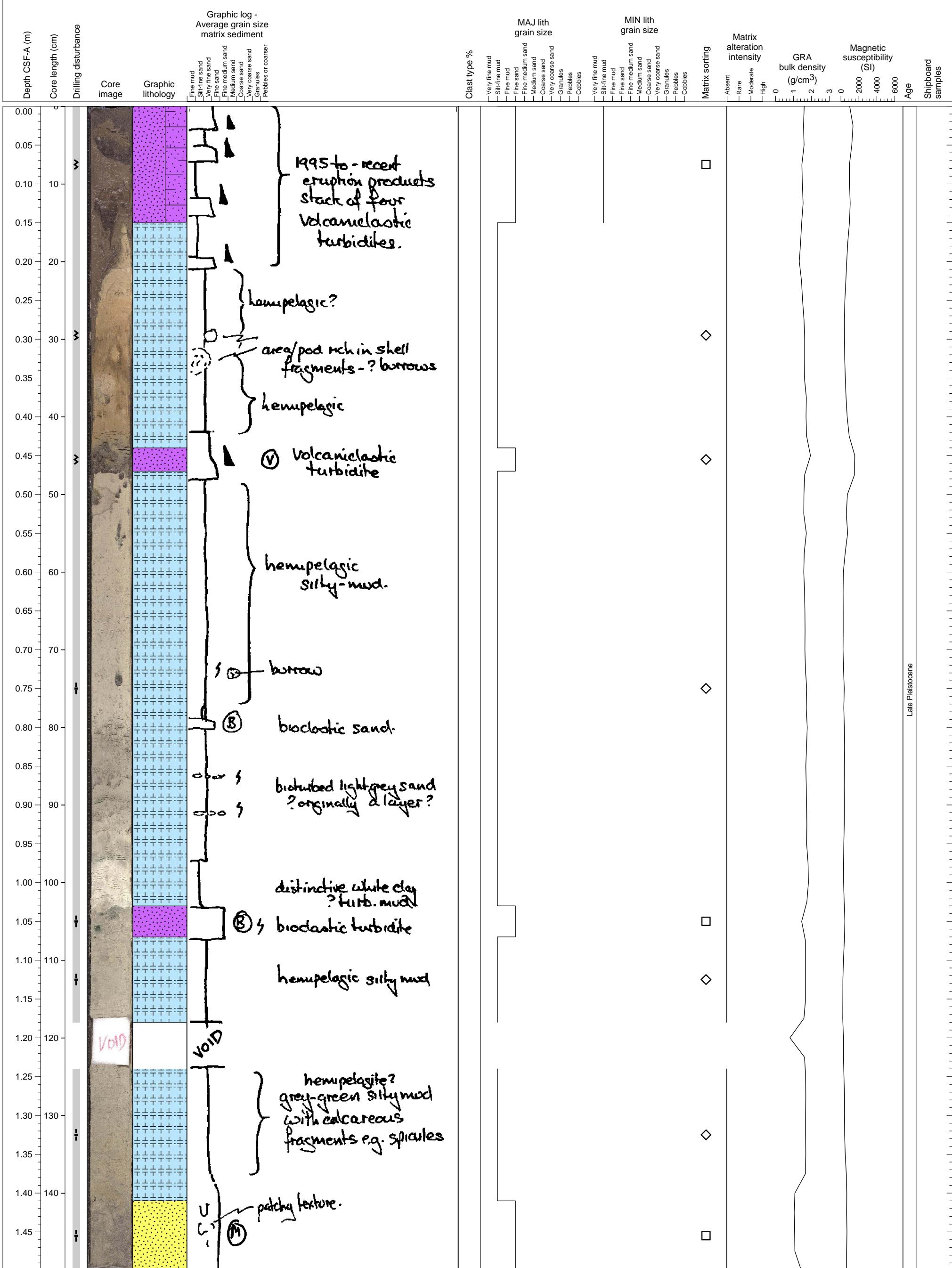
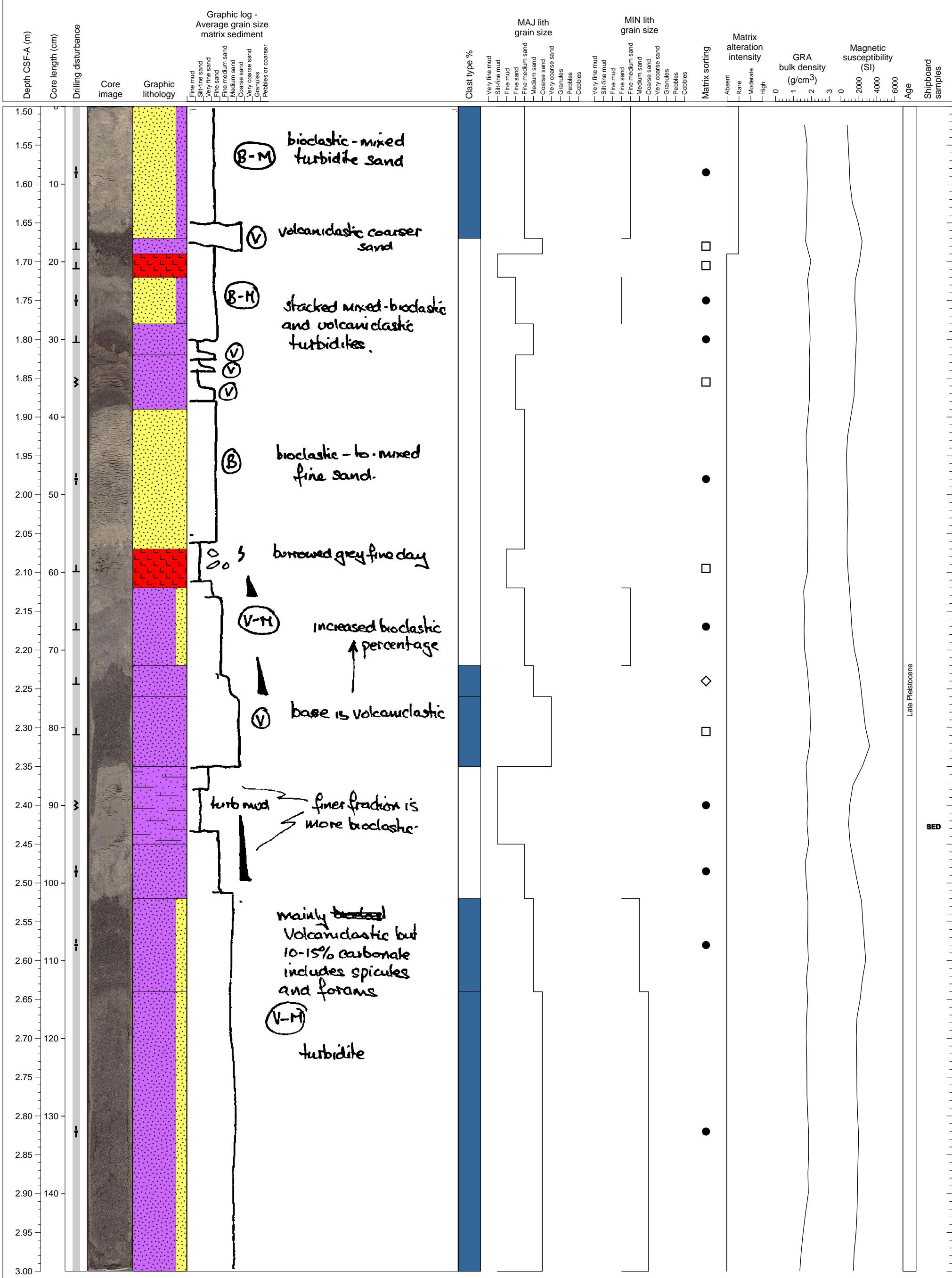


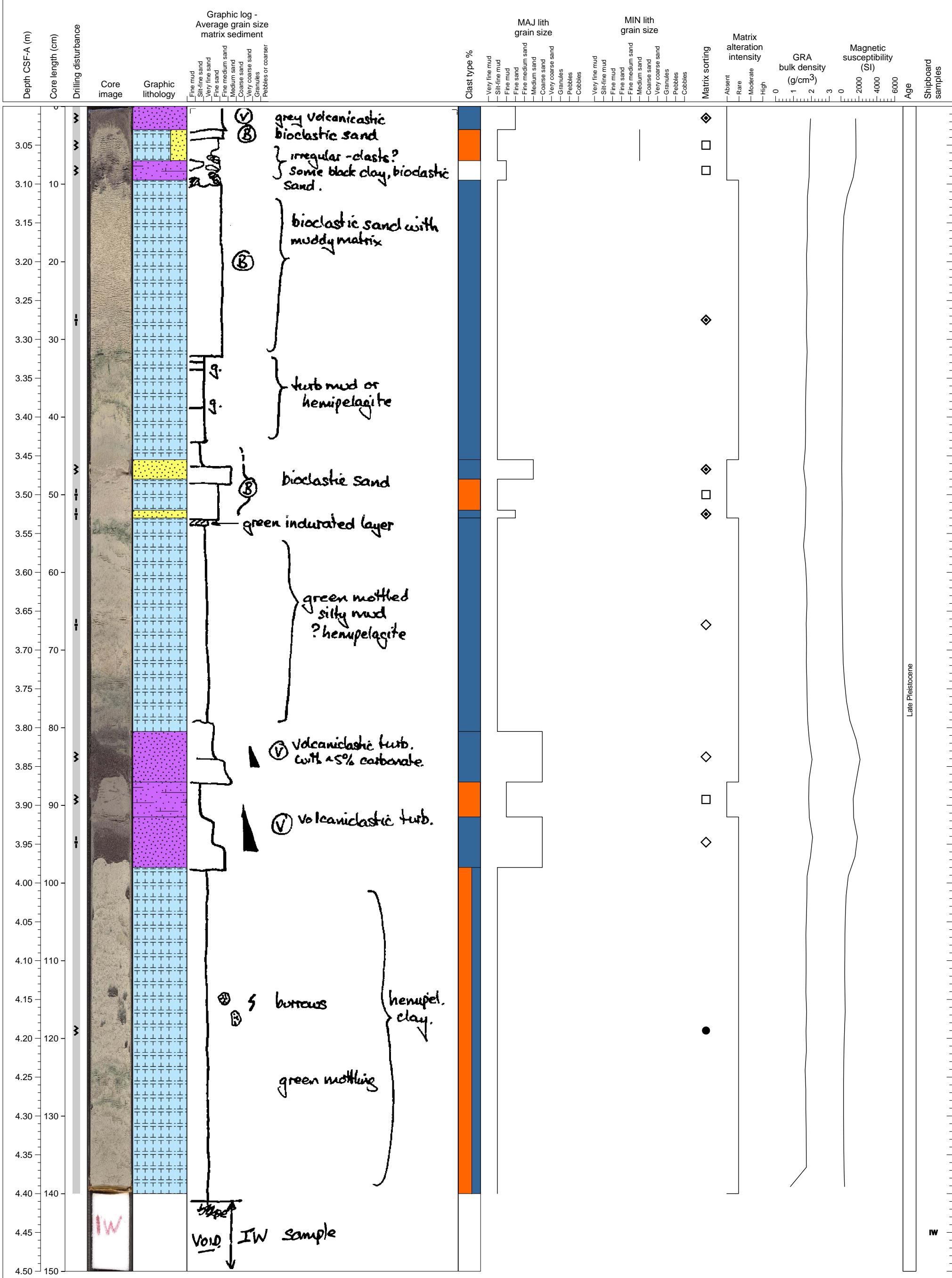
Upper part of this section (0-47 cm) contains volcanic sand and the lower part (47-150 cm) consists of calcareous ooze and sand.



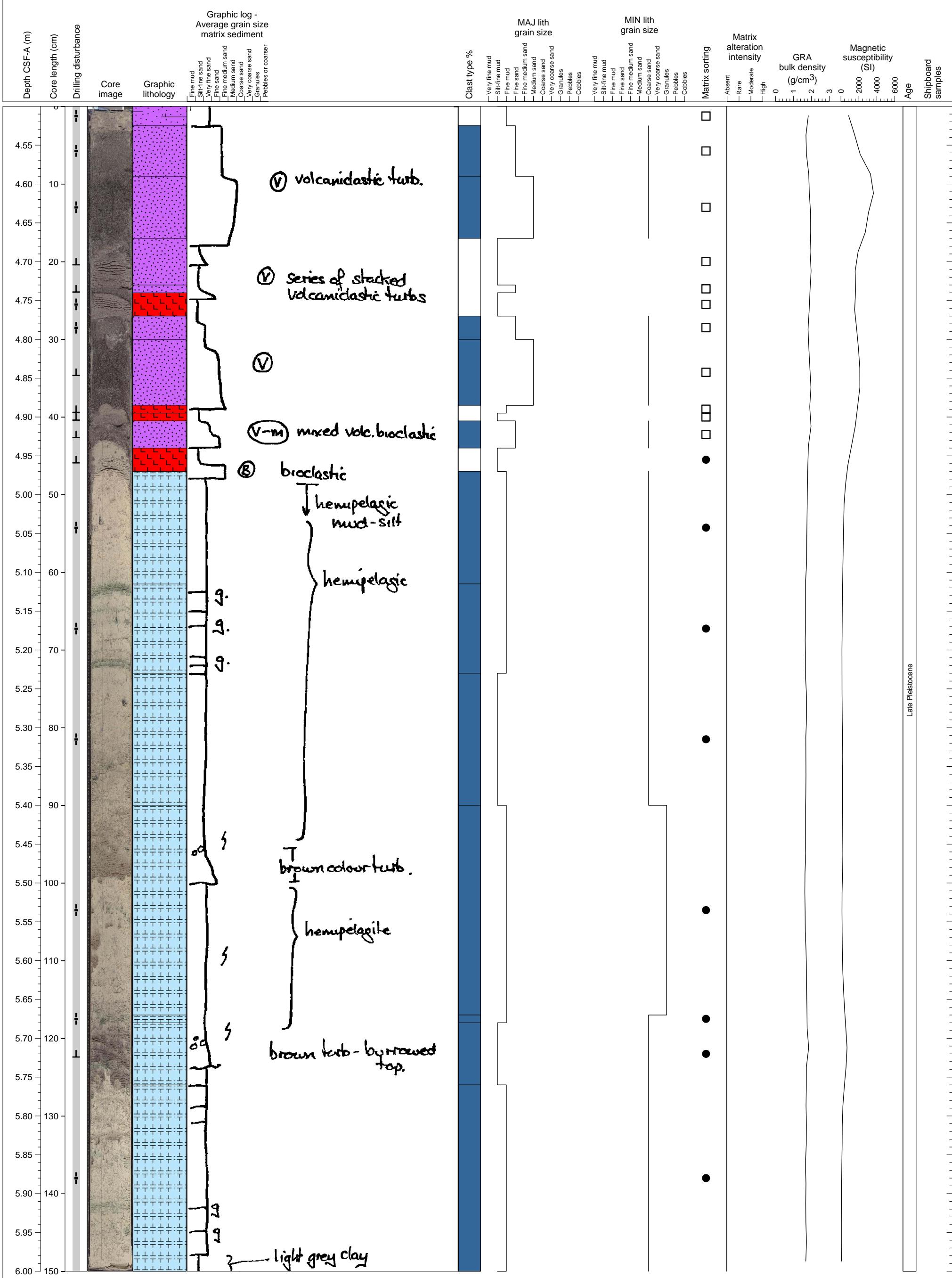
Well graded volcanioclastic & bioclastic series. with minor amount of bioclasts.  
 Grain size varies from coarse sand to fine mud. More than 2 disperse ash layers.



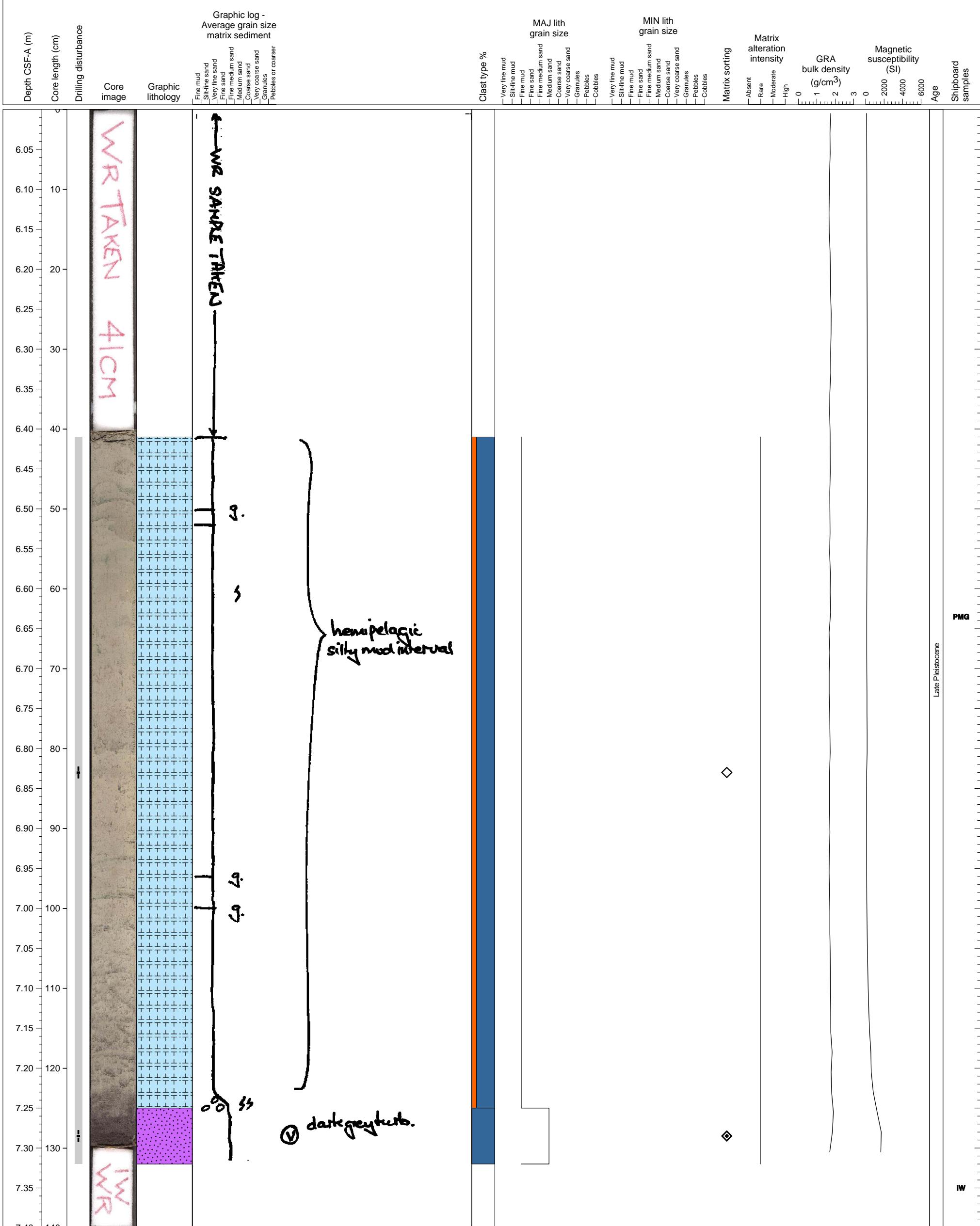
Volcaniclastic turbidite layers alternating with hemipelagic clay layers. IW sample from base.



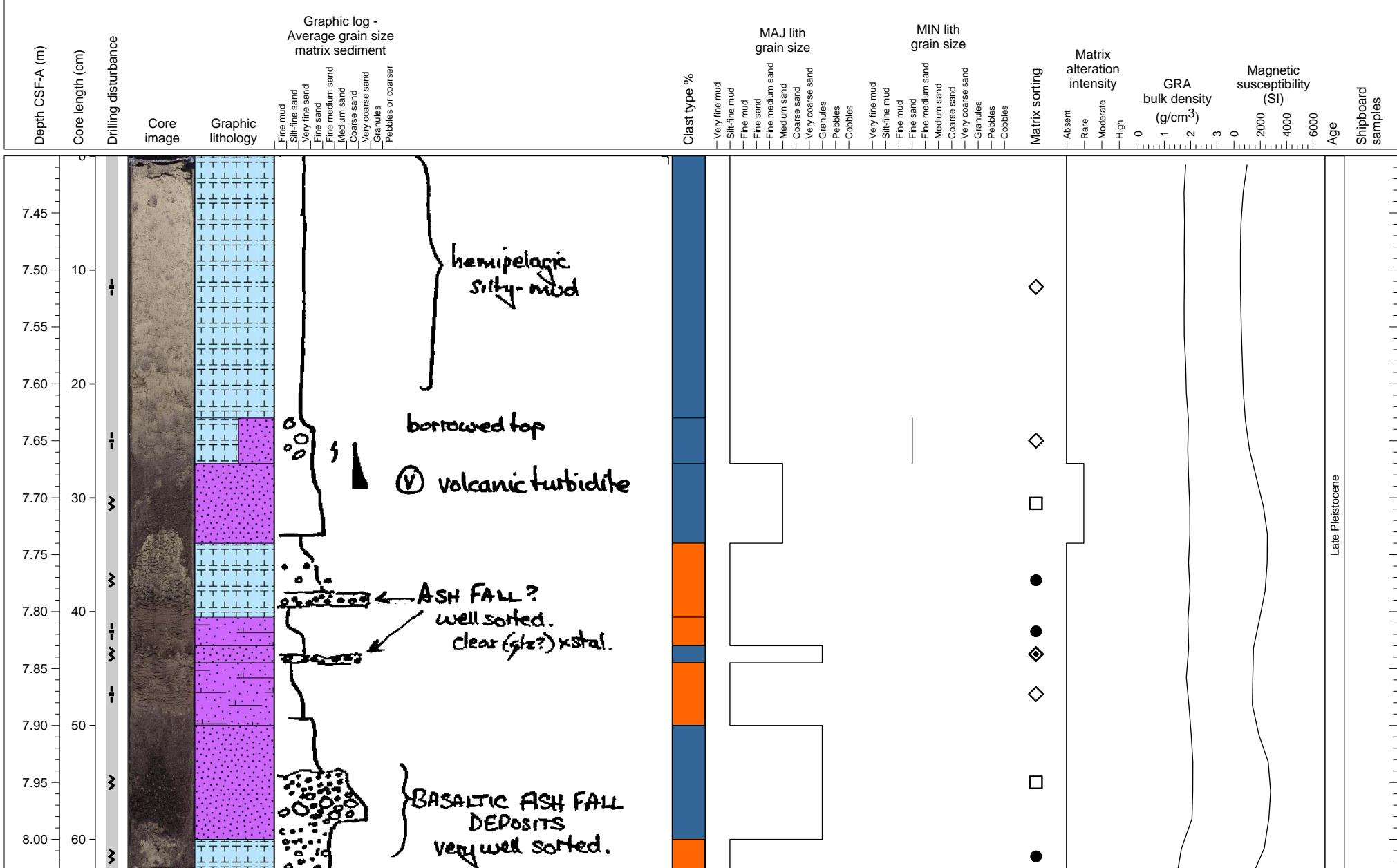
Upper 47 cm is generally muddy or sandy volcaniclastic layers with some potential tephra layers. Lower part is carbonate ooze with 1-cm-green-colored layers and biogenic clasts.



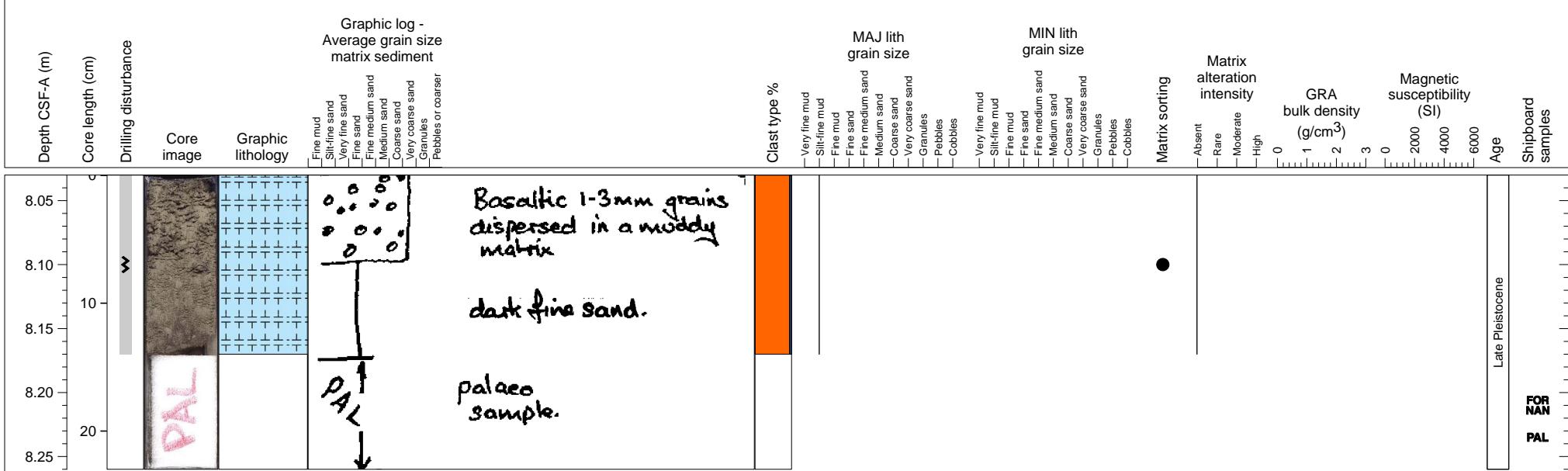
Hemipelagic clay with glauconite layers overlying volcanioclastic sand deposit. WR sample taken from top and IW WR samples taken from base.



Volcaniclastic turbidite deposits interlayered with hemipelagic clay.

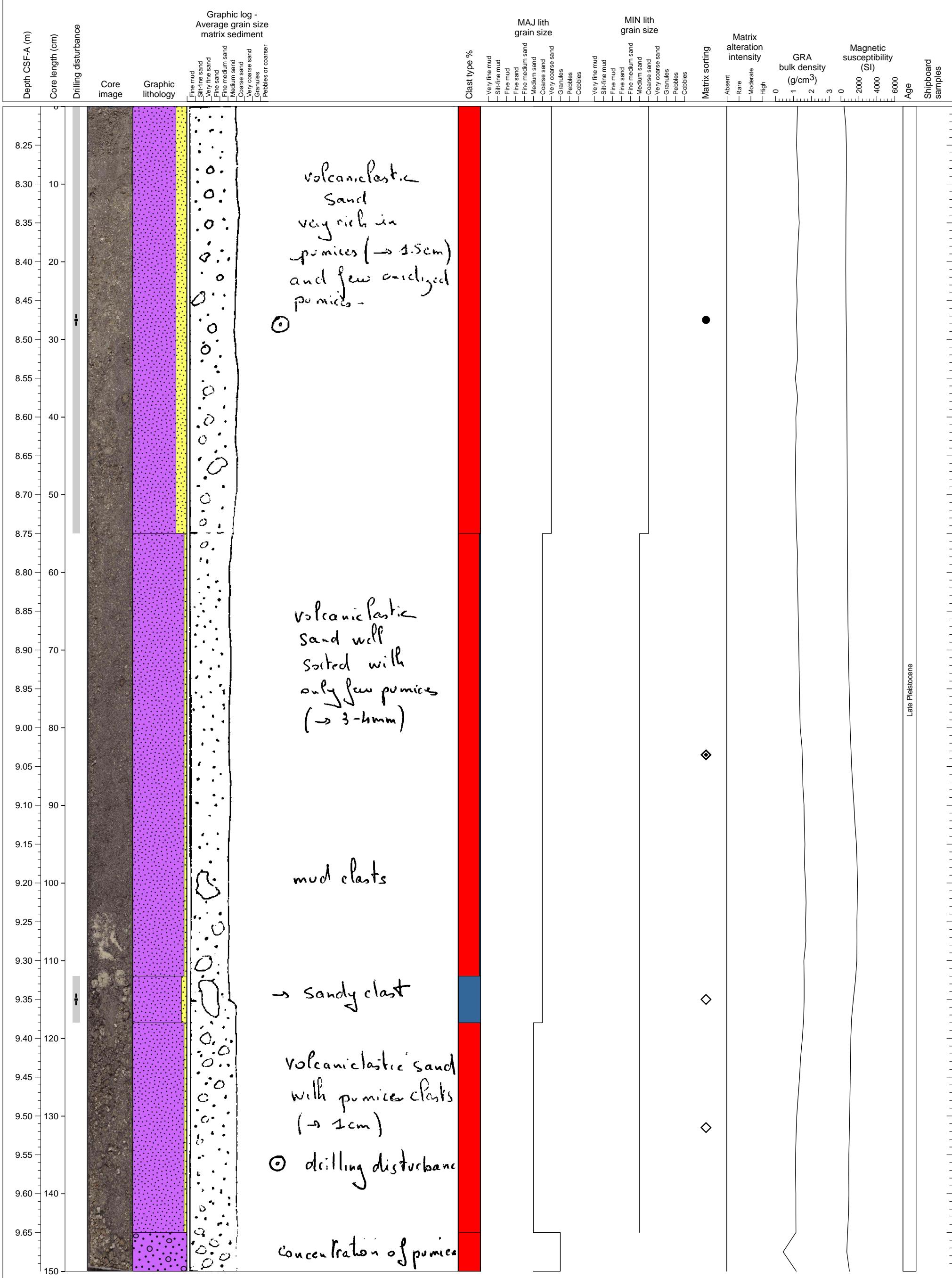


Hemipelagic clay with a significant amount of granule-sized scoria clasts mixed into the upper portion. PAL sample taken from base.

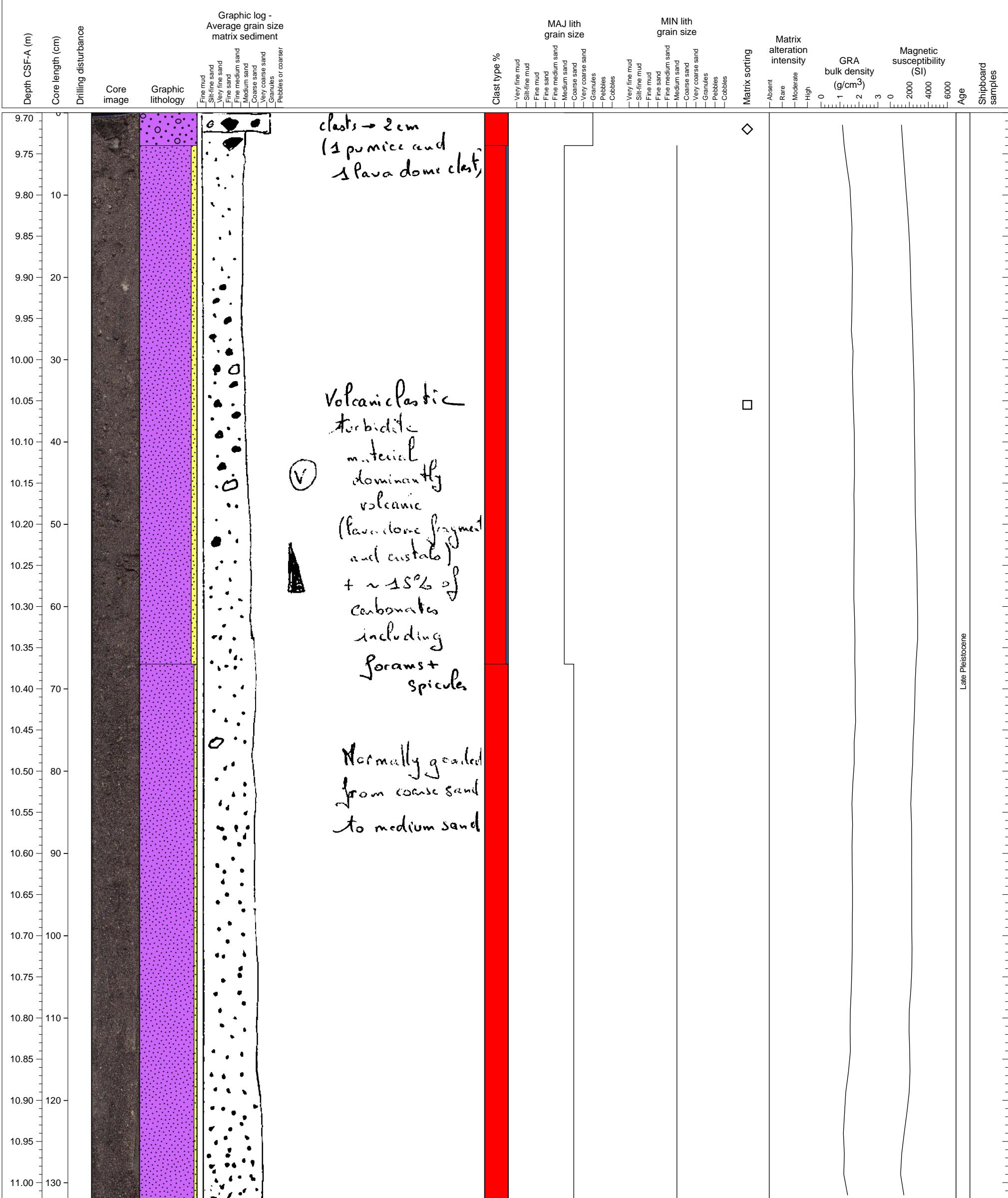


Hole 340-U1394B-2H Section 1, Top of Section: 8.2 CSF-A (m)

Volcaniclastic turbidite containing minor (up to 20%) carbonate grains. Large proportion of pumice, ~ 40%.

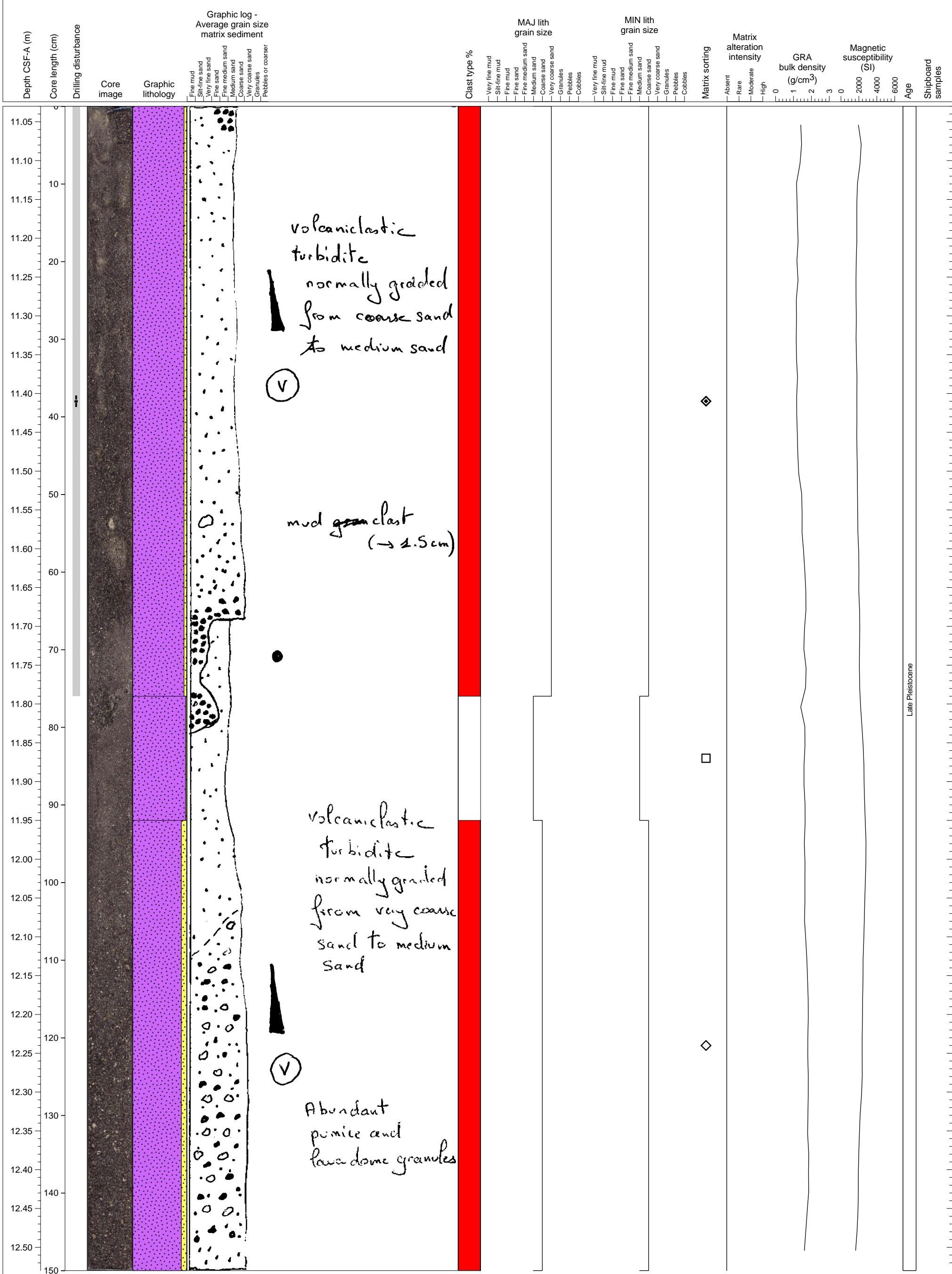


Volcaniclastic turbidite facies from the bottom to the top

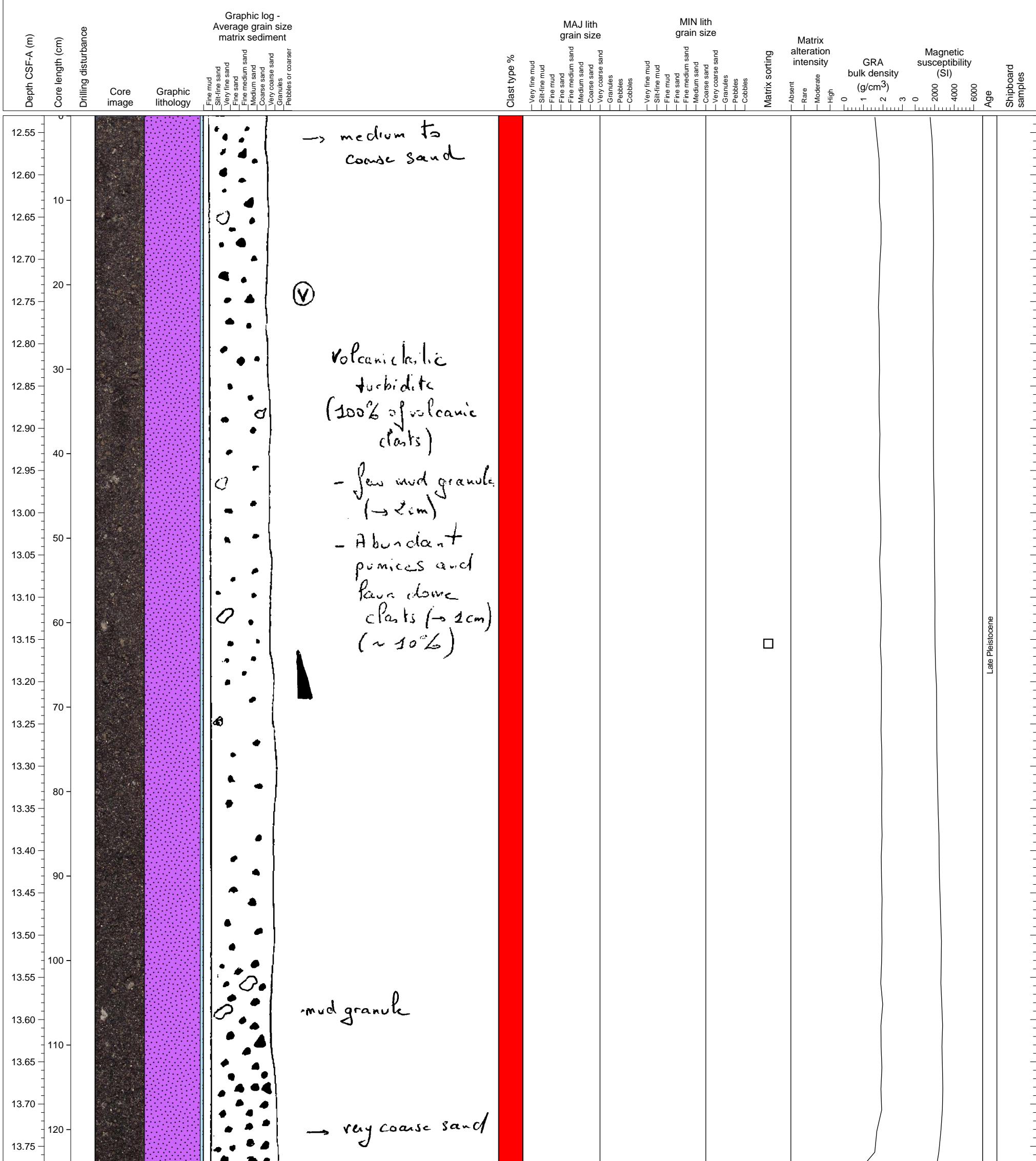


Hole 340-U1394B-2H Section 3, Top of Section: 11.03 CSF-A (m)

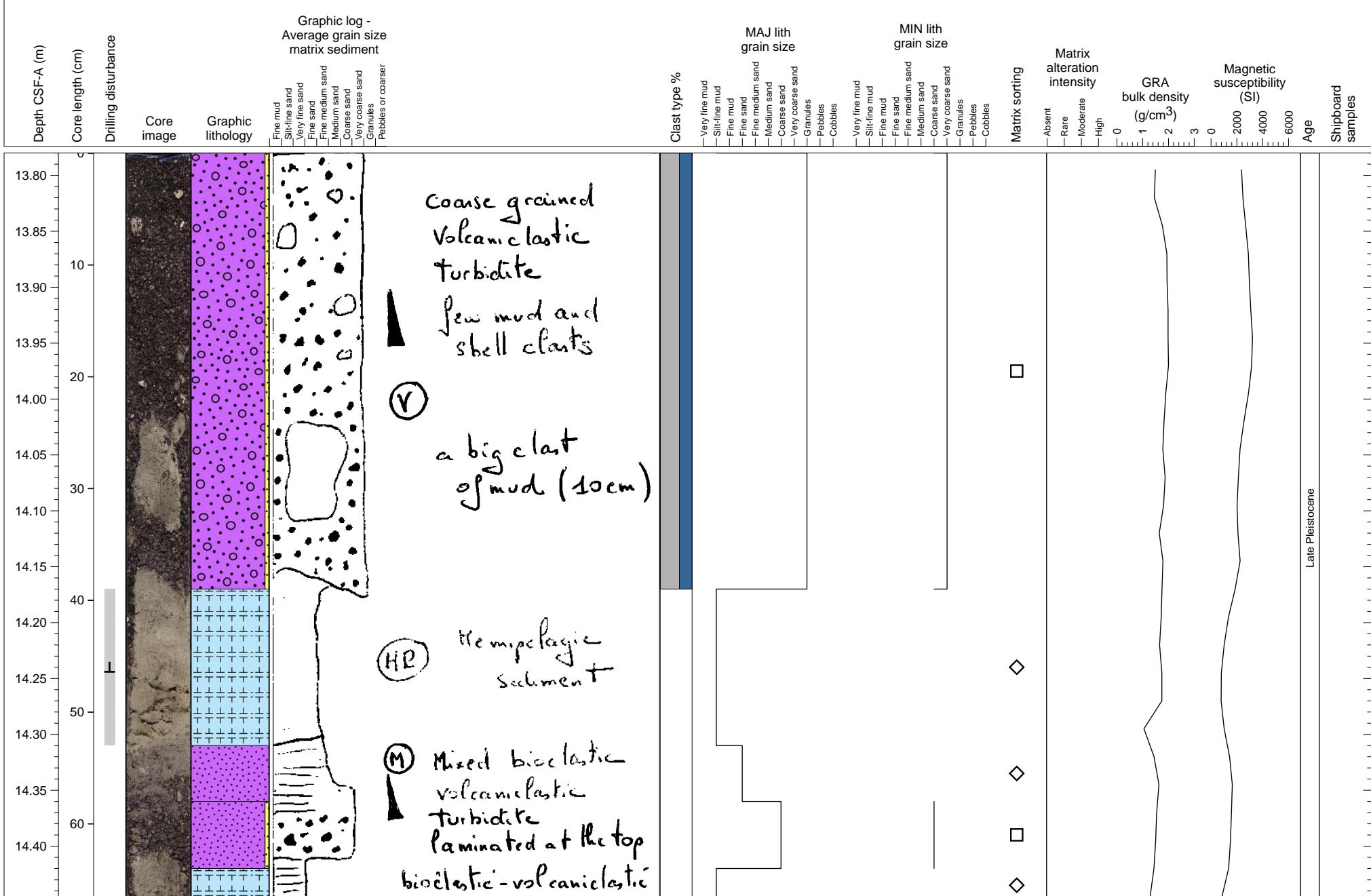
Volcaniclastic sand containing ~ 5% carbonate material. Pumice up to 8 mm. Some (~50%) oxidized.



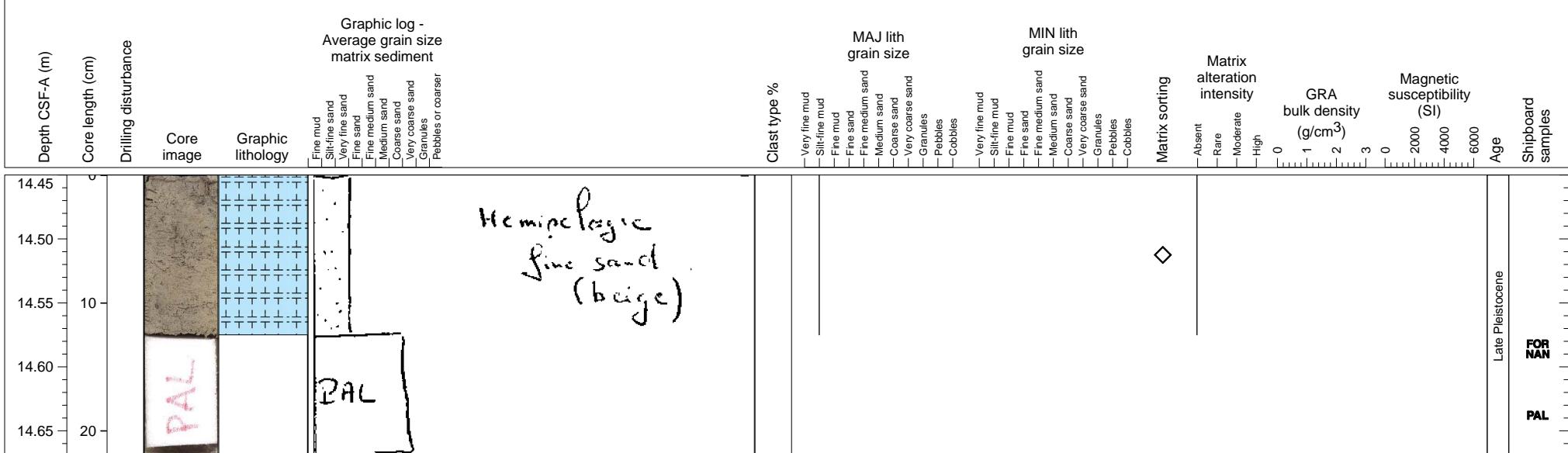
Single thick volcanioclastic sand unit with minor component of carbonate grains. Well sorted, slight normal grading.



