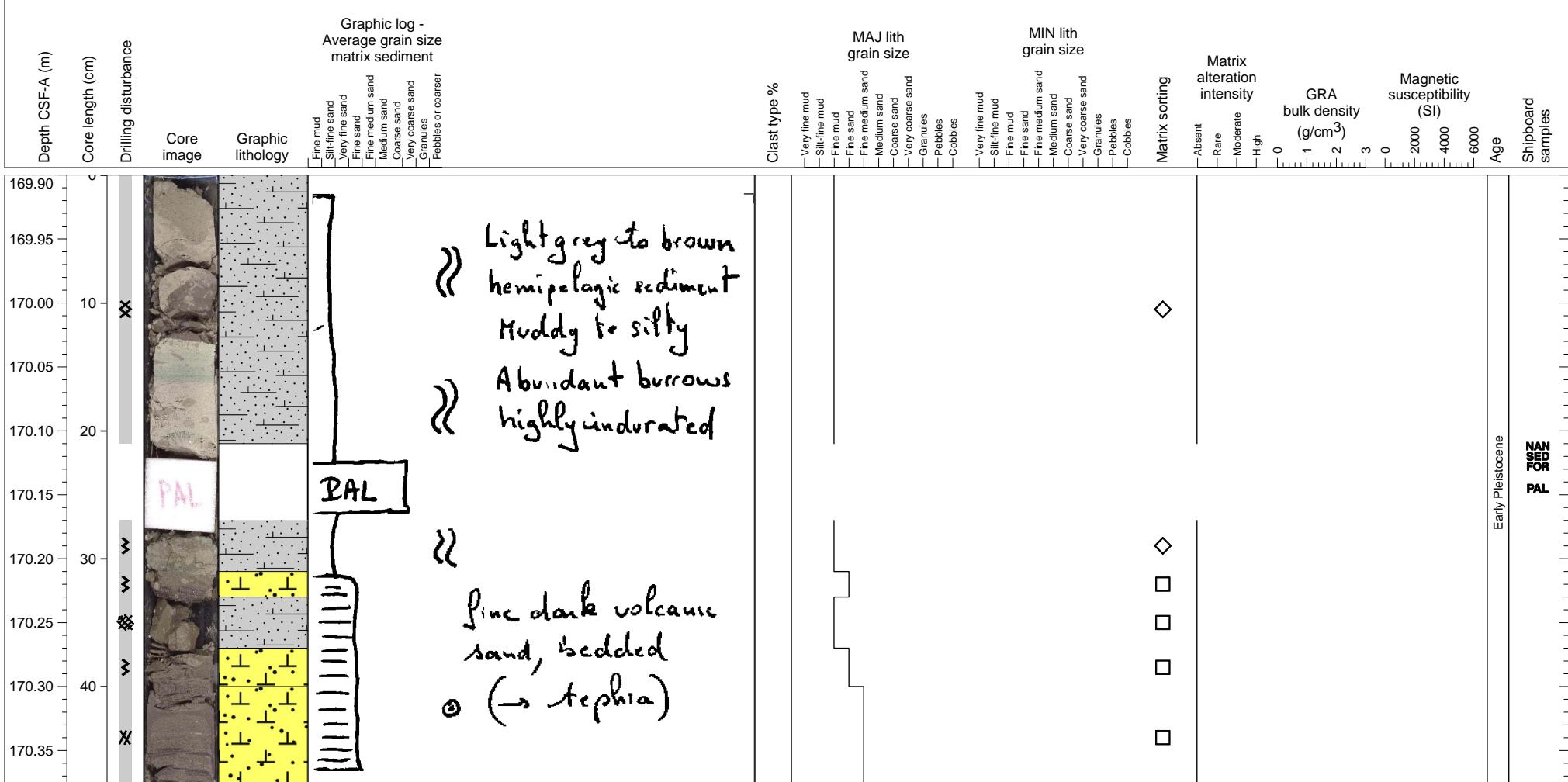
Hemipelagic sediment with turbidites.