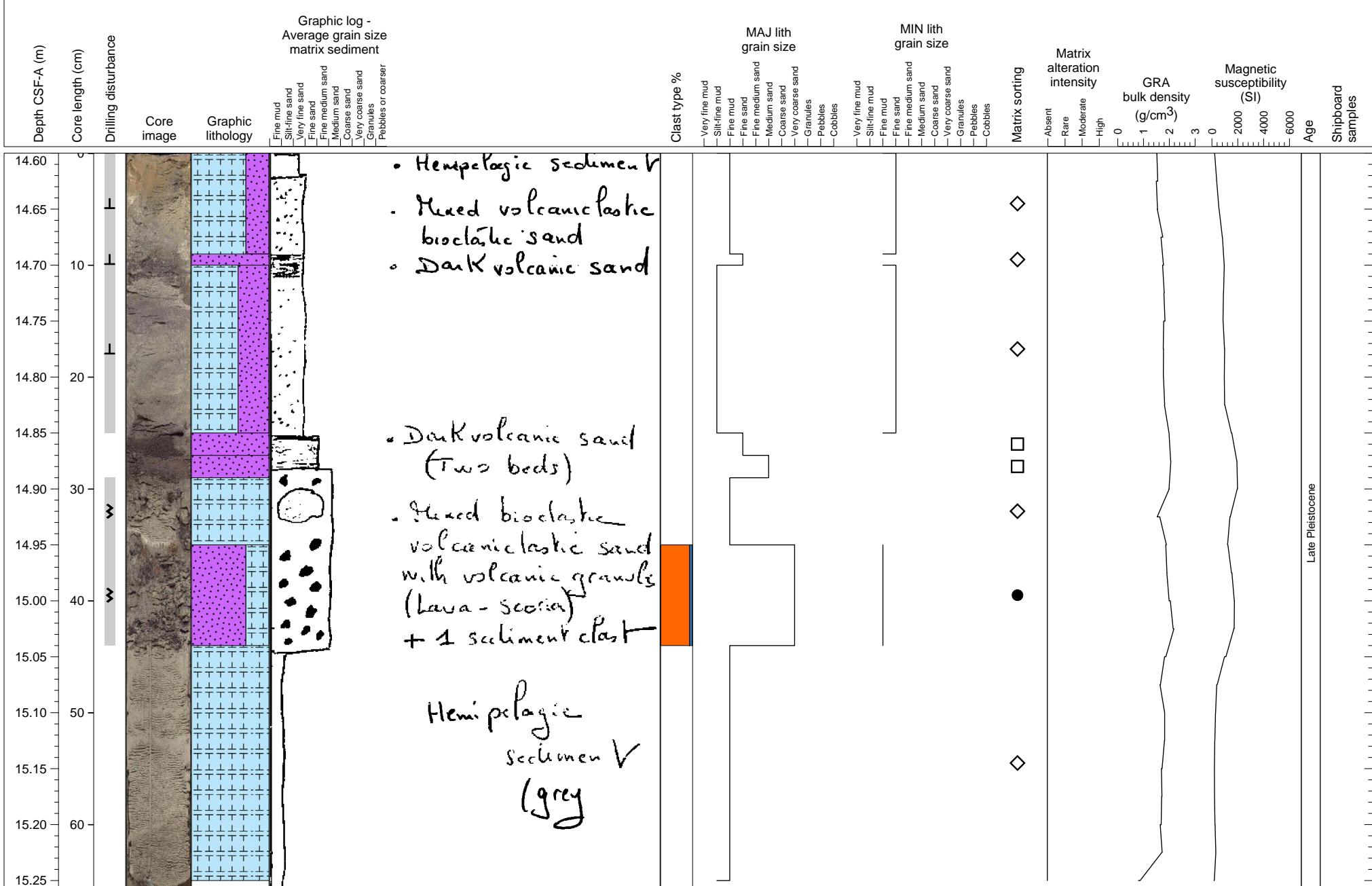
Upper half: base unit of volcaniclastic turbidite sequence; lower half: hemipelagic origin.



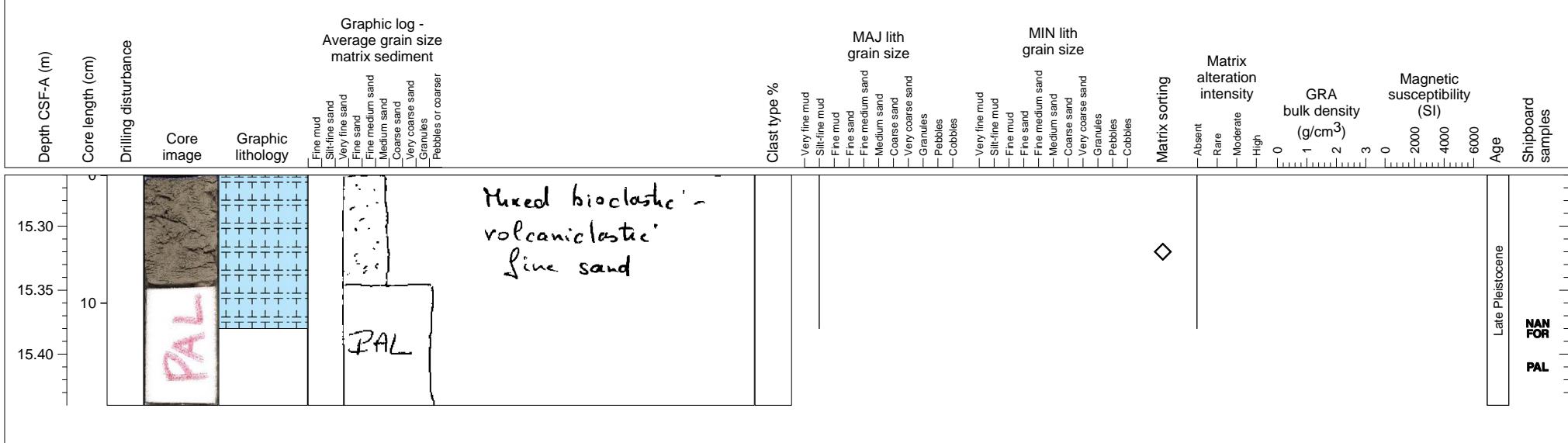
Hemipelagic sediments.



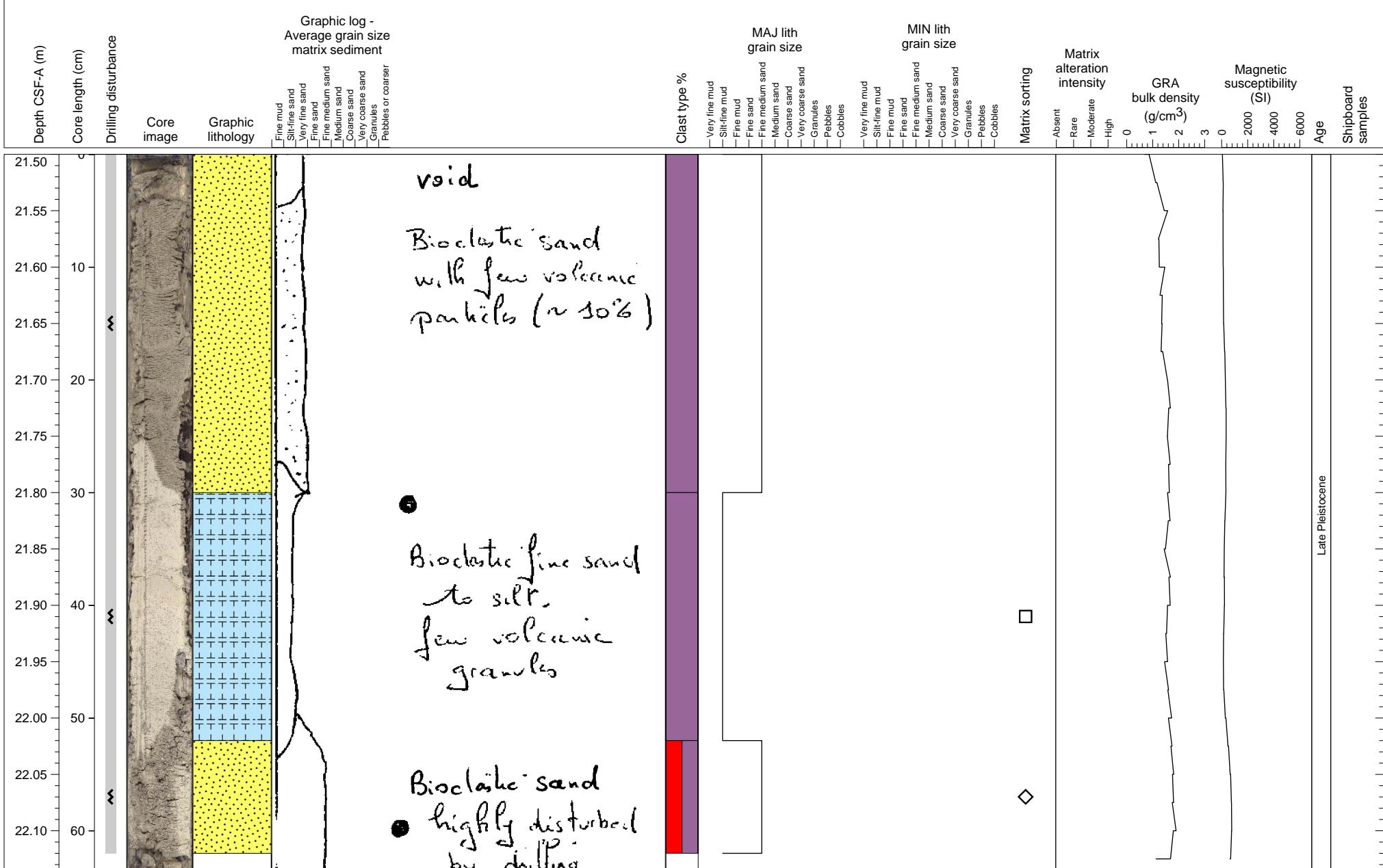
Hemipelagic muddy sediments with volcaniclastic sand layers.



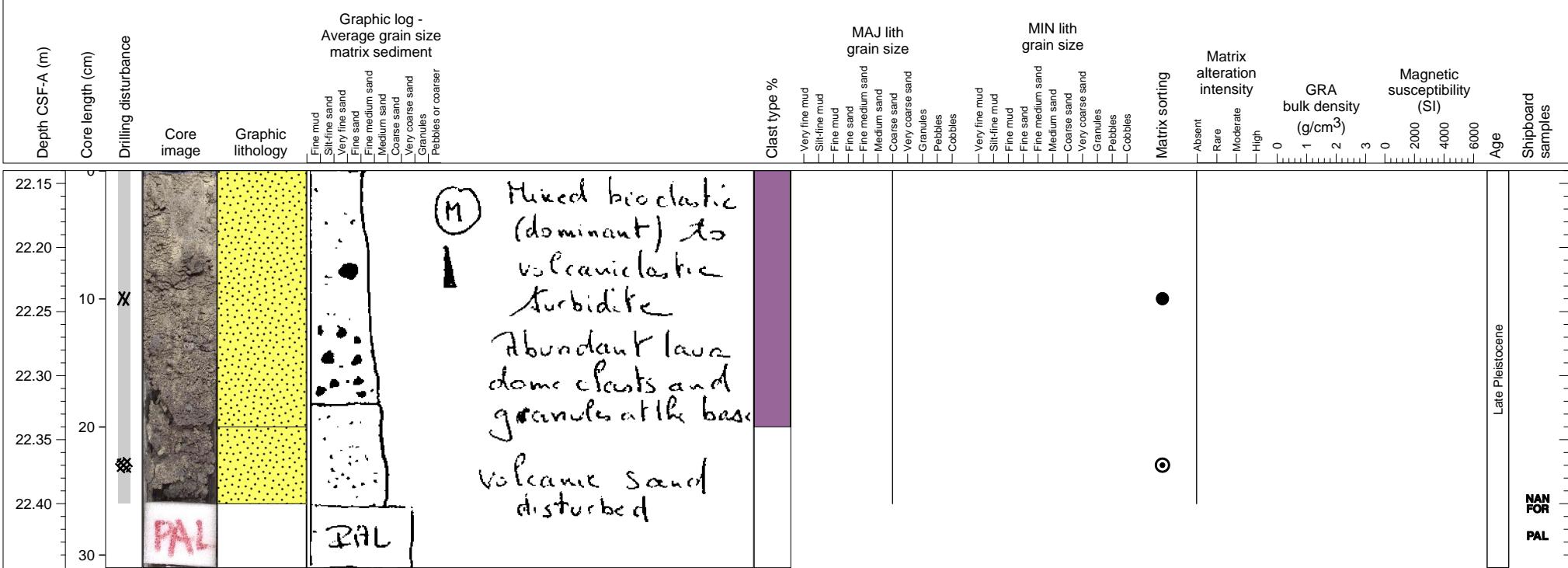
Hemipelagic sediments.



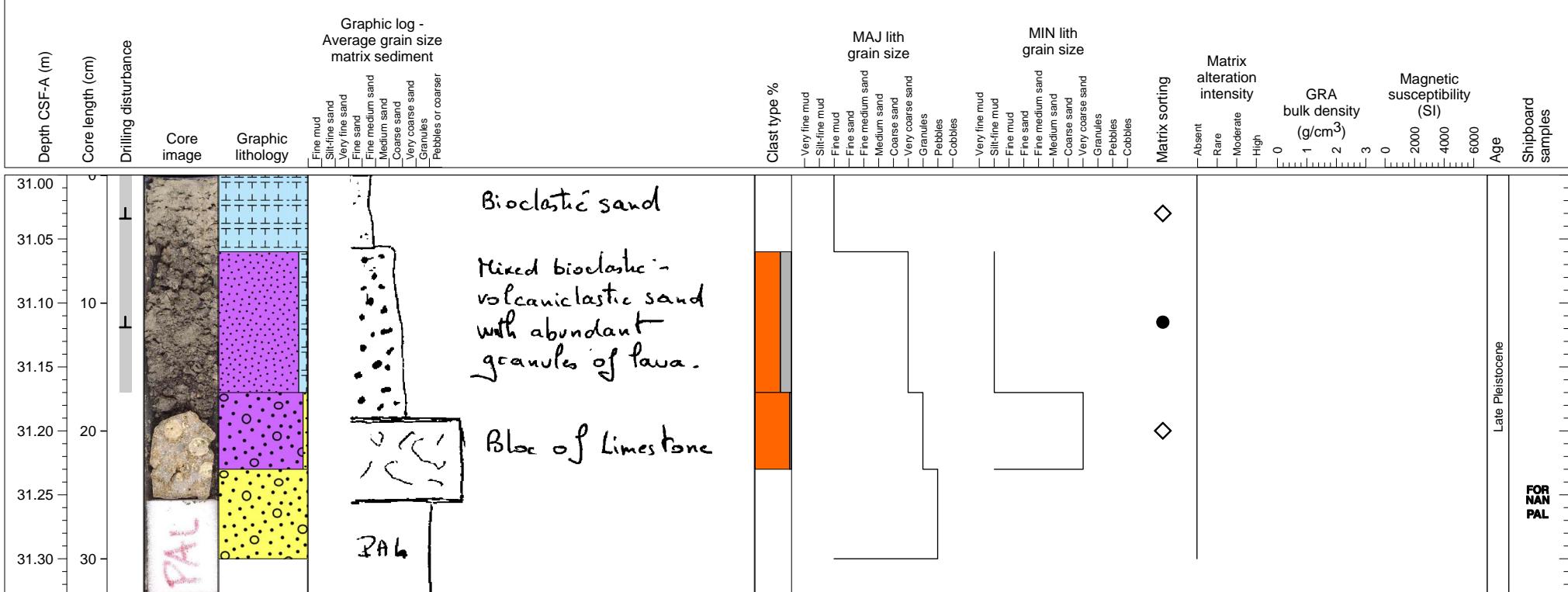
Highly disturbed calcareous sand with volcaniclastic clasts of pumice and andesite.



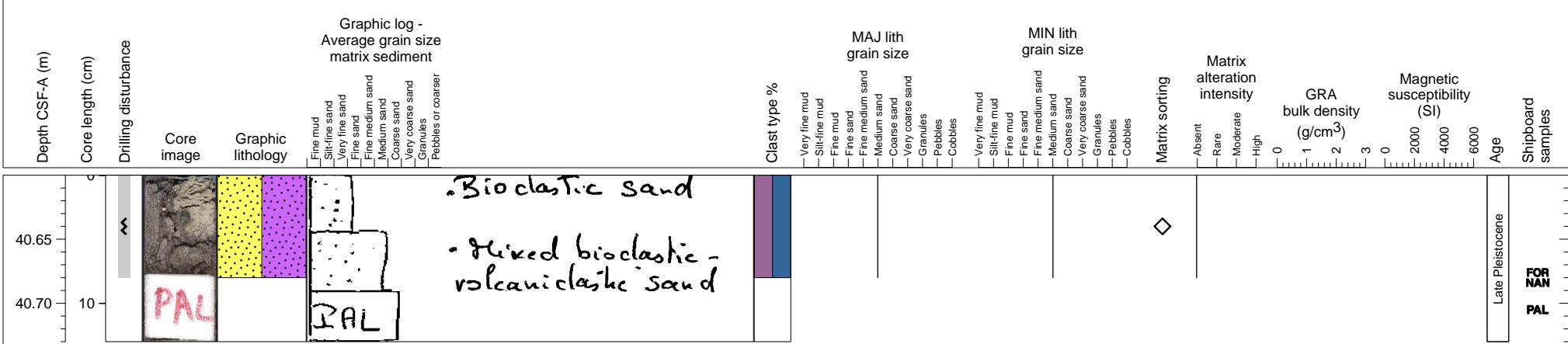
Carbonate sand with volcaniclastic clasts.



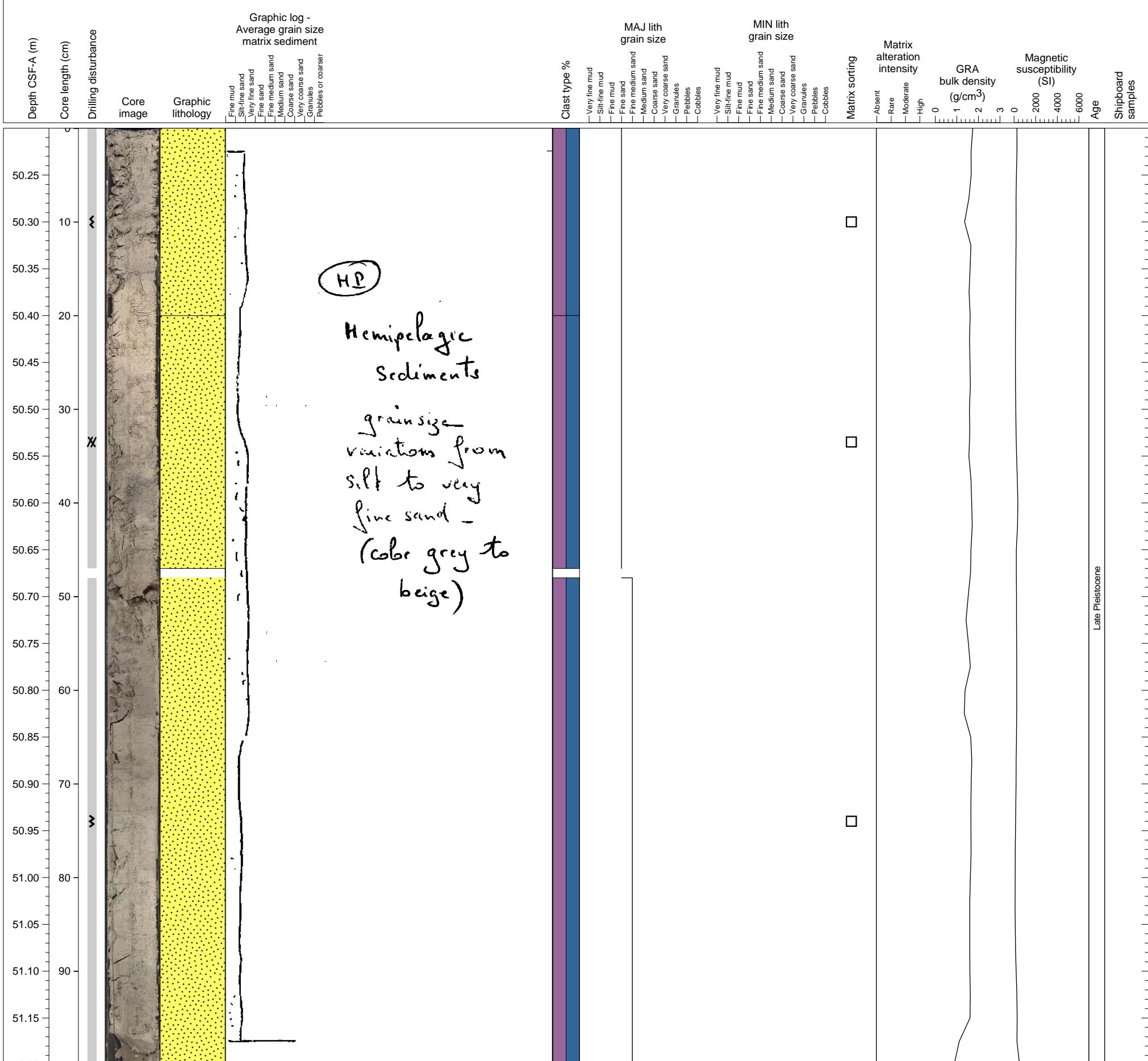
Hemipelagic sediment with scoriaceous sand. One limestone (packstone) pebble at the base.



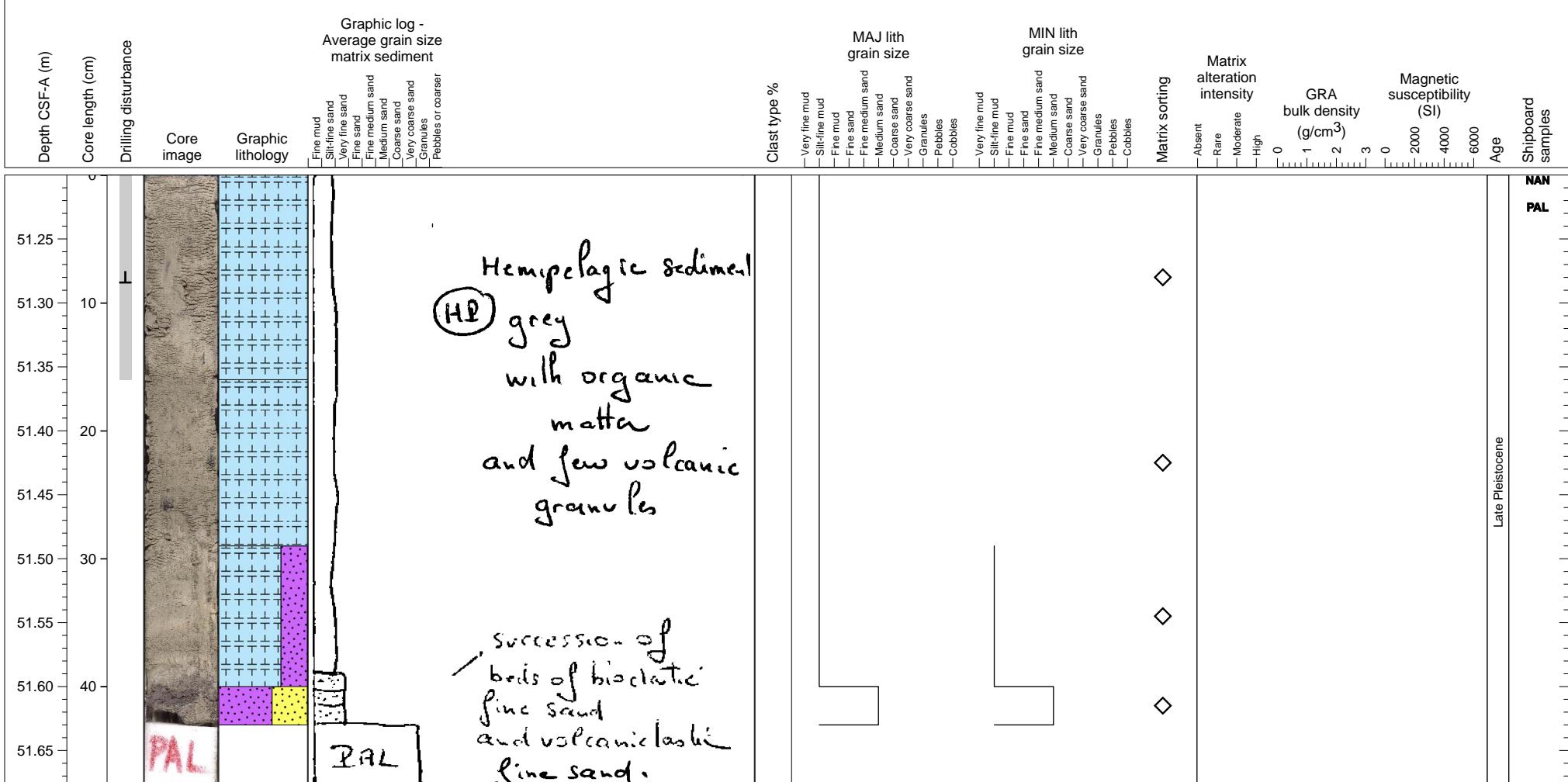
Mix calcareous/volcaniclastic sand. Highly disturbed.



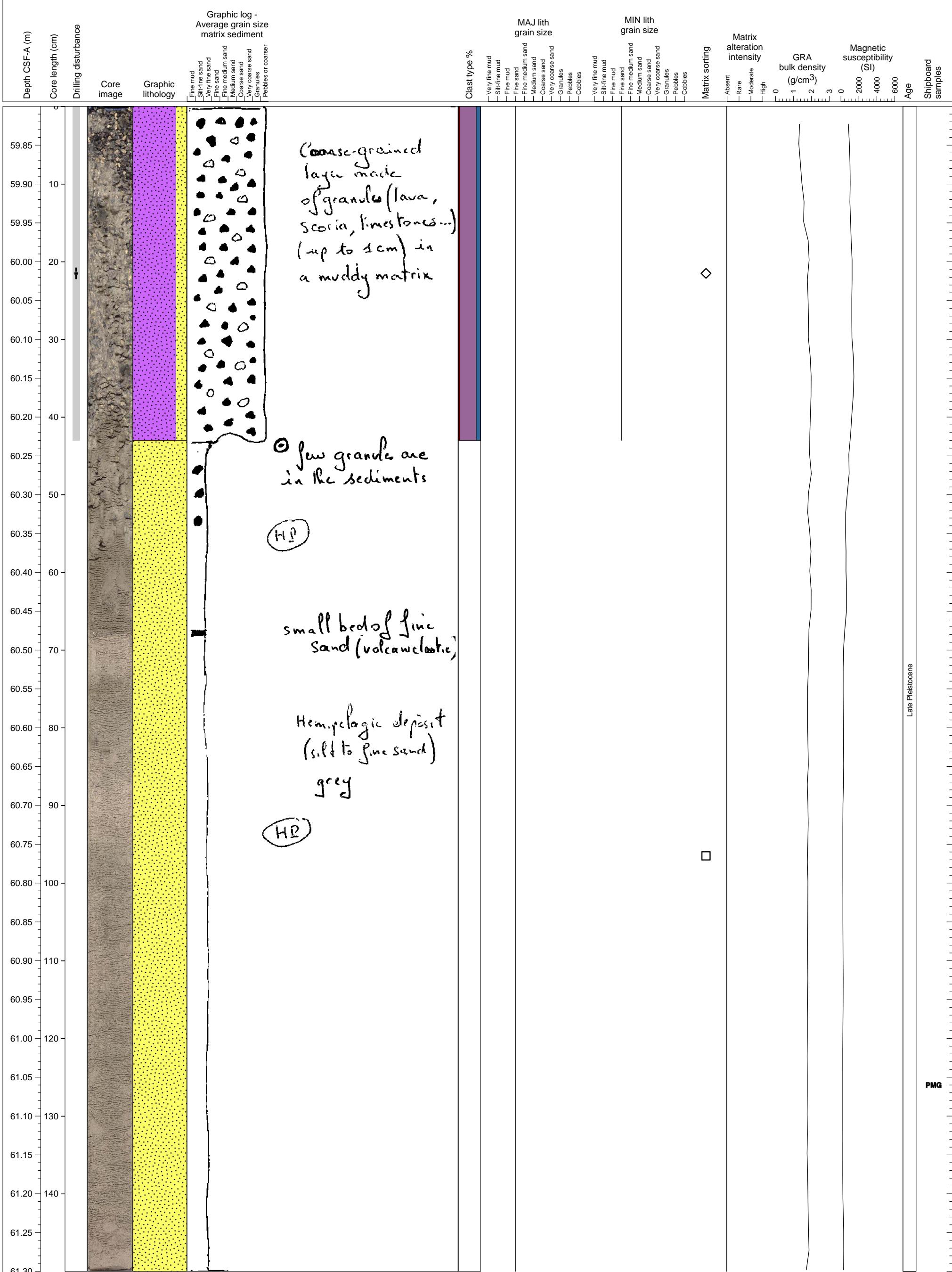
Well sorted carbonate sand with andesitic lava clasts.



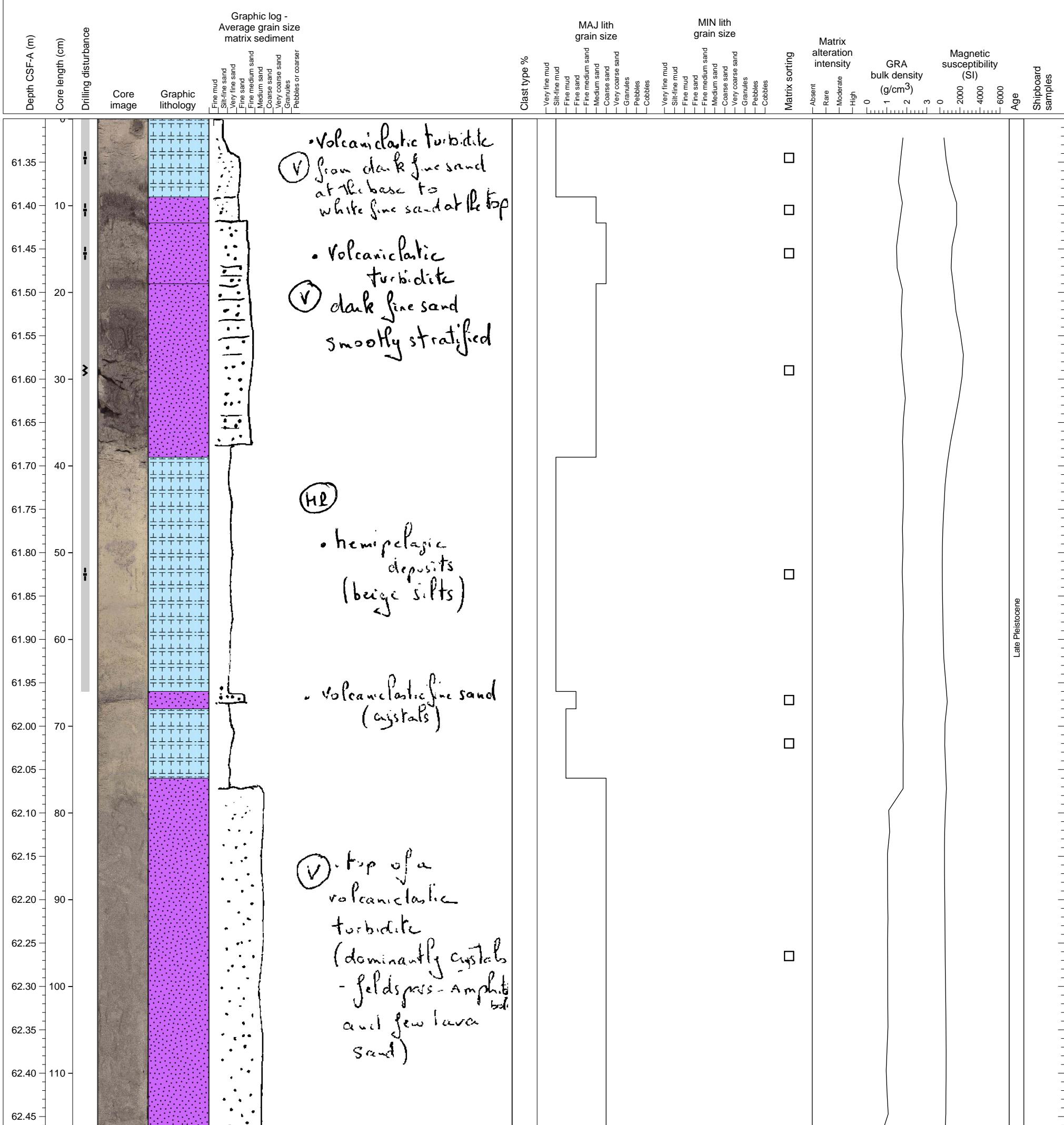
Hemipelagic sediments dominated. Small amount of volcaniclastic/bioclastic sand.



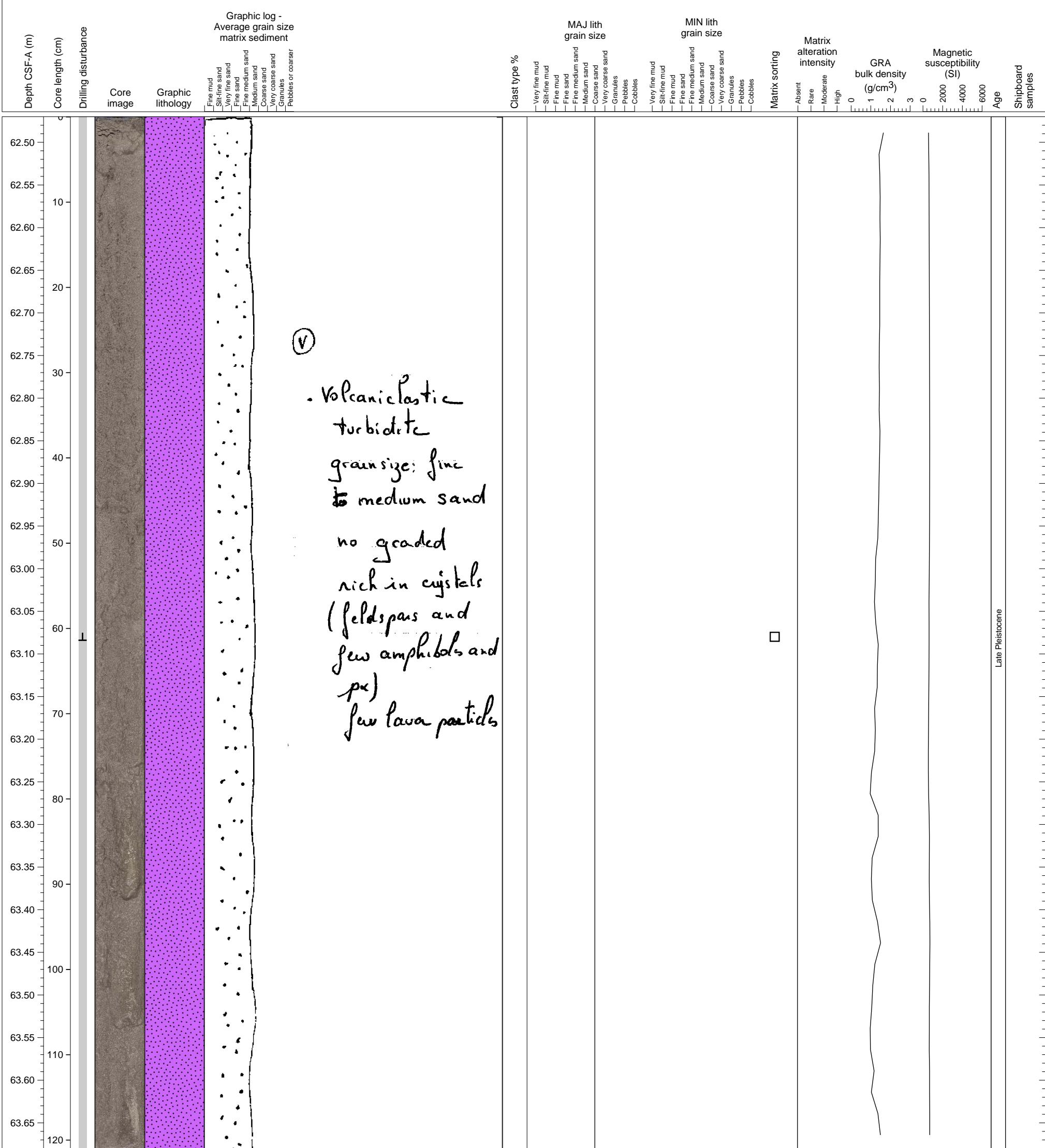
The top 43 cm of this section is probably material from higher up the hole that has fallen in, the rest is normal hemipelagic sediment.



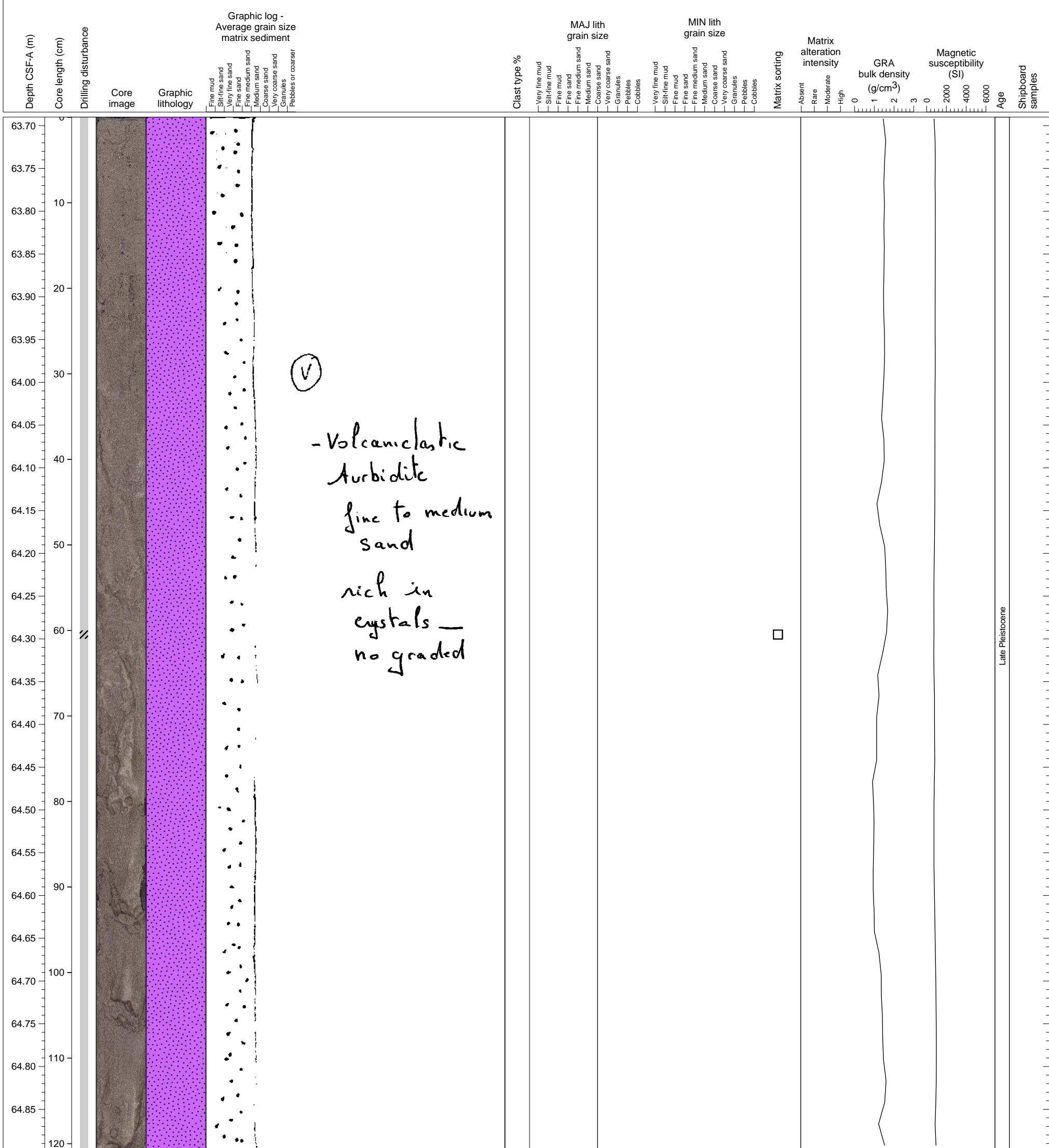
Alternating units of hemipelagic sediments and volcaniclastic sands with a single ash fall layer at 66-68 cm.



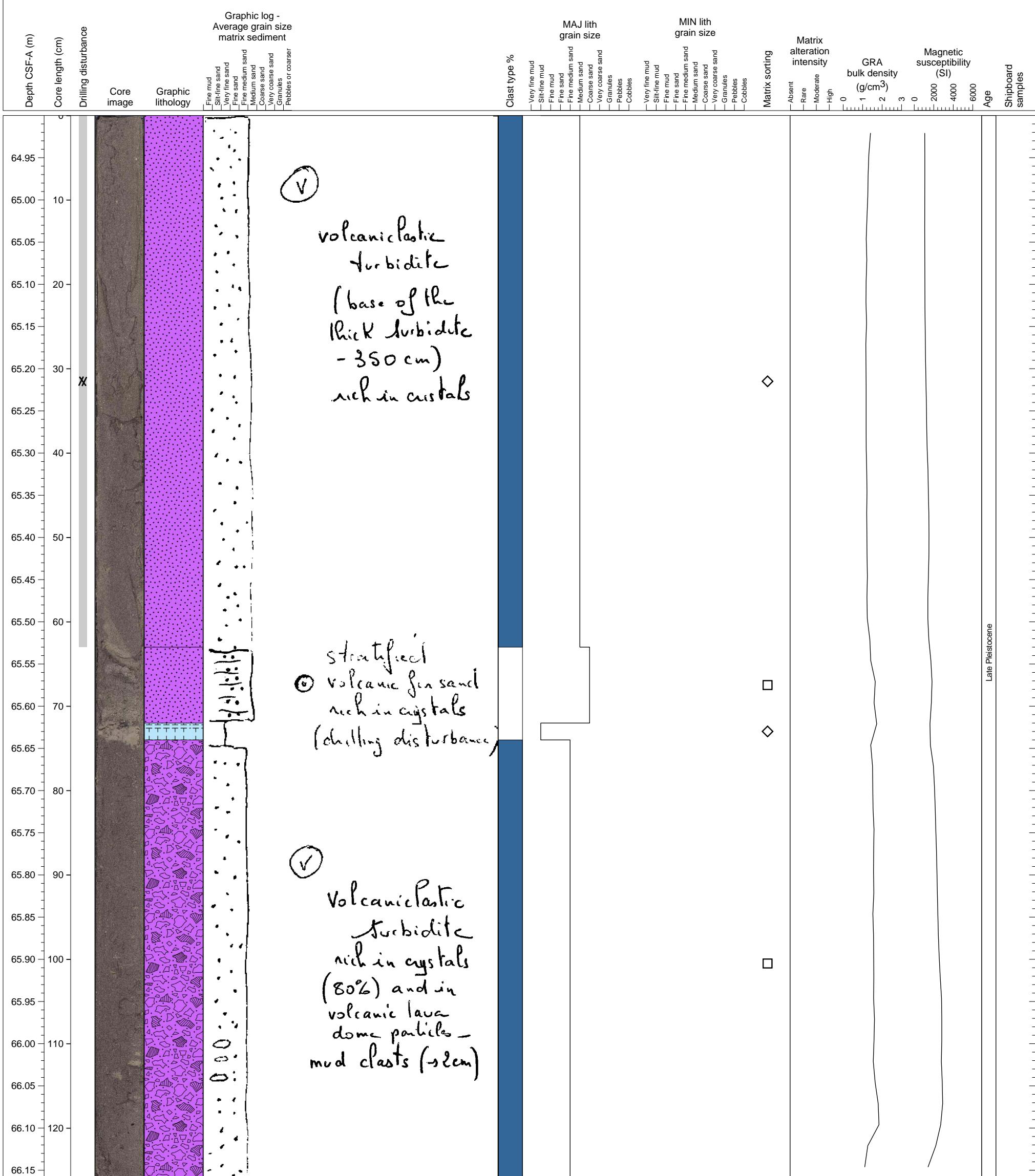
Volcaniclastic sand rich in crystals (feldspar, amphibole). Slight drilling disturbance due to draining of water.



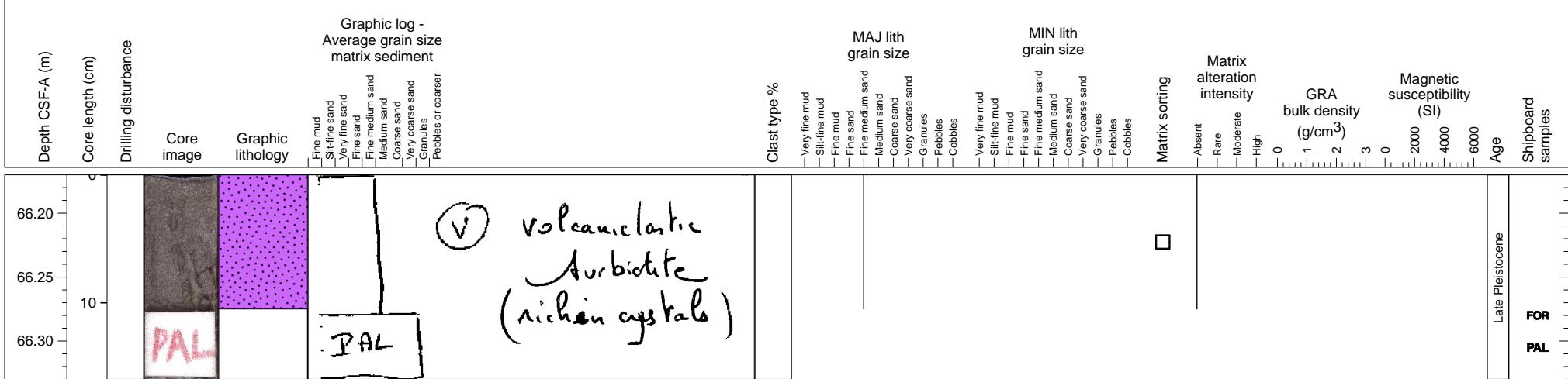
Volcaniclastic sand rich in crystals. Saturated with water. Slight to moderate disturbance due to draining of water.



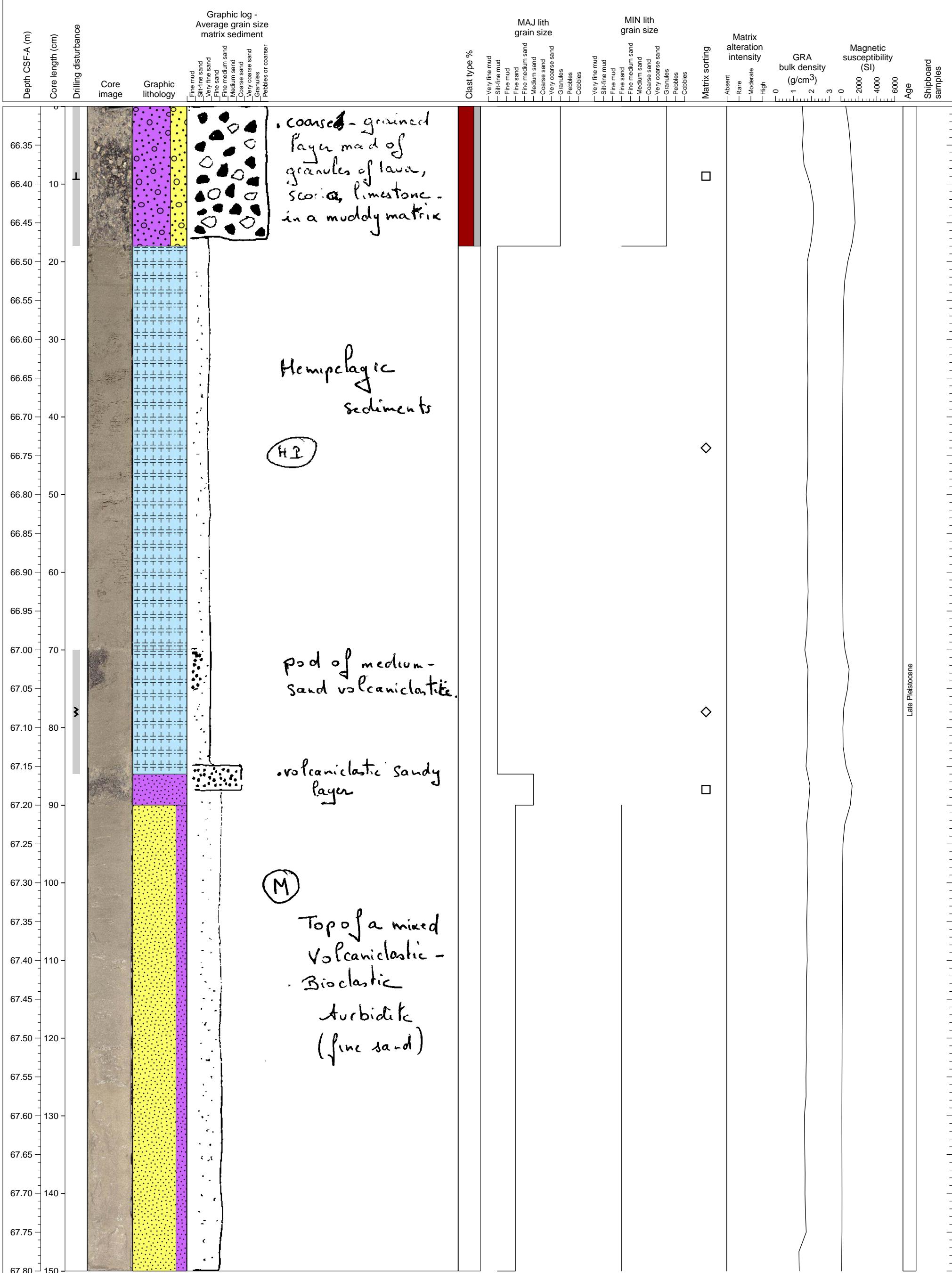
Soupy sediments; grey colored volcaniclastic turbidite sand with minor intercalation of hemipelagic sediments.



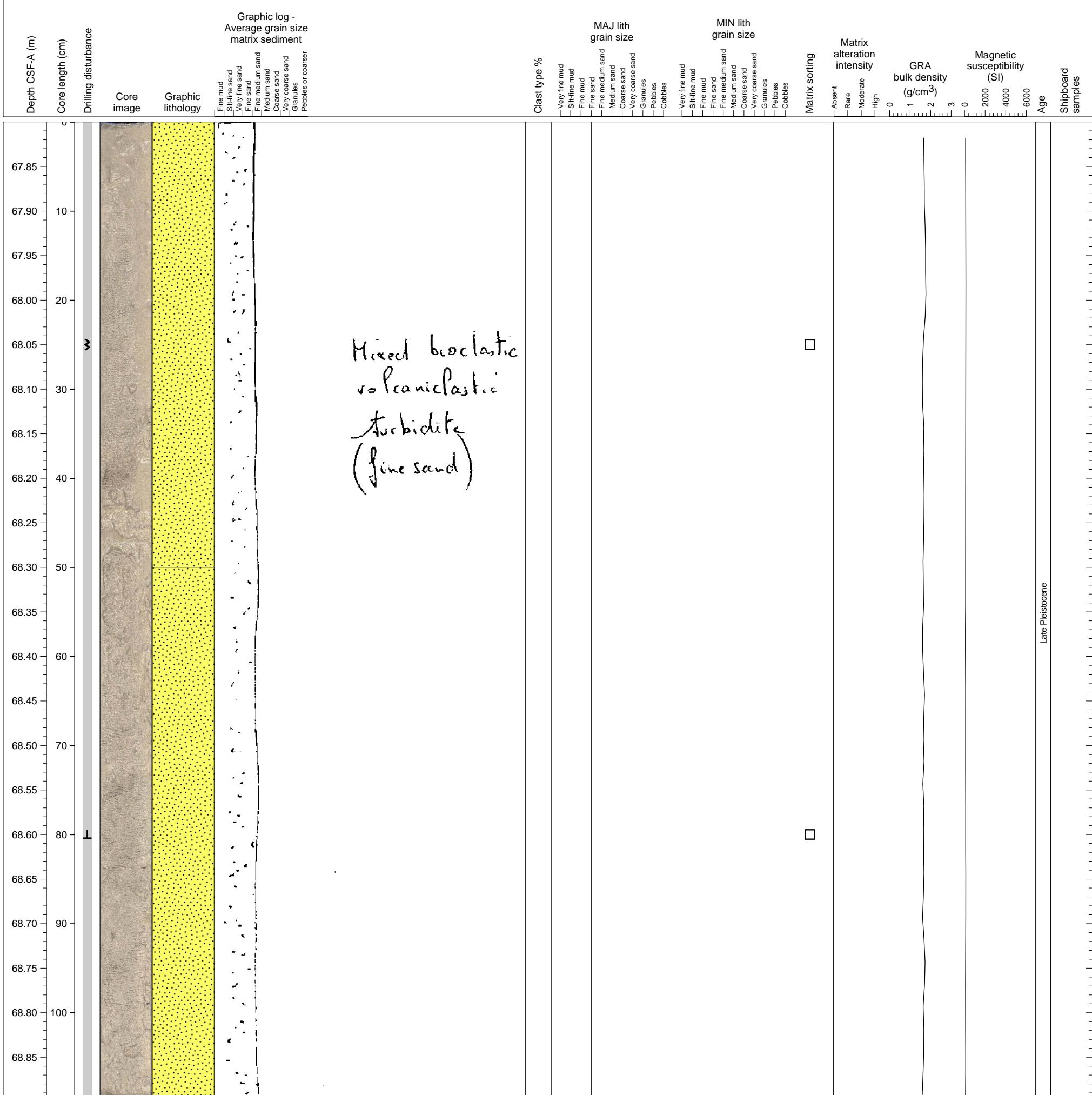
Volcaniclastic fine - medium sand.



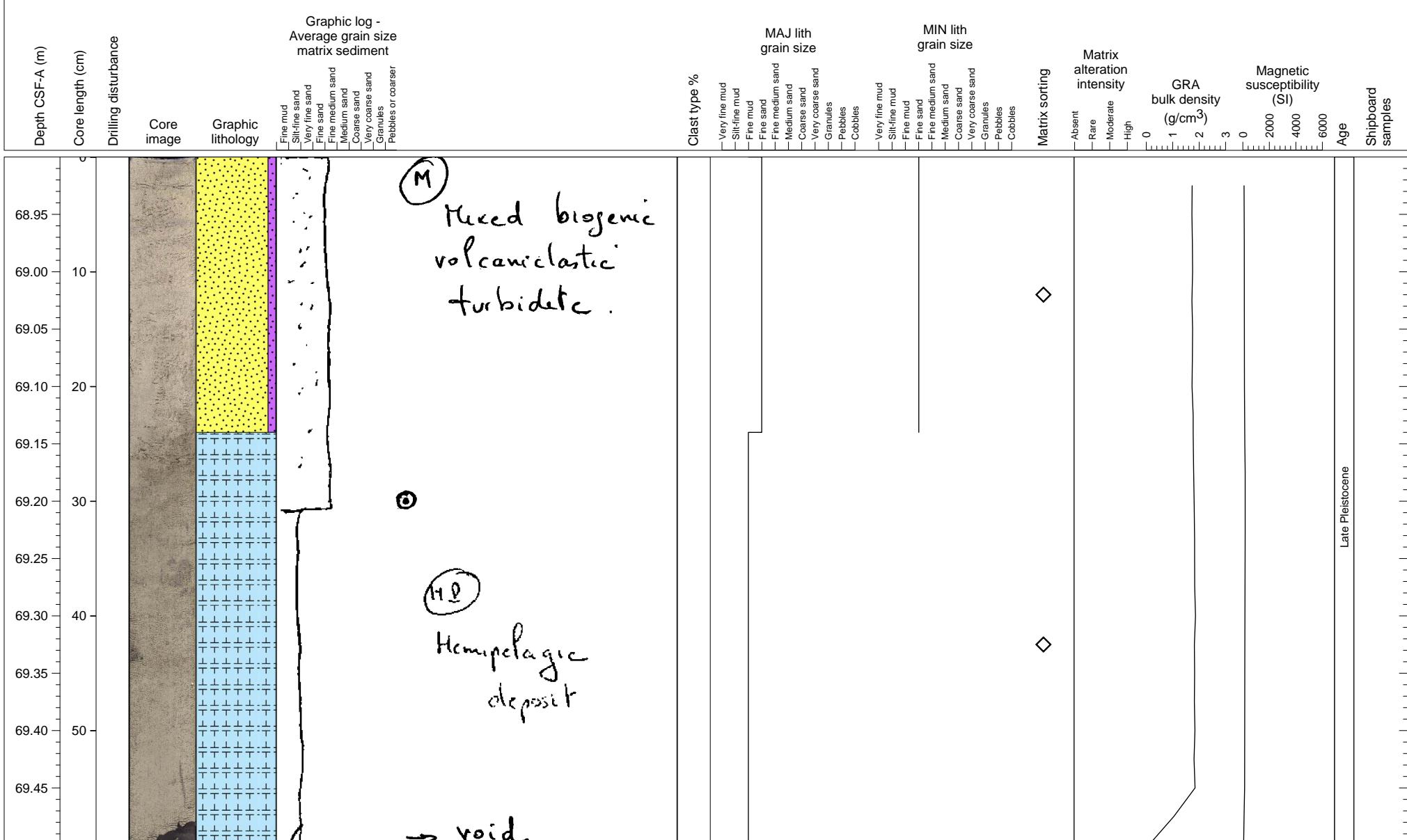
Top 18 cm could be disturbed by drilling as with 10 and 9H 1-A cores. Hemipelagic sediments with bioclastic/volcaniclastic mixture turbidites.



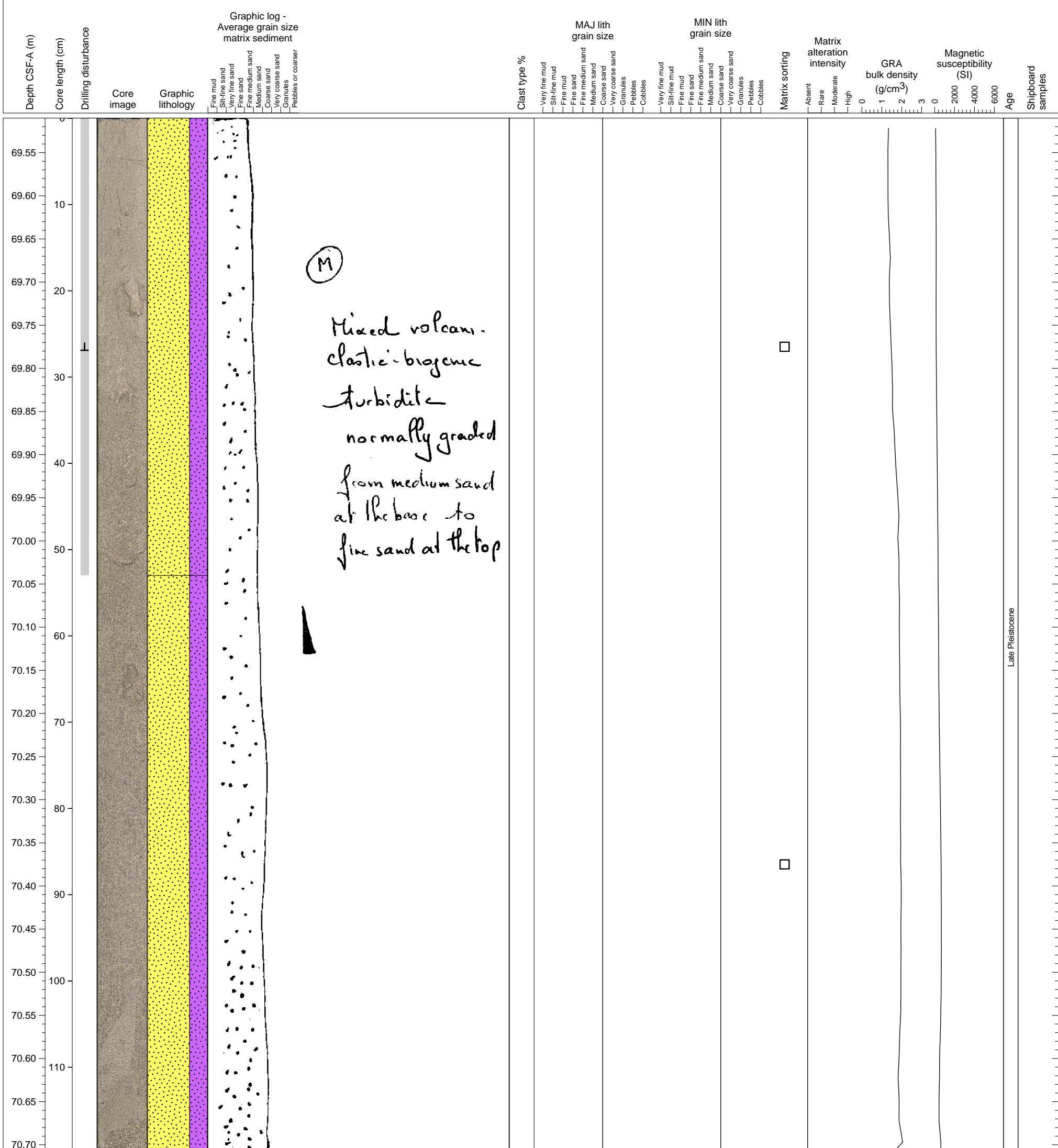
Bioclastic turbidite. Fine sand. Massive.



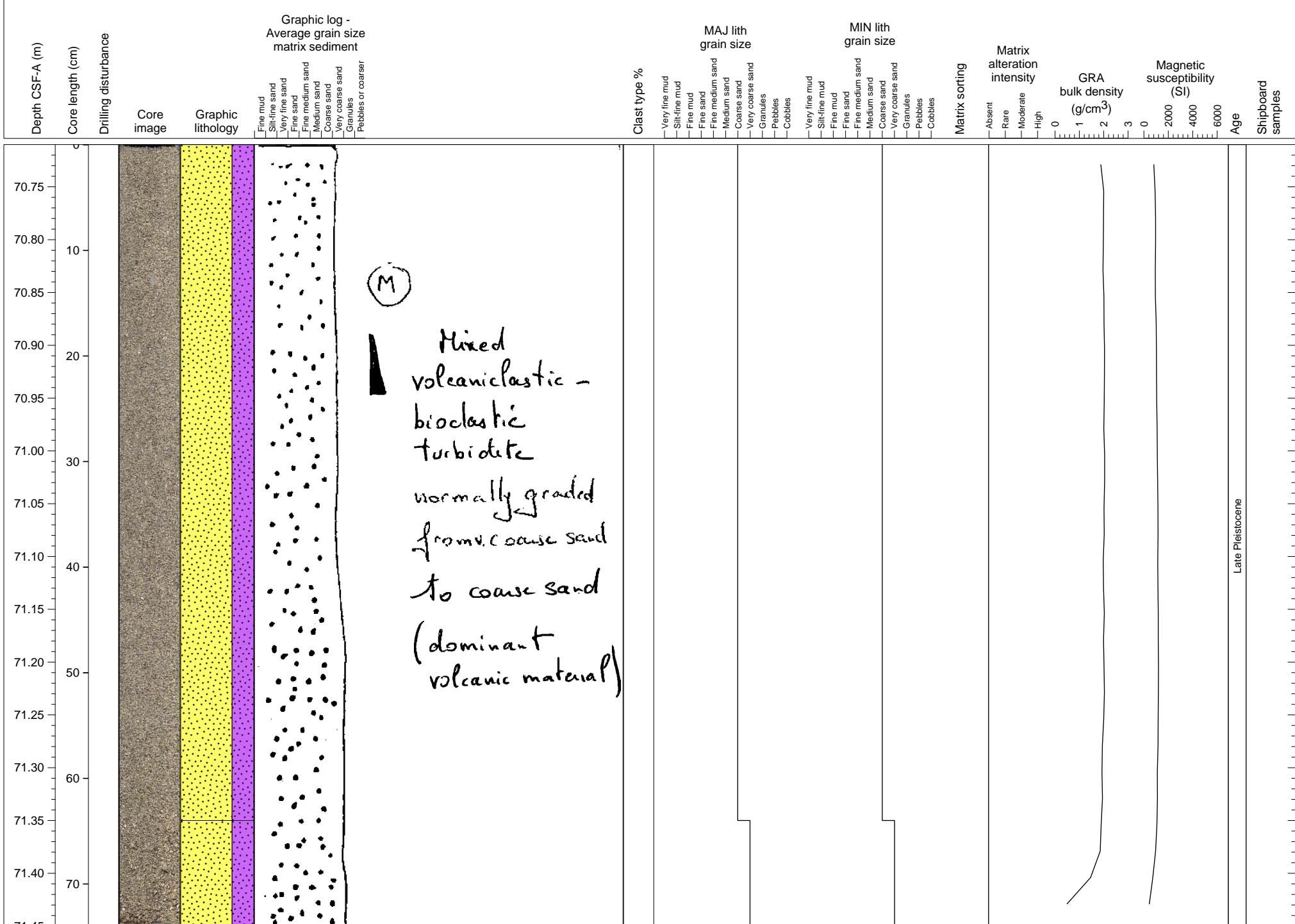
Upper half: bioclastic dominant turbidite facies; lower half: hemipelagic sediments.



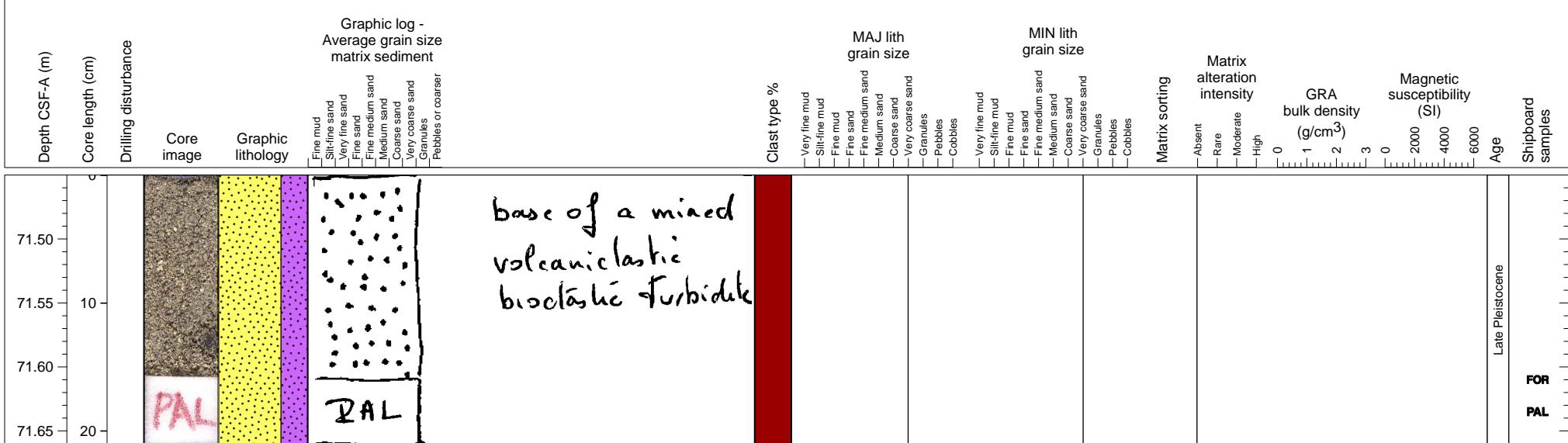
Mixed bioclasticiclastic turbidite. well sorted, massive.



Normally graded bioclastic (dominant) + volcaniclastic turbidite.

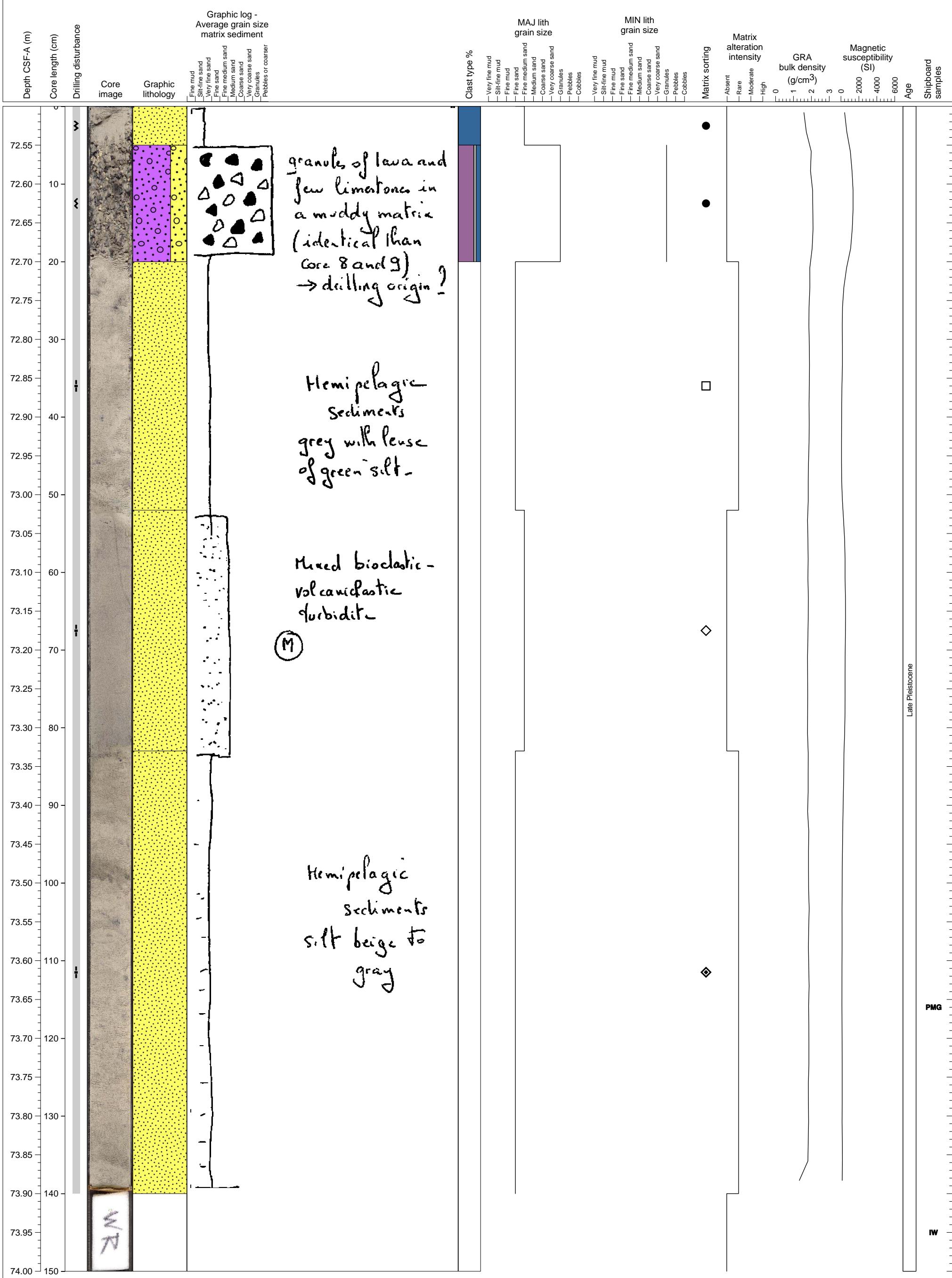


Mixed bioclastic-volcaniclastic turbidite. Base of deposit.

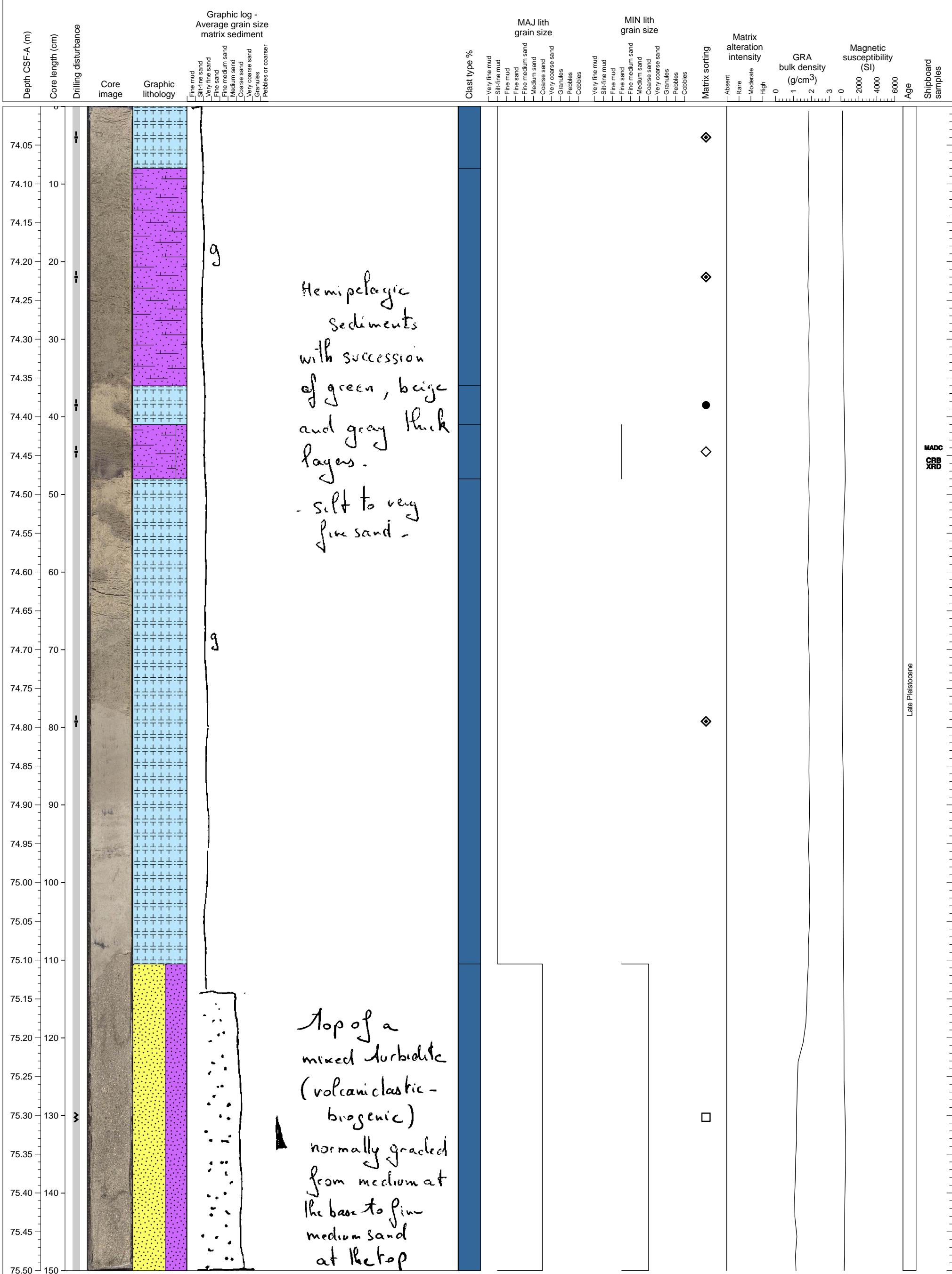


Hole 340-U1394B-10H Section 1, Top of Section: 72.5 CSF-A (m)

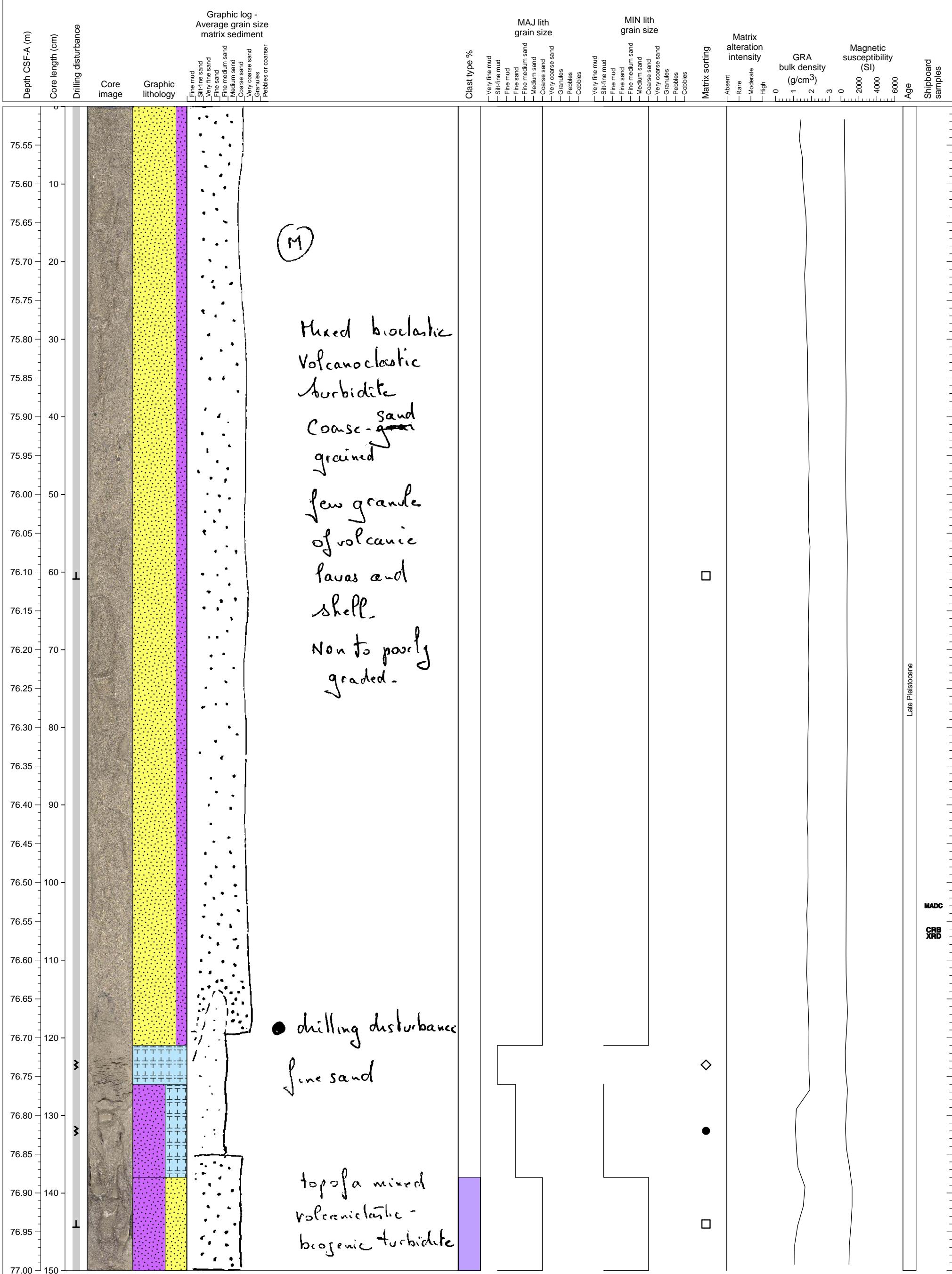
Section with volcaniclastic gravel at top part, mainly light gray colored moderately sorted calcareous sand.



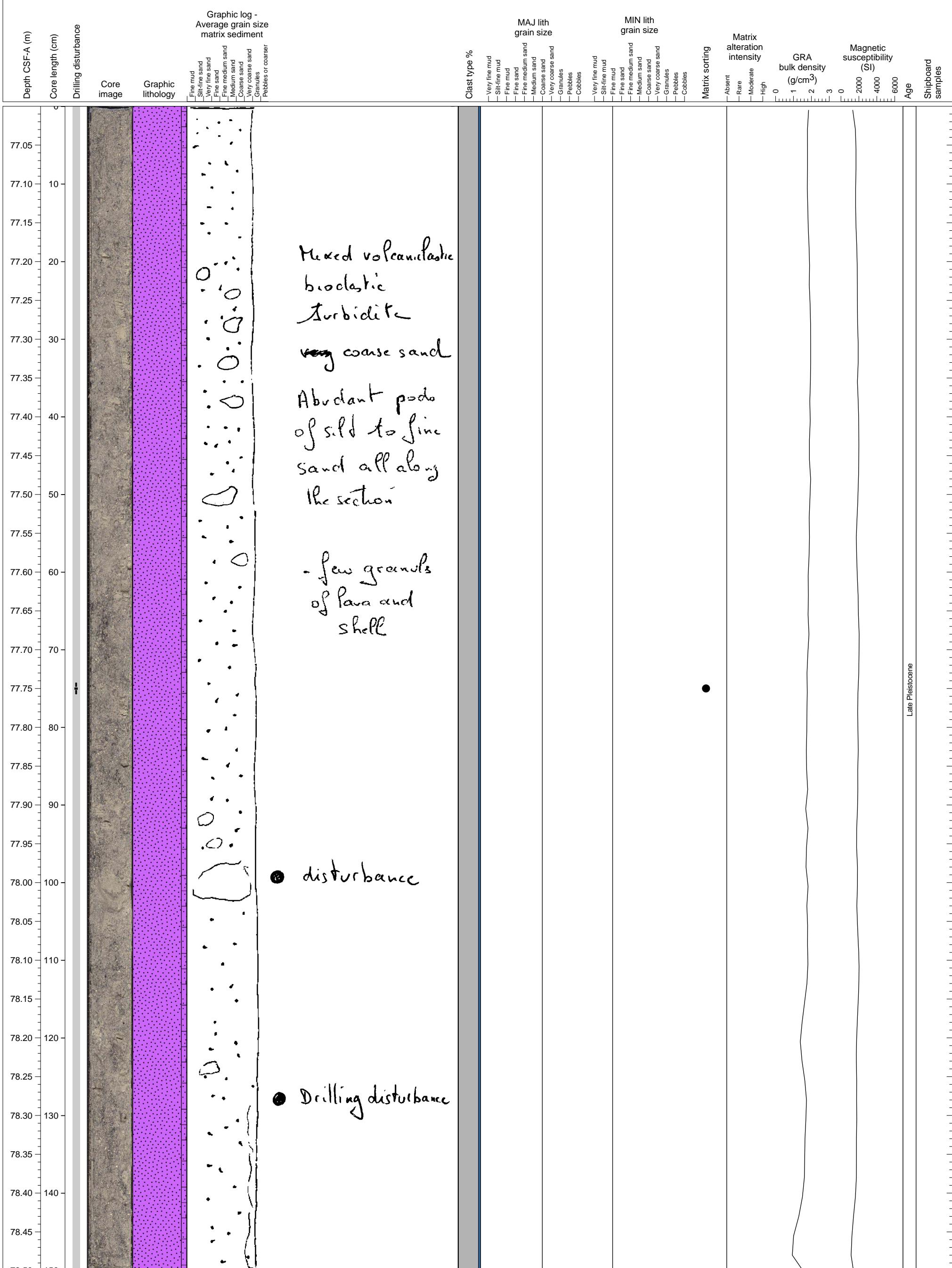
Mixed volcaniclastic/bioclastic sand overlain by alternating layers of hemipelagic clay and fine grained volcaniclastic material.



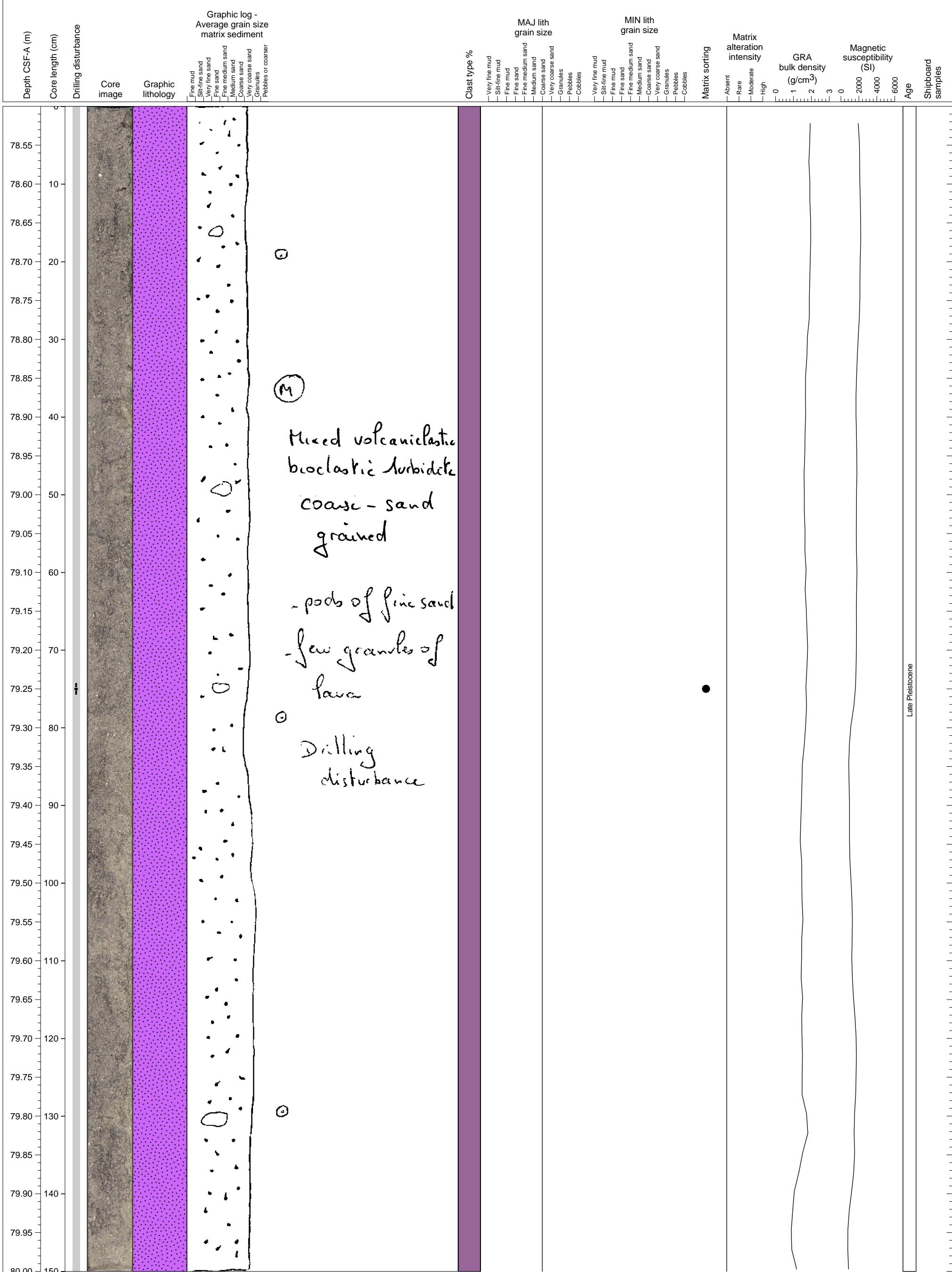
Mixture of bioclastic/volcaniclastic sand with small intercalation of hemipelagic mud.



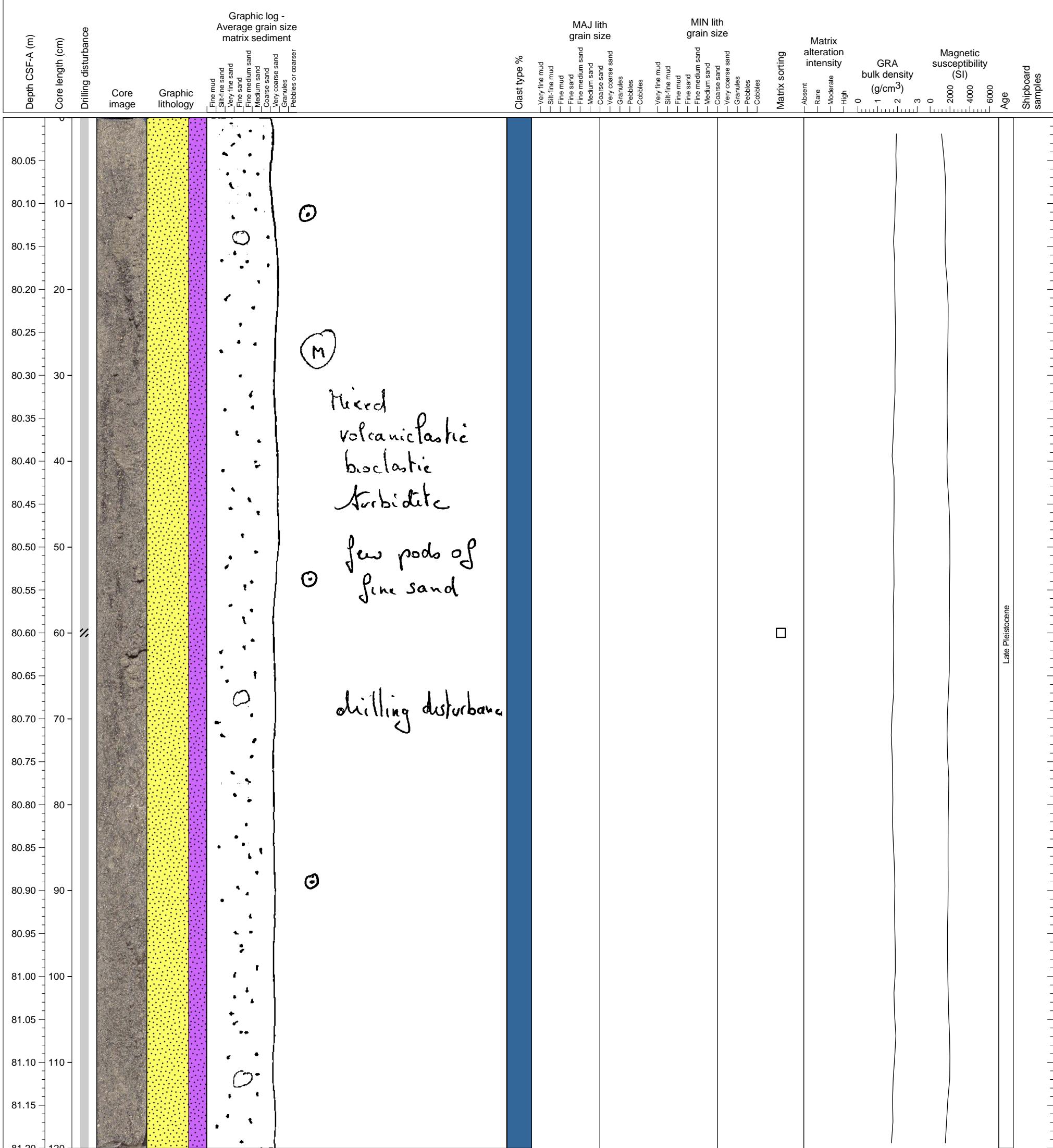
Generally coarse sand with occasional very coarse sand, and with mud clast up to 4 cm and biogenic clasts up to 8 mm.



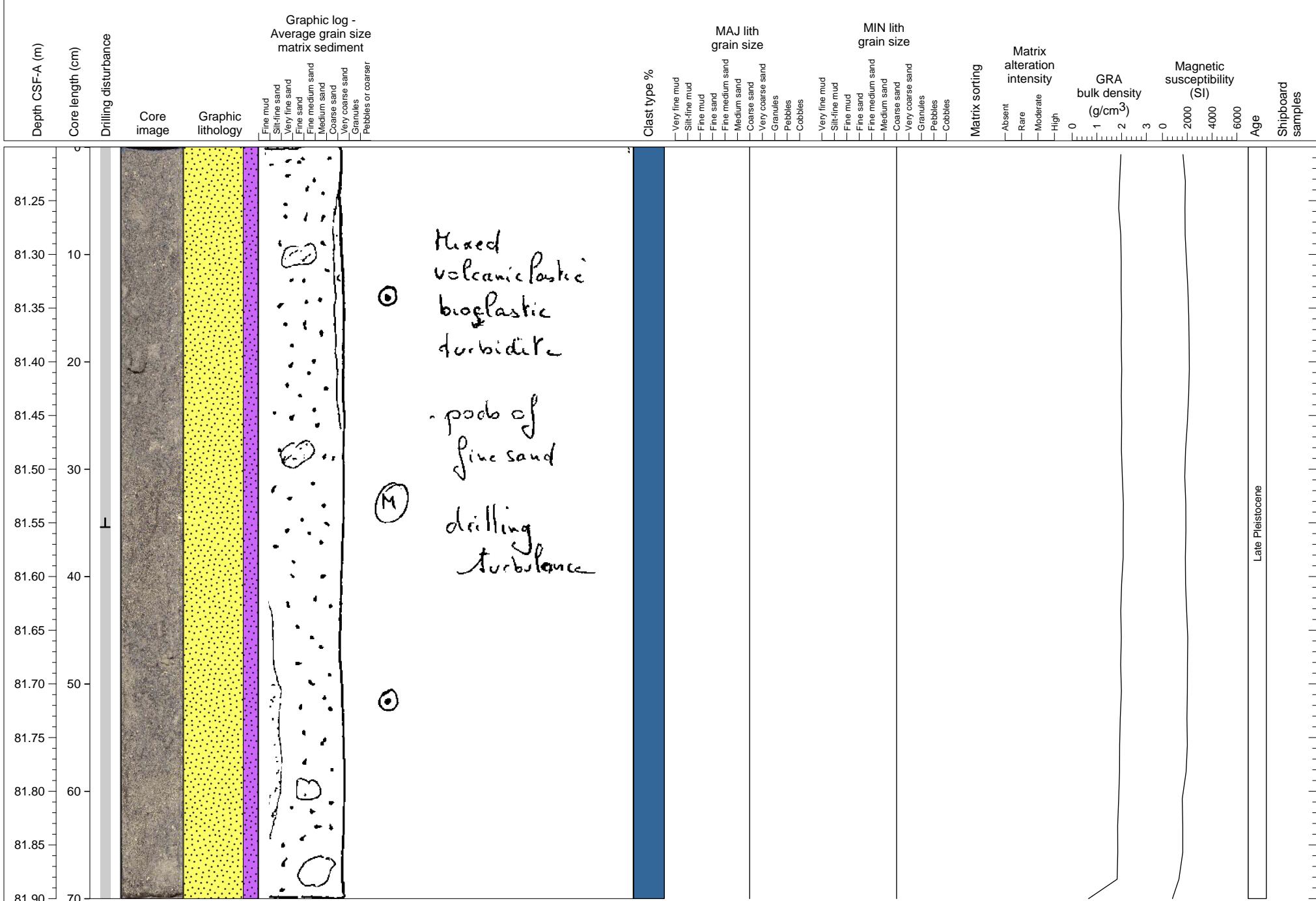
This is a homogeneous section of poorly sorted coarse sand, mainly consisting of volcanic origin. Small pebbles of hornblende andesite (10% of the interval) are distributed throughout. These andesite pebbles are monolithologic and could be essential fragments of this deposit (debris avalanche?).



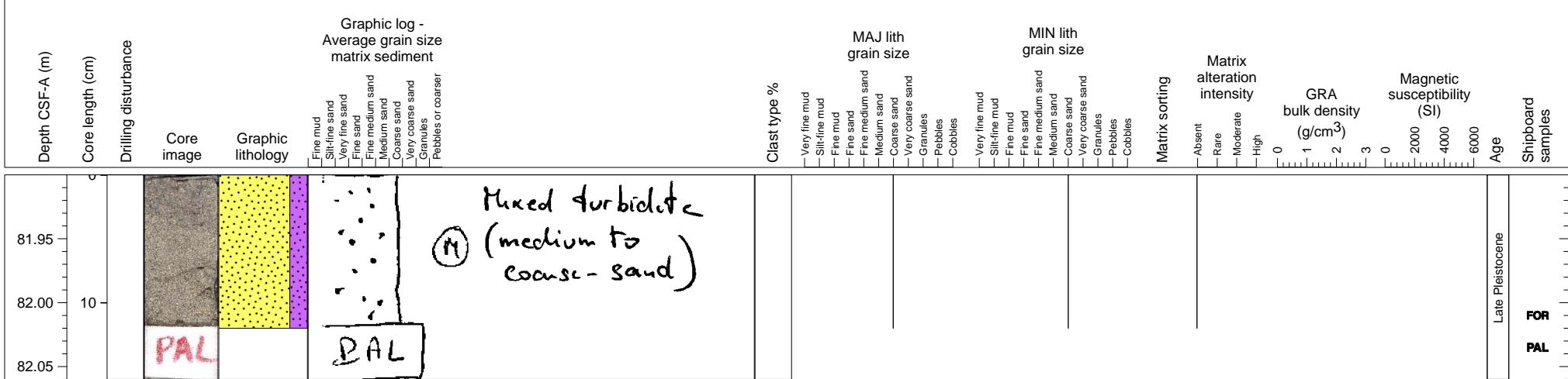
Mixed bioclastic/volcaniclastic turbidite sand. Well sorted, massive.