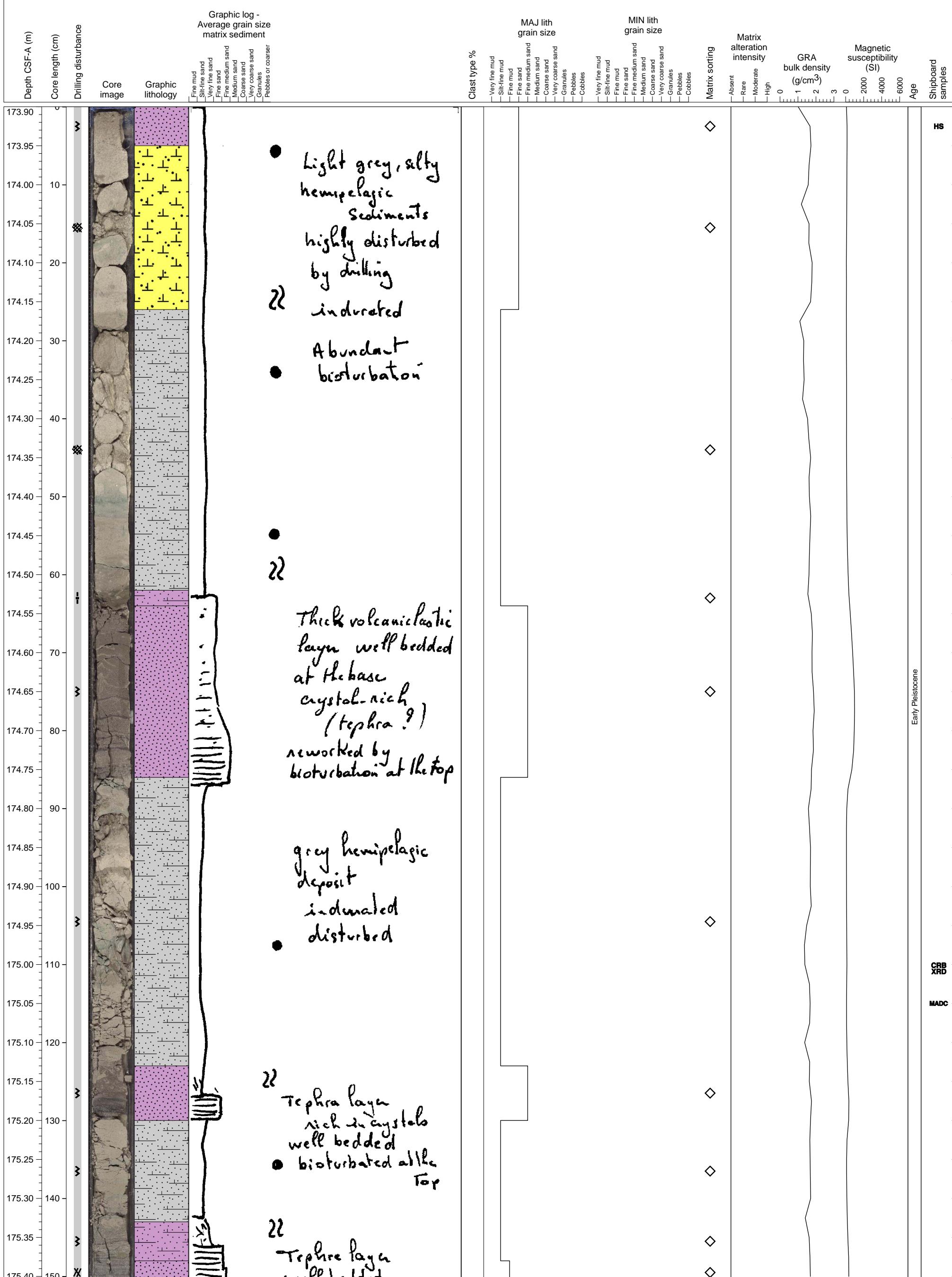
Hemipelagic fines with turbidite.



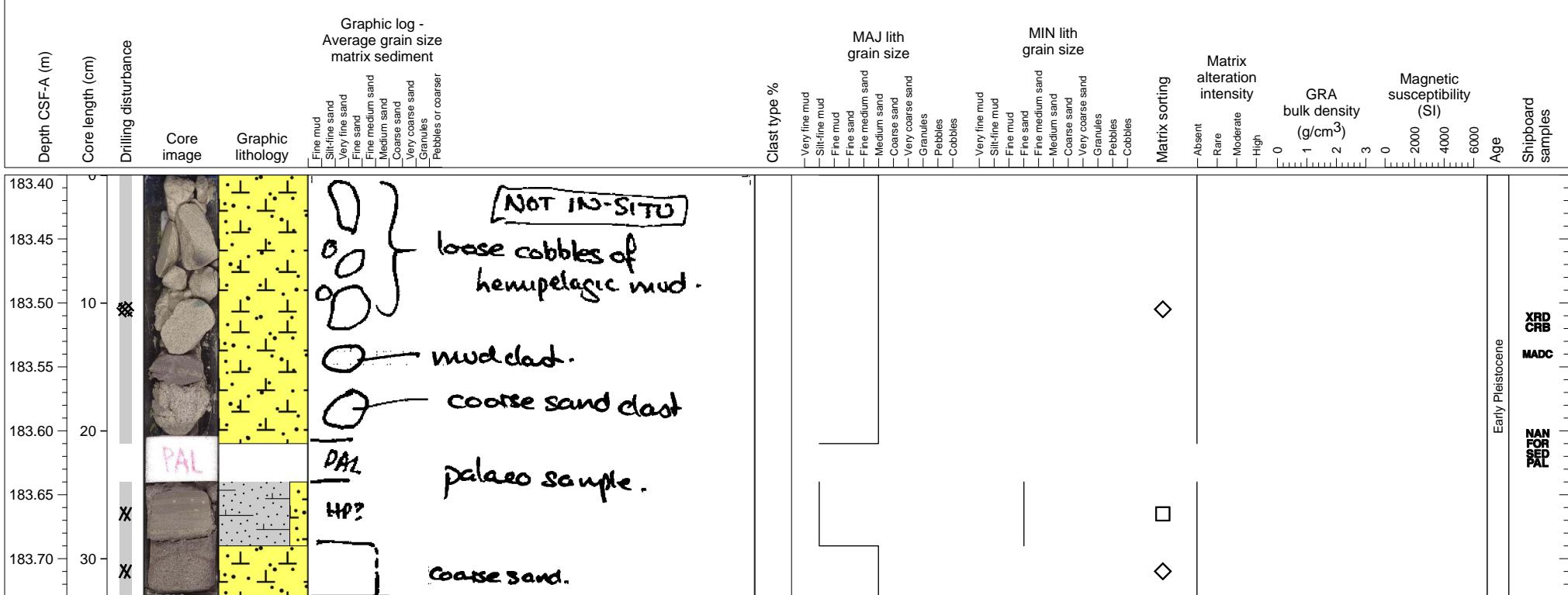
Hemipelagic sediment and turbidite.



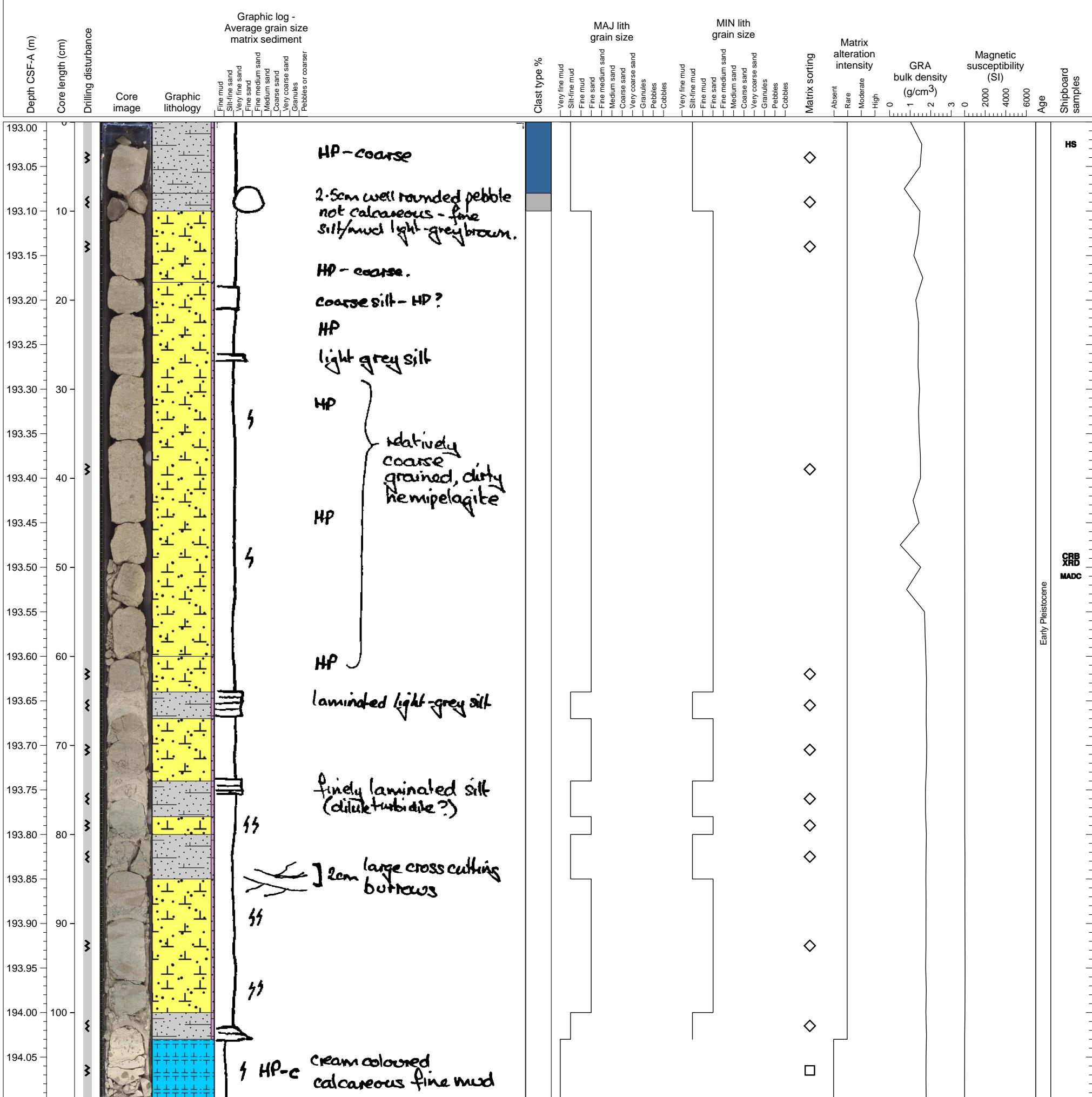
This section contains three turbidites having normal grading at 62-86, 123-130, and 143-151 cm intervals. The upper parts of turbidites are commonly bioturbated and the boundaries with the upper hemipelagic sediment are often diffuse.



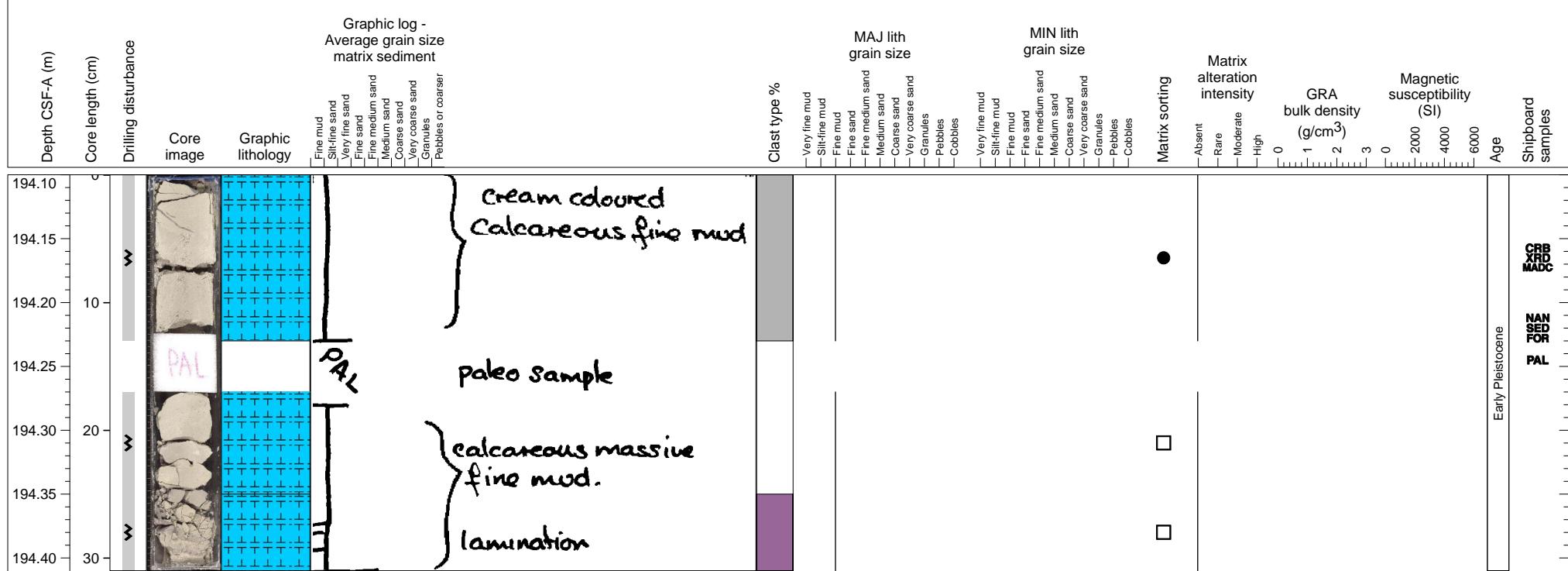
Bedded hemipelagic sediment.