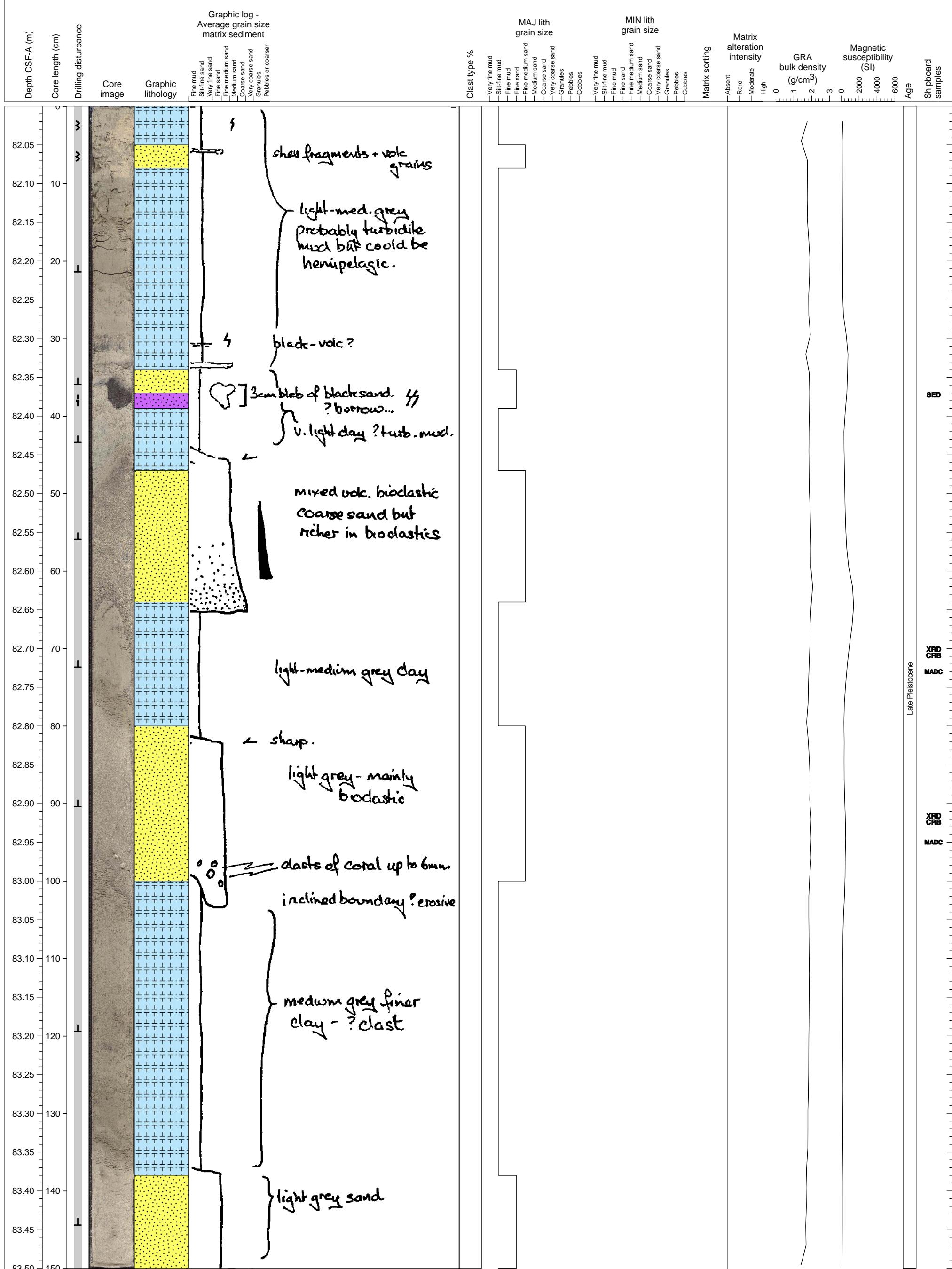
Mixed bio/volcaniclastic sand; fine sand clasts included.



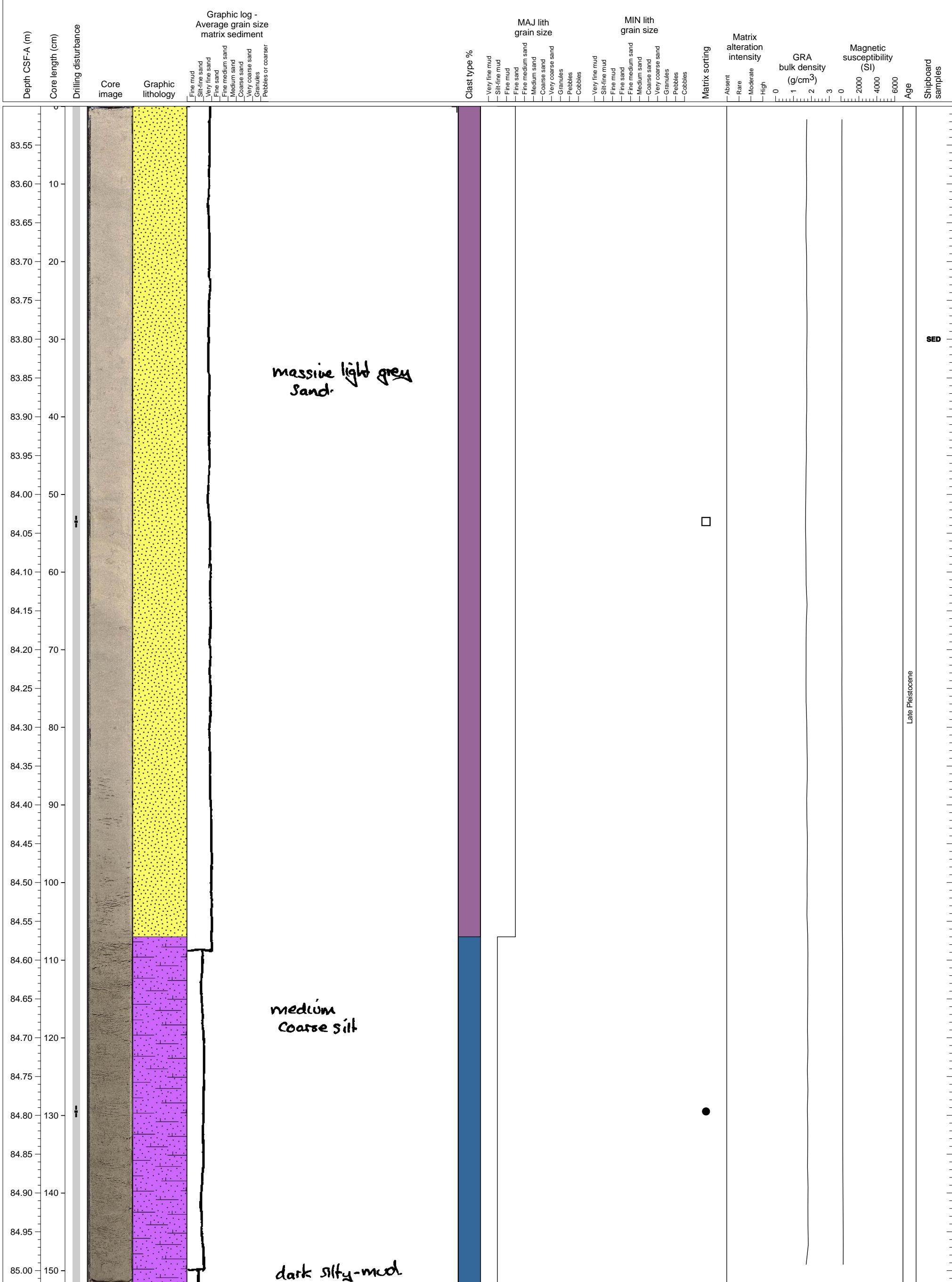
Mixed bioclastic-volcaniclastic turbidite sand, well sorted, massive.



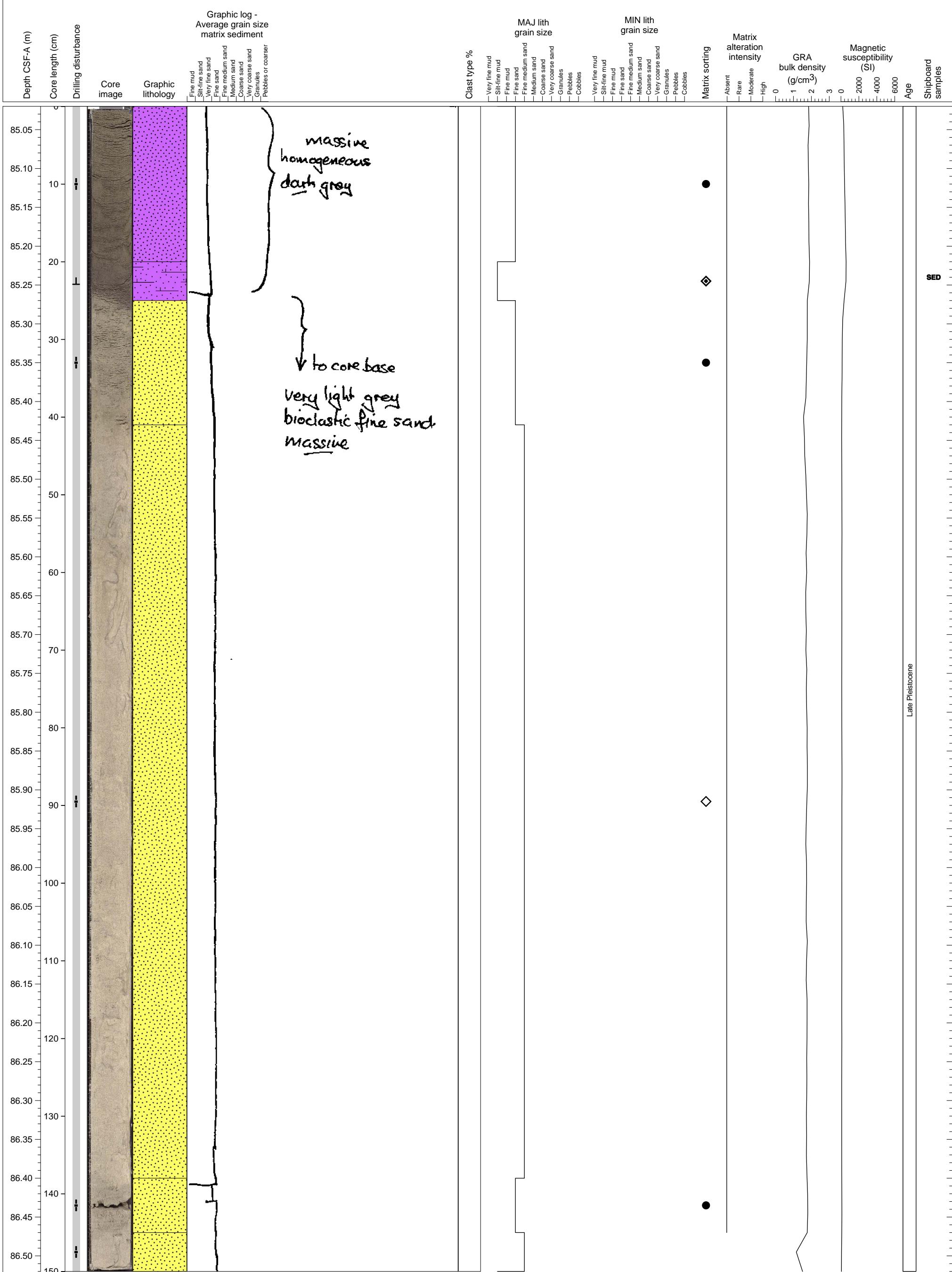
This section consists of five cycles of turbidite grading upward from fine-medium sand to silt-fine mud. These are background calcareous sand and ooze. In the upper part between 37-39 cm, ash layer (volcanic sand) sits sandwiched between turbidites. This ash layer consists of fresh mafic mineral (hornblende or pyroxene) and plagioclase. It also contains sulfide grains.



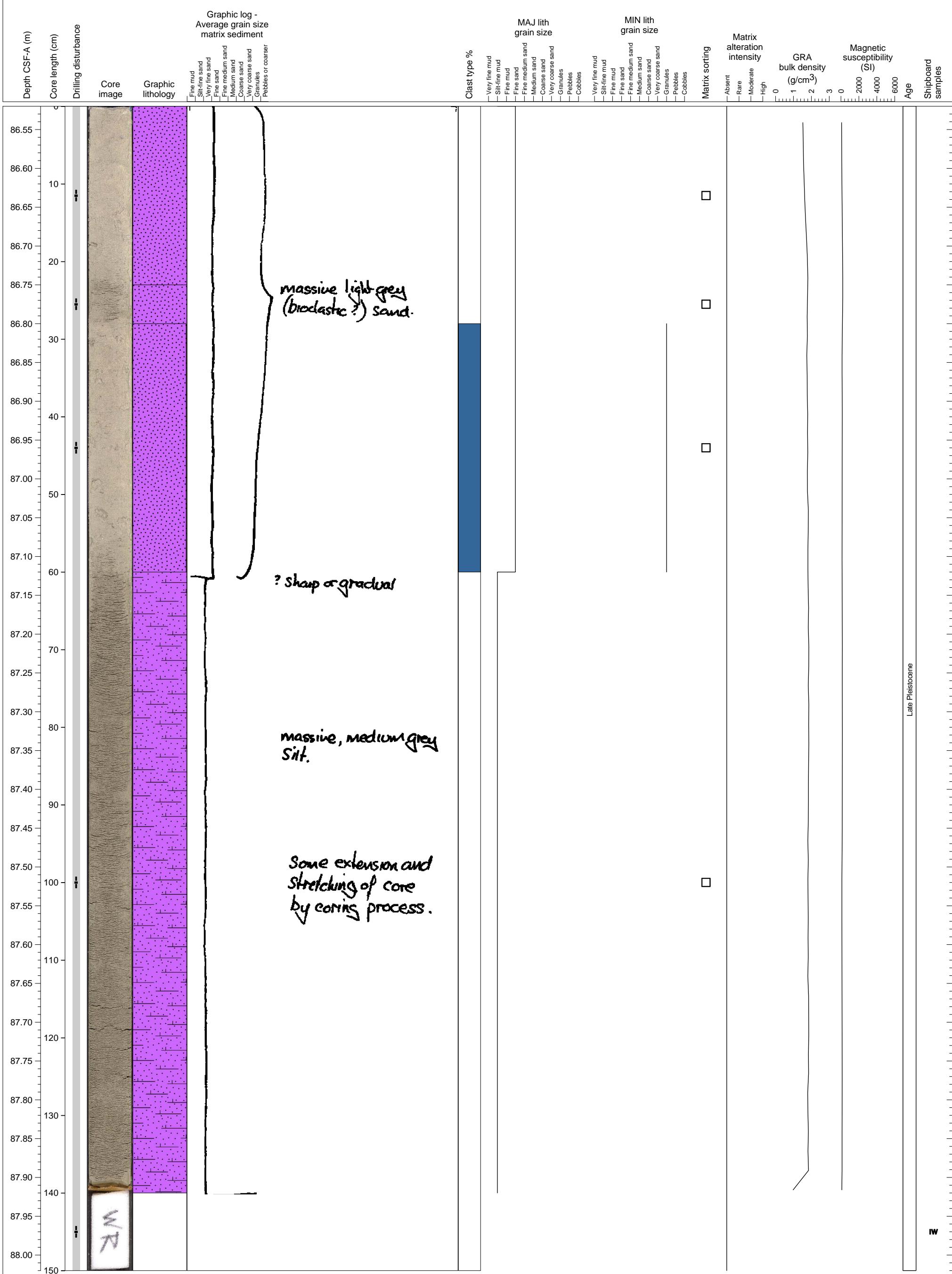
Massive fine-grained bioclastic sand overlying volcanioclastic mud - turbidite sequence.



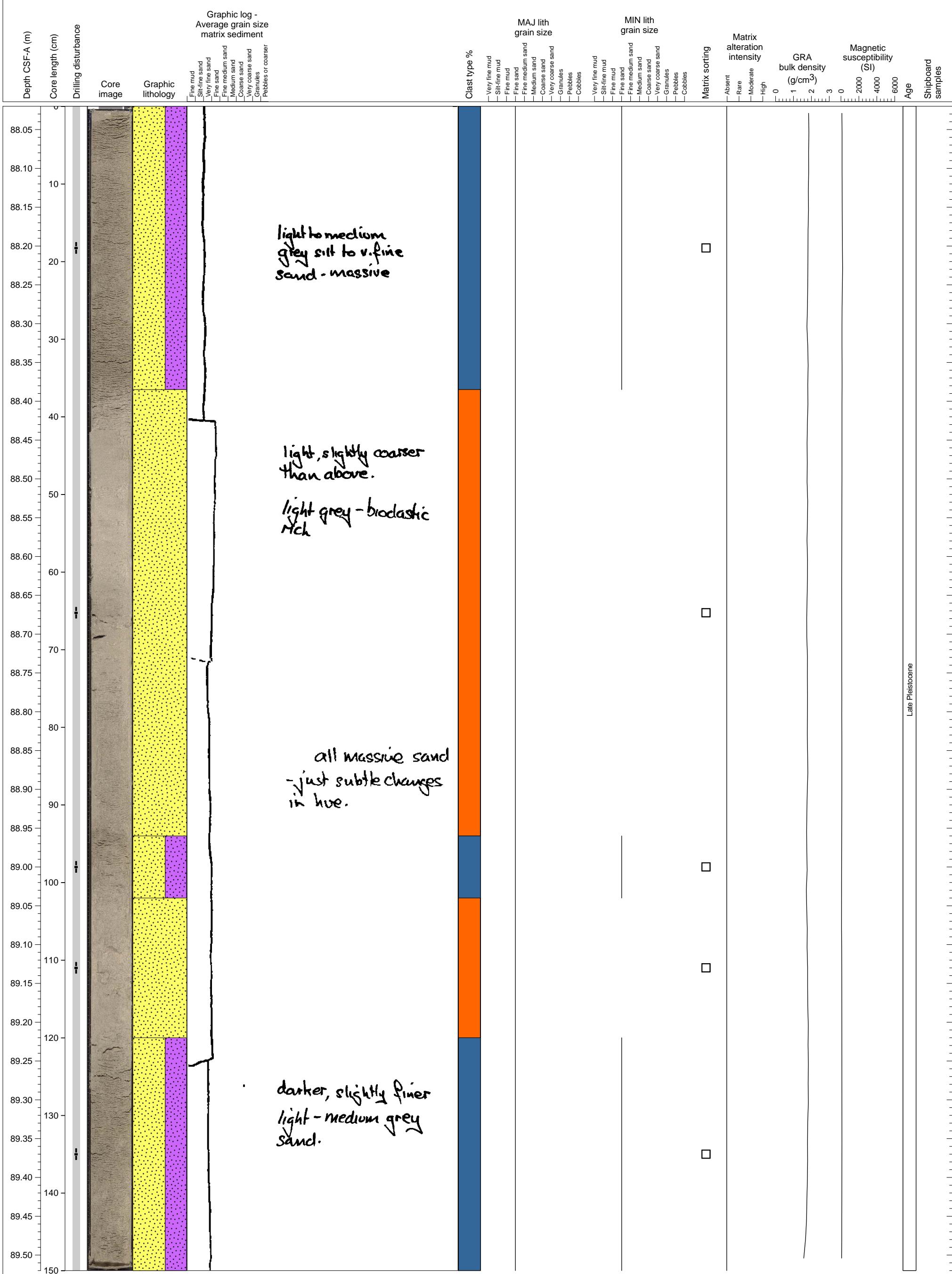
The upper part (0-25 cm) is volcaniclastic sand/mud (possibly ash), and lower part is calcareous sand without biogenic clasts.



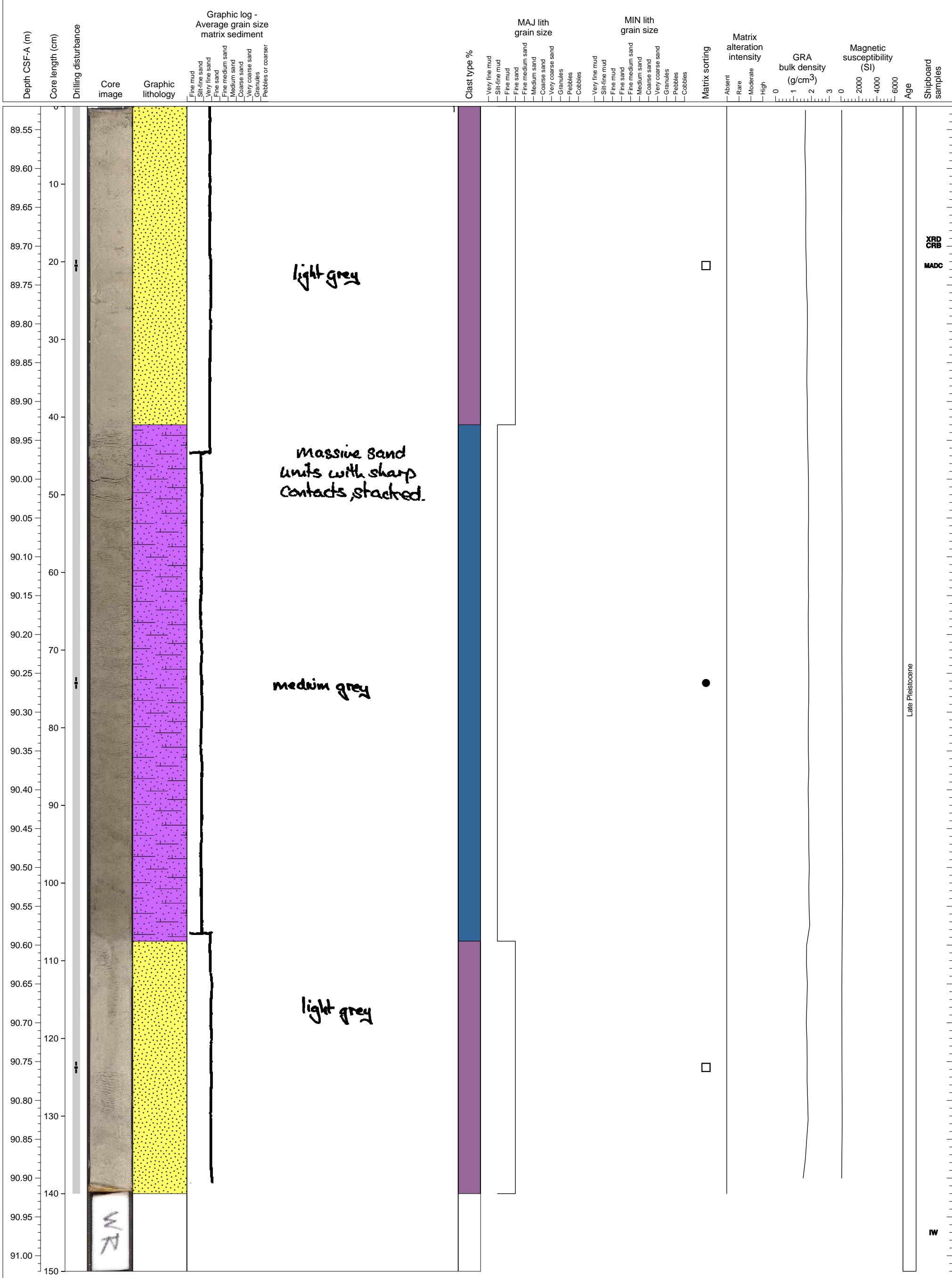
The upper 60 cm is a fine volcanioclastic sand with quite a few biogenic clasts up to granule size. The lower part is a silty-muddy volcanioclastic sand.



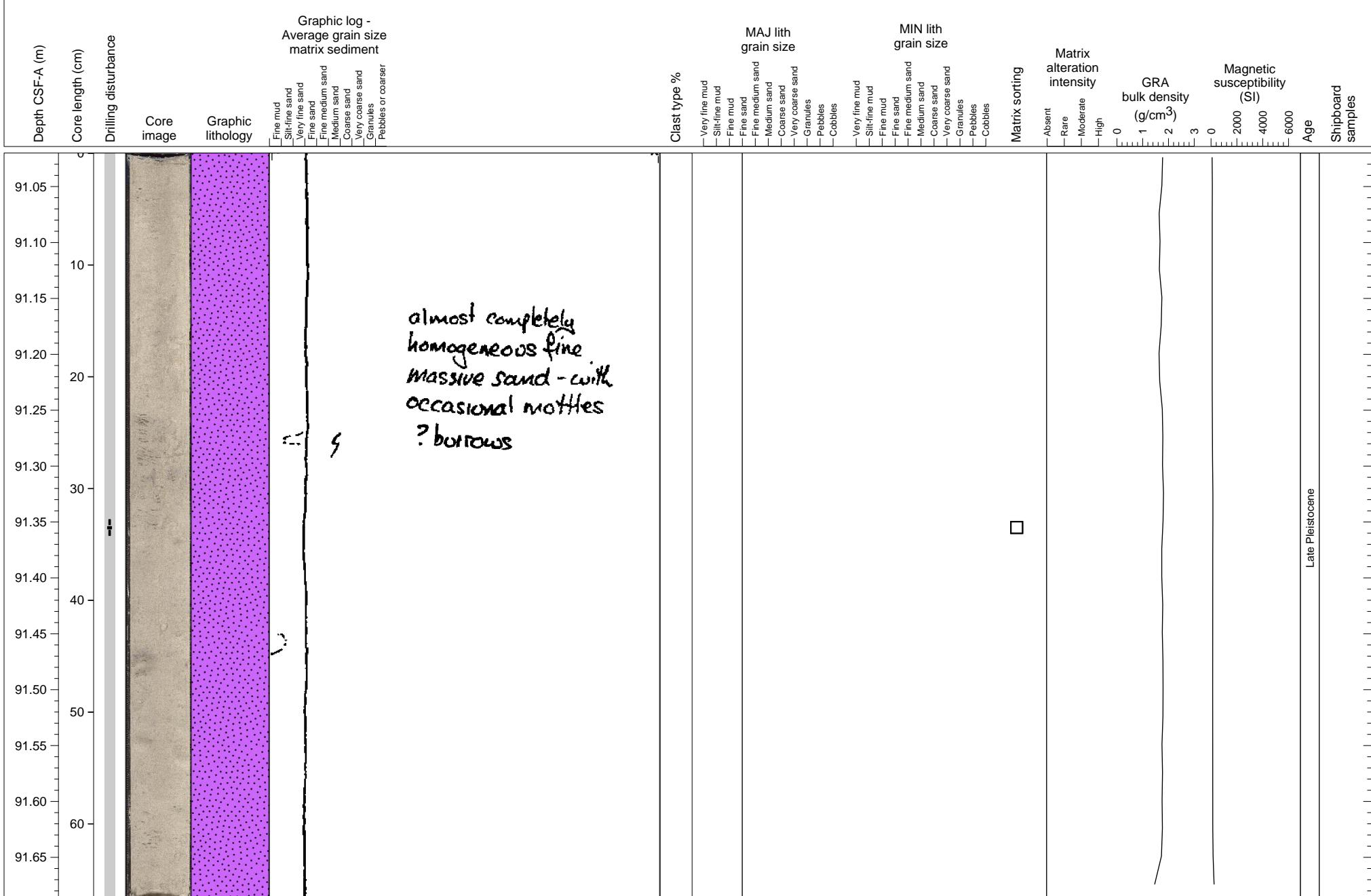
Bioclastic/volcaniclastic sand mixture interlayered with bioclastic sand.



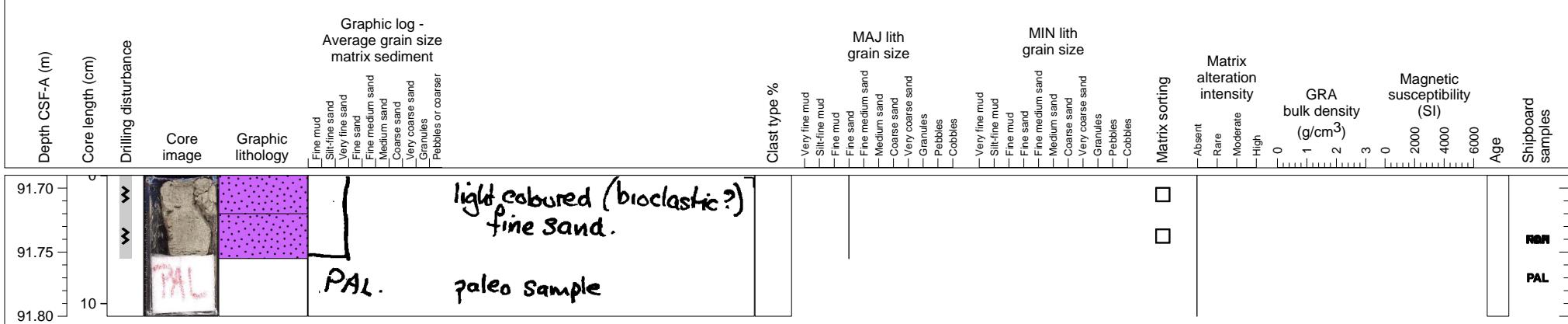
Interlayered bioclastic fine-grained sand with volcanioclastic mud. WR sample taken from base.



Weakly stratified light gray colored fine sand with minor biogenic fragments. There are silty-muddy patches in the lower part..

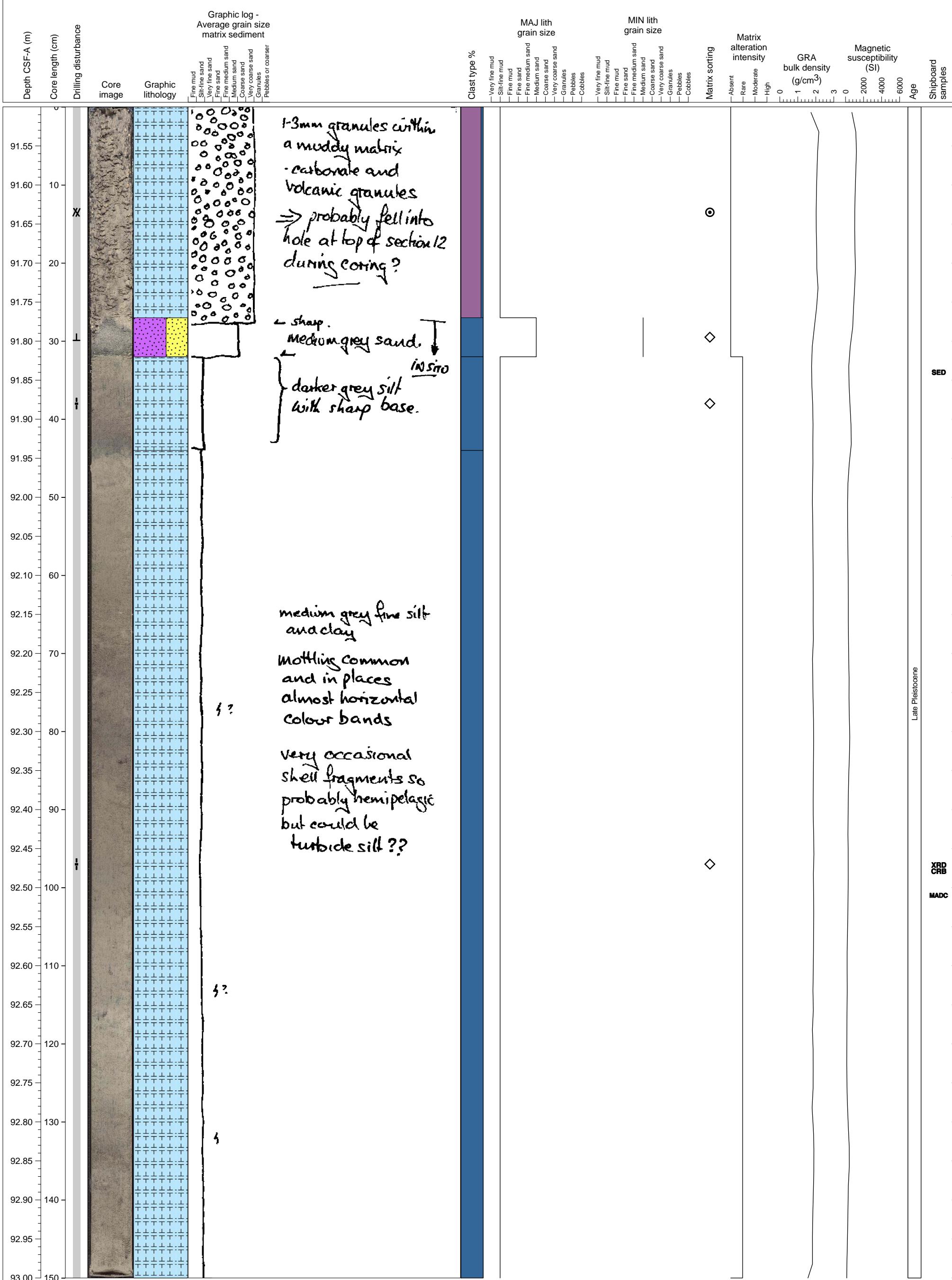


Volcaniclastic sand

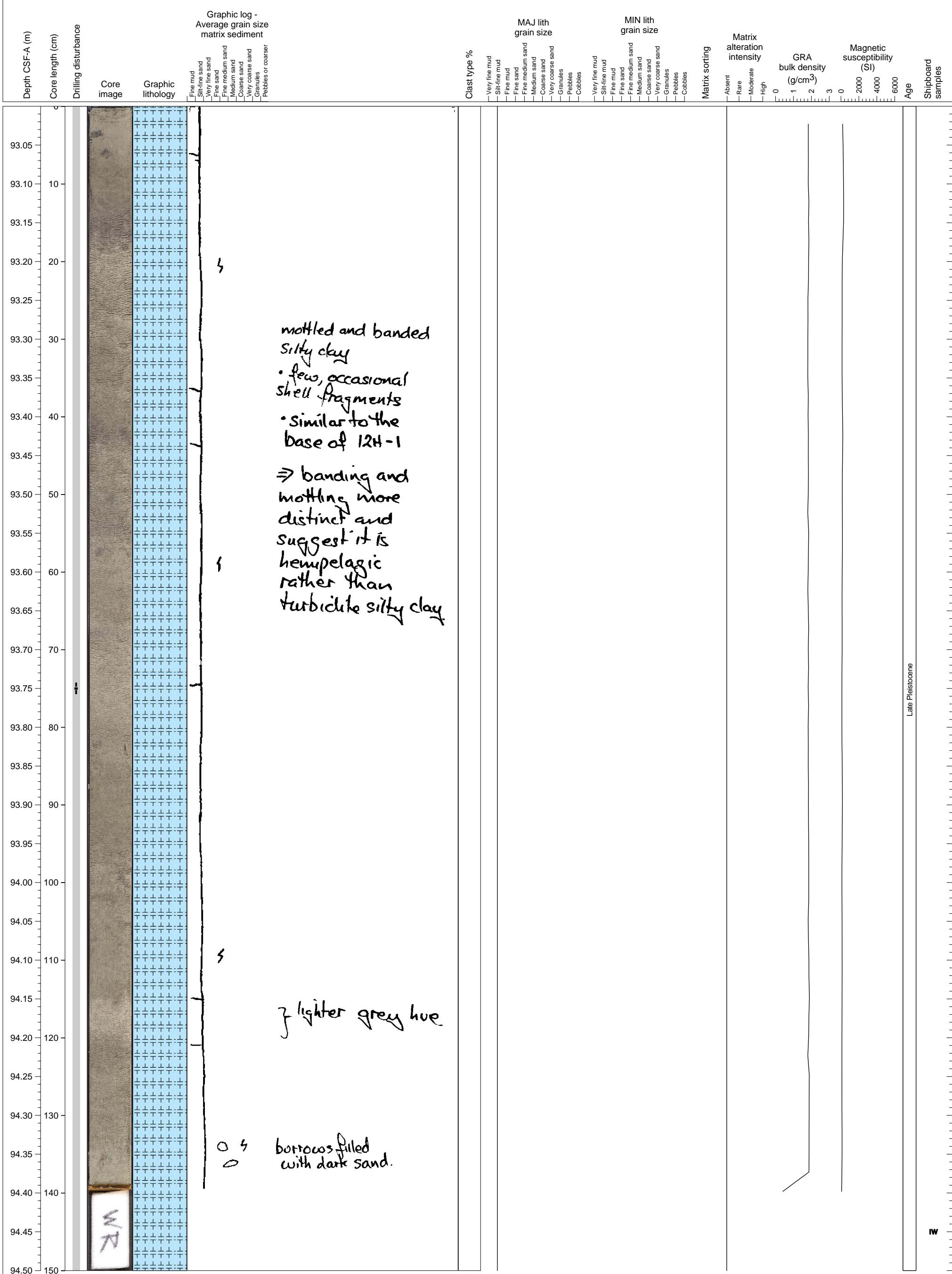


Hole 340-U1394B-12H Section 1, Top of Section: 91.5 CSF-A (m)

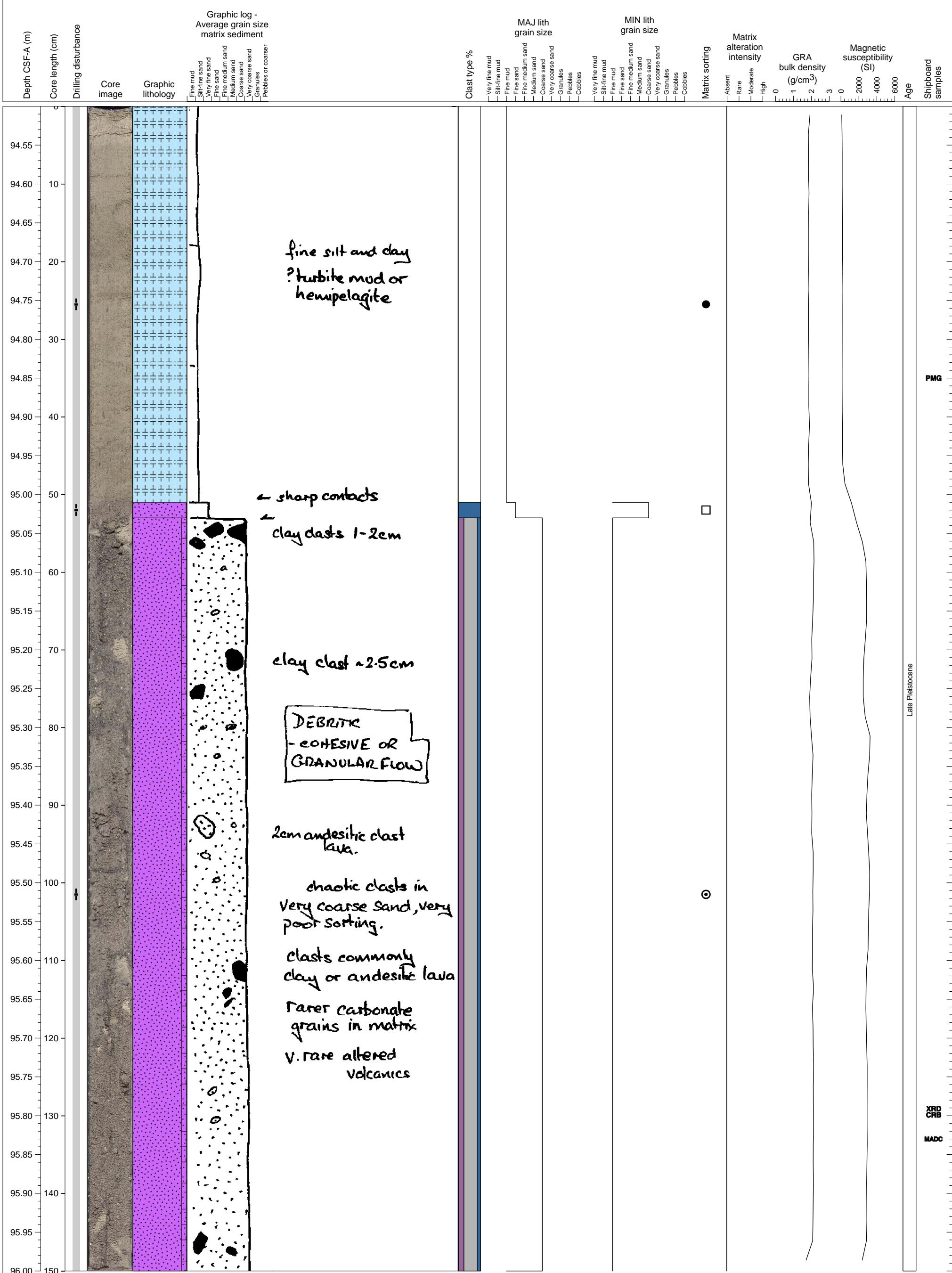
Top 27 cm could be disturbed by drilling as with 8, 9 and 11H 1-A cores. Light - dark gray colored hemipelagic carbonate ooze consists (fine silt - mud grain size) with dark greenish thin layers. Minor amount of biogenic clasts.



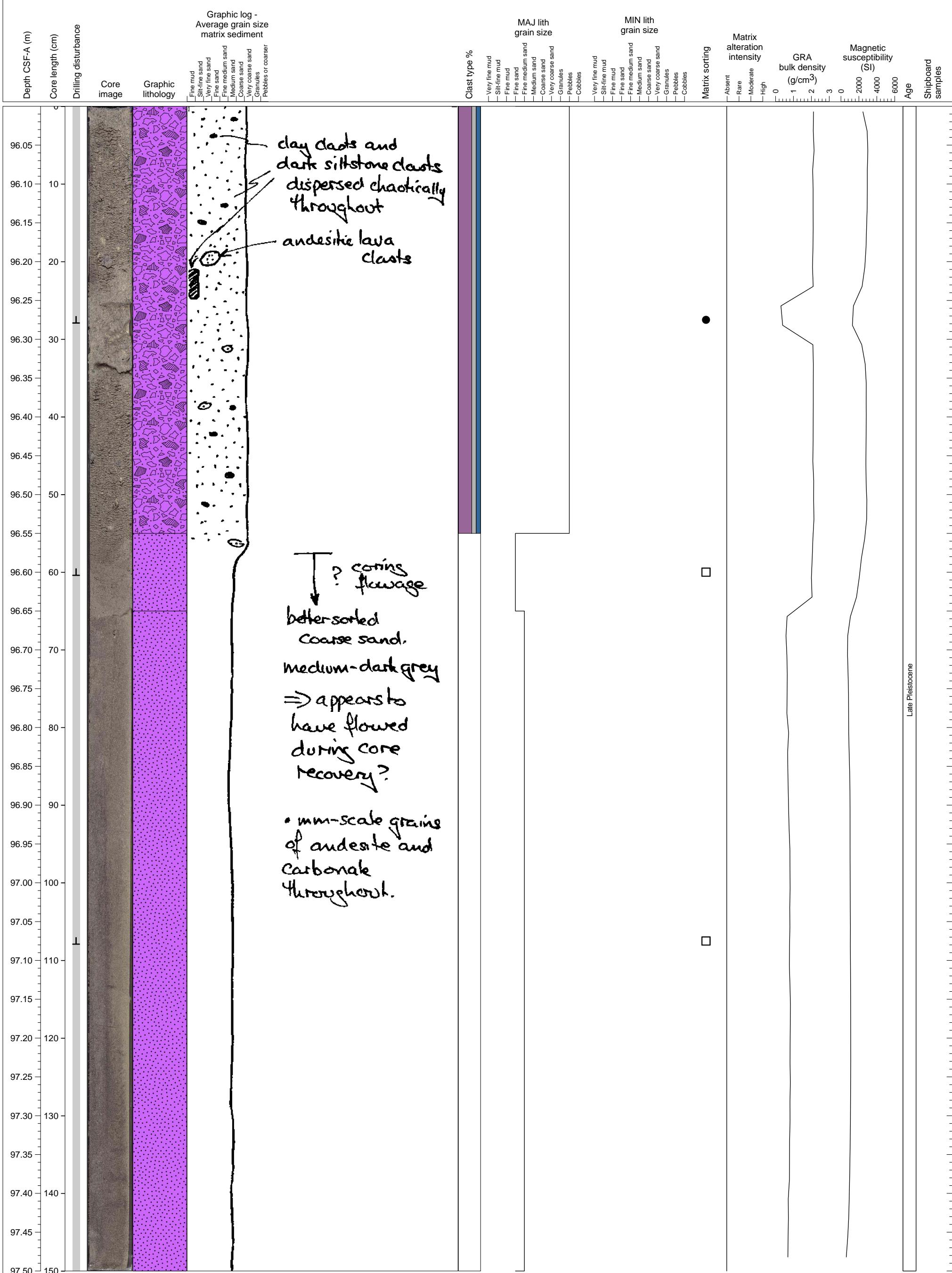
This section is hemipelagic calcareous ooze which contains shell fragments (rare).



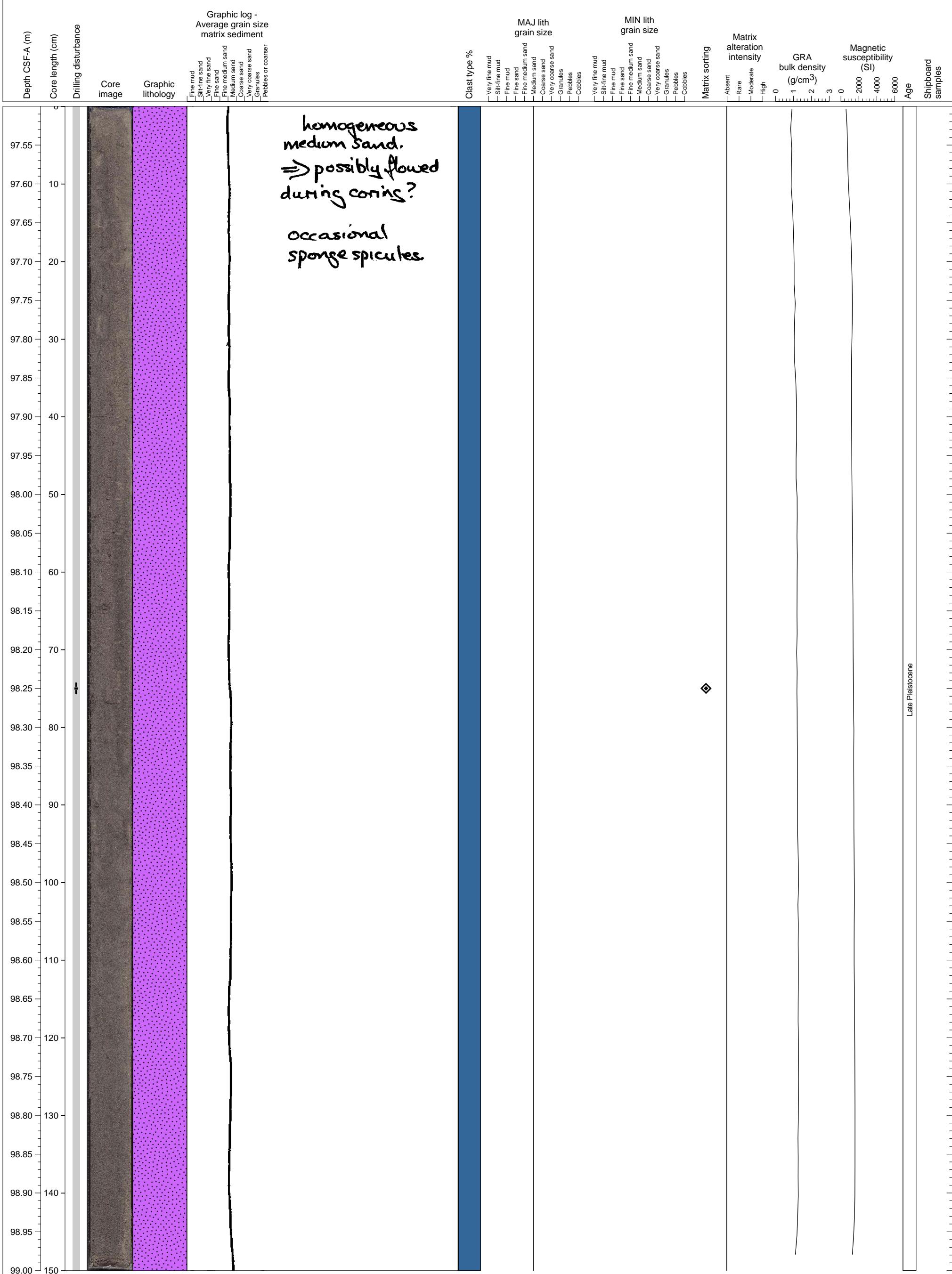
Coarse to very coarse volcanioclastic sand with mud clasts up to 3 cm, andesitic massive lava clasts, and biogenic clasts up to 4 mm. Mud clasts are composed of light grey fine mud. Biogenic fragments are also present.