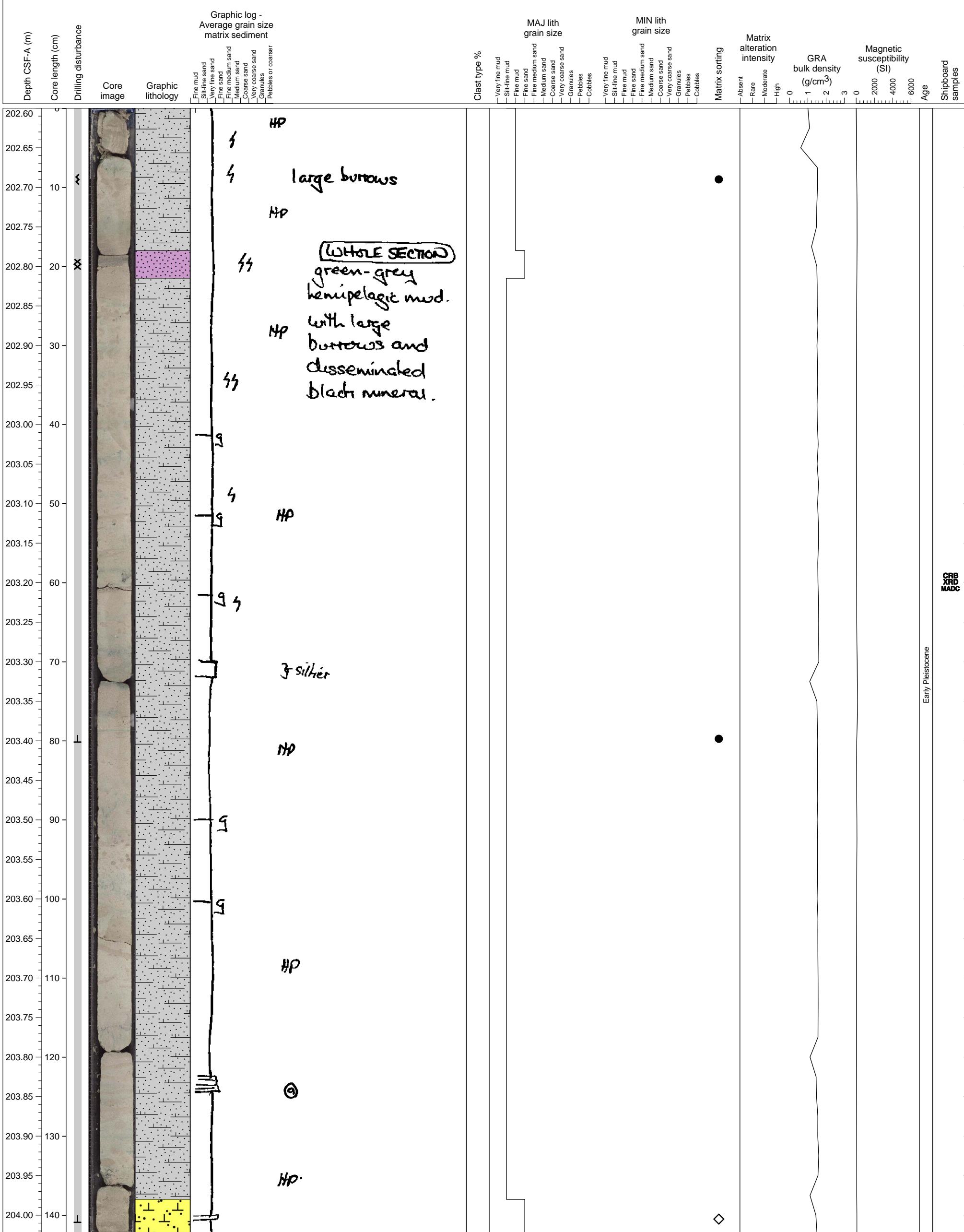
Upper 100 cm is strongly bioturbated (with burrowings rich) carbonate sand-ooze, which makes consolidated-unconsolidated alternations. Lowermost part is made of slightly bioturbated pure lime mud.



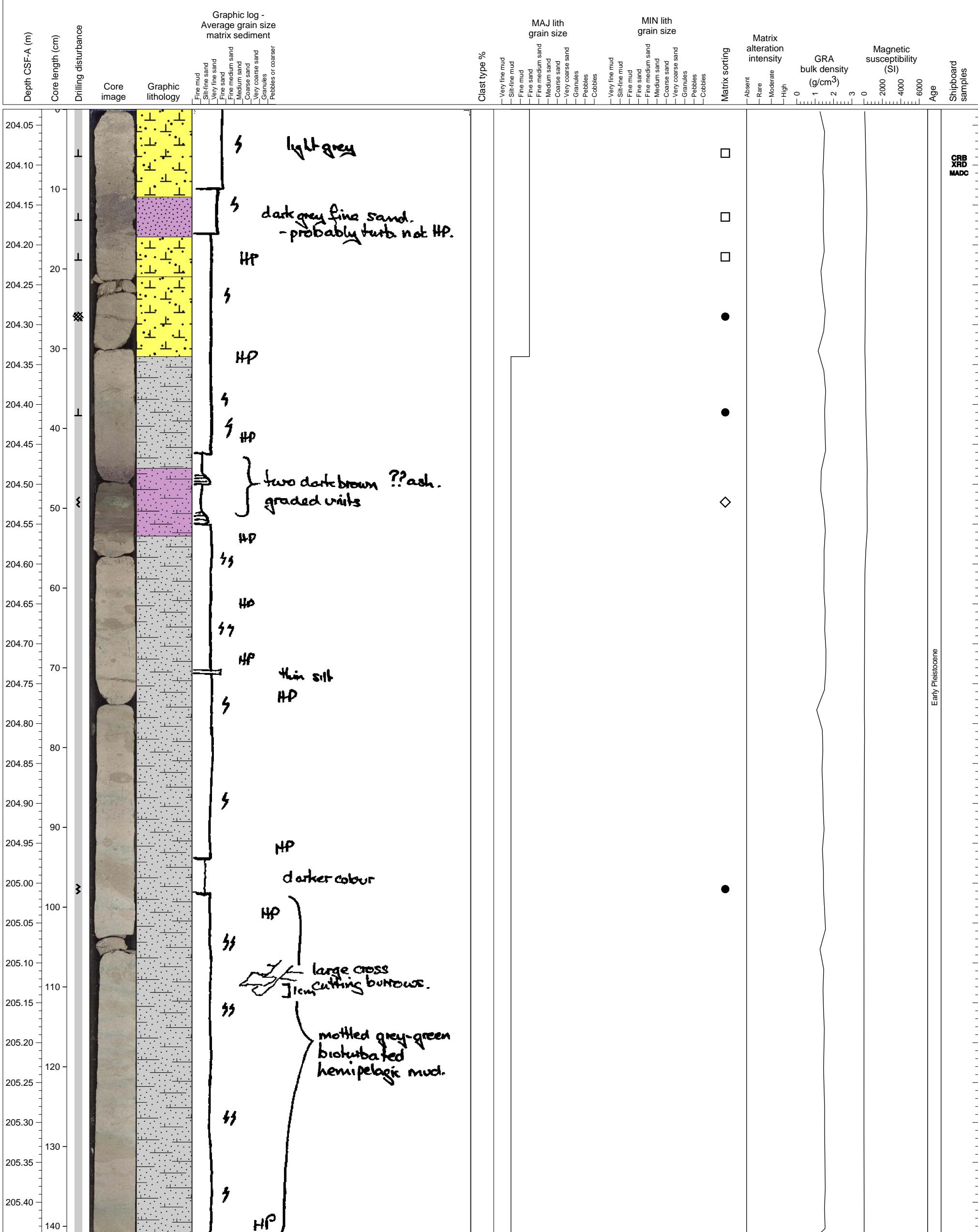
Discontinuous clasts of fine grained carbonate. One large carbonate clast is present in the upper layer. Bioturbation is common throughout. Color differences are likely due to introduction of material by bioturbation. Bottom layer has thick beds of grey to white carbonate. Color differences due to microscopic clast differences.