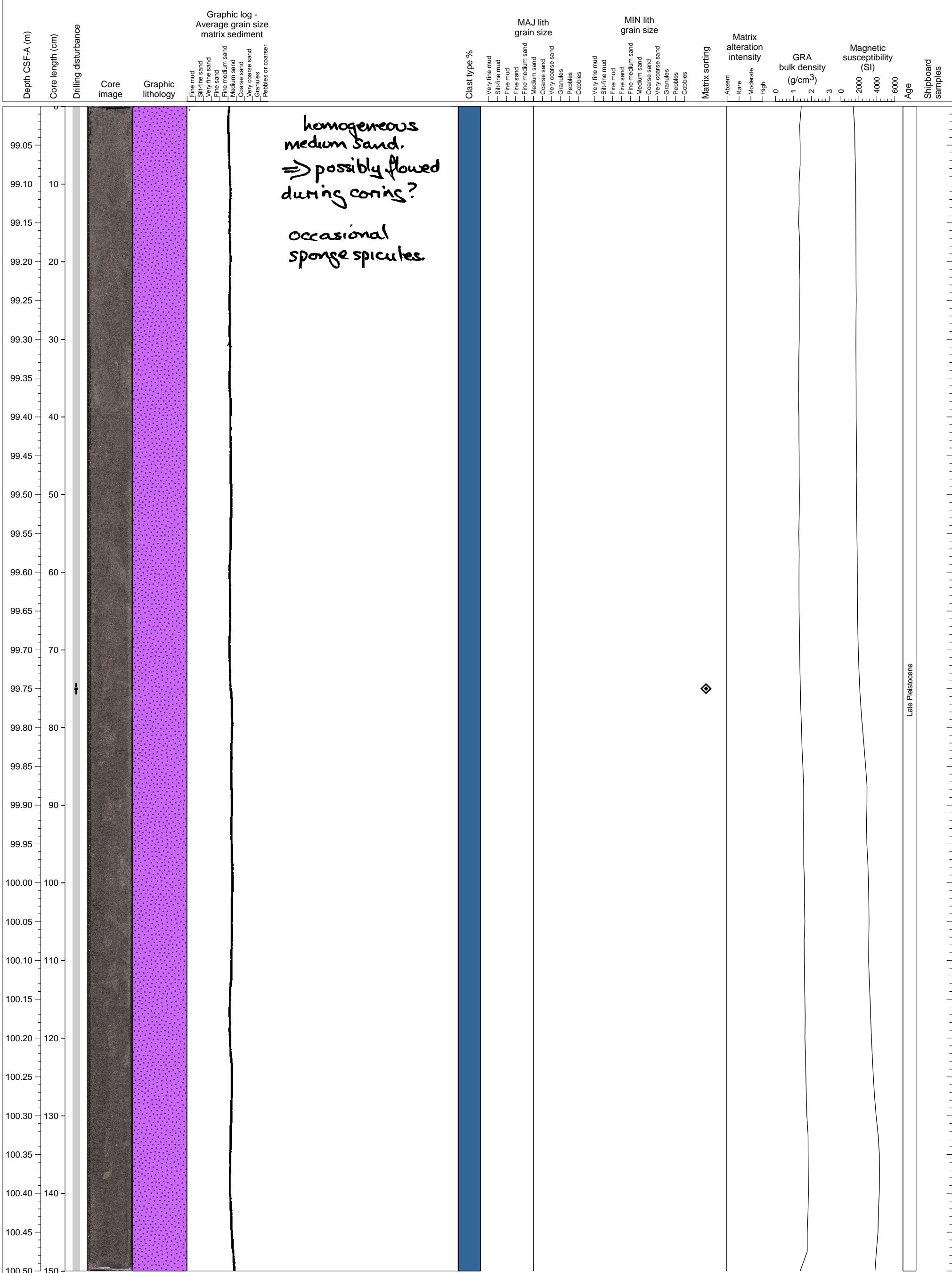
The upper part of this section is a volcanic breccia, which continues from the upper section 12H-3. However, clasts contained in this section are smaller than those of the upper section, suggesting reverse grading in terms of clasts. This volcanic breccia overlies fine volcanic sand and medium-coarse volcanic sand. Andesitic clasts in the volcanic breccia seem to be essential fragments.



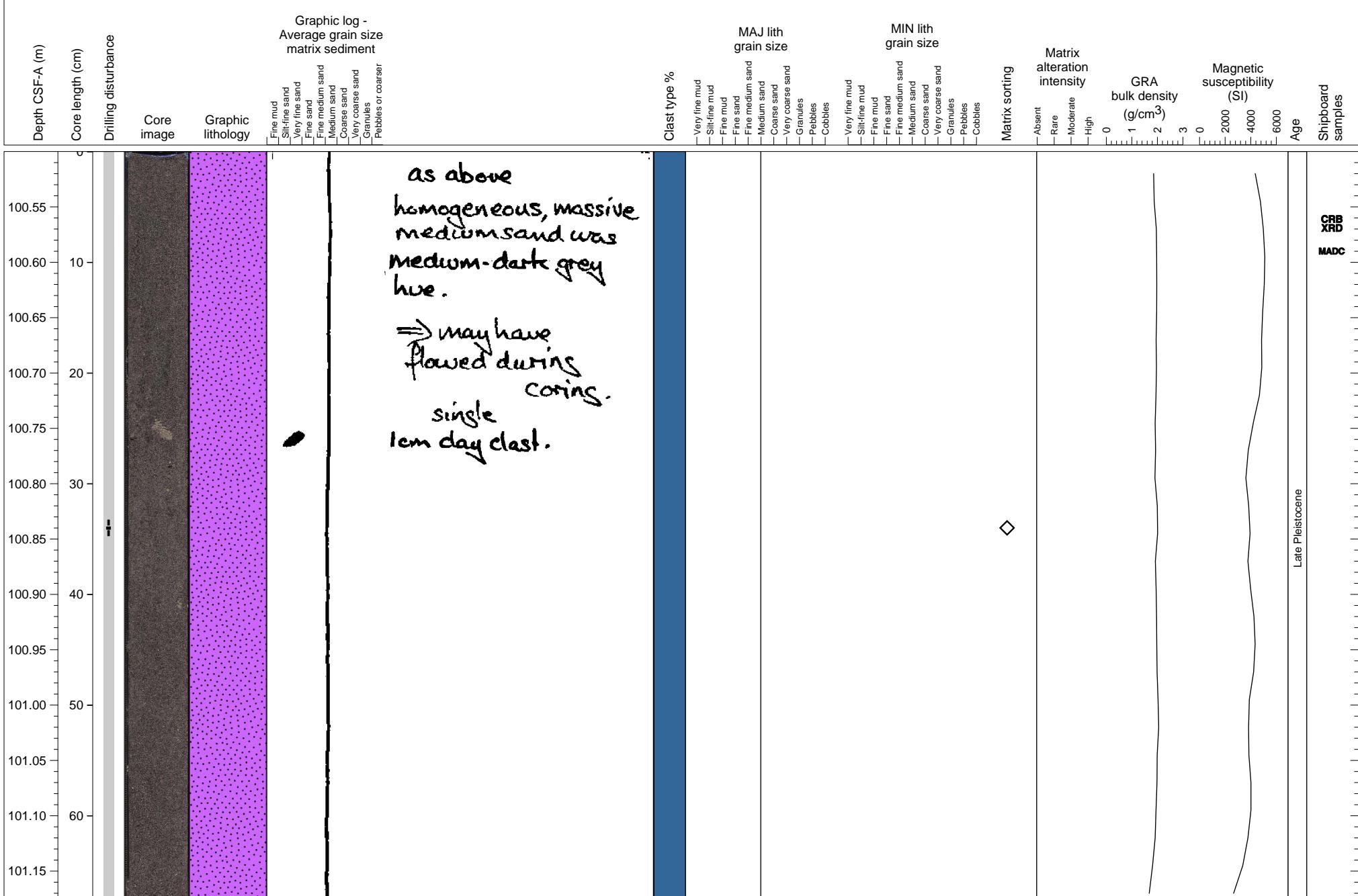
Volcaniclastic sand with biogenic clasts.



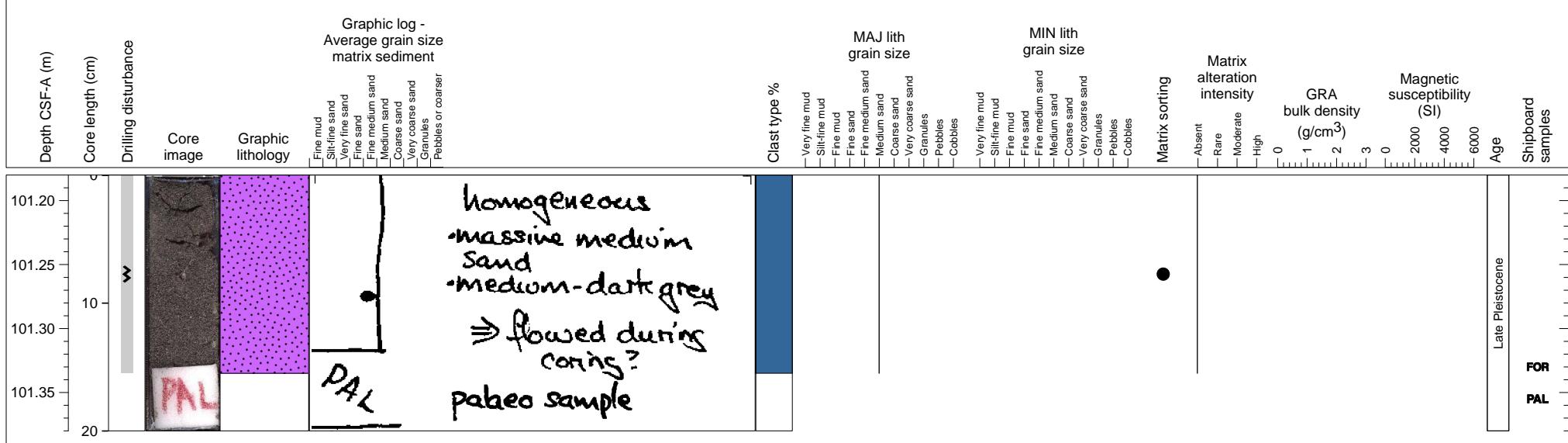
Volcaniclastic sand with biogenic clasts.



Volcaniclastic sand with biogenic clasts.

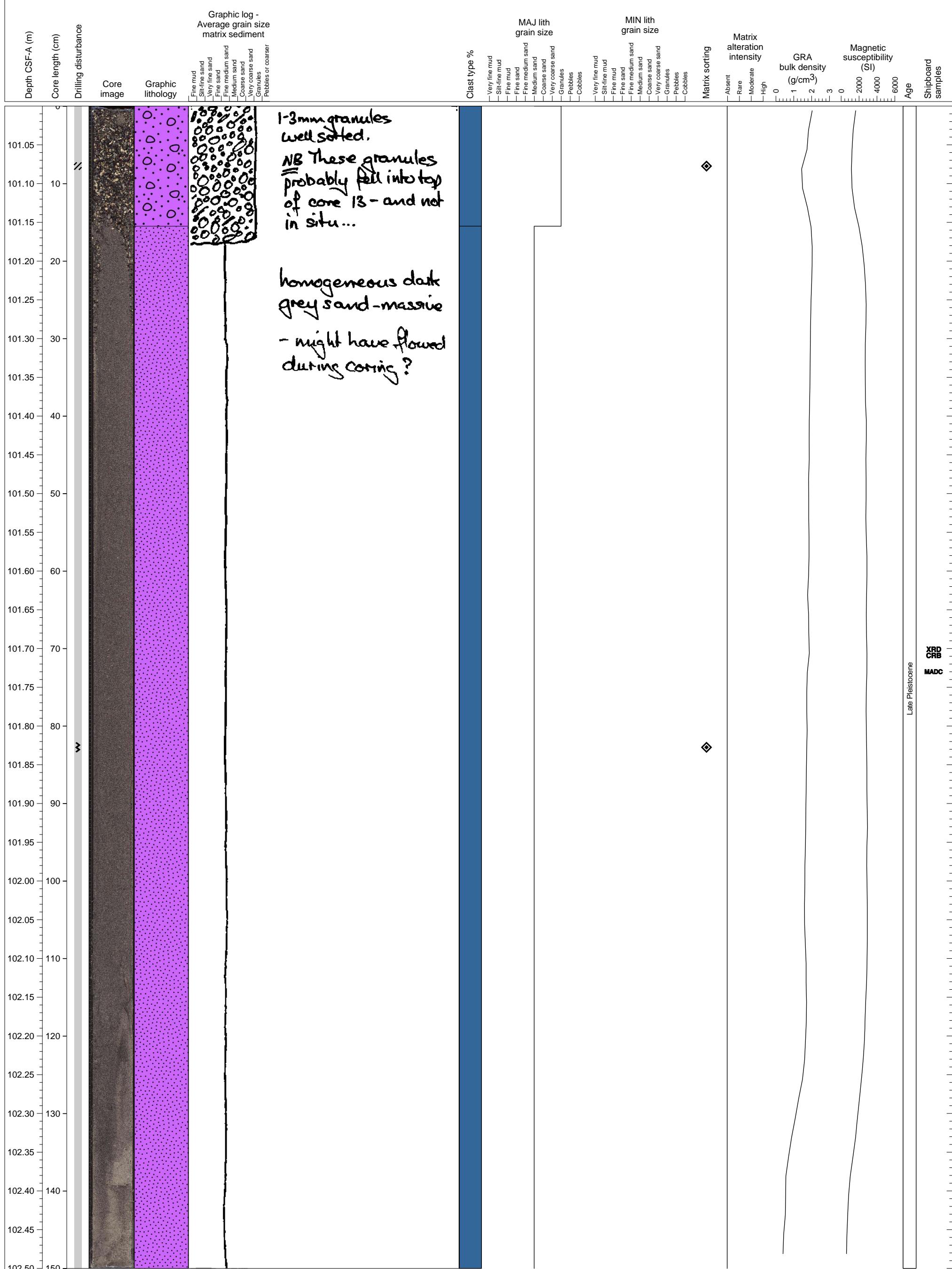


Volcaniclastic sand with biogenic clasts. PAL sample from base.

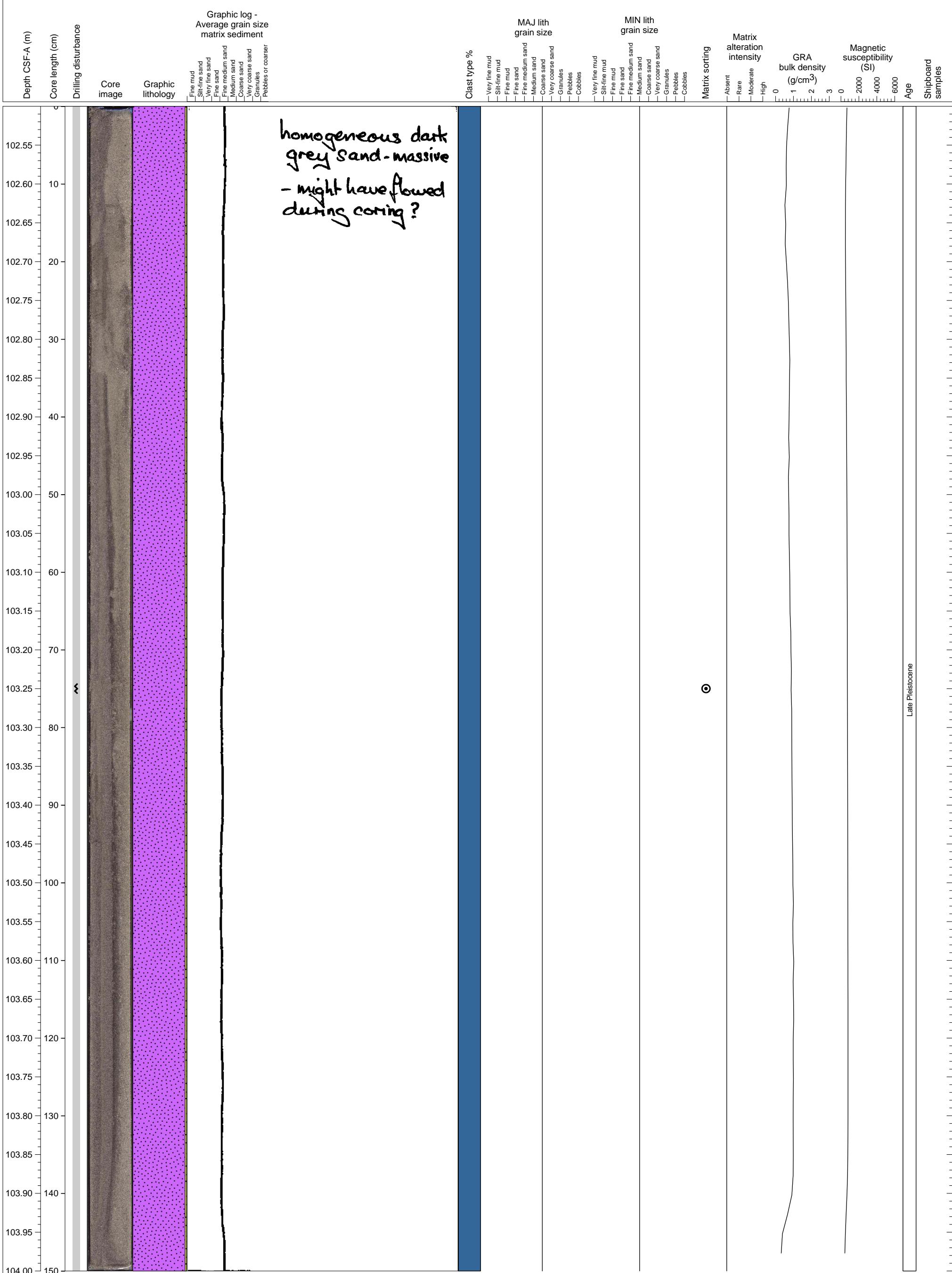


Hole 340-U1394B-13H Section 1, Top of Section: 101.0 CSF-A (m)

Volcaniclastic sand with biogenic clasts. Volcaniclastic/bioclastic conglomerate on top is fall-in layer from drilling disturbance.



Minor amount of biogenic clasts contain andesitic volcaniclastic sand, with highly disturbed surface (by drilling sea water).



## Hole 340-U1394B-13H Section 3, Top of Section: 104.0 CSF-A (m)

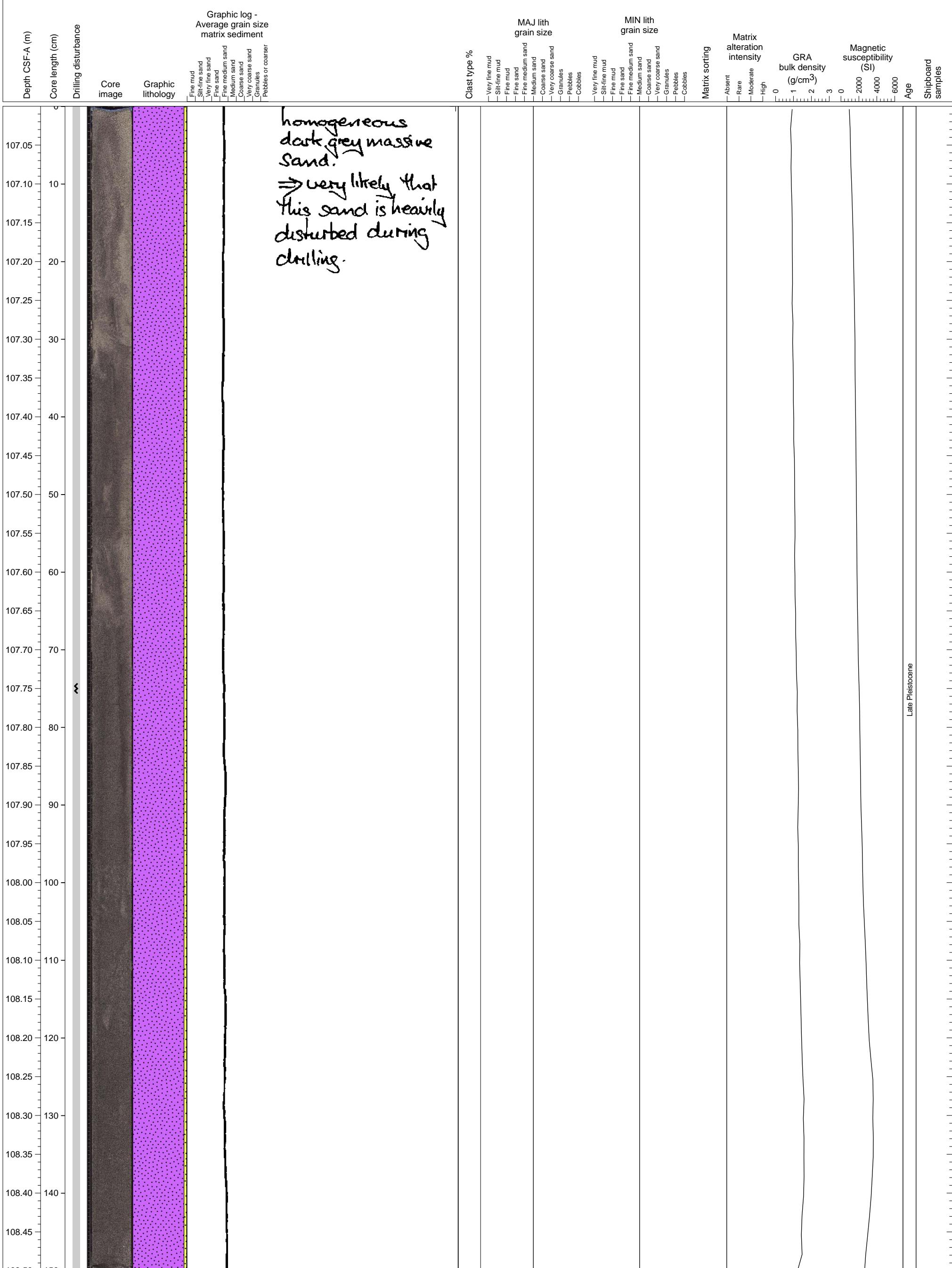
Homogeneous dark grey medium sand with occasional carbonate grains. Massive and may have flowed during coring. Top 18 cm granule-fine pebbles that most likely fell in from above.



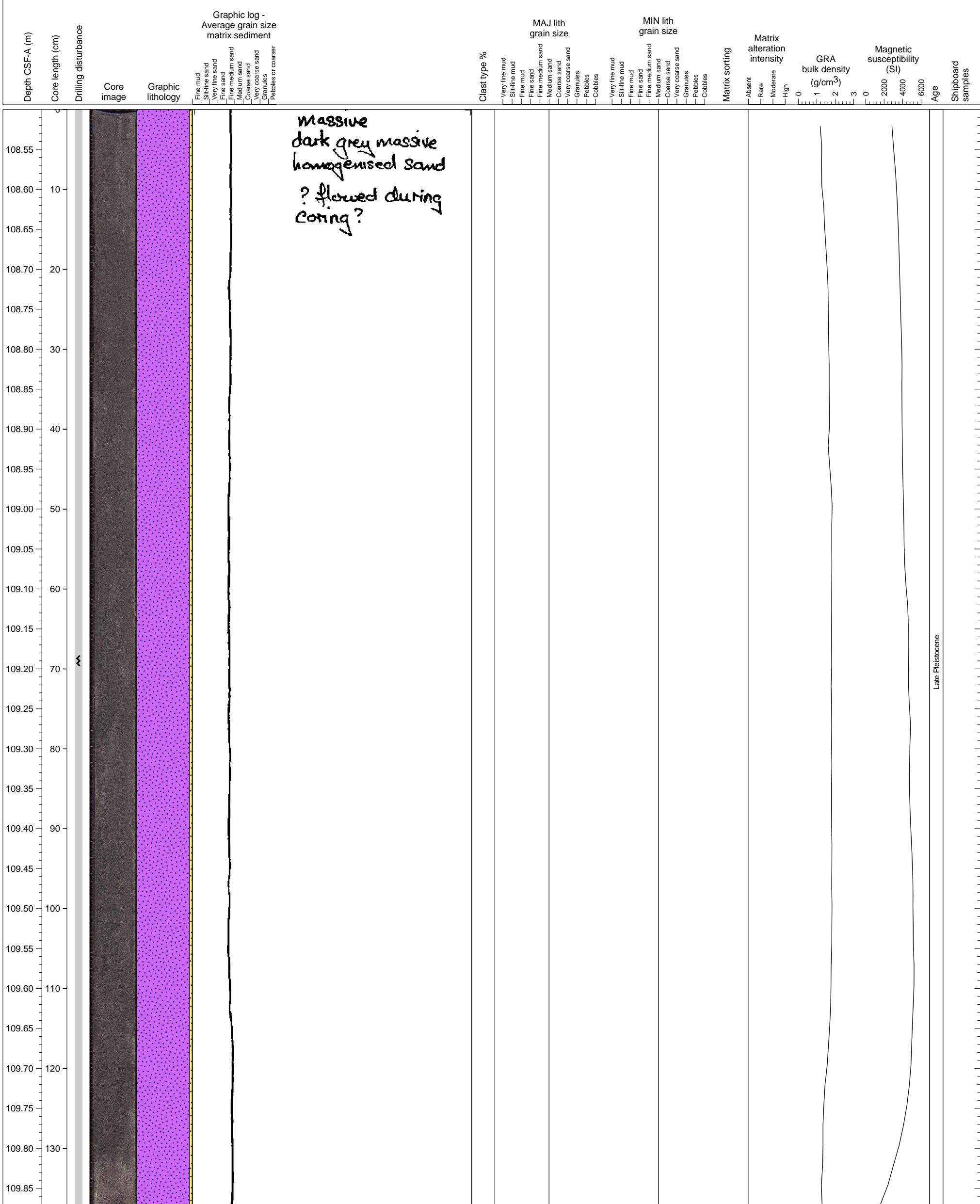
Homogeneous dark grey medium sand with occasional carbonate grains. Massive and may have flowed during coring.



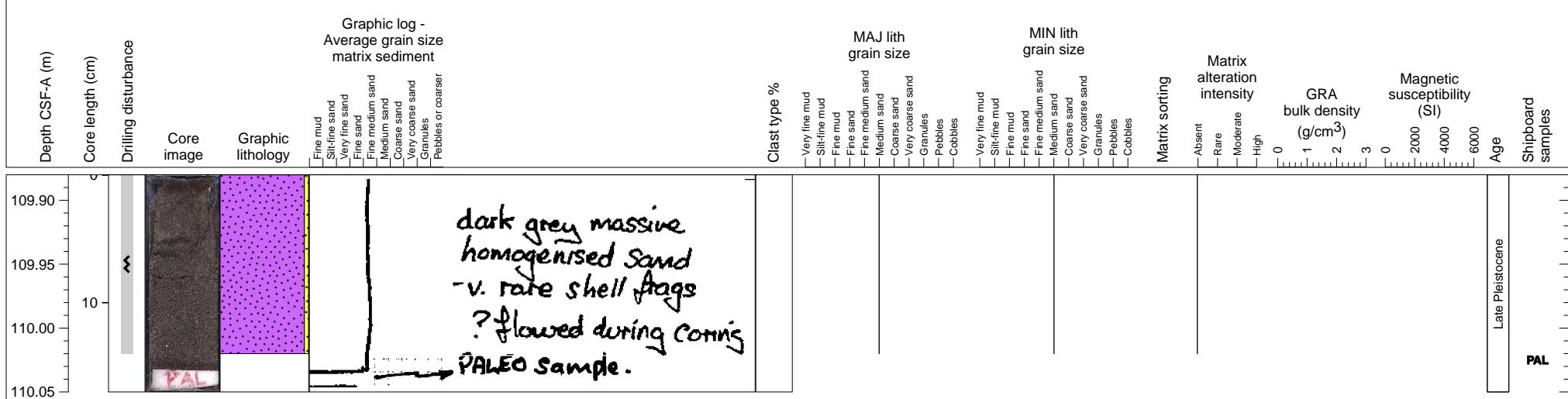
Homogeneous dark grey medium sand with occasional carbonate grains. Massive and may have flowed during coring.



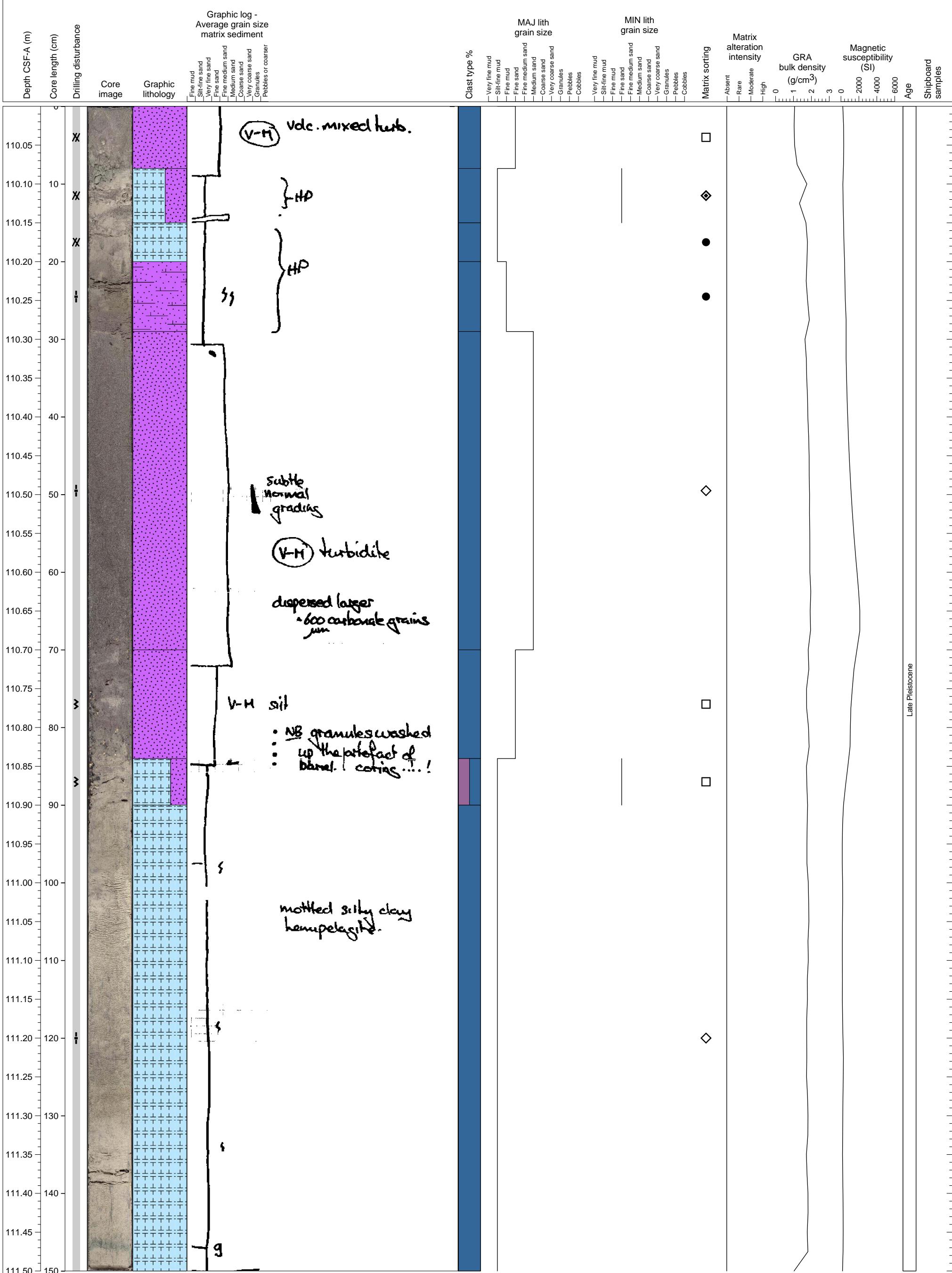
Homogeneous dark grey medium sand with occasional carbonate grains. Massive and may have flowed during coring.



Homogeneous dark grey medium sand with occasional carbonate grains. Massive and may have flowed during coring.

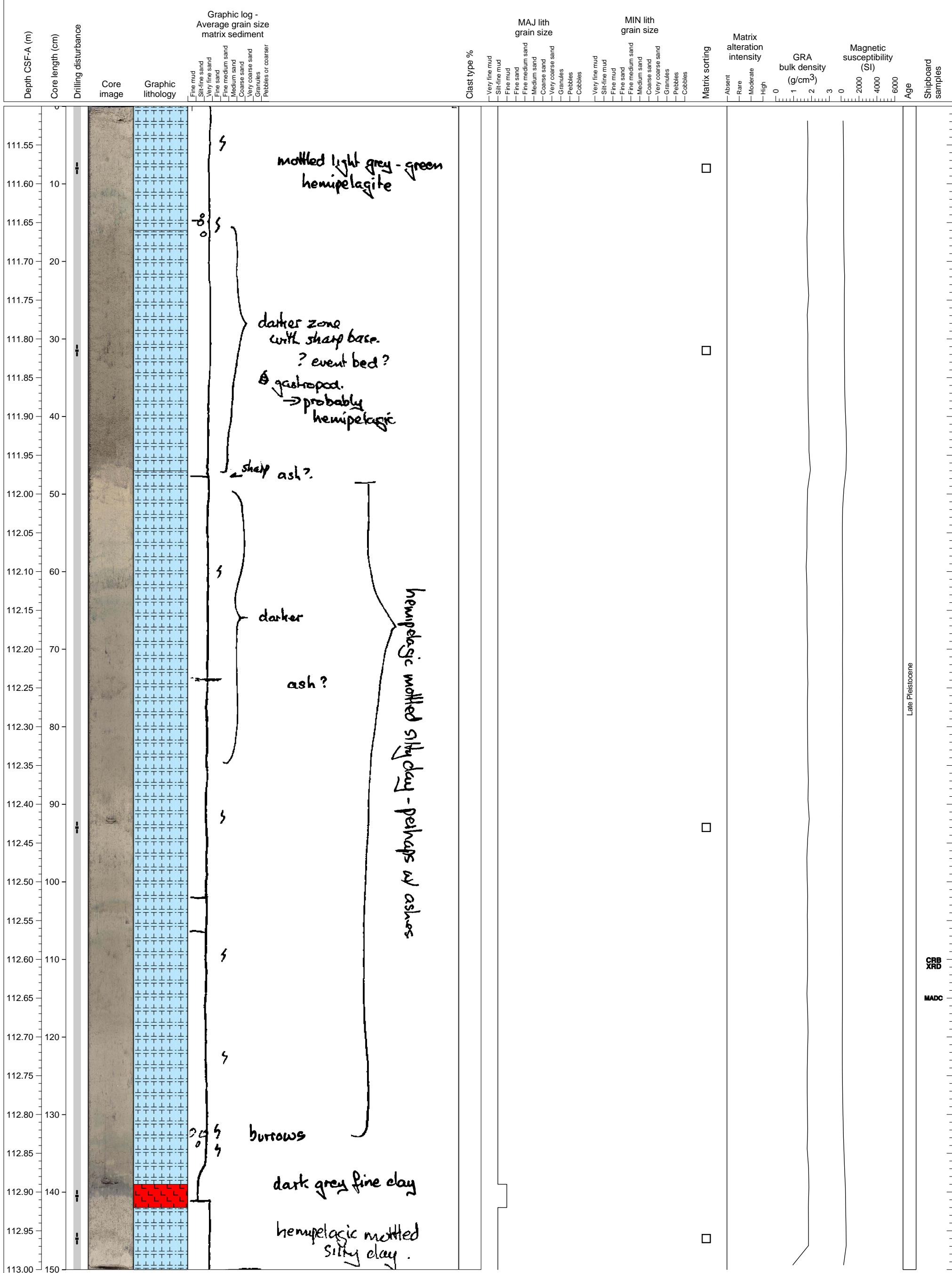


Interlayered hemipelagic clay and volcanioclastic sand and mud layers.

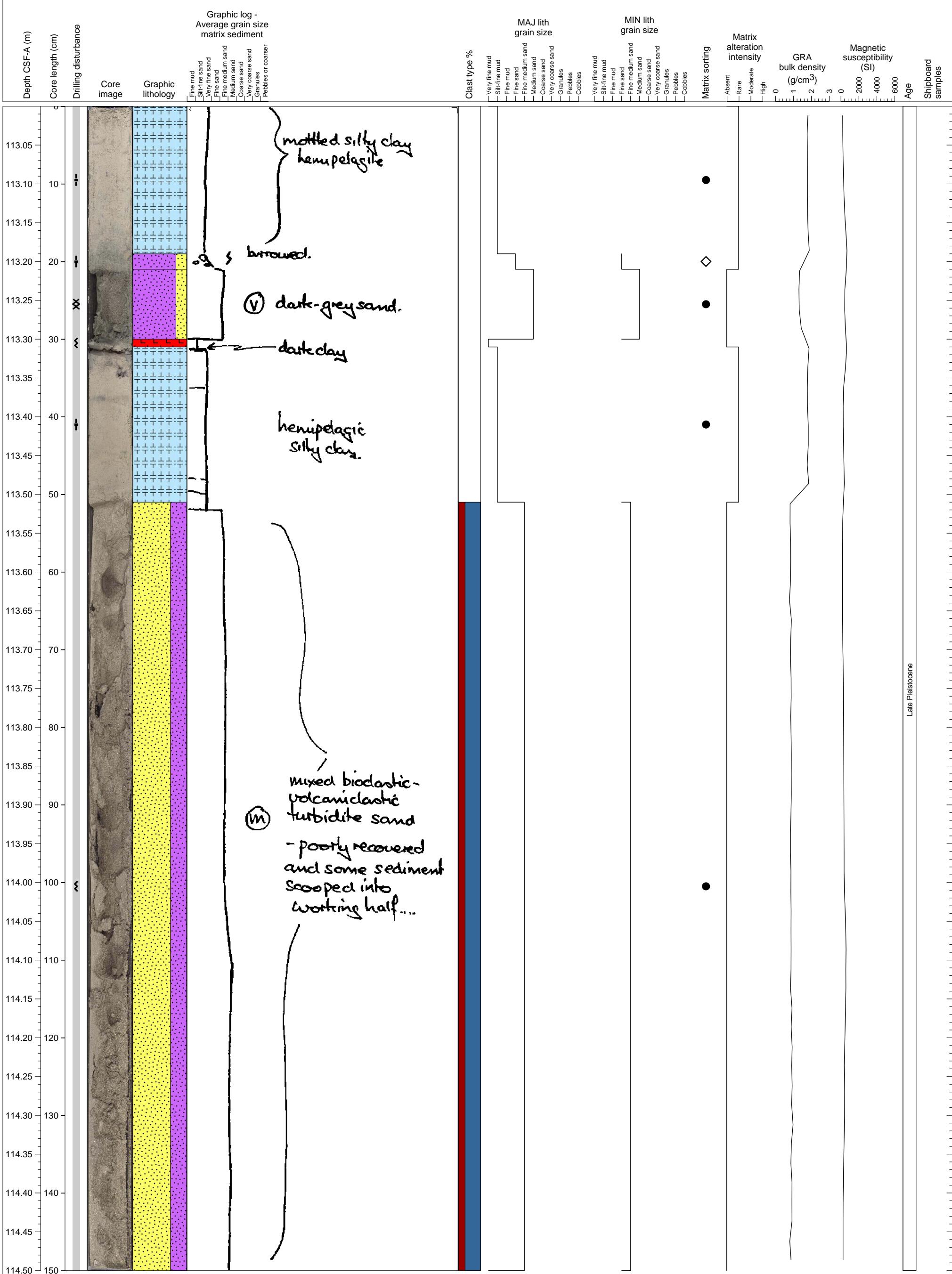


Hole 340-U1394B-14H Section 2, Top of Section: 111.5 CSF-A (m)

This section consists of mostly hemipelagic carbonate ooze, but one possible ash layer in the lower part from 139-142 cm. The layer is very well-sorted fine mud with dark grey in color. Gastropod is found in the layer from 16-47 cm, which confirms hemipelagic origin, not volcanic origin.

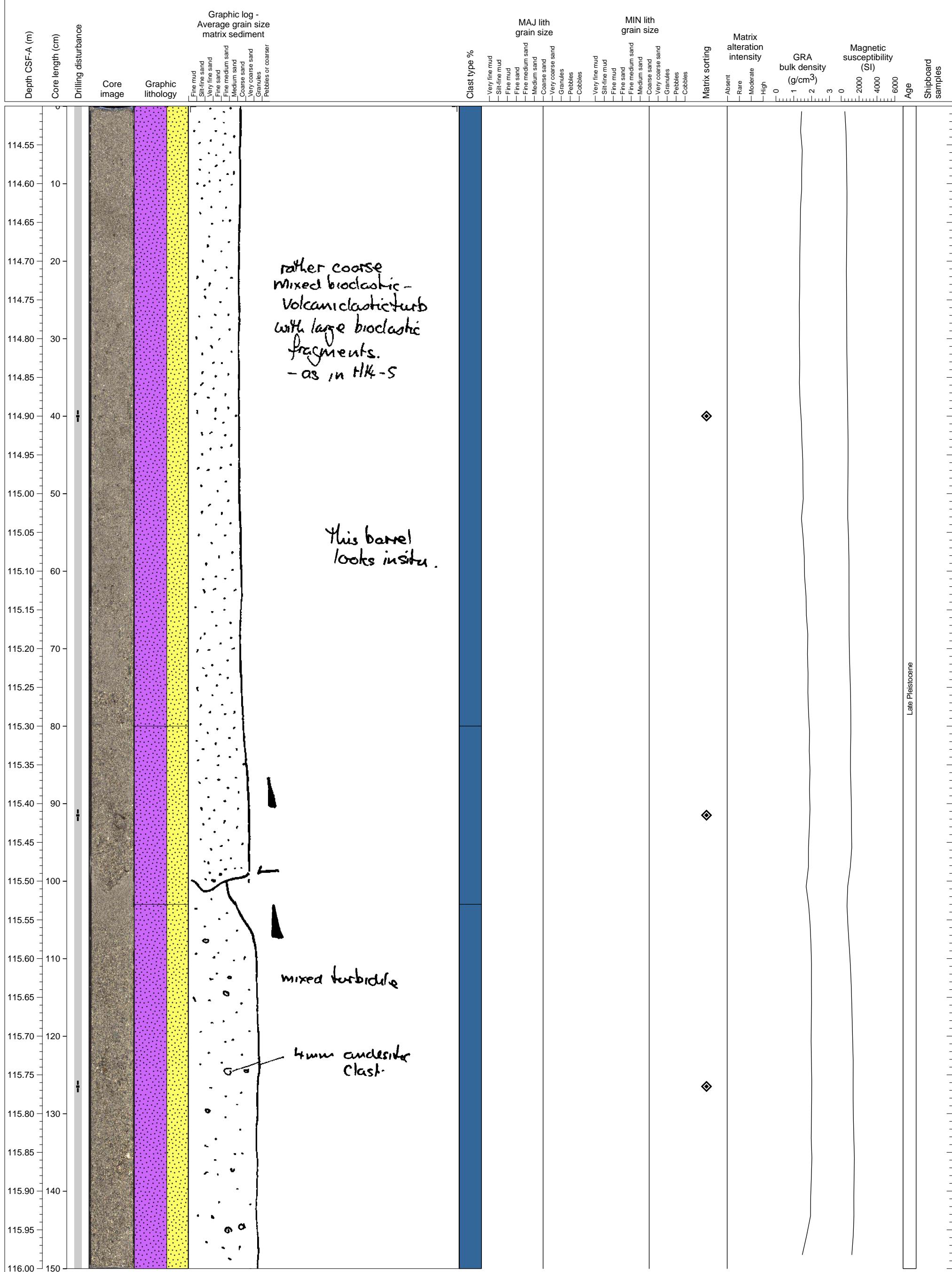


Gradual succession of bio-volcaniclastic sand, vary from medium sand to silt-fine sand in grain size. Well sorted thin gray muddy layer (ash ?) is present at 30 cm.