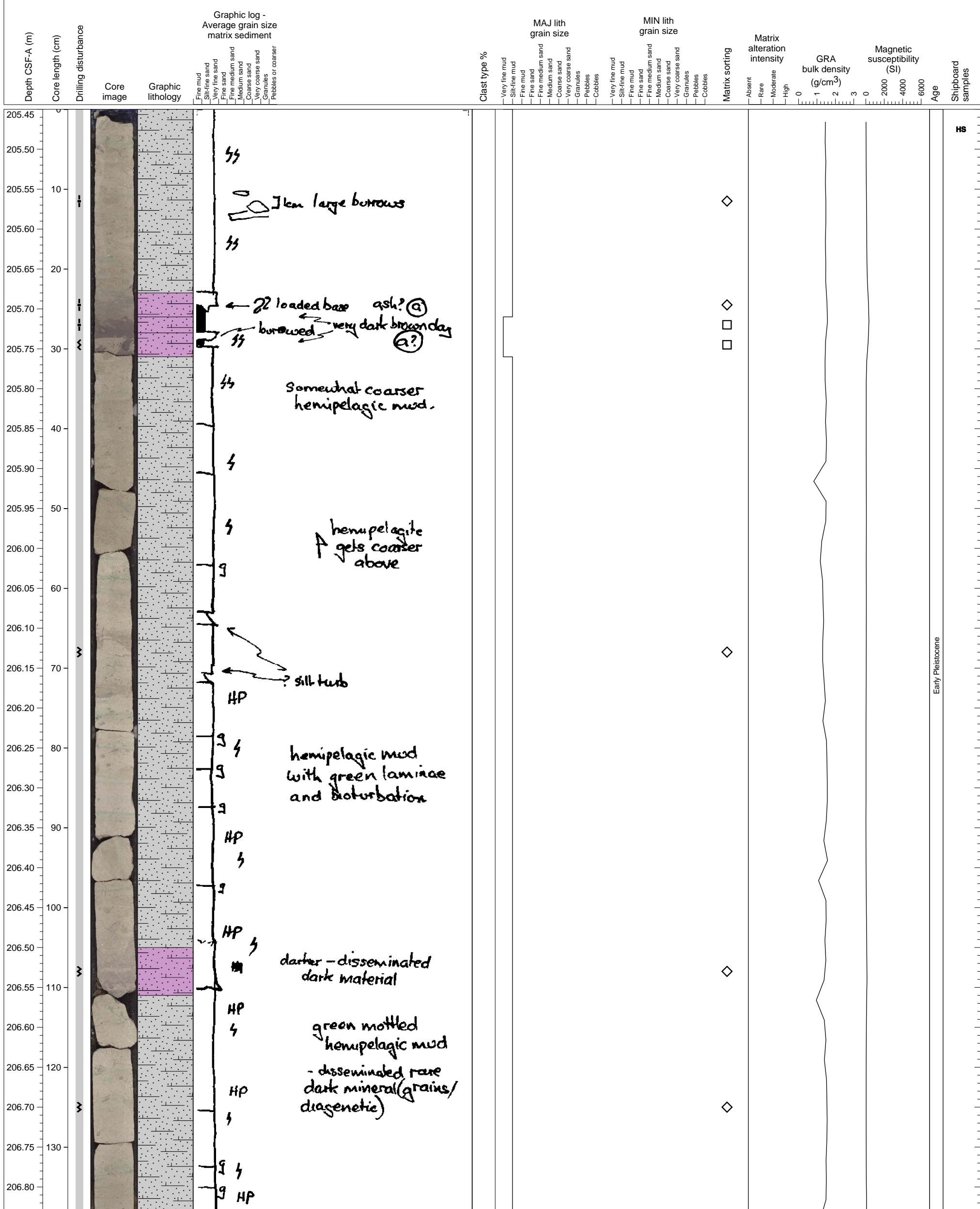
Hemipelagic mud



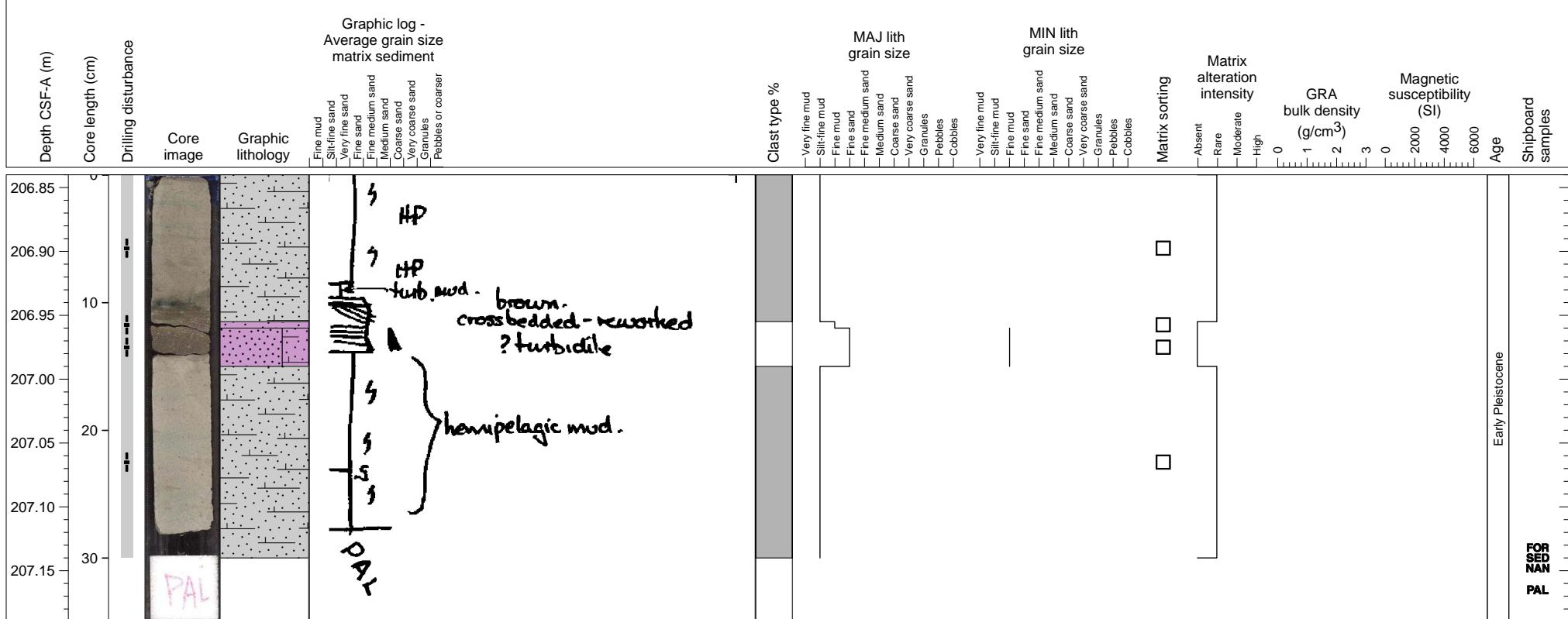
Consolidated hemipelagic sediment interlayered with two turbidites. Heavily bioturbated, and boundaries of layers are unclear.