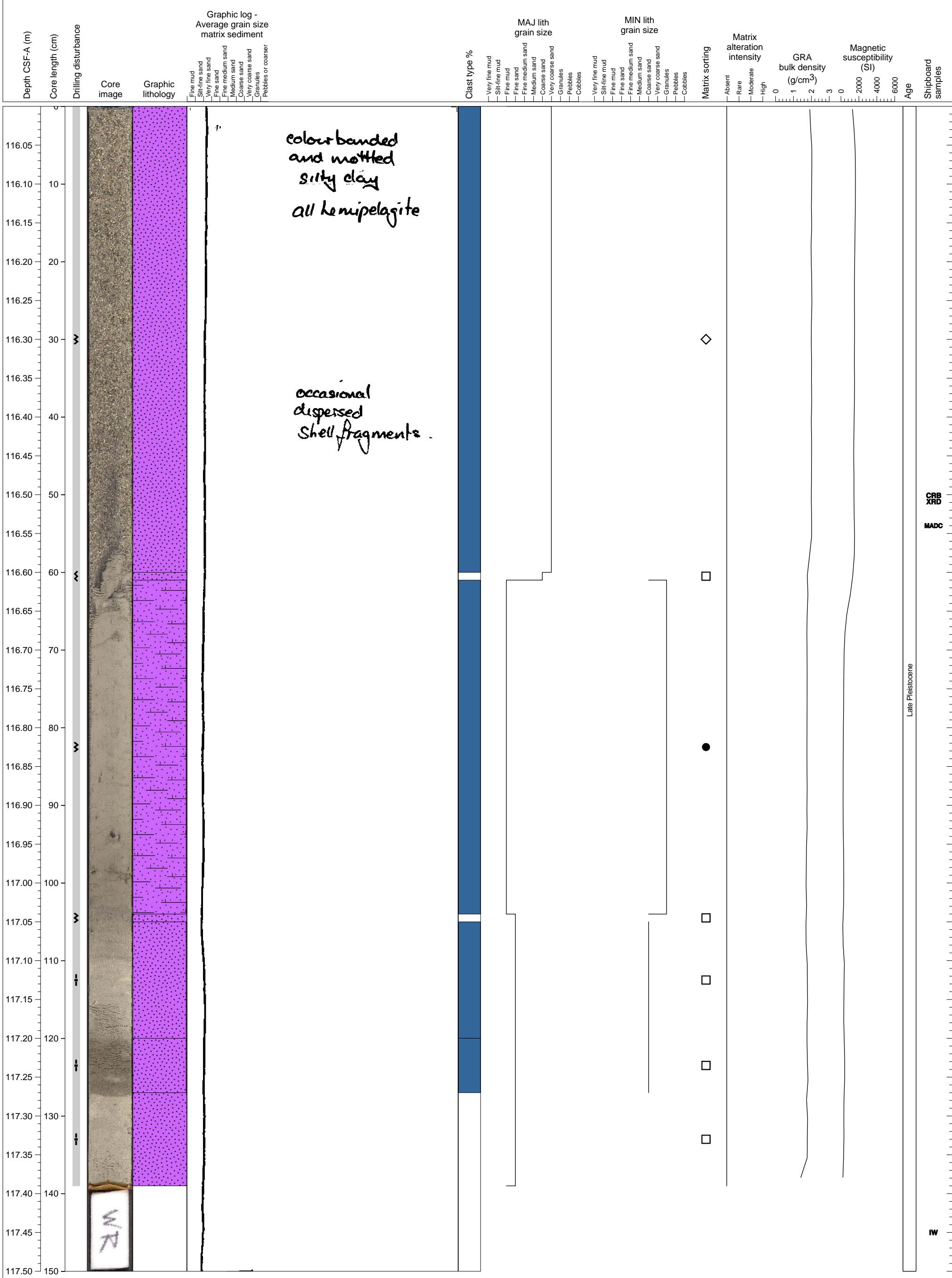


Hole 340-U1394B-14H Section 4, Top of Section: 114.5 CSF-A (m)

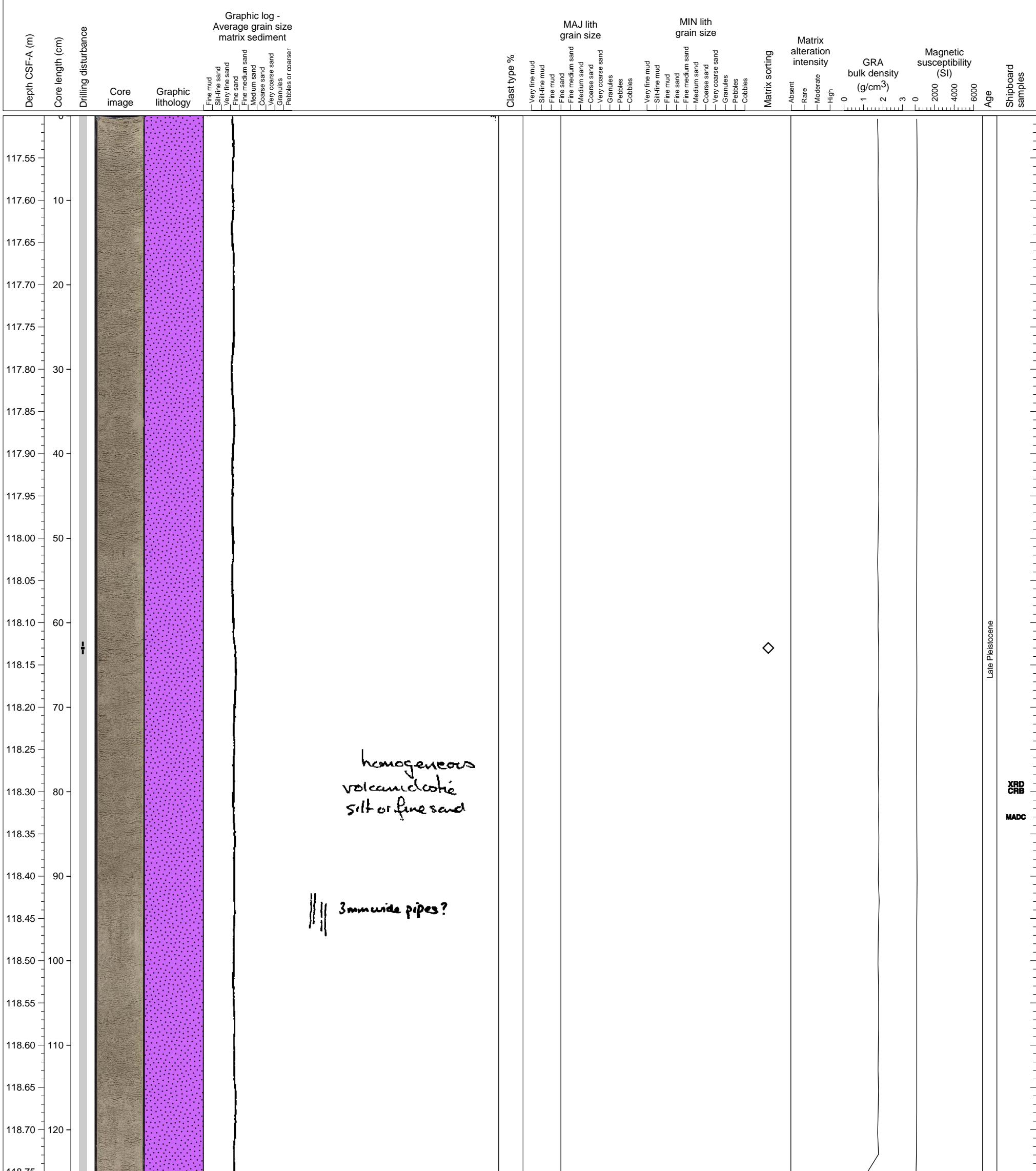
Alternating layers of volcanioclastic/bioclastic sand fining upward from coarse-grained at the base of the unit to fine-grained at the top of the unit.



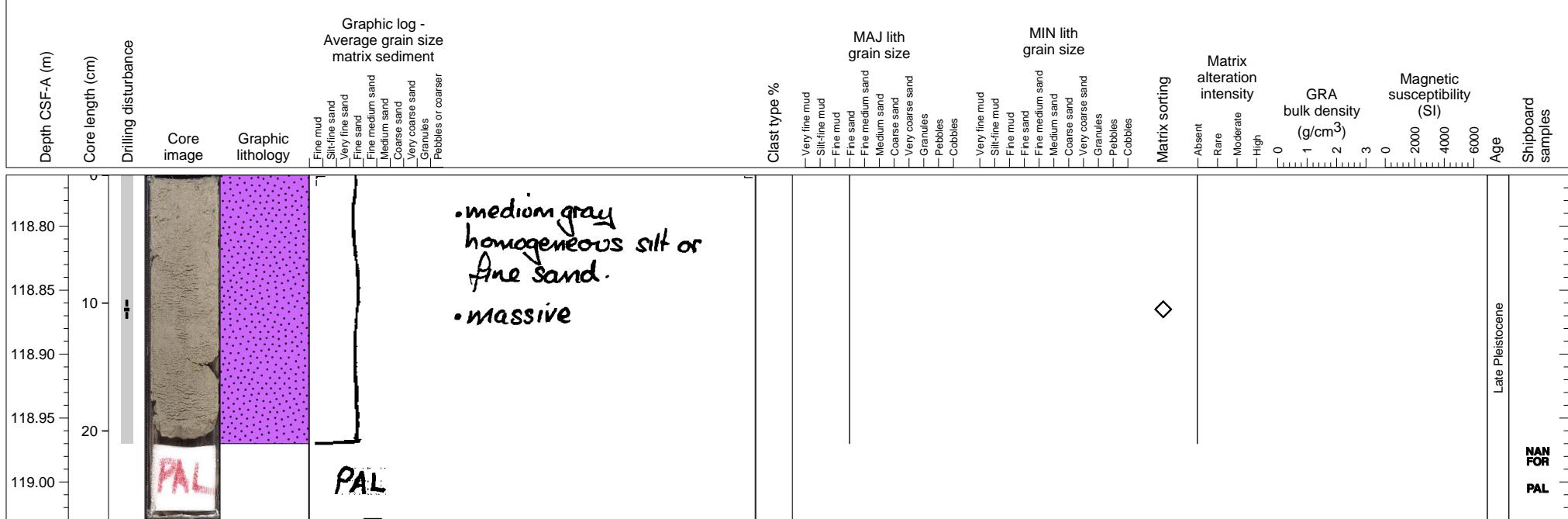
The upper 60 cm is massive coarse to very coarse sand with normal grading composed of mixture of volcaniclastics and biogenic clasts up to granule size. The lower part is composed of layered gray colored volcanoclastic mud and fine sand. The upper and lower parts of this section are separated by black colored tephra layer and the boundary is sharp and heavily disturbed.



Homogeneous massive volcaniclastic fine sand.

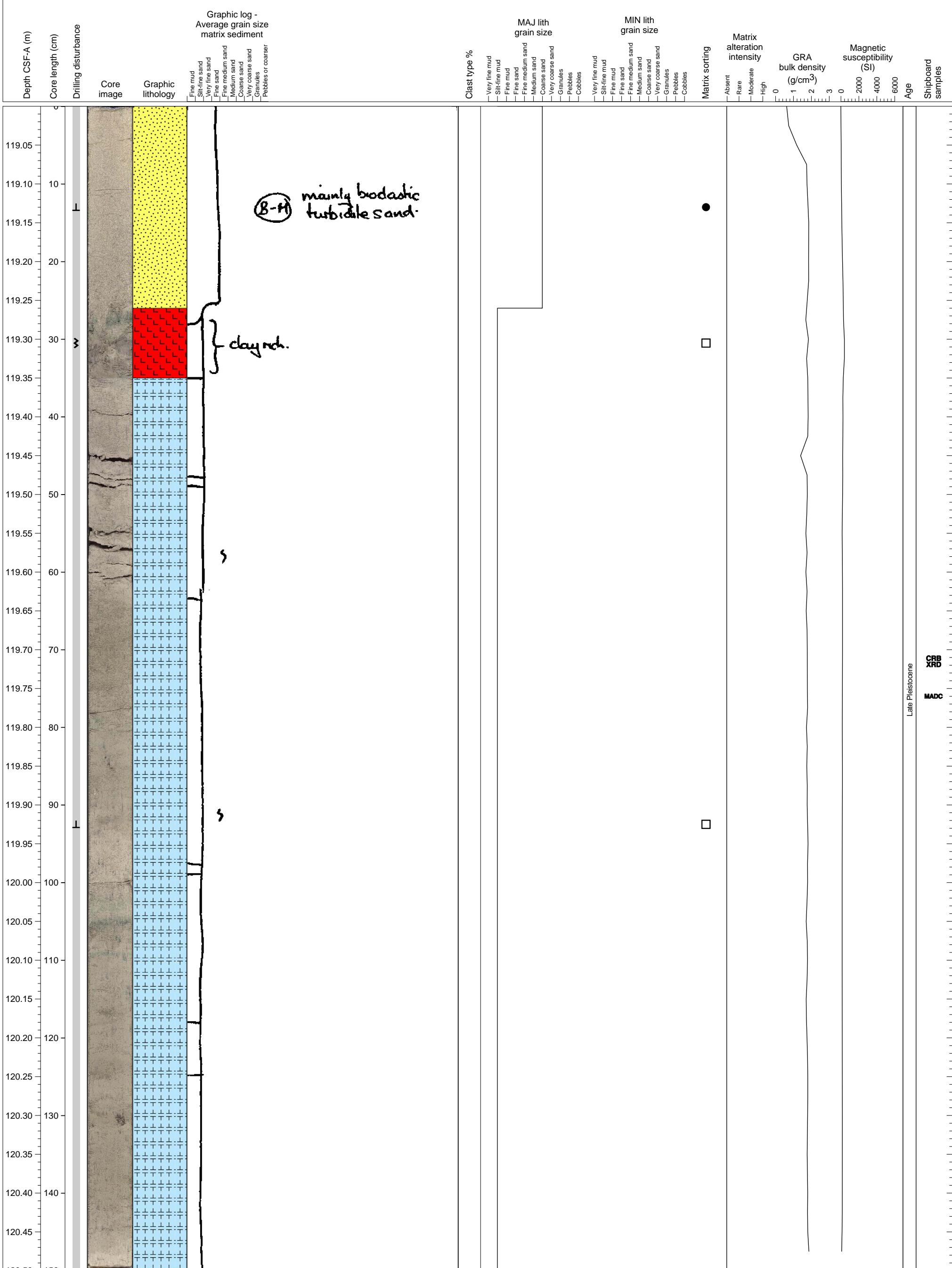


Massive volcaniclastic fine sand.

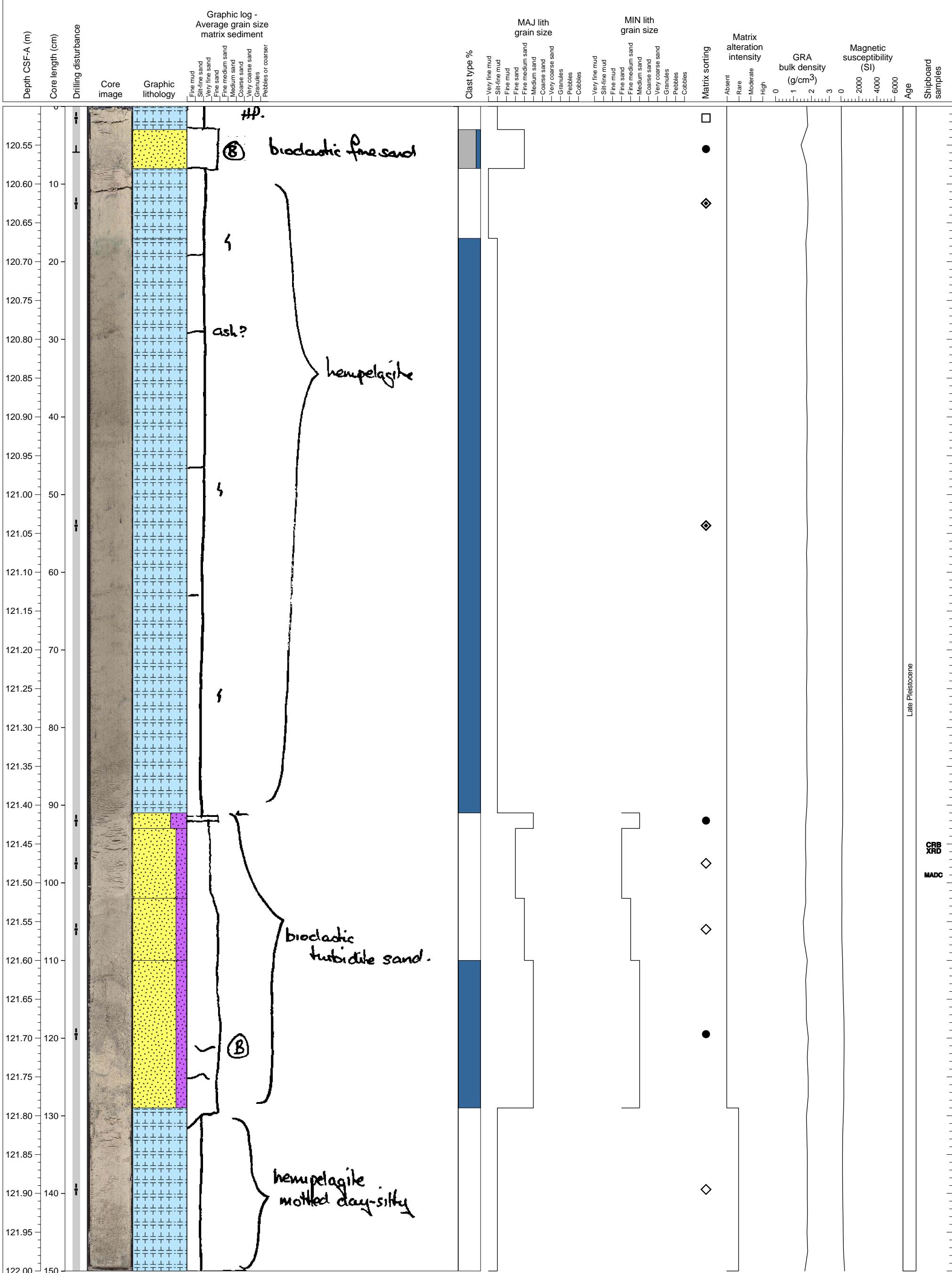


Hole 340-U1394B-15H Section 1, Top of Section: 119.0 CSF-A (m)

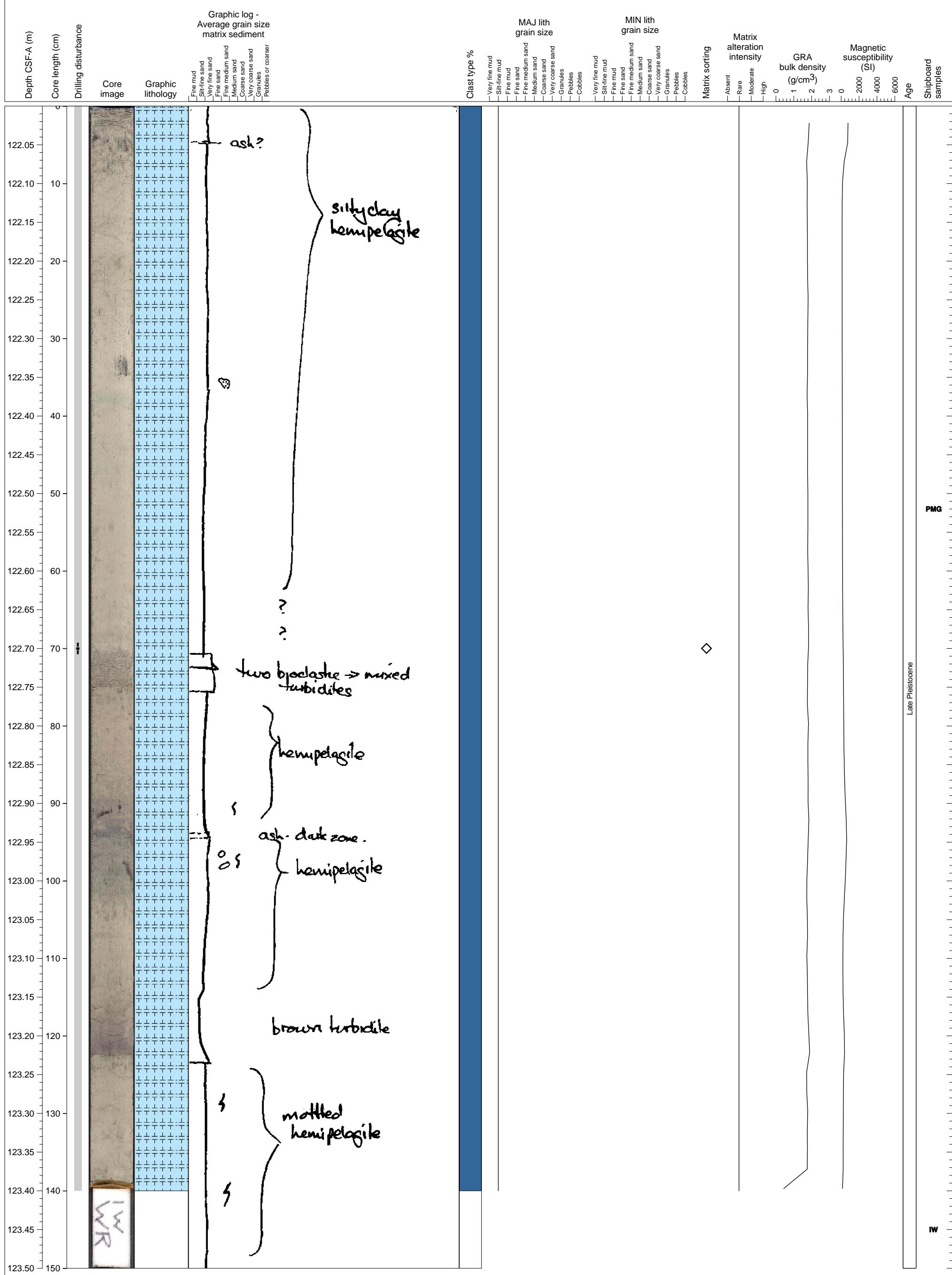
Most part of this section is background hemipelagic clay, but in the upper 26-35 cm volcanic ash appears and it suddenly changes upward into poorly sorted coarse sand.



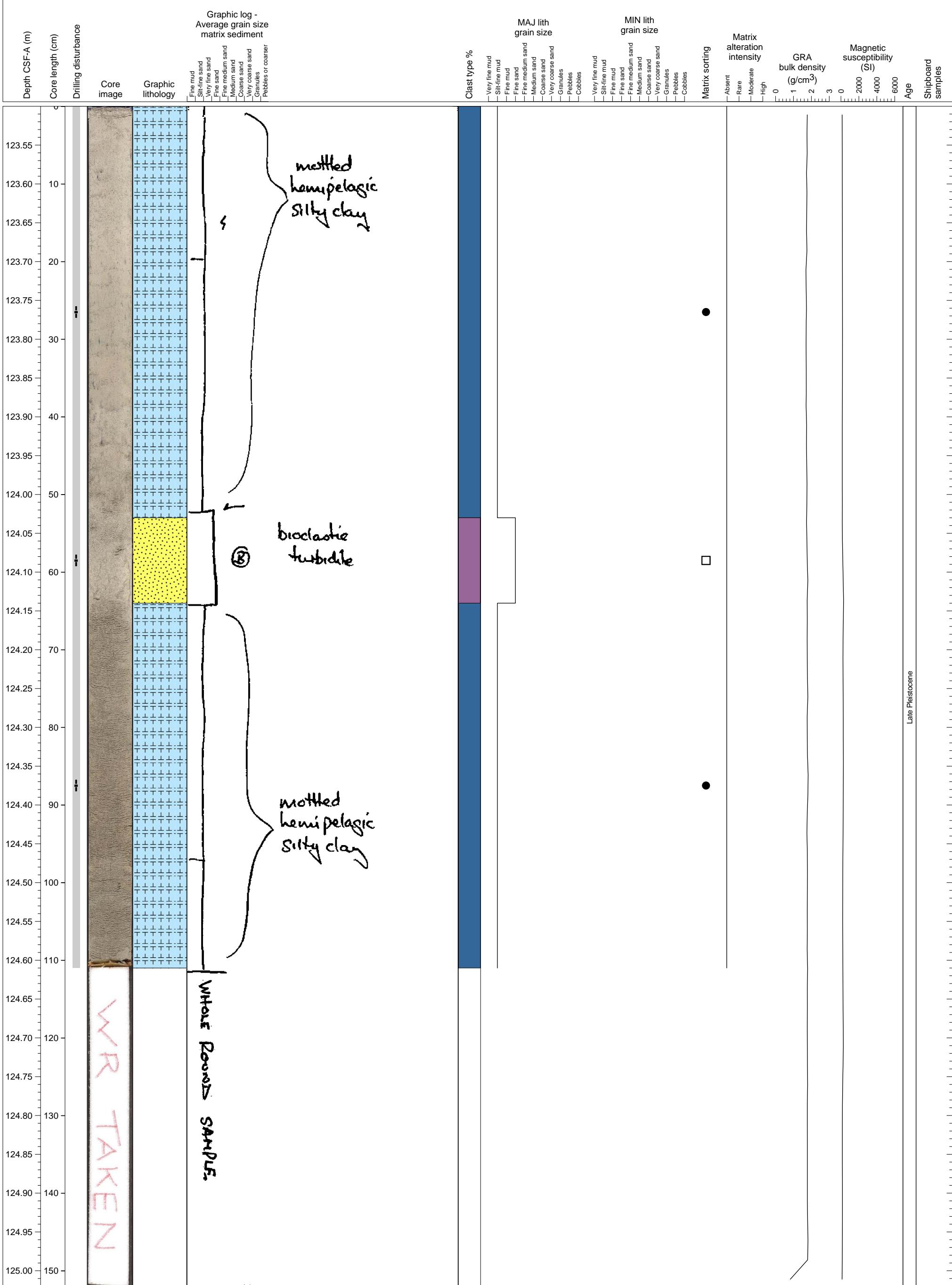
Succession of graded hemipelagic carbonate sand-mud alternation with minor amount of biogenic clast.



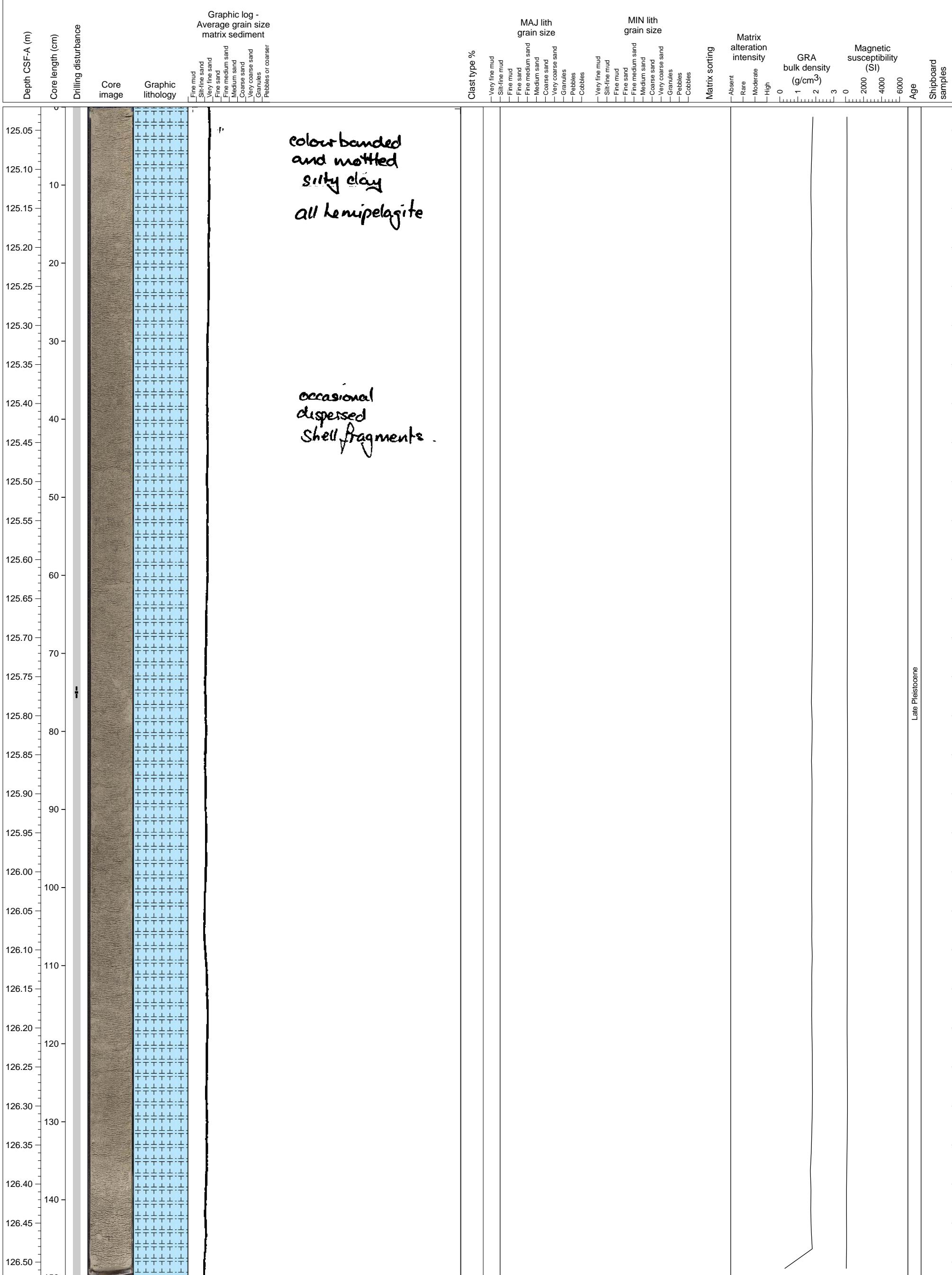
Hemipelagic clay with minor biogenic clasts. IW WR taken from base.



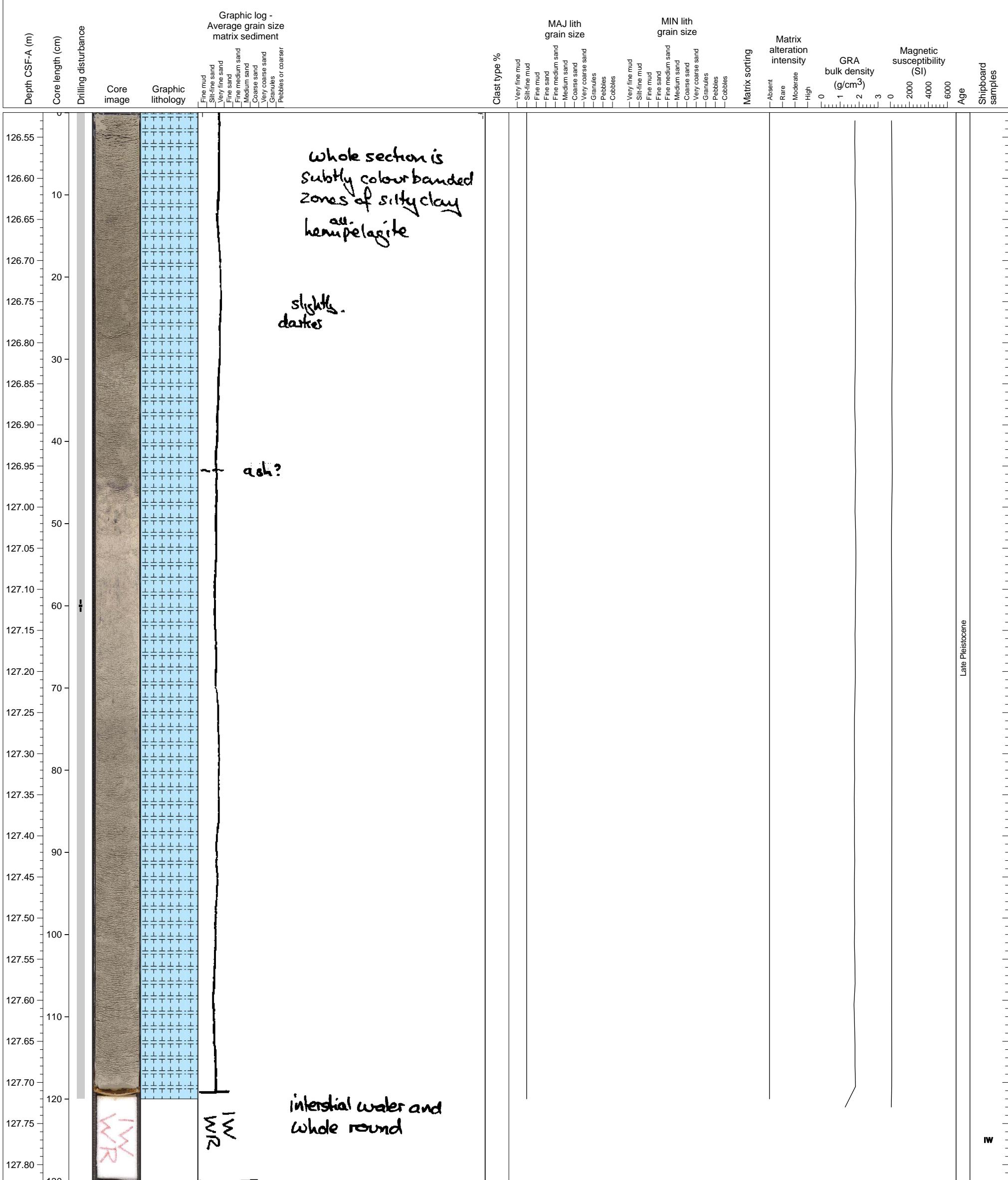
Interlayered hemipelagic clay and bioclastic sand layers. The bioclastic sand contains a significant amount of fine-grained lava clasts.



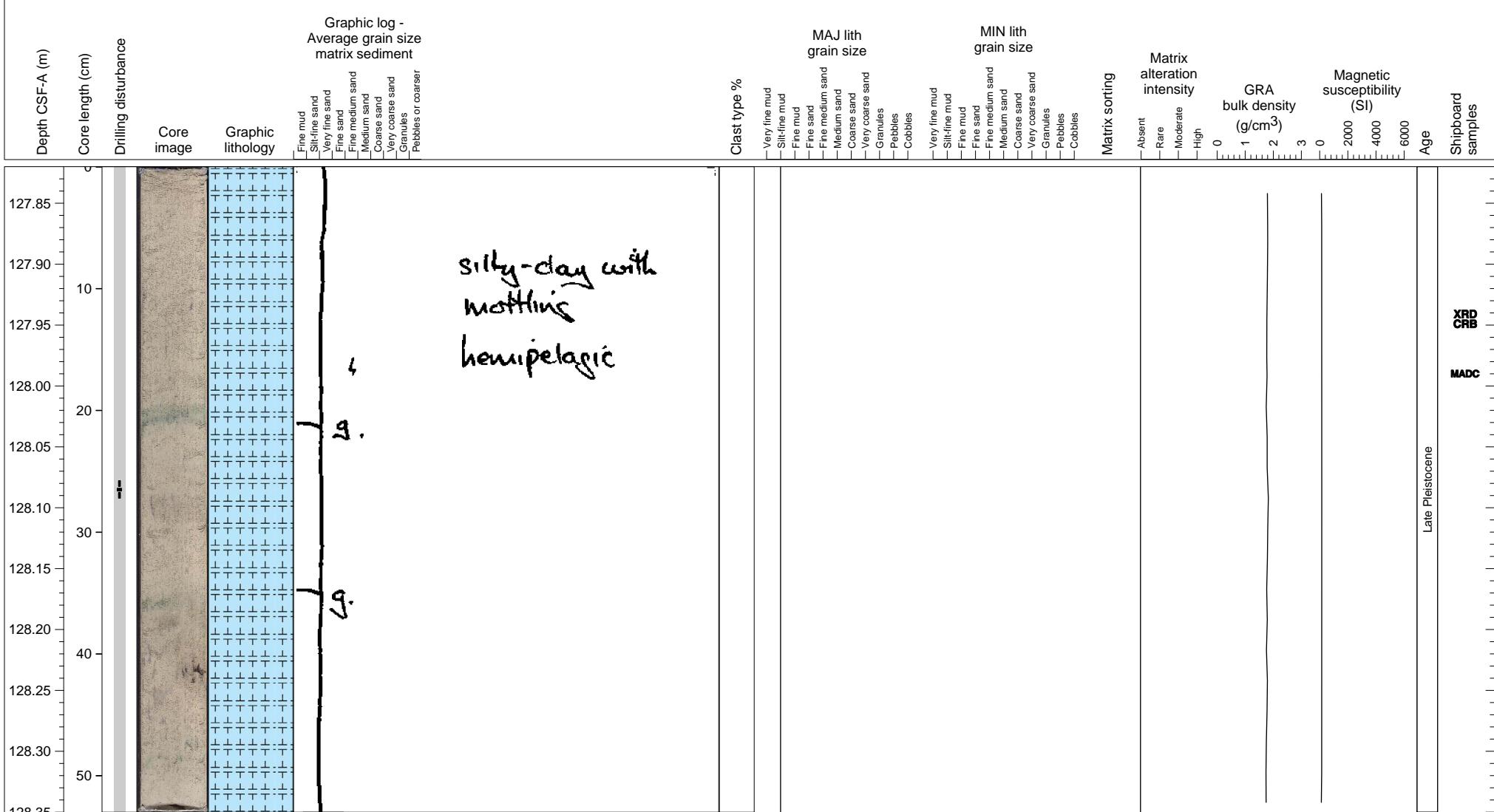
Hemipelagic silty clay.



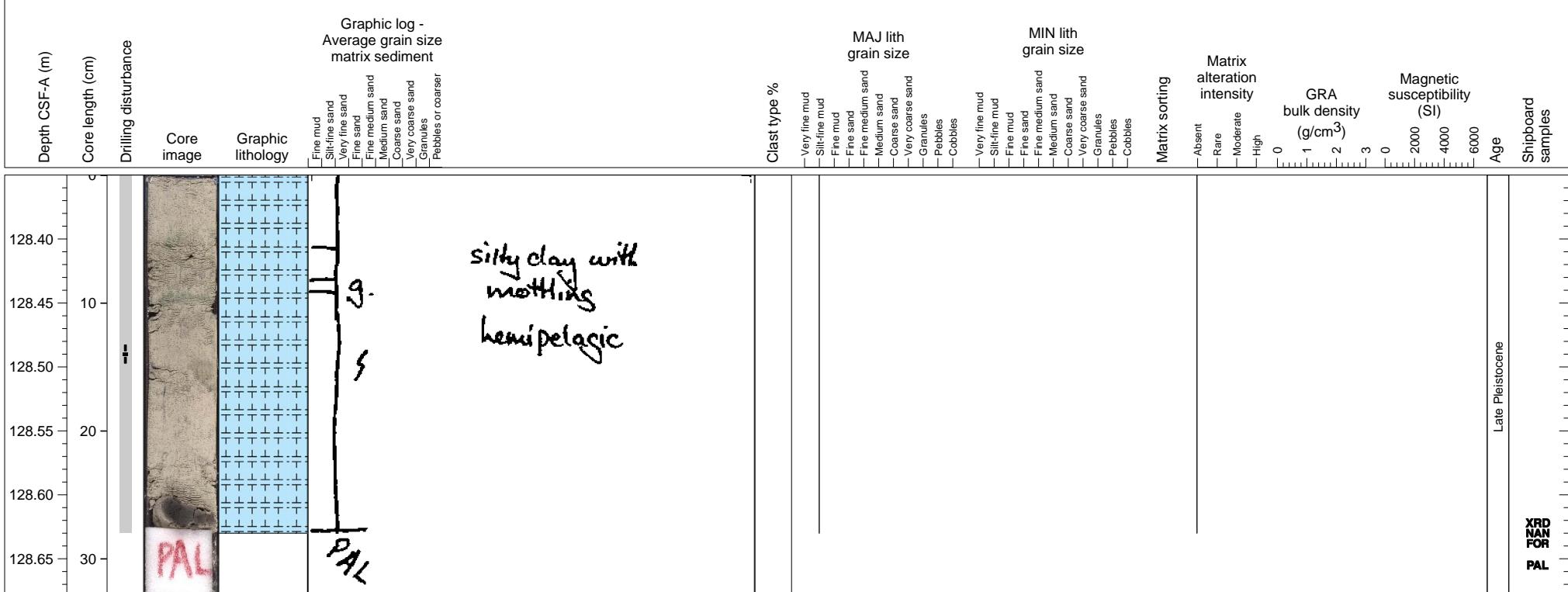
Hemipelagic silty clay.



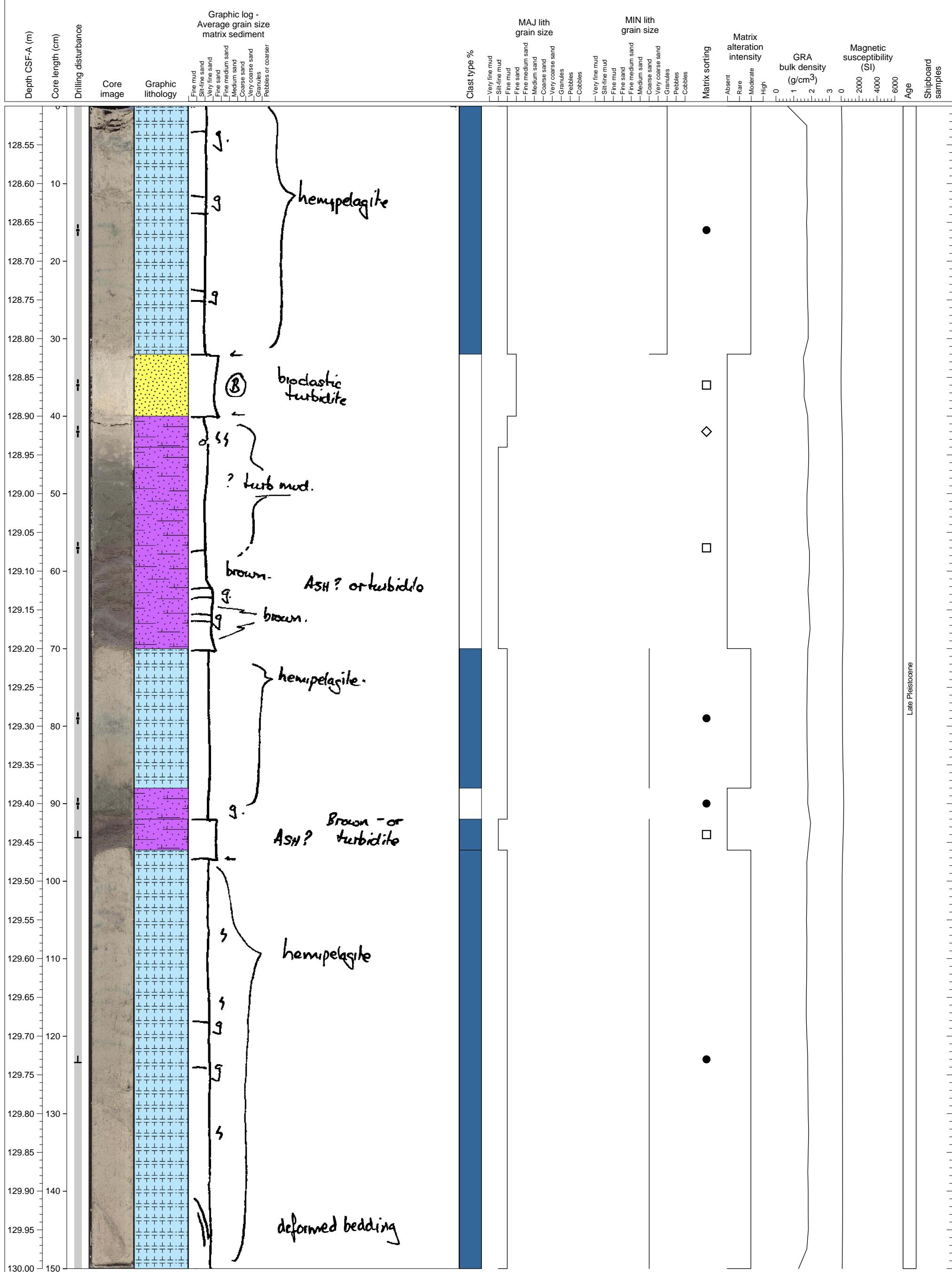
Hemipelagic silty clay.



Hemipelagic silty clay

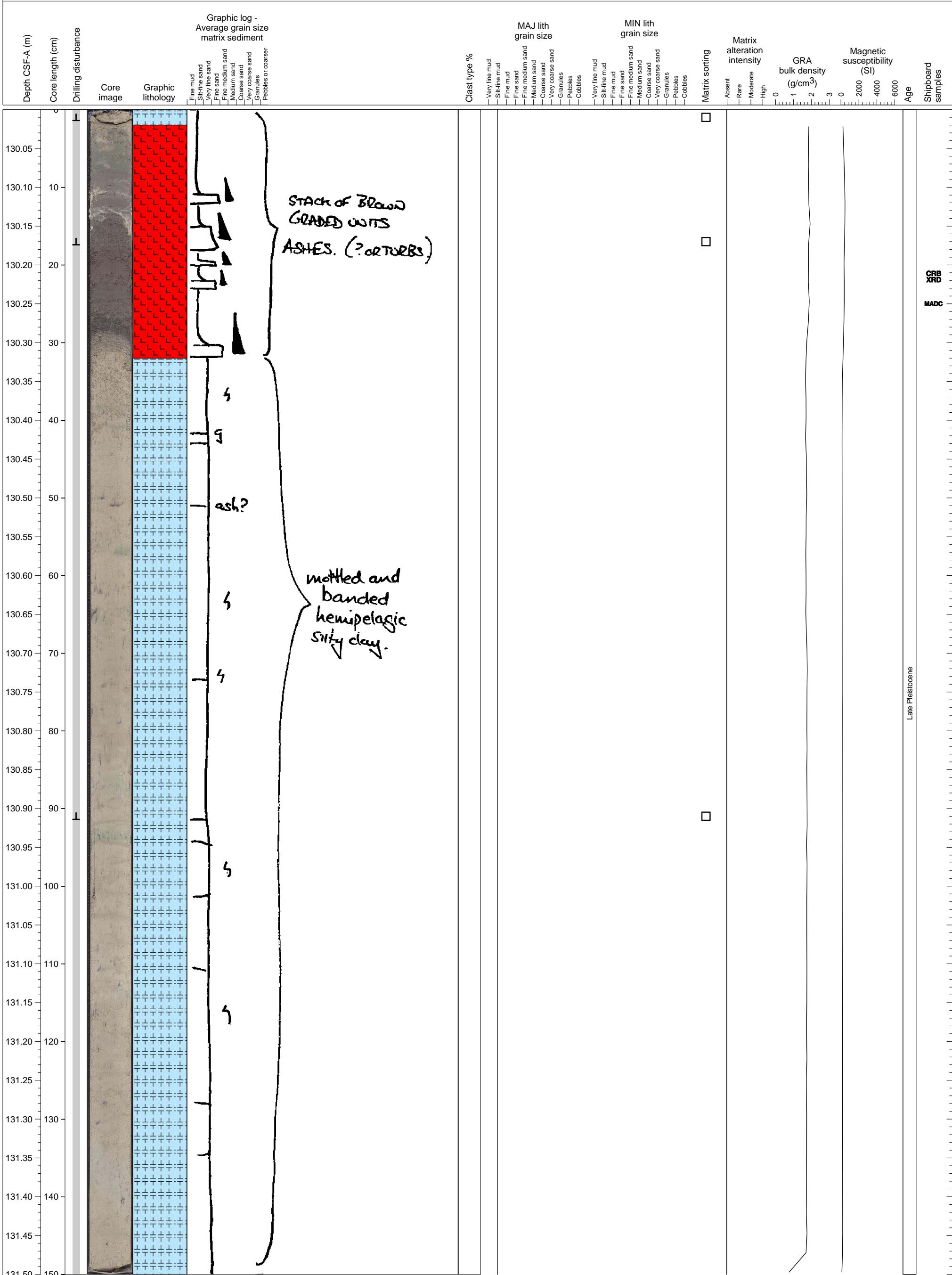


Alternating of light gray colored muddy hemipelagic sediments and dark gray colored. Well sorted potential tephra layers present.

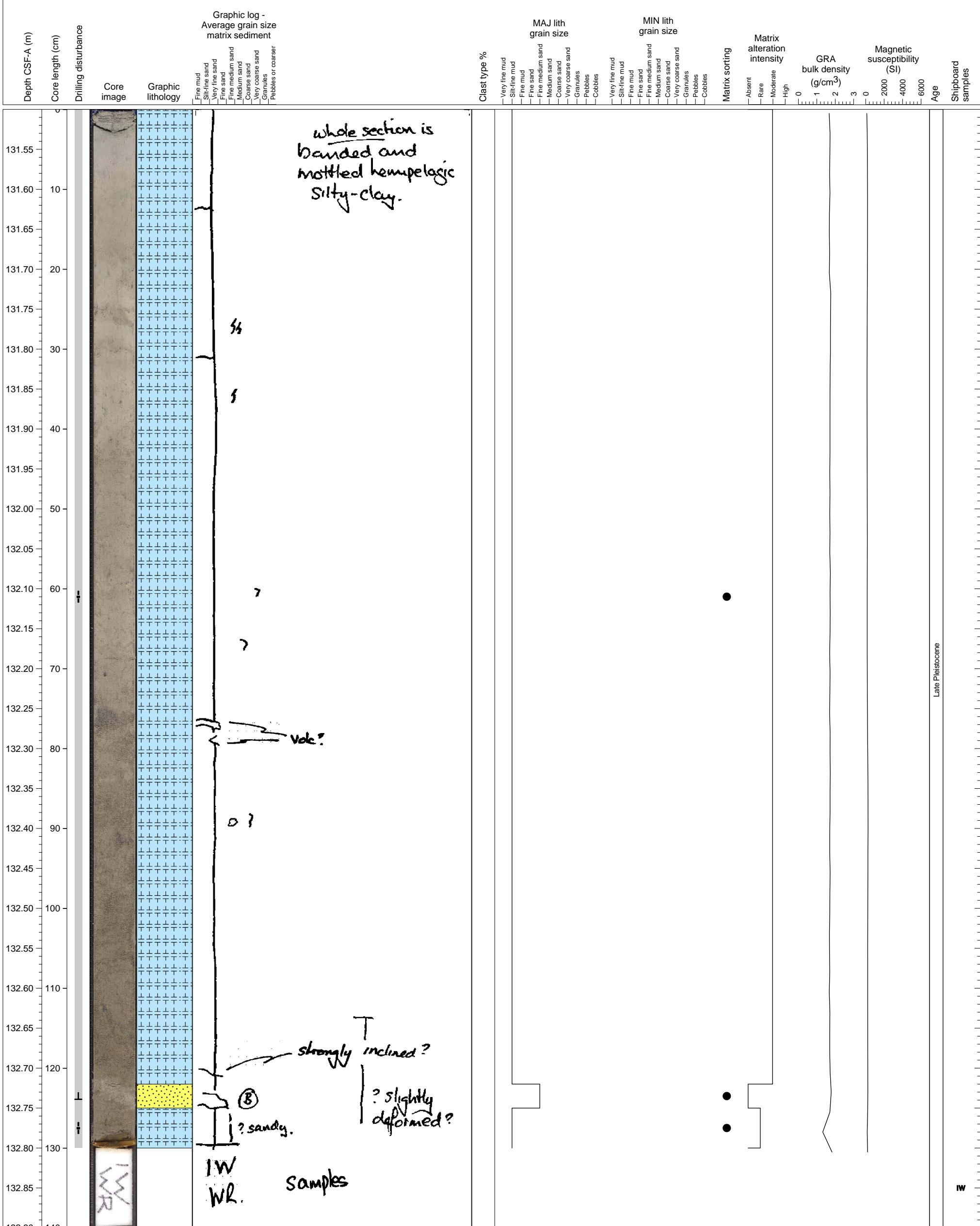


## Hole 340-U1394B-16H Section 2, Top of Section: 130.0 CSF-A (m)

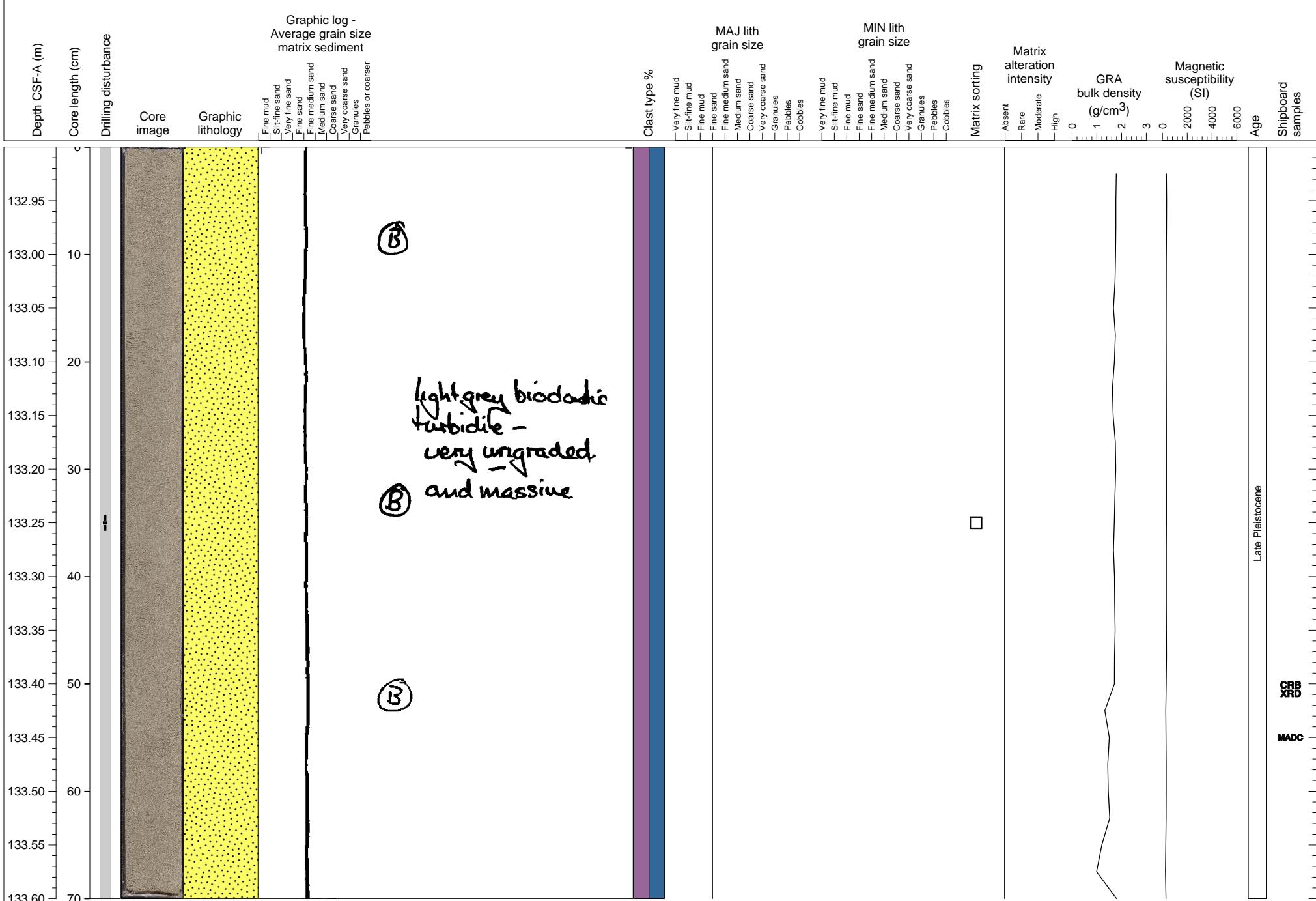
Volcanic ash layers (2-32 cm) sit sandwiched between hemipelagic carbonate ooze. Ash layers are alternation of silt and fine mud, which have no carbonate ooze among them, thus they may be derived from continuous volcanic eruptions.



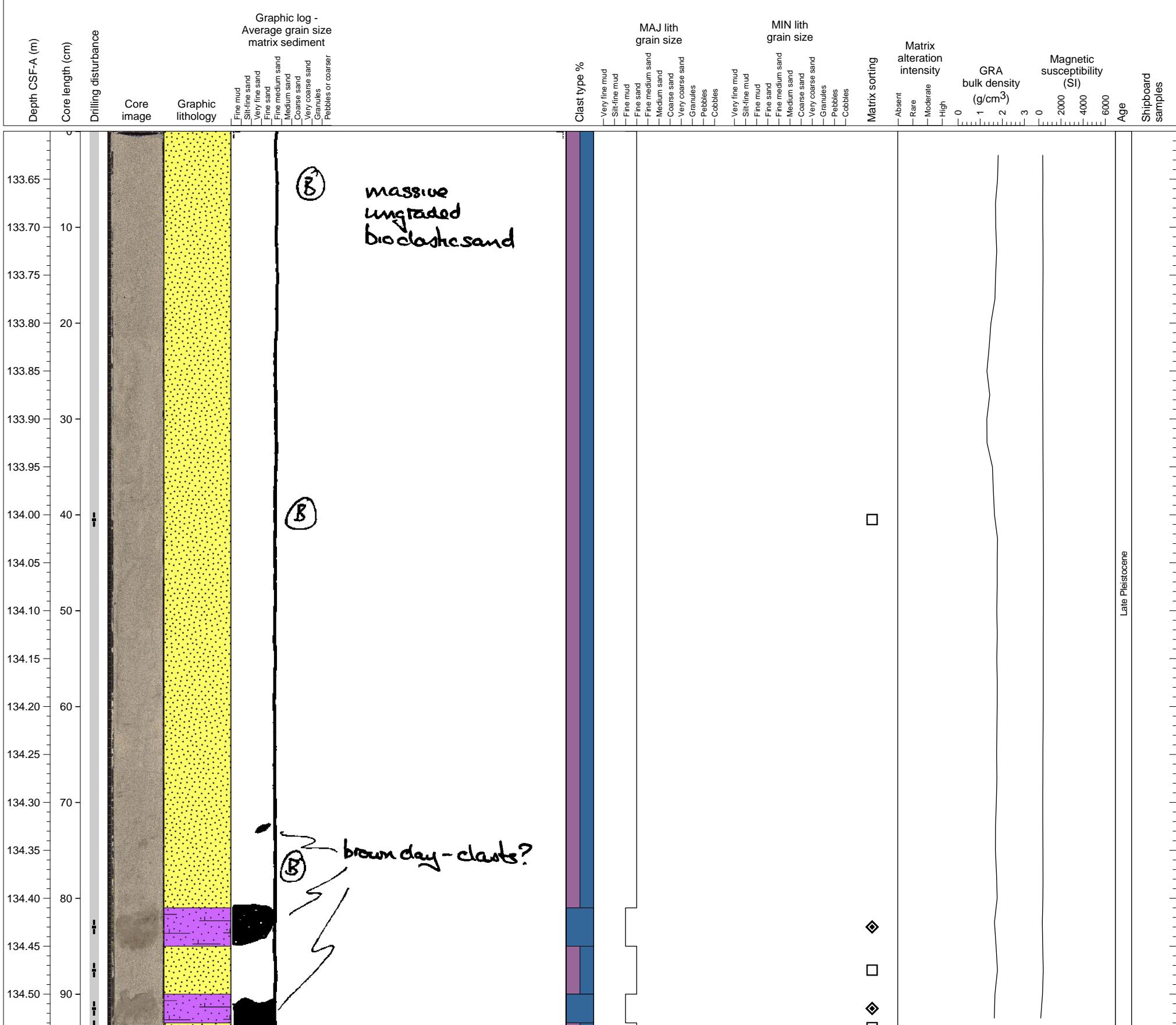
Slightly heterogeneous hemipelagic carbonate clay with very poorly sorted dark gray colored (andesitic) volcaniclastic sandy patches (ash ?).



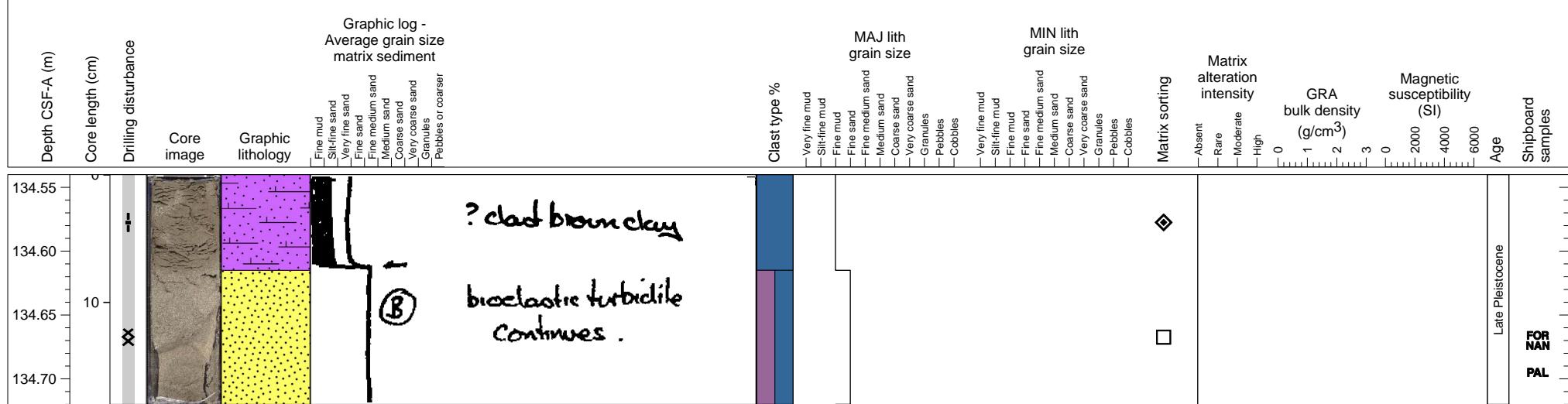
Massive bioclastic sand with igneous and biogenic clasts.



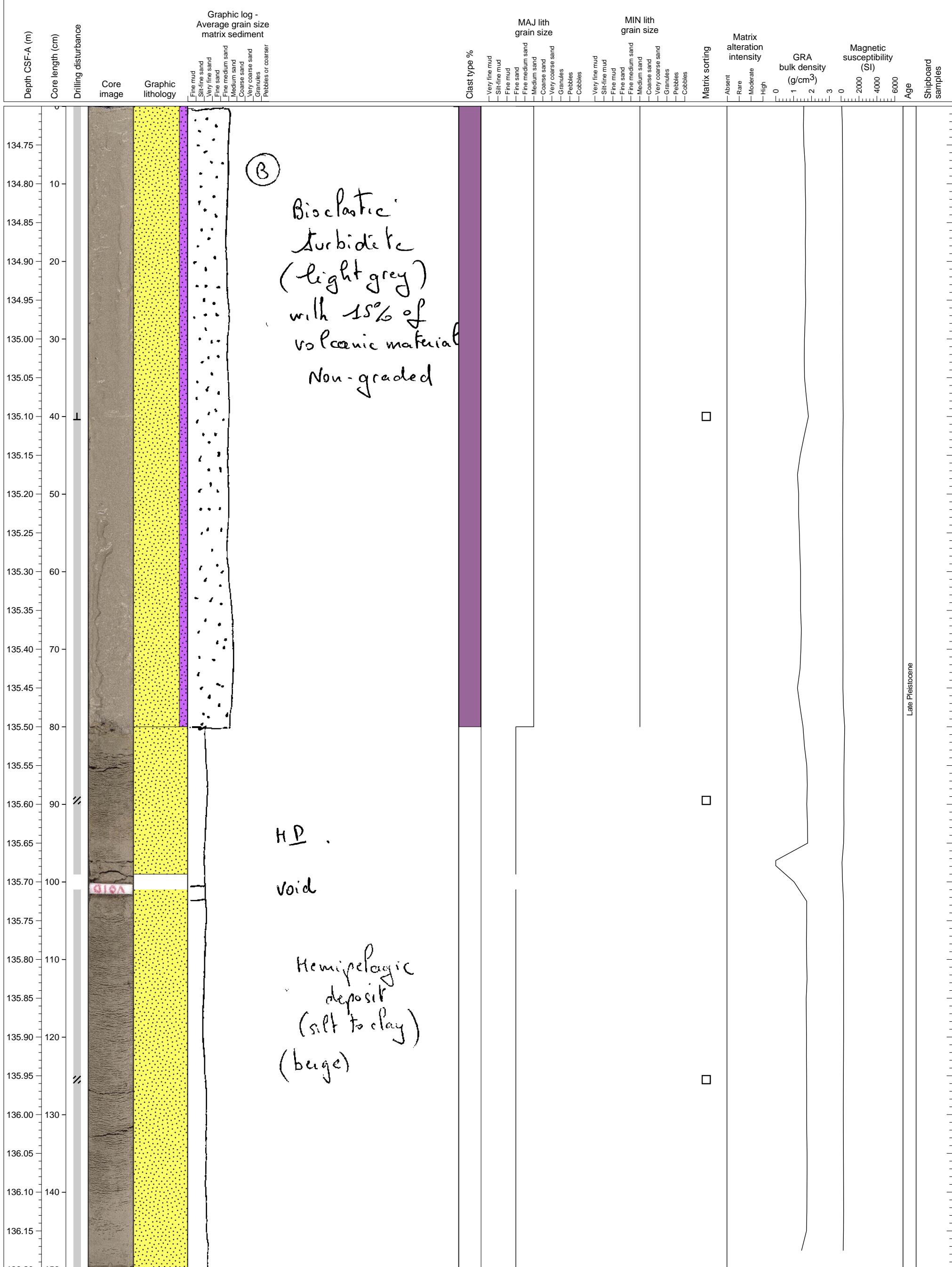
Alternating layers of bioclastic sand and volcaniclastic mud.



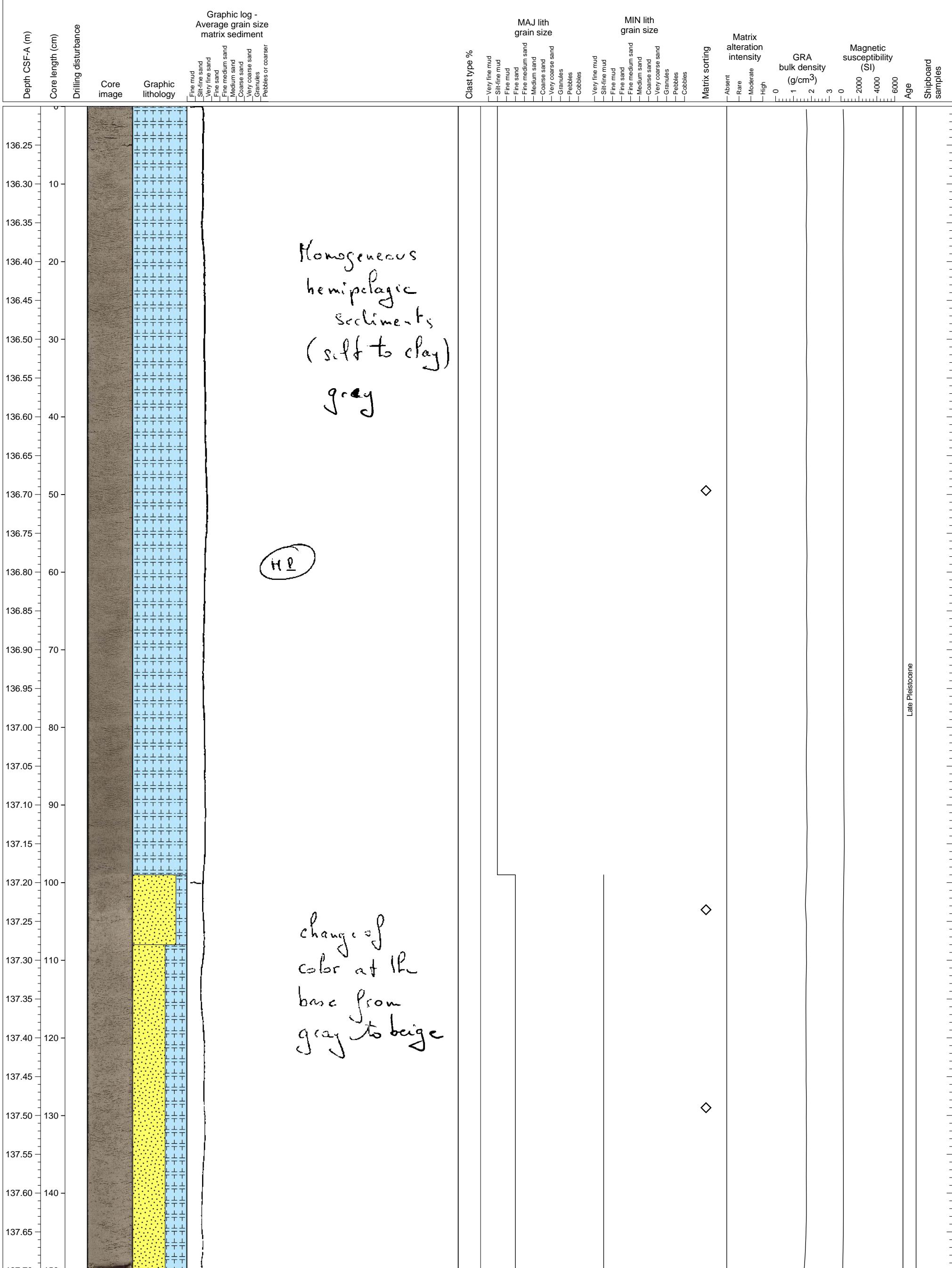
Interlayered volcanioclastic mud and bioclastic sand.



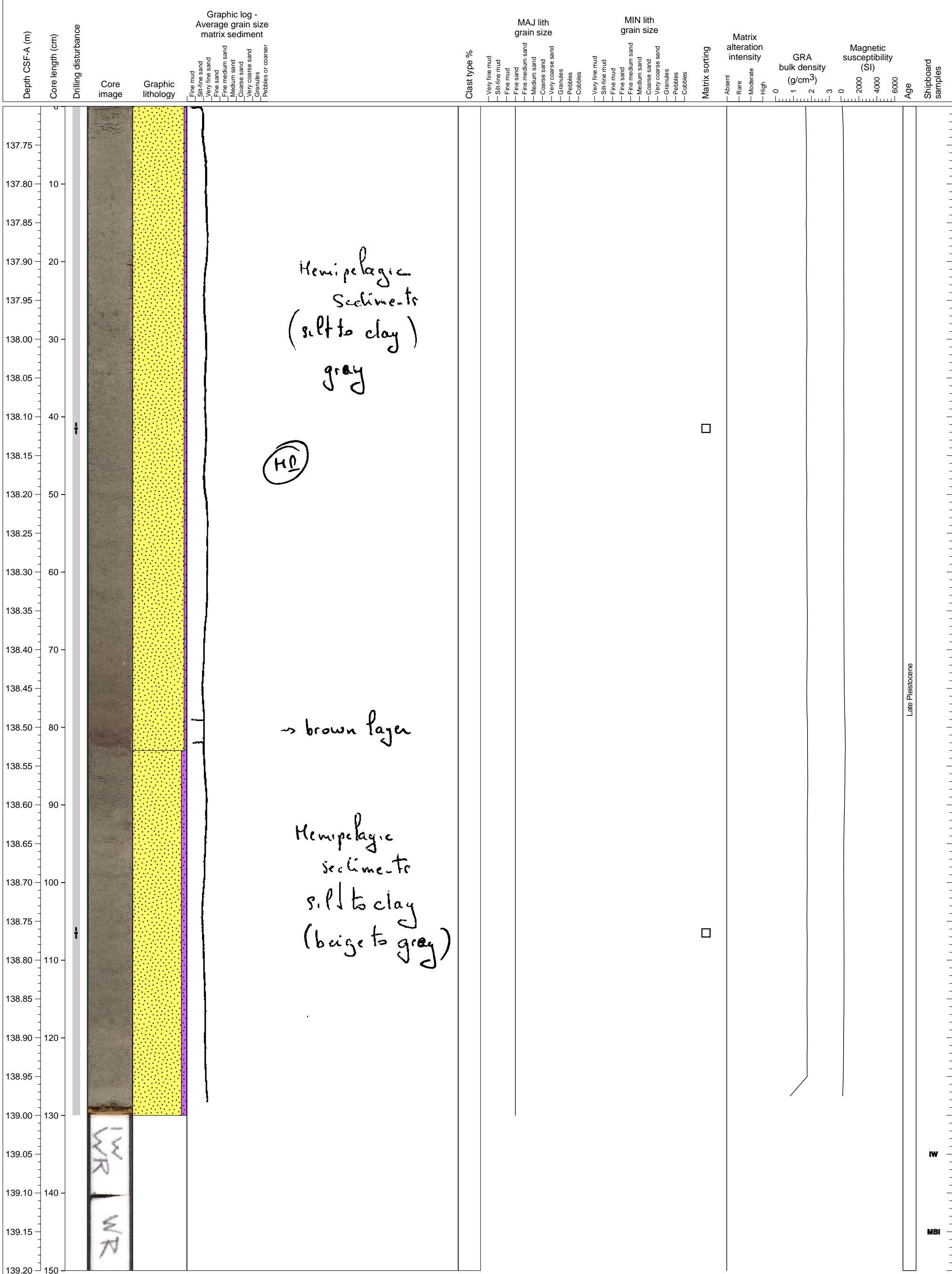
Upper 80 cm is a mixed bioclastic/volcaniclastic sand. Rest is calcareous sand/hemipelagic sediment. Both massive, well sorted.



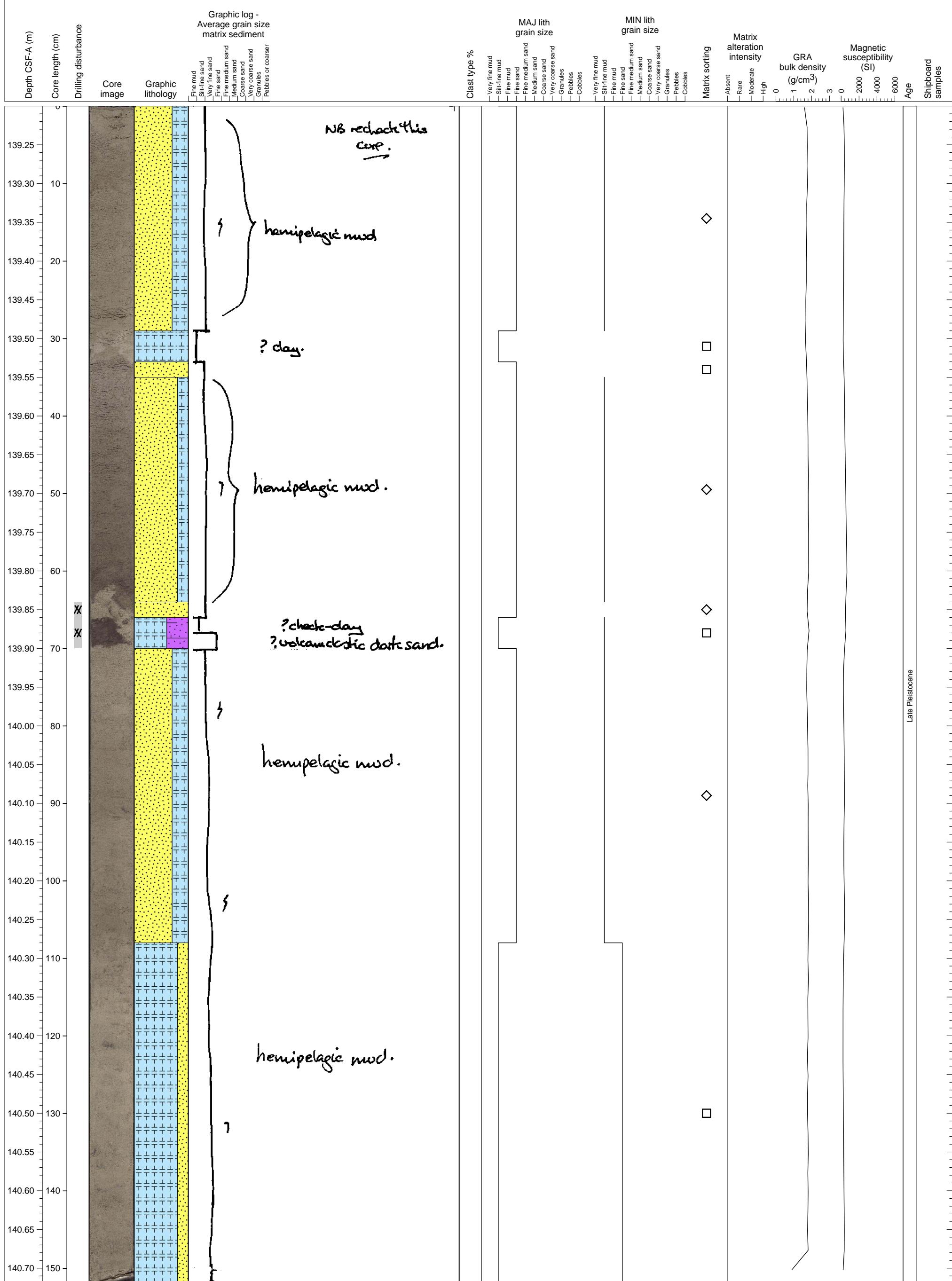
Hemipelagic sediment with a very small amount of volcaniclastic material; alternation of sand and silt.



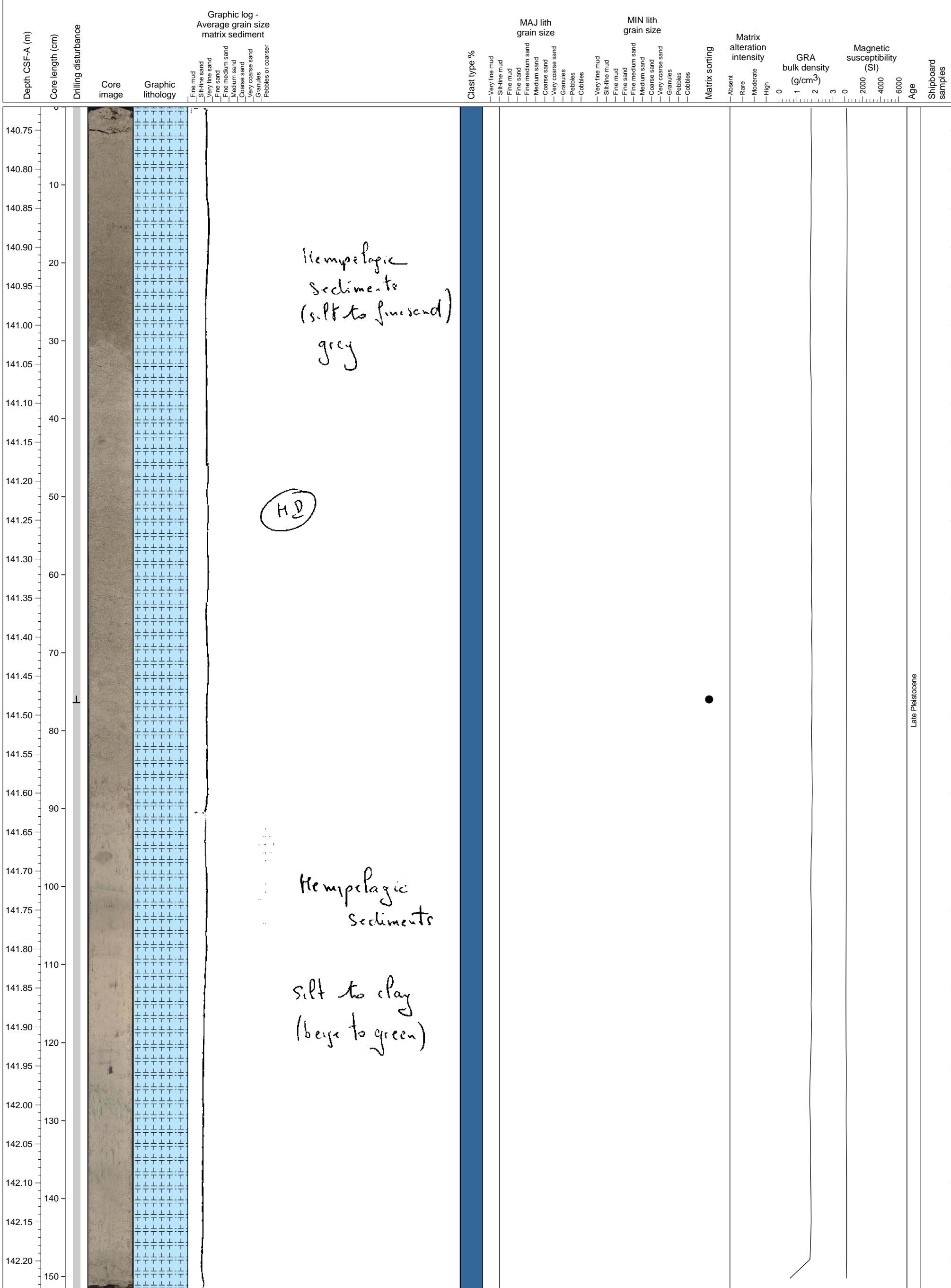
Mix bioclastic/volcaniclastic sands, predominantly bioclastic.



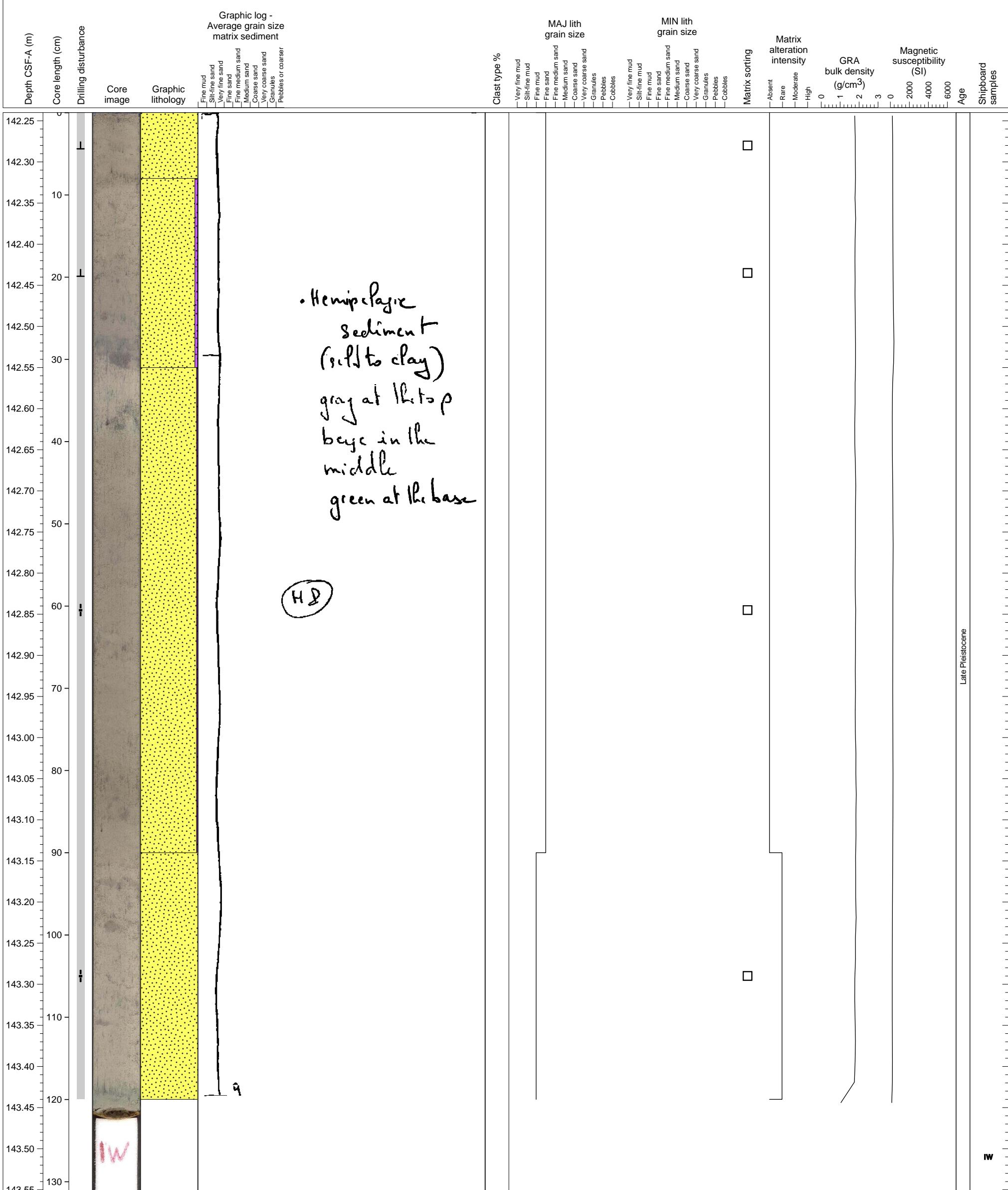
Hemipelagic sediments; diffuse laminae, thin alternation of sand and silt.



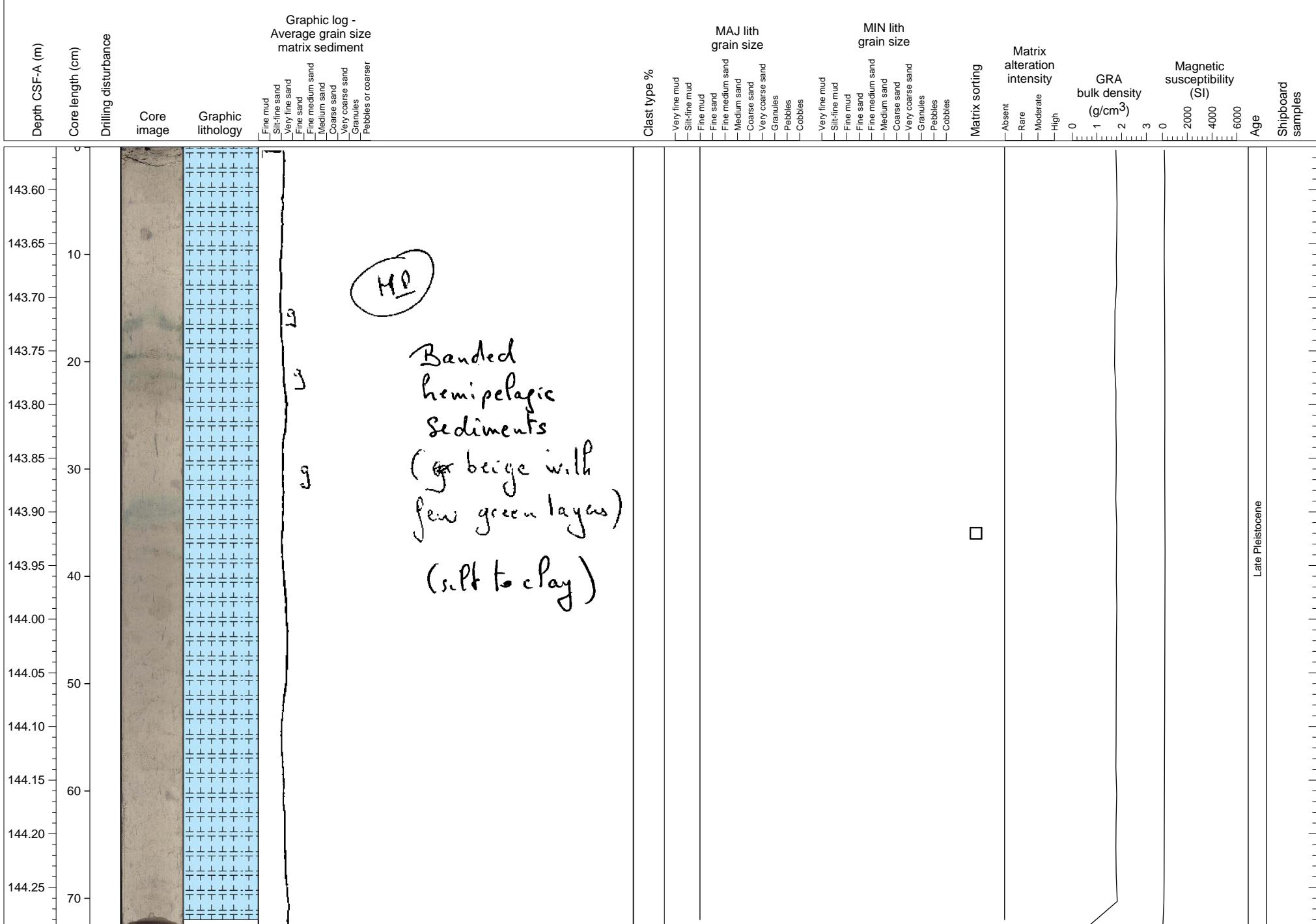
Hemipelagic sediment.



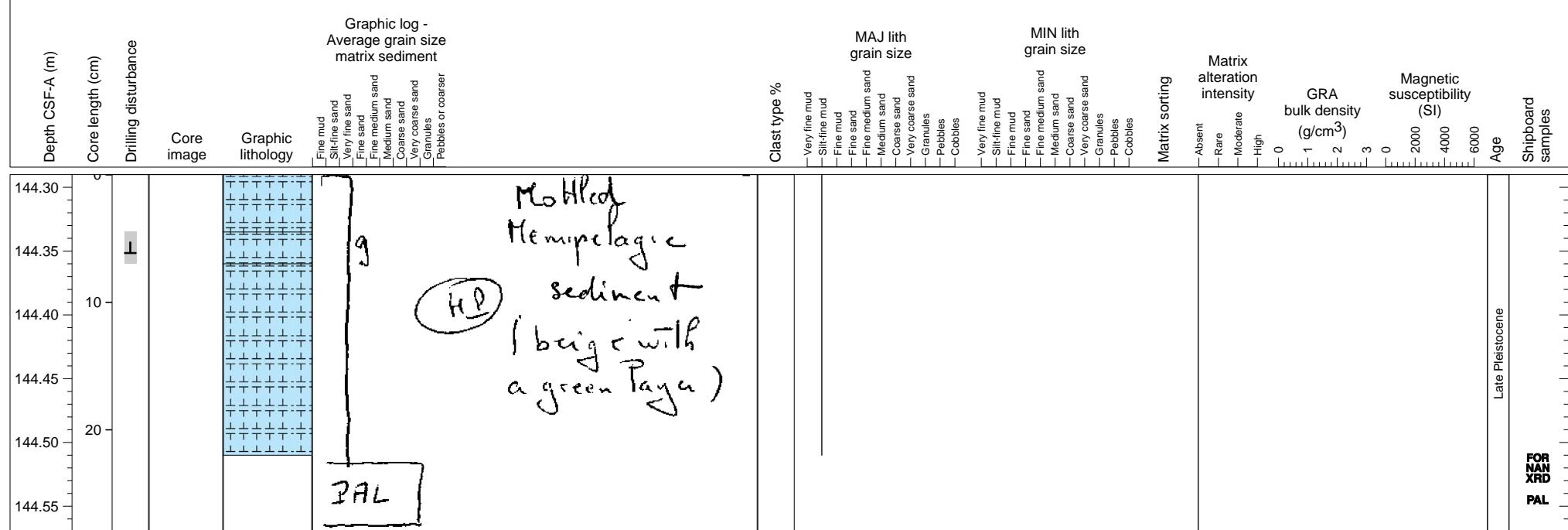
Mostly sandy hemipelagic sediments with two mixed bio/volcaniclastic sands in middle.



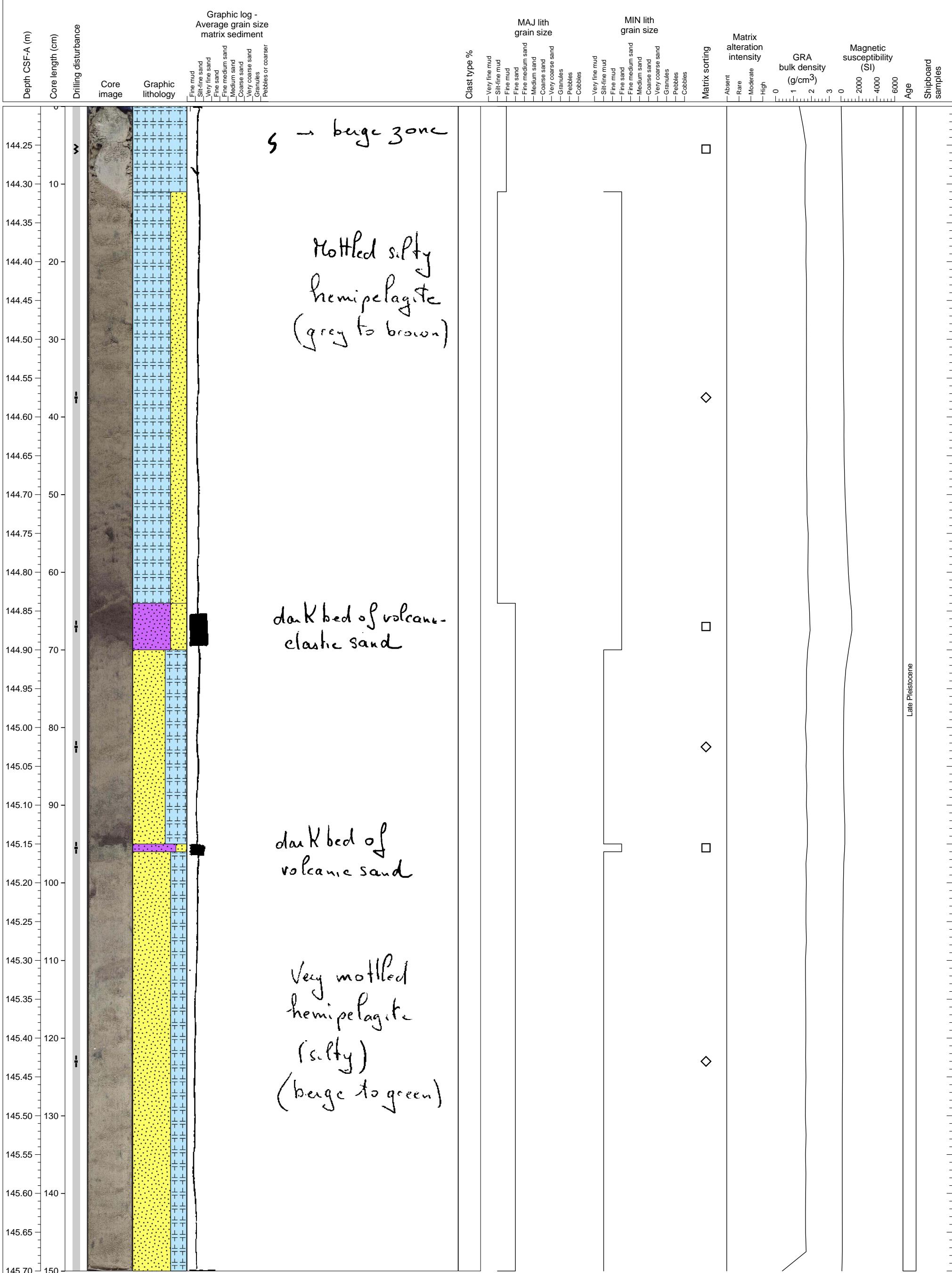
Hemipelagic ooze with several thin green layers intercalation at horizon of 17 cm, 19.5 cm, 22 cm, 34 cm.



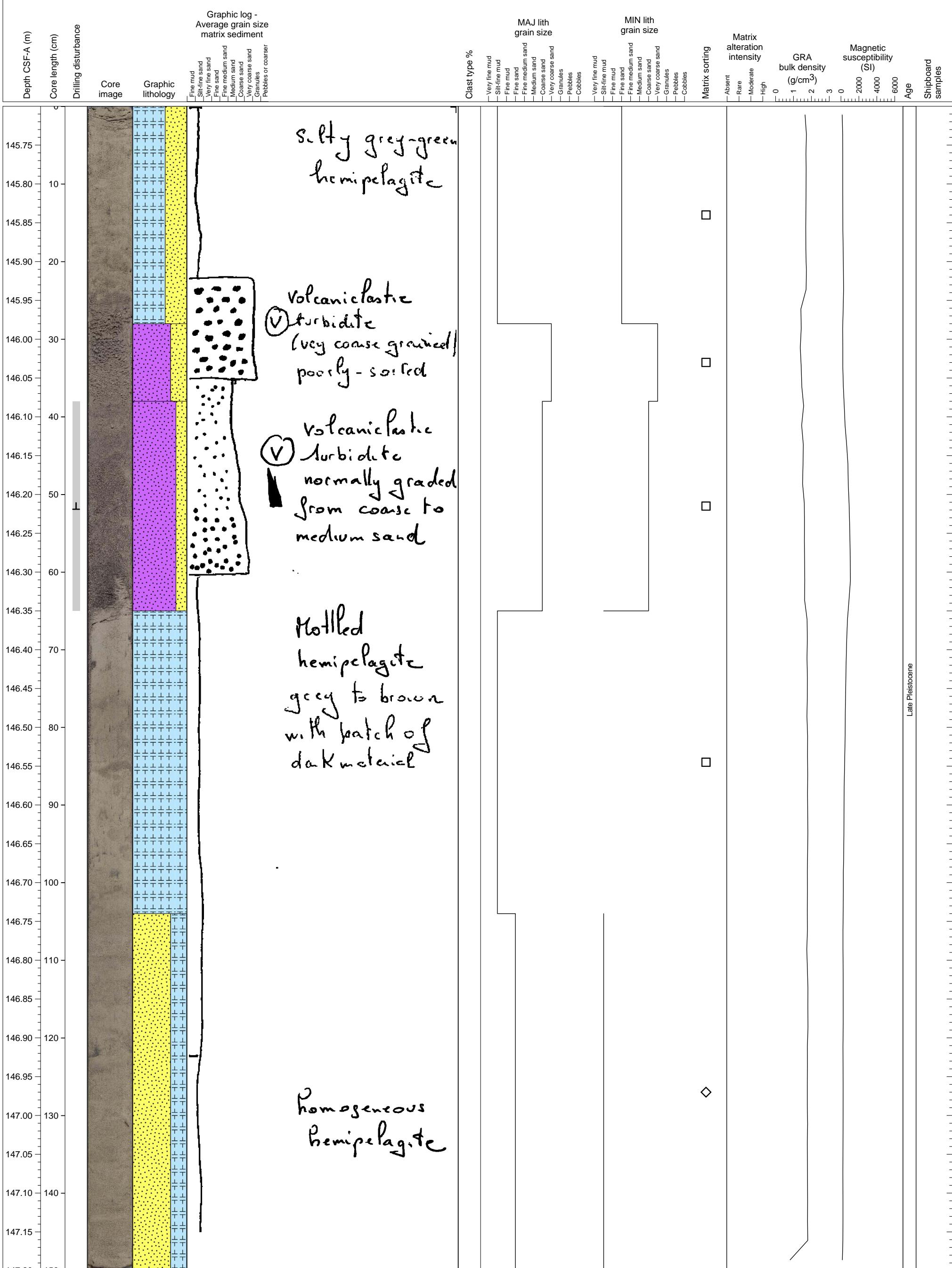
Hemipelagic sediment with some thin black streaks on surface. Slight disturbance due to cutting.