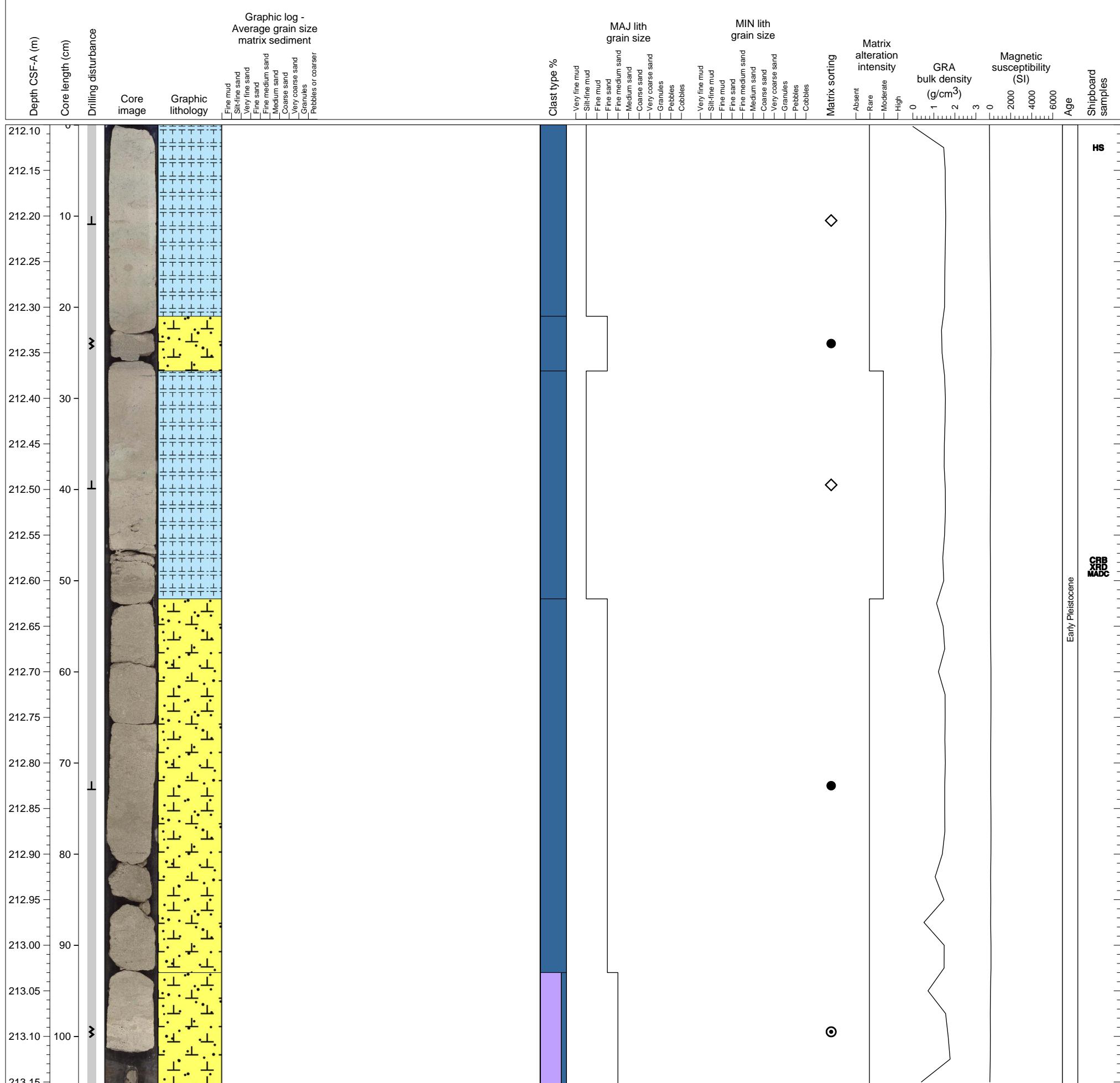
This section is commonly bioturbated. There are three volcaniclastic mud layers (which may be ash layers) at 26-28, 28-31 and 105-111 cm. Most other parts are hemipelagic calcareous ooze.



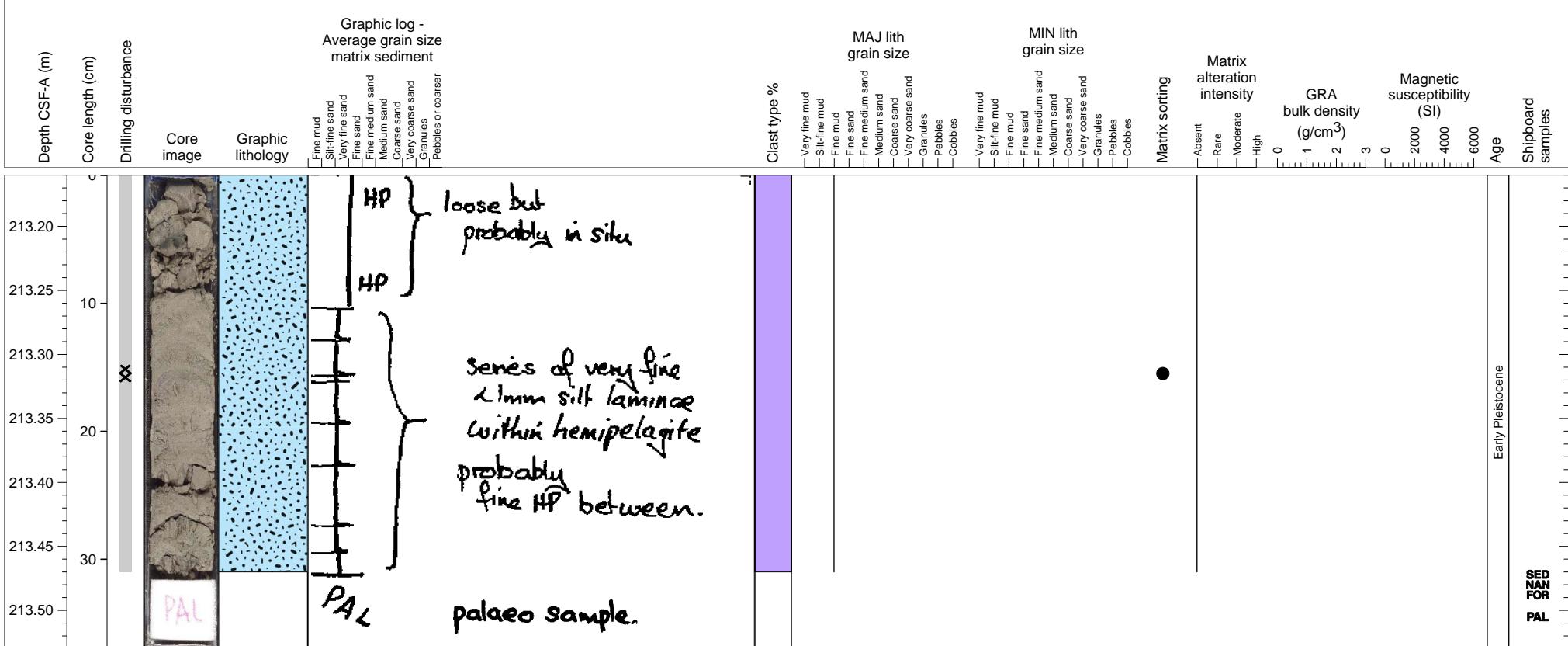
Hemipelagic clay interlayered with normally graded volcanioclastic unit, from fine sand to fine mud.



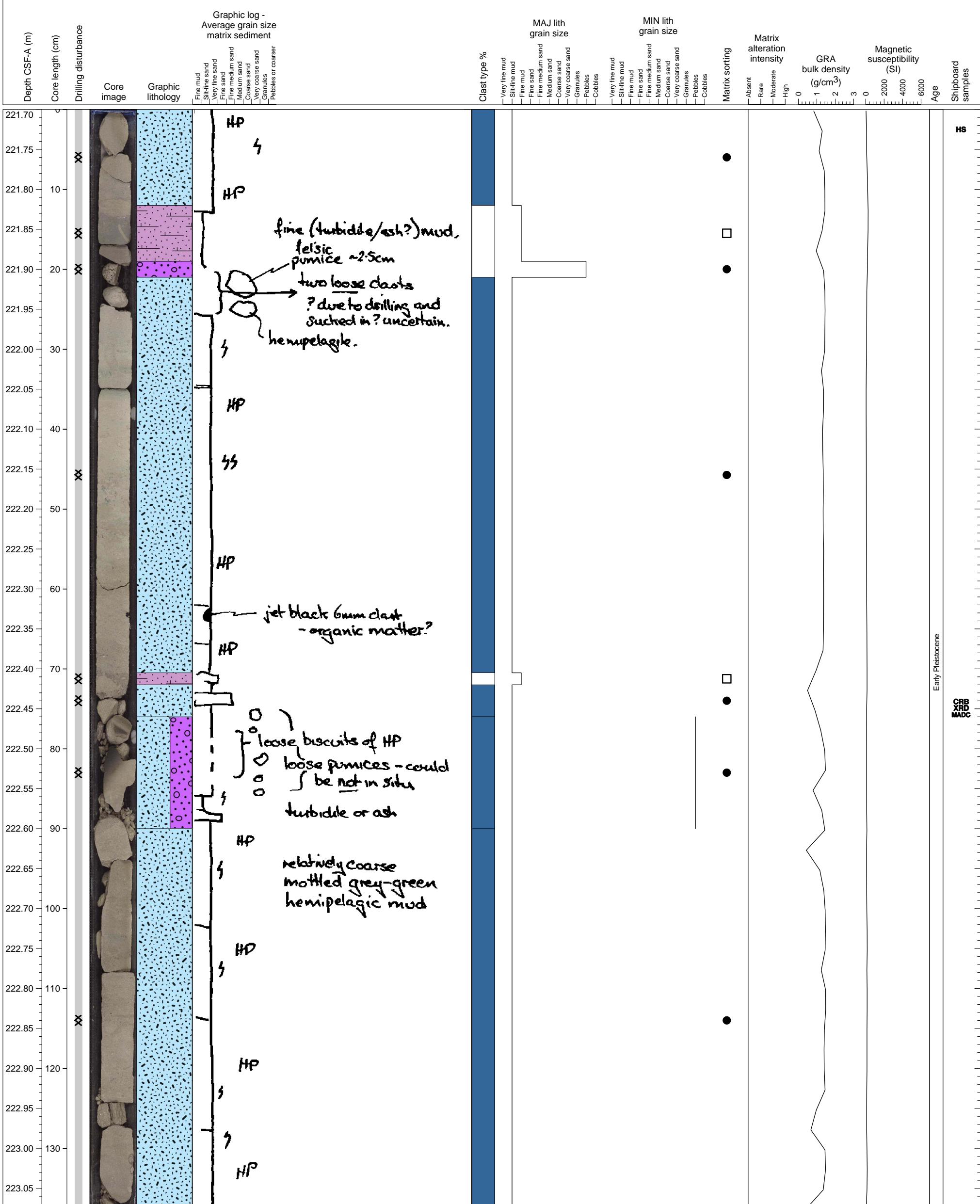
Consolidated, hemiplegitic fine sediments.



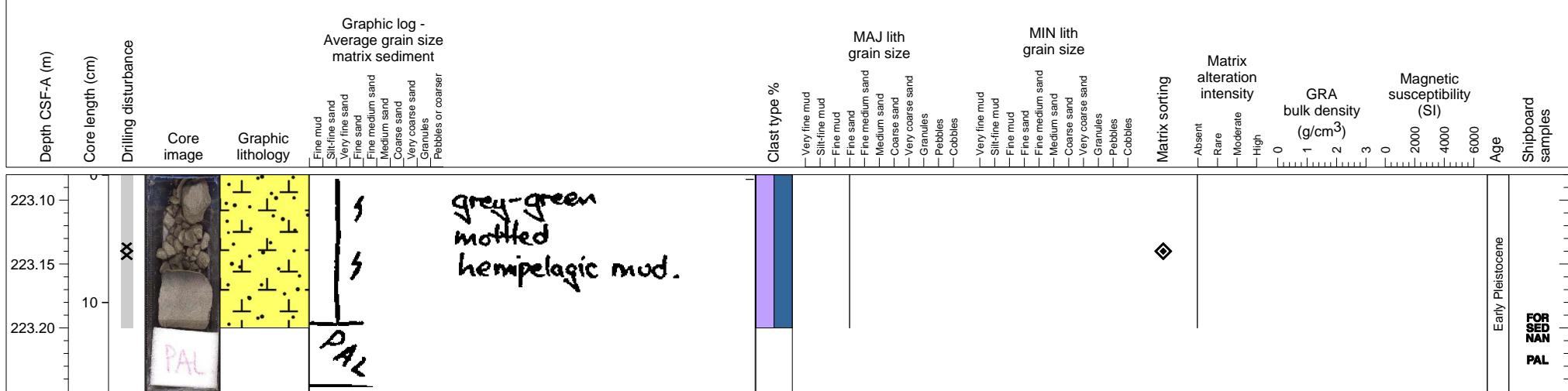
Calcareous mudstone pebbles. PAL sample from base.



Mix of calcareous mudstone and pumice pebbles.



Calcareous sandstone cobbles. PAL sample from base.



Thin sections