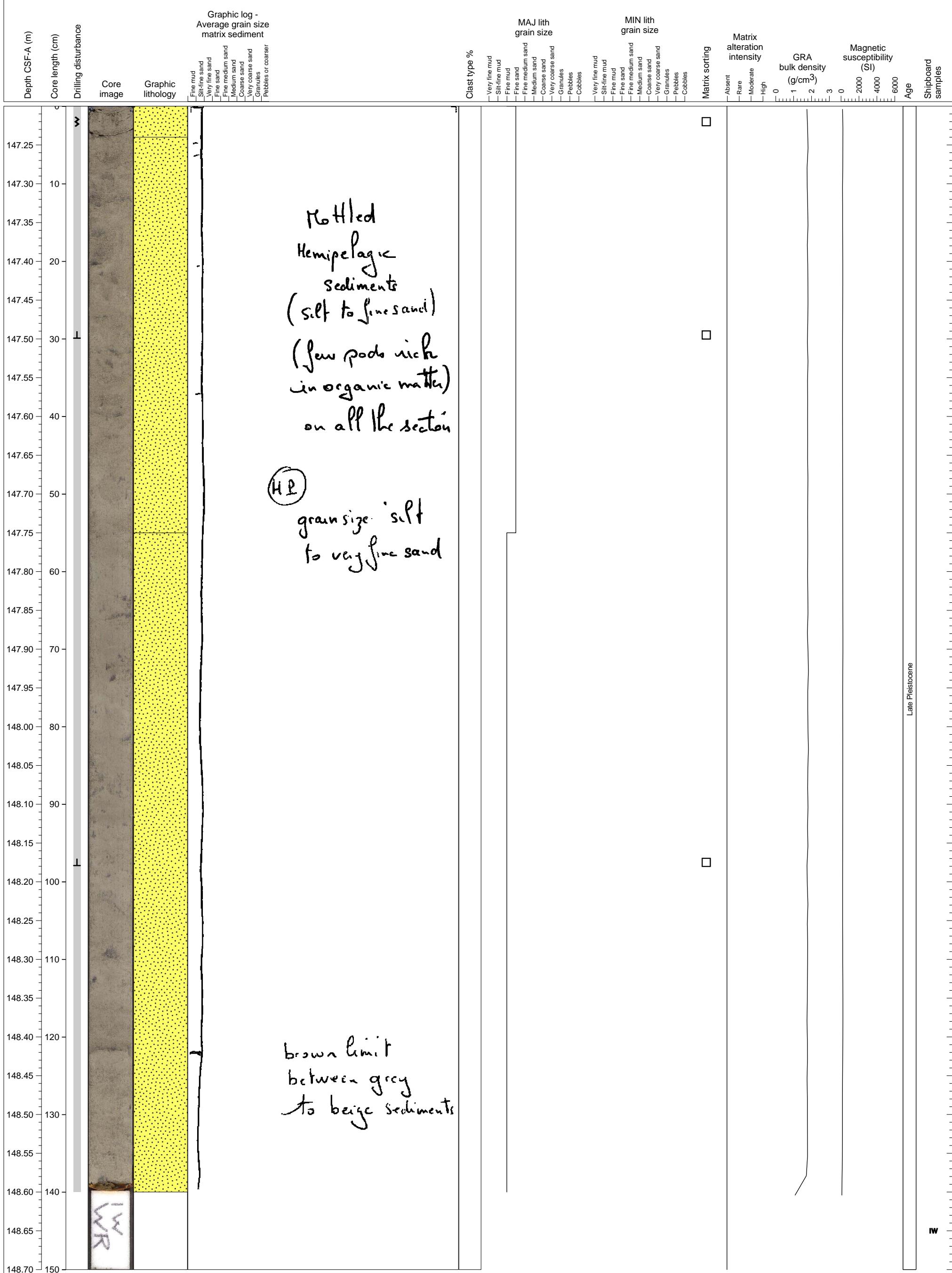
Weakly laminated hemipelagic sediments with thin (less than 6 cm thick) volcaniclastic sediment layers.



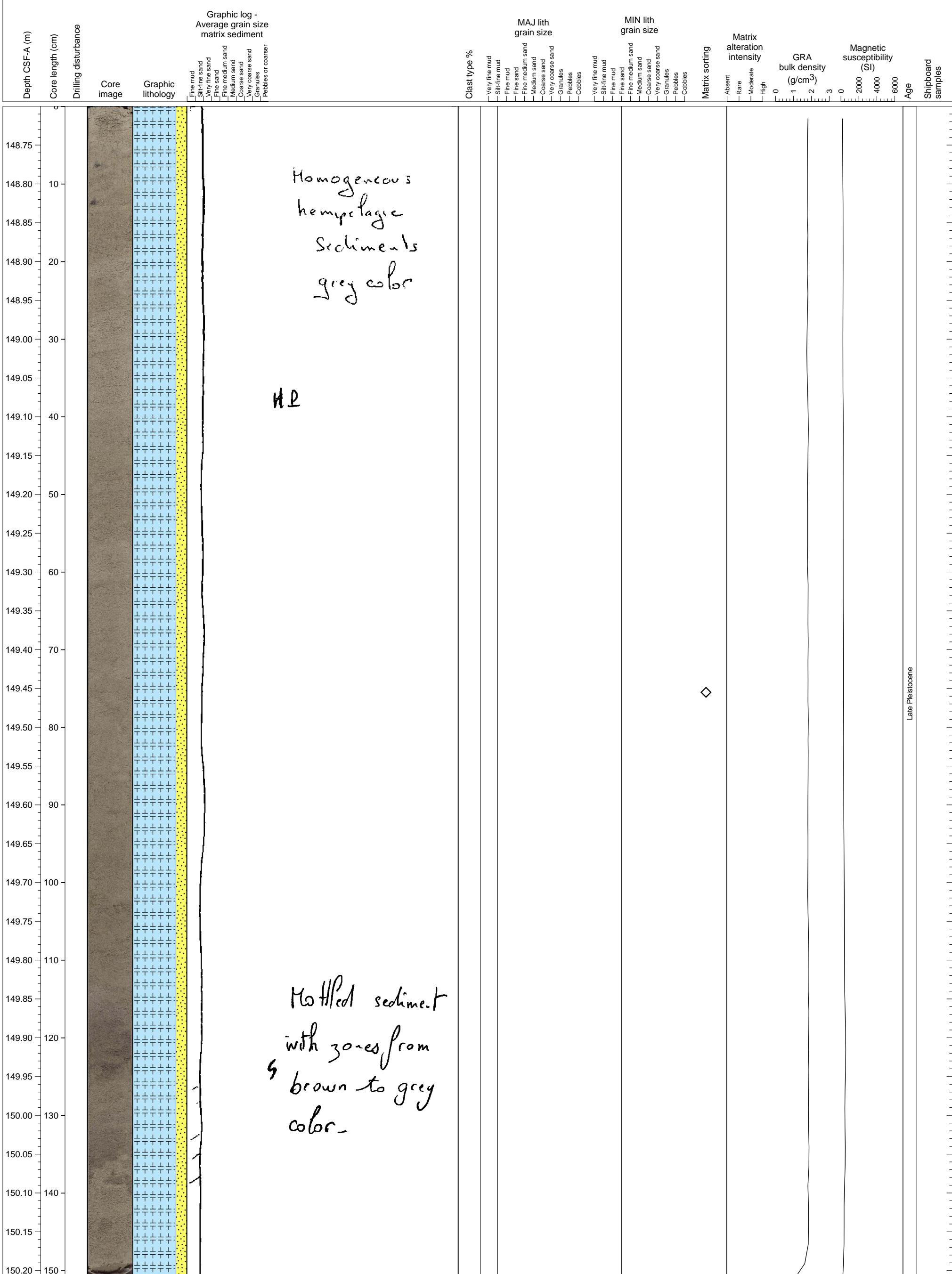
Hemipelagic sediments, diffuse alternation of silt and sand, intercalated with turbidite.



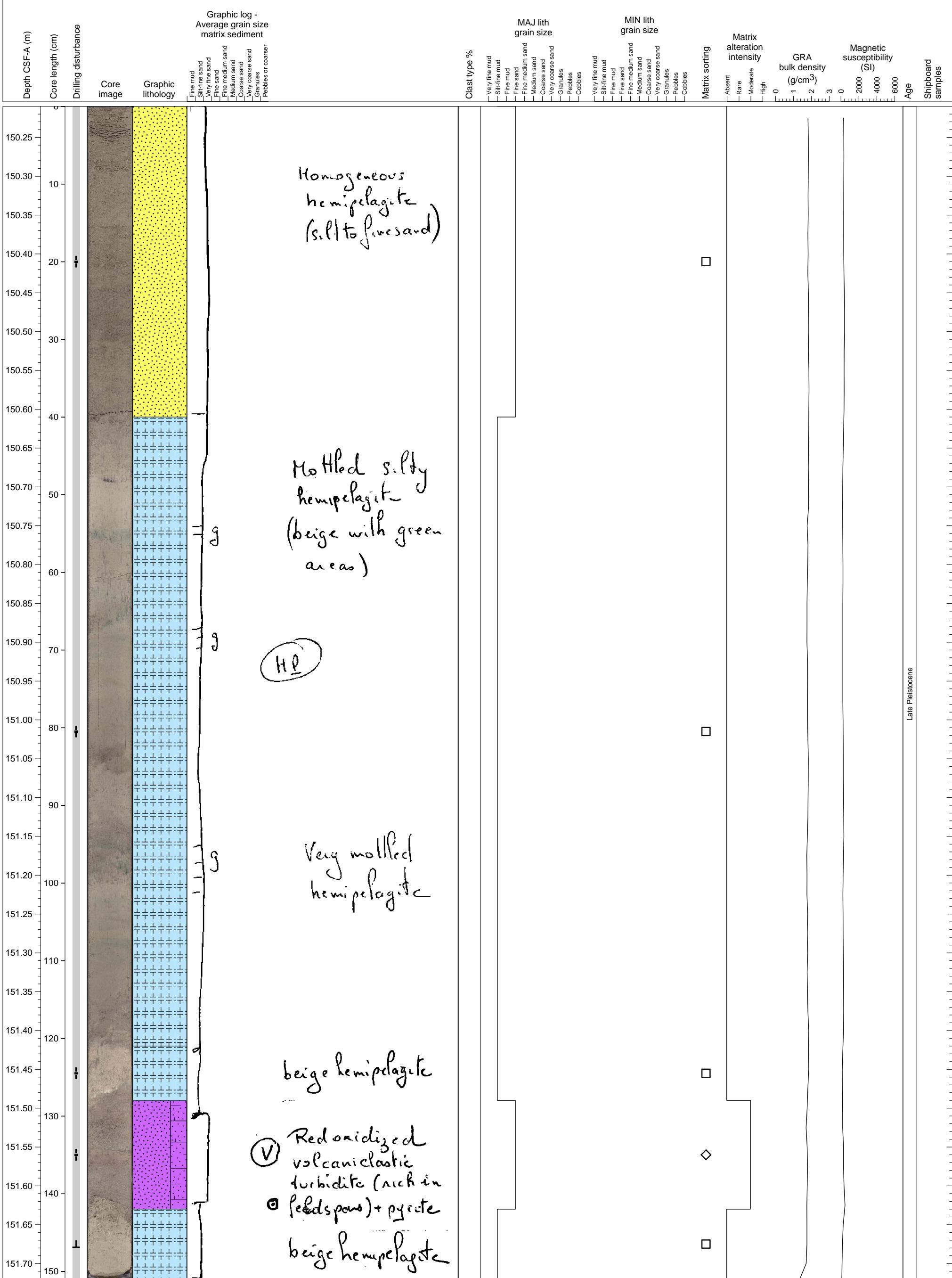
Hemipelagic sediments with occasional patches of black organic matter. Slight disturbance due to core splitting.



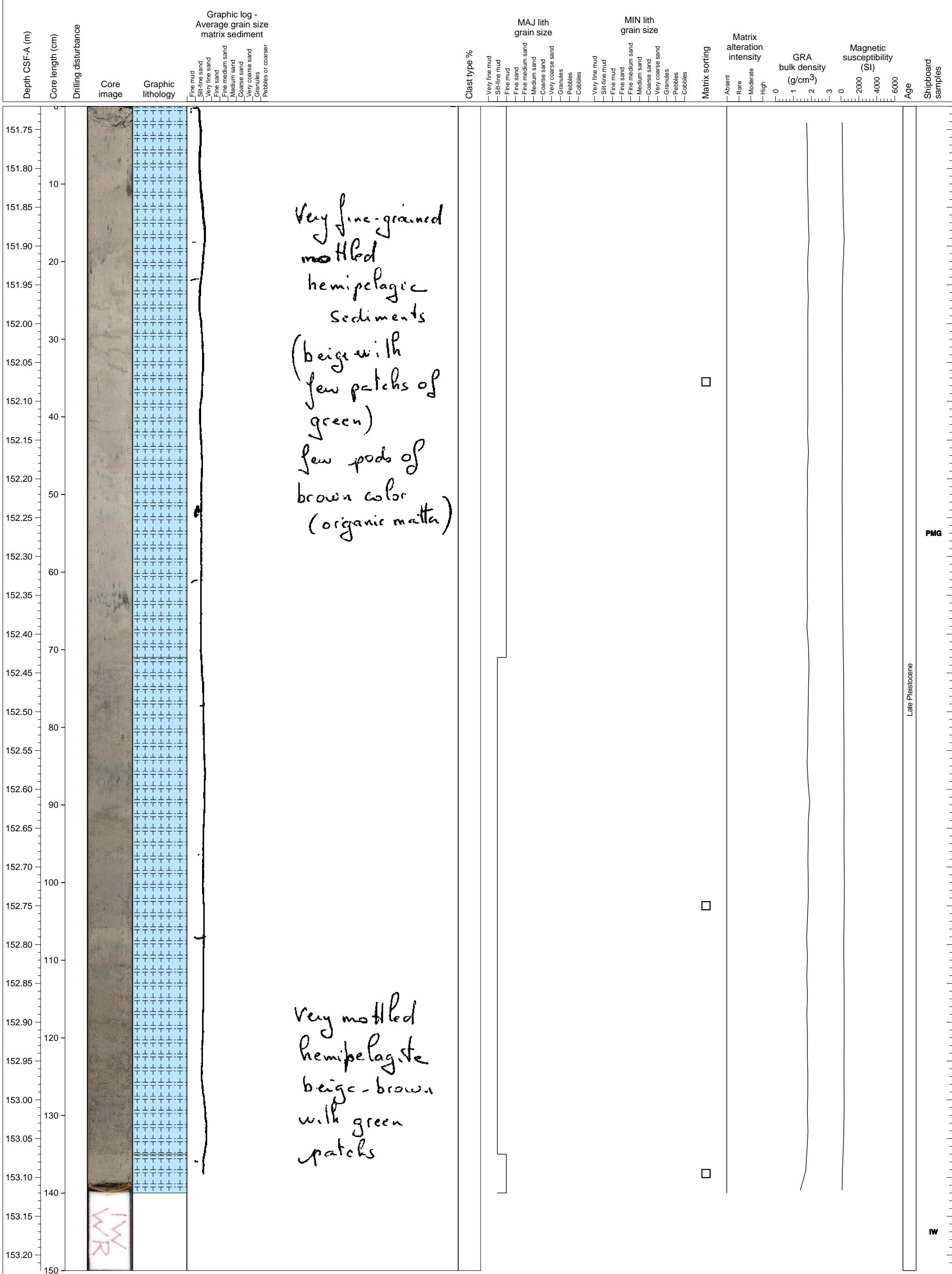
Hemipelagic silty sediments with very fine sand; dark colored part with deformation or bioturbation? is present at a horizon between 103-140 cm.



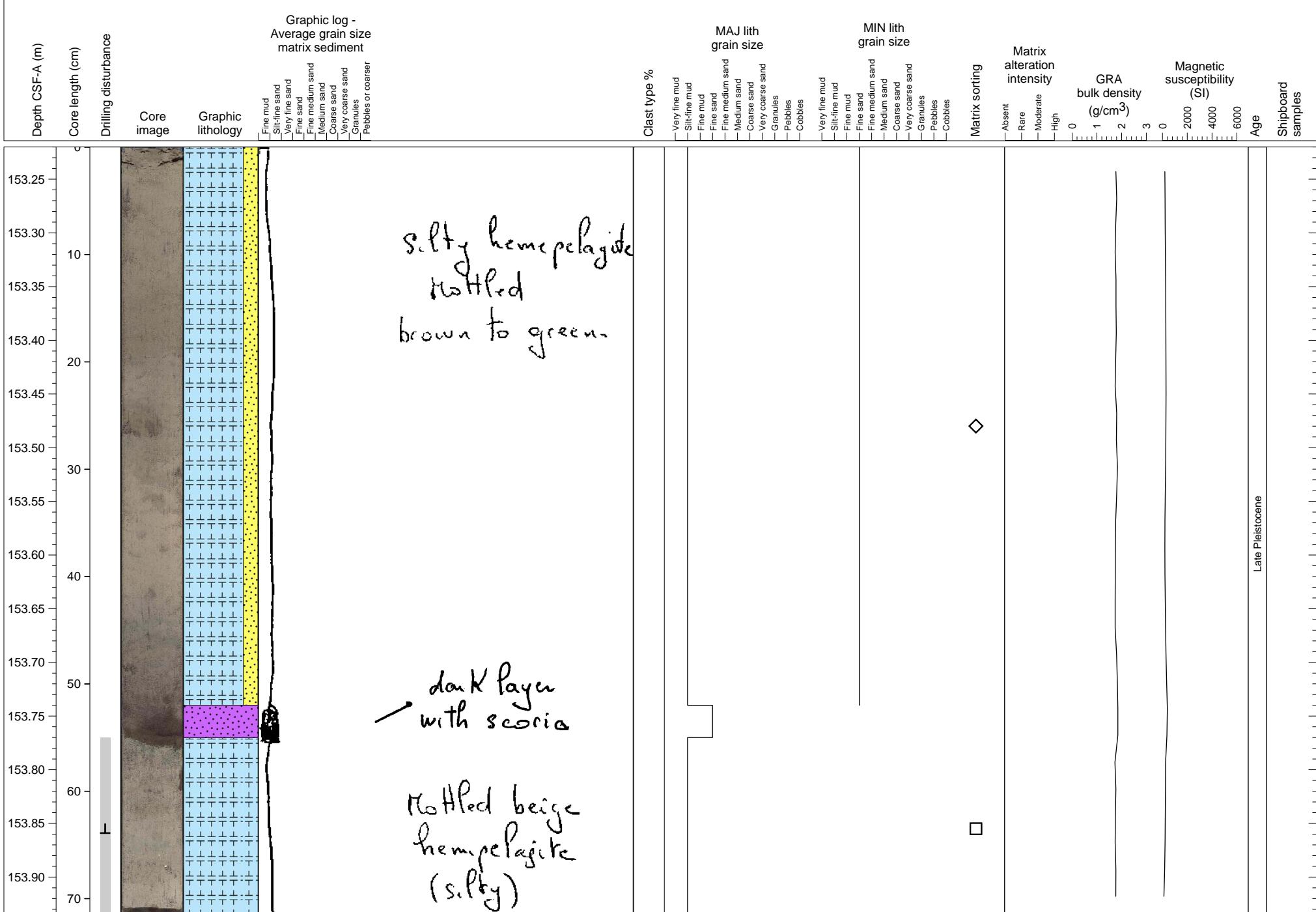
Weakly laminated hemipelagic sediments intercalated by oxidized volcanoclastic turbidite layer (14 cm thick).



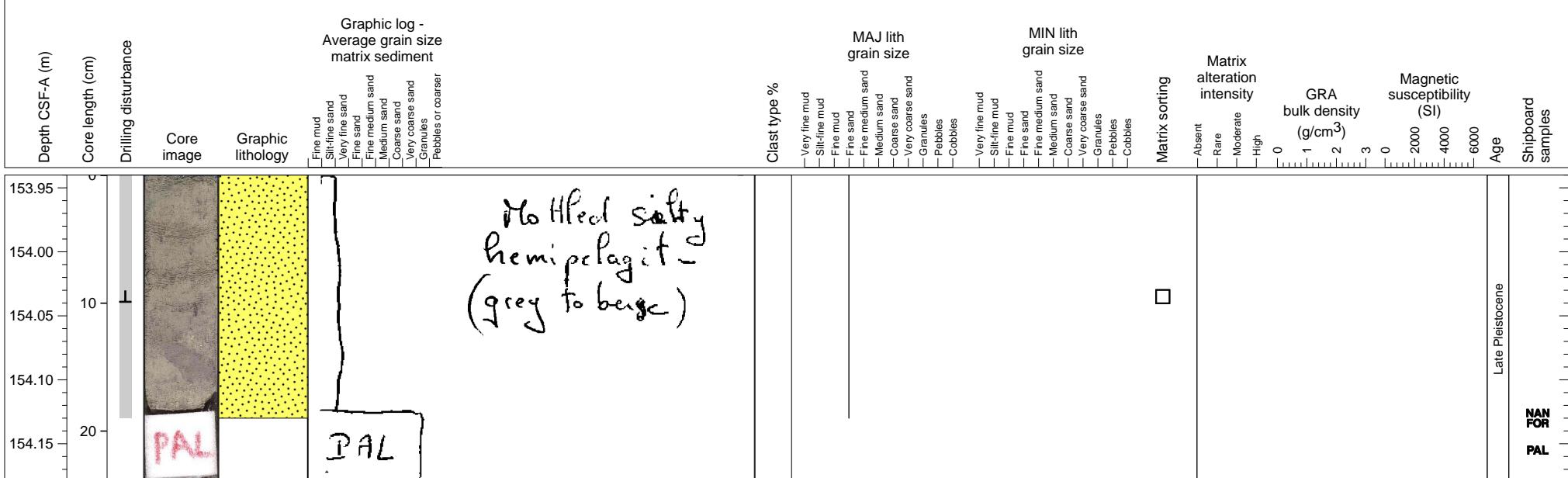
Grey colored hemipelagic sediments with intercalations of green patch or layers.



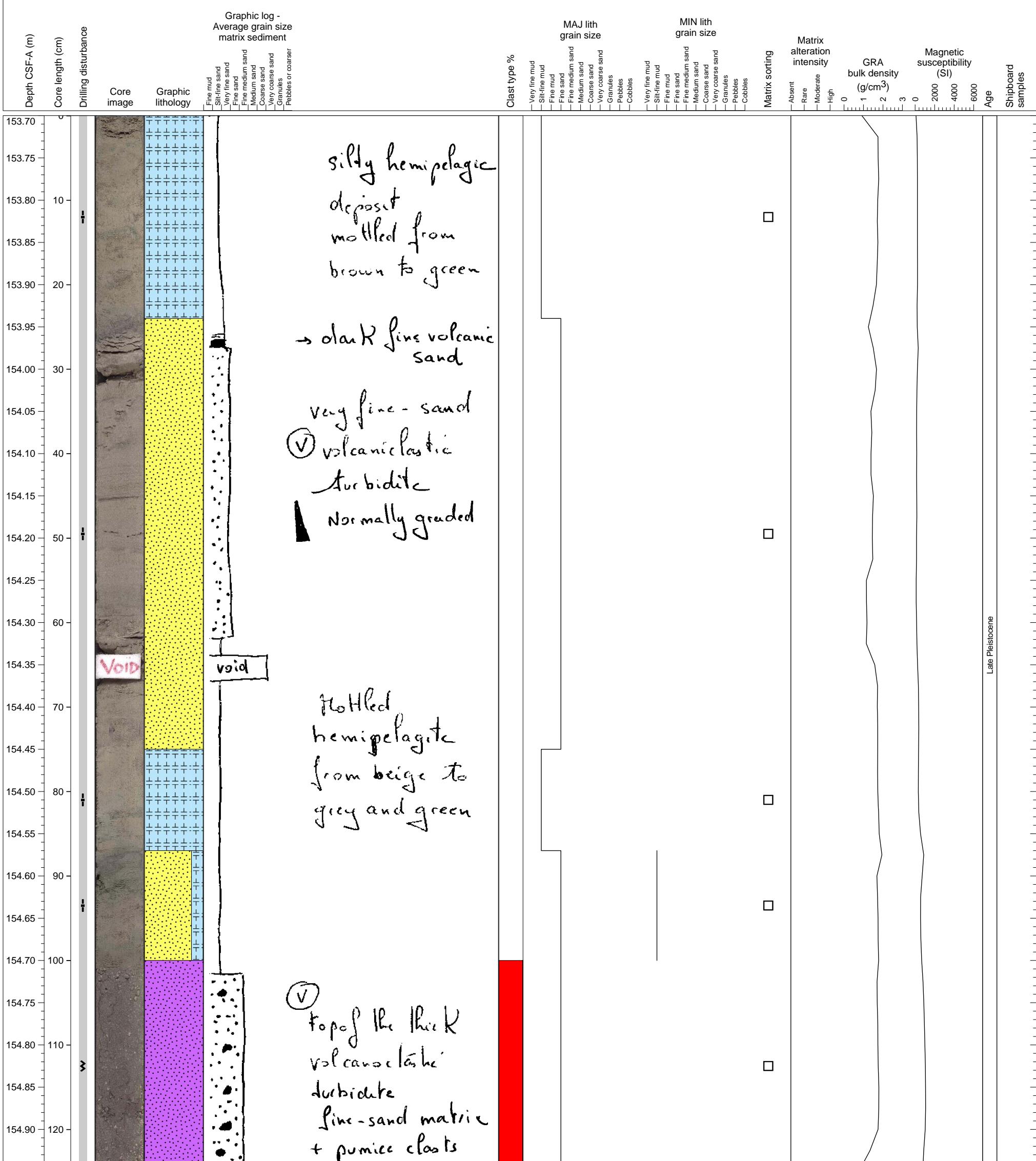
Hemipelagic sediments with one scoriaceous layer (3cm thick).



Hemipelagic sediment with patches of organic sediment and mottled coloration, from grey-brown to brown.



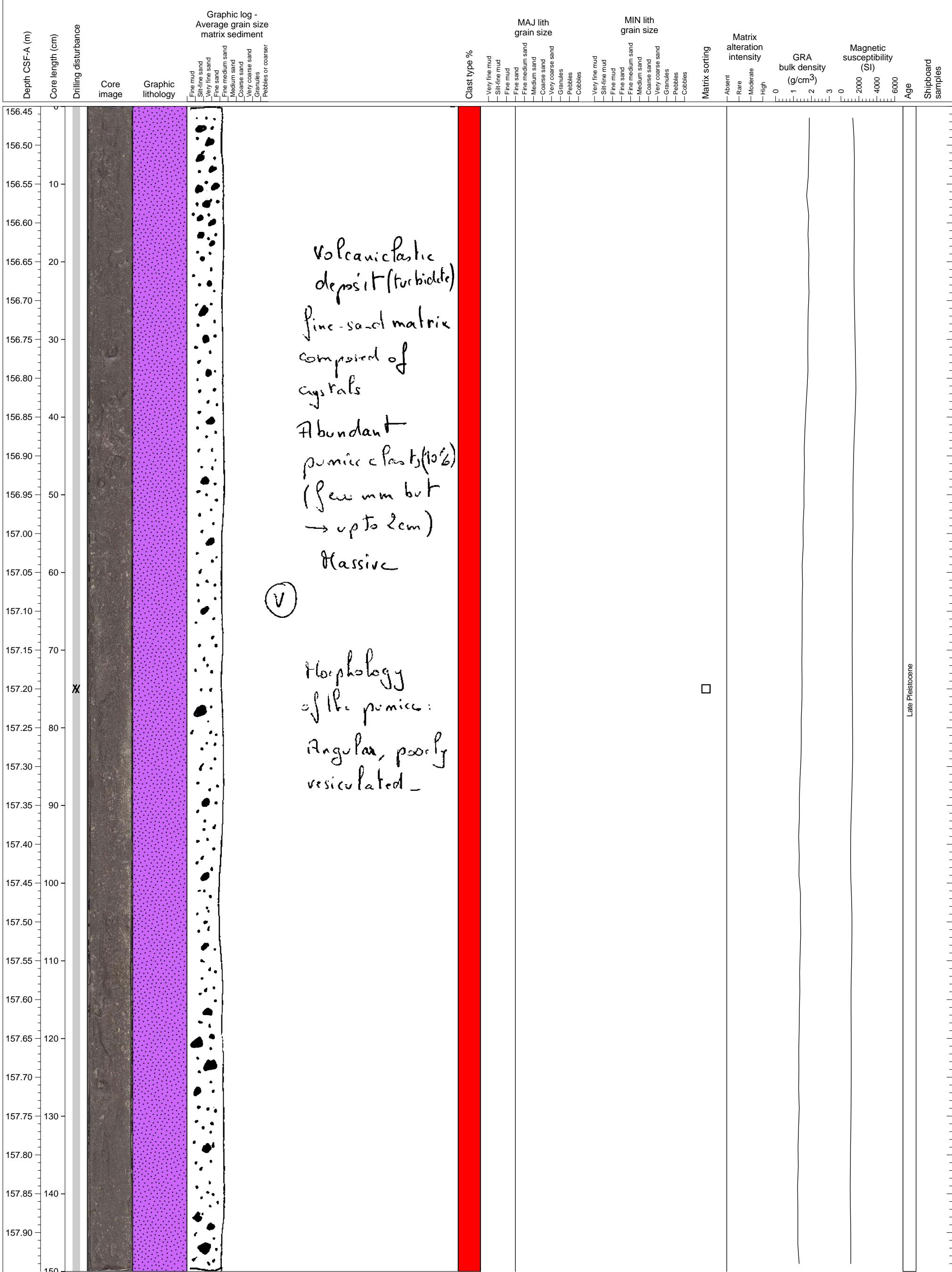
Weakly laminated hemipelagic sediments (>100 cm thick) underlain by volcanoclastic sand with granular pumice layer of > 26 cm thick.



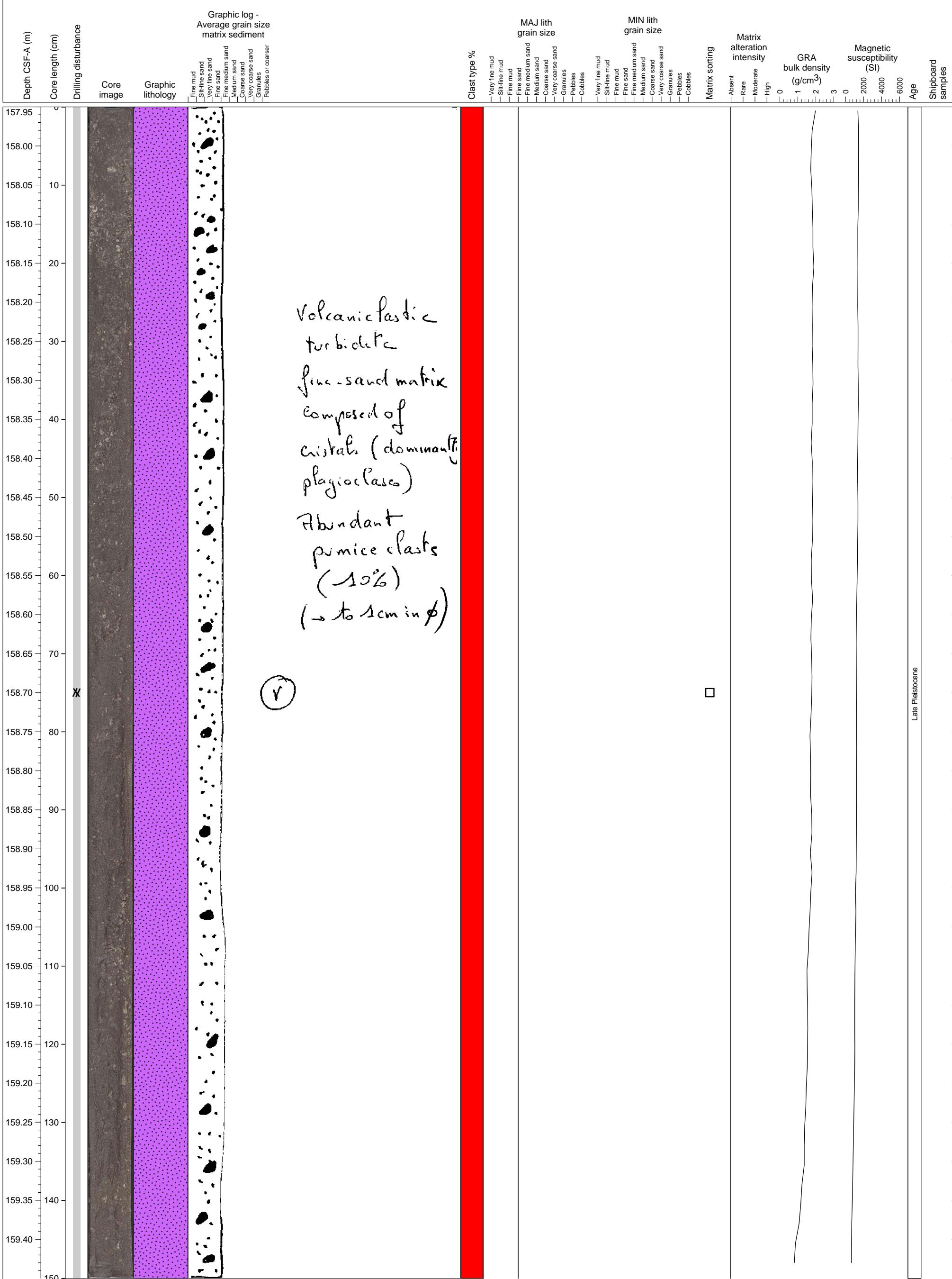
Soupy, grey colored volcanioclastic fine sand, with white pumice clasts (2 mm-2 cm size).



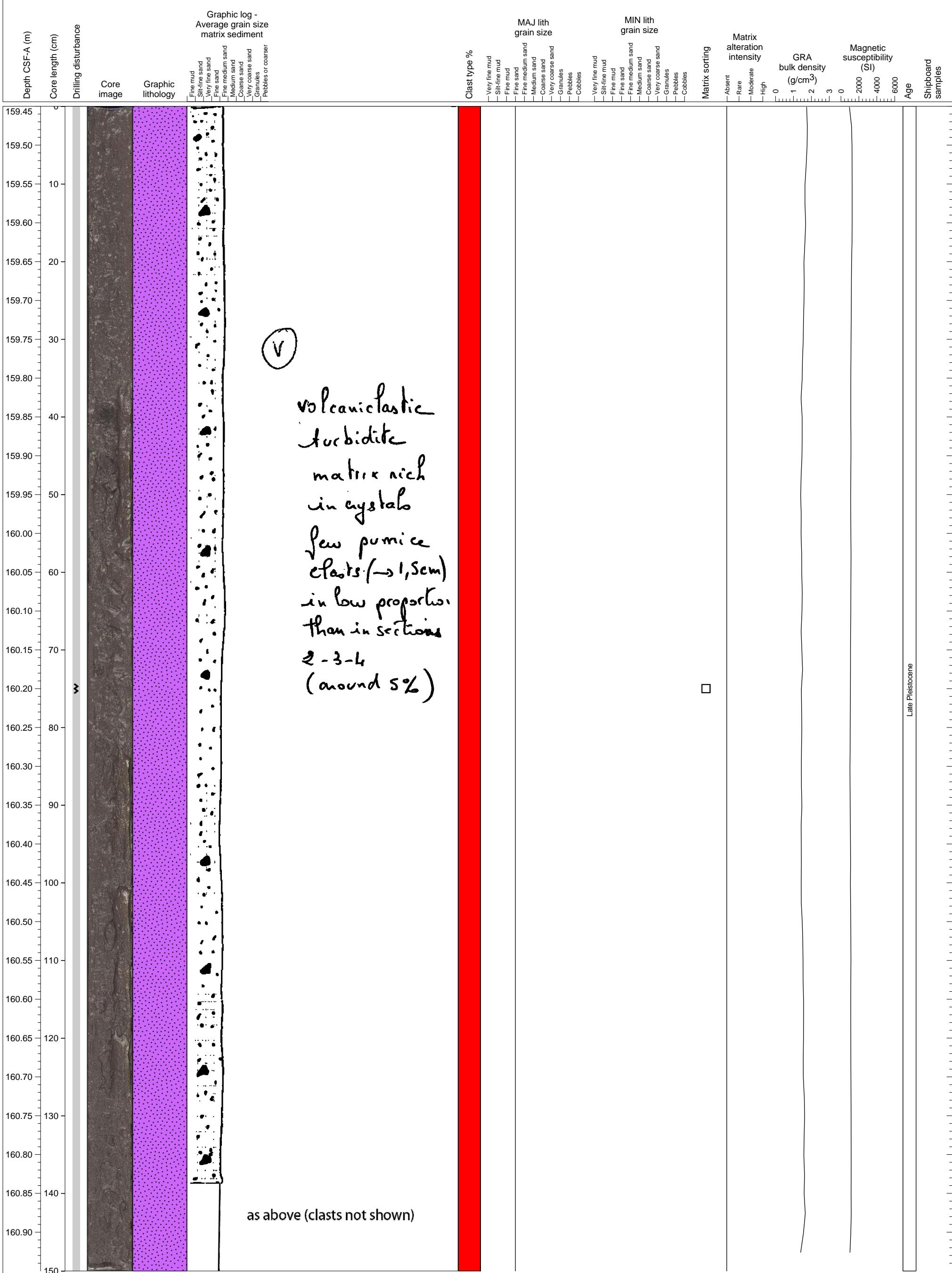
Soupy, grey colored volcanioclastic fine sand, with white pumice clasts (5 mm-1 cm size).



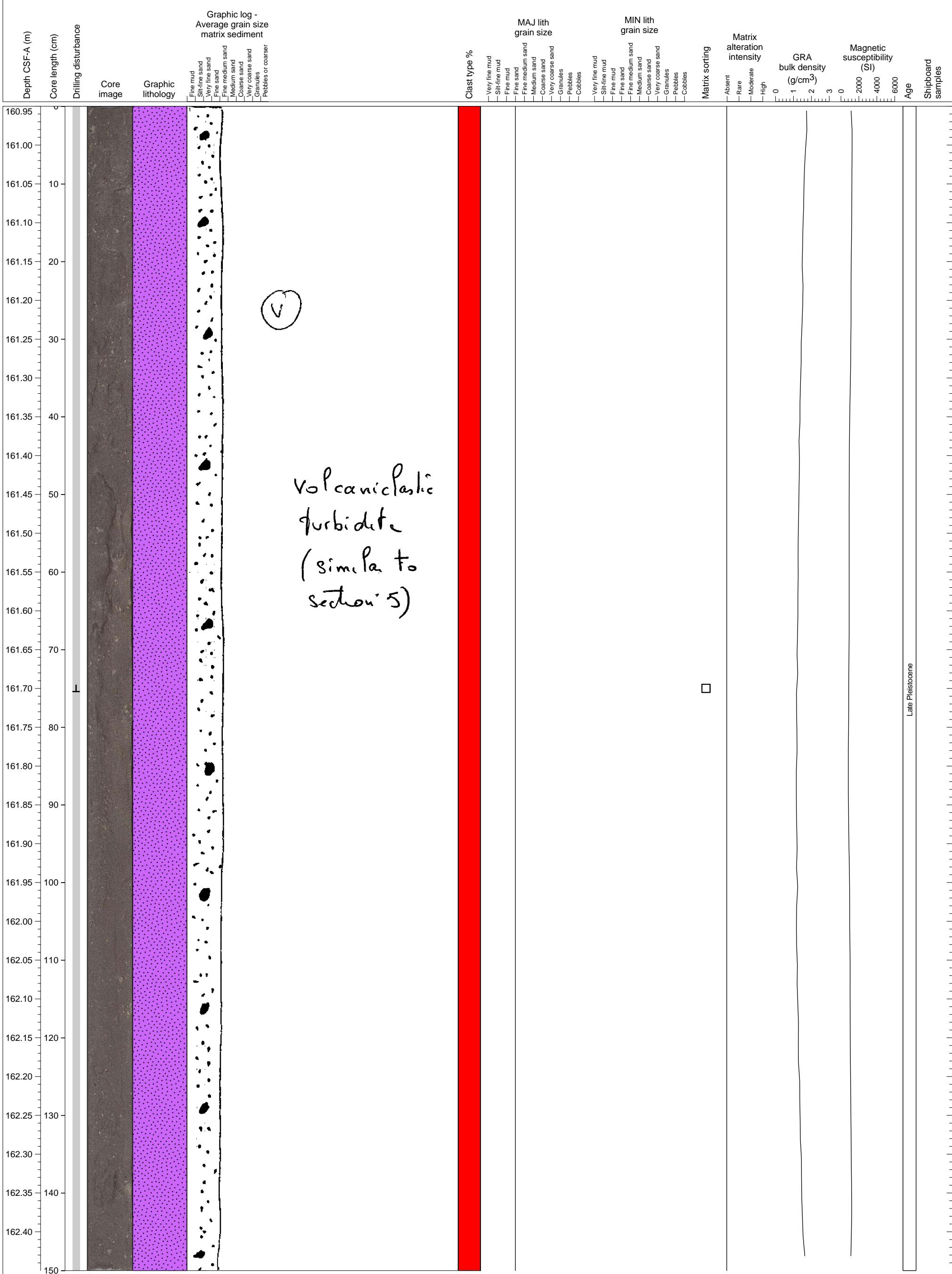
Volcaniclastic sand with 5 to 20% granular pumice clast.



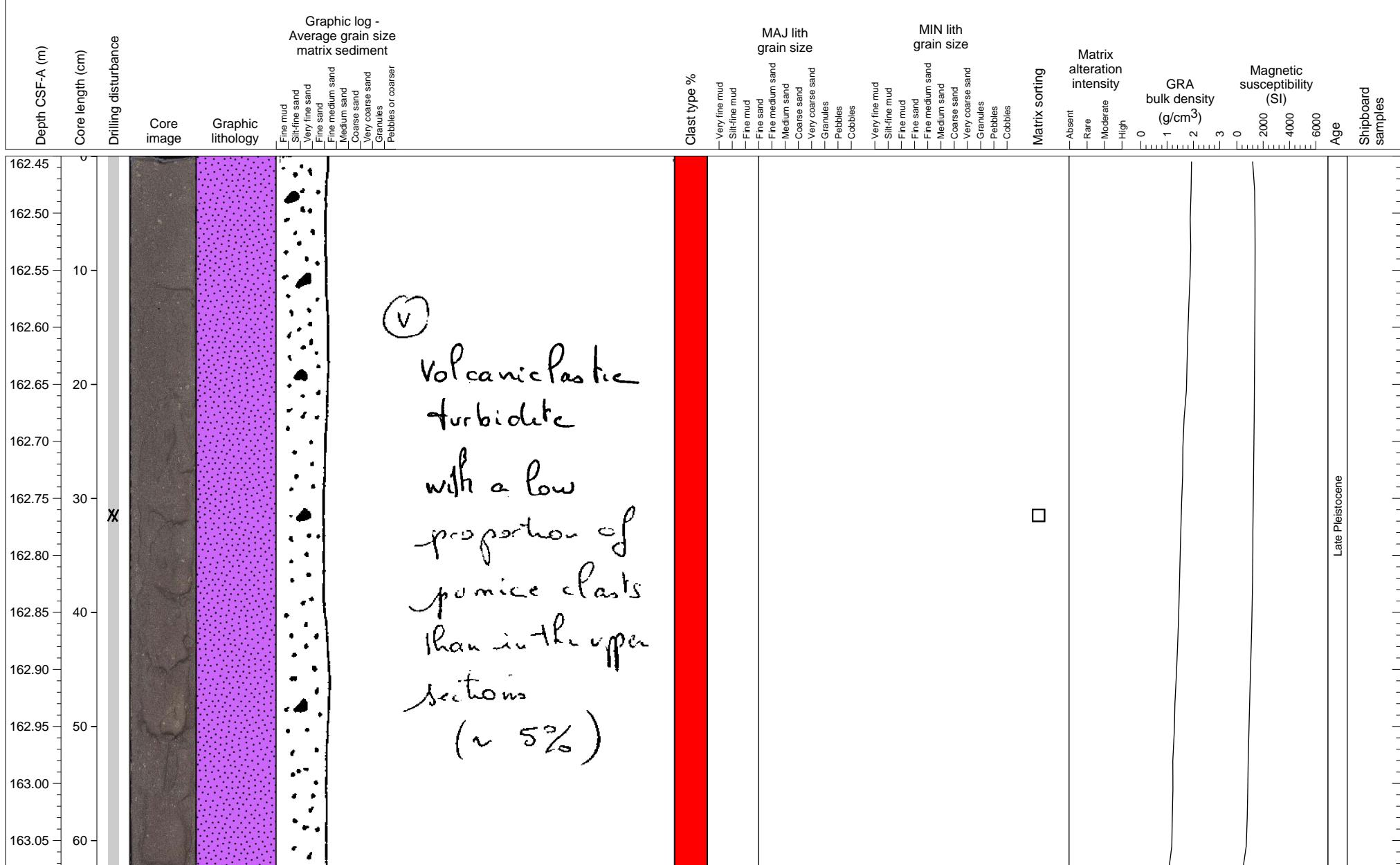
Volcaniclastic sand with 10% pumice clasts up to 15 mm.



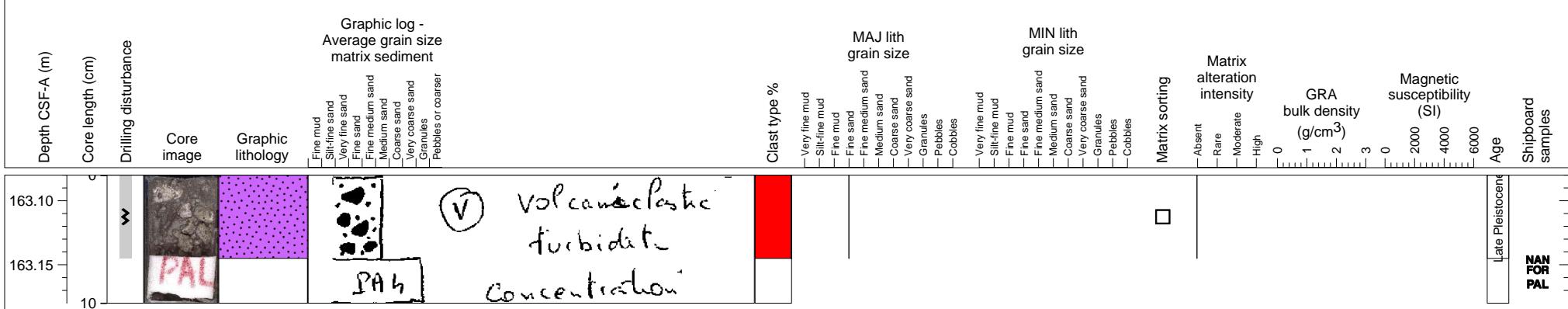
Volcaniclastic turbidite with pumice clasts up to 10 mm. Clasts poorly sorted.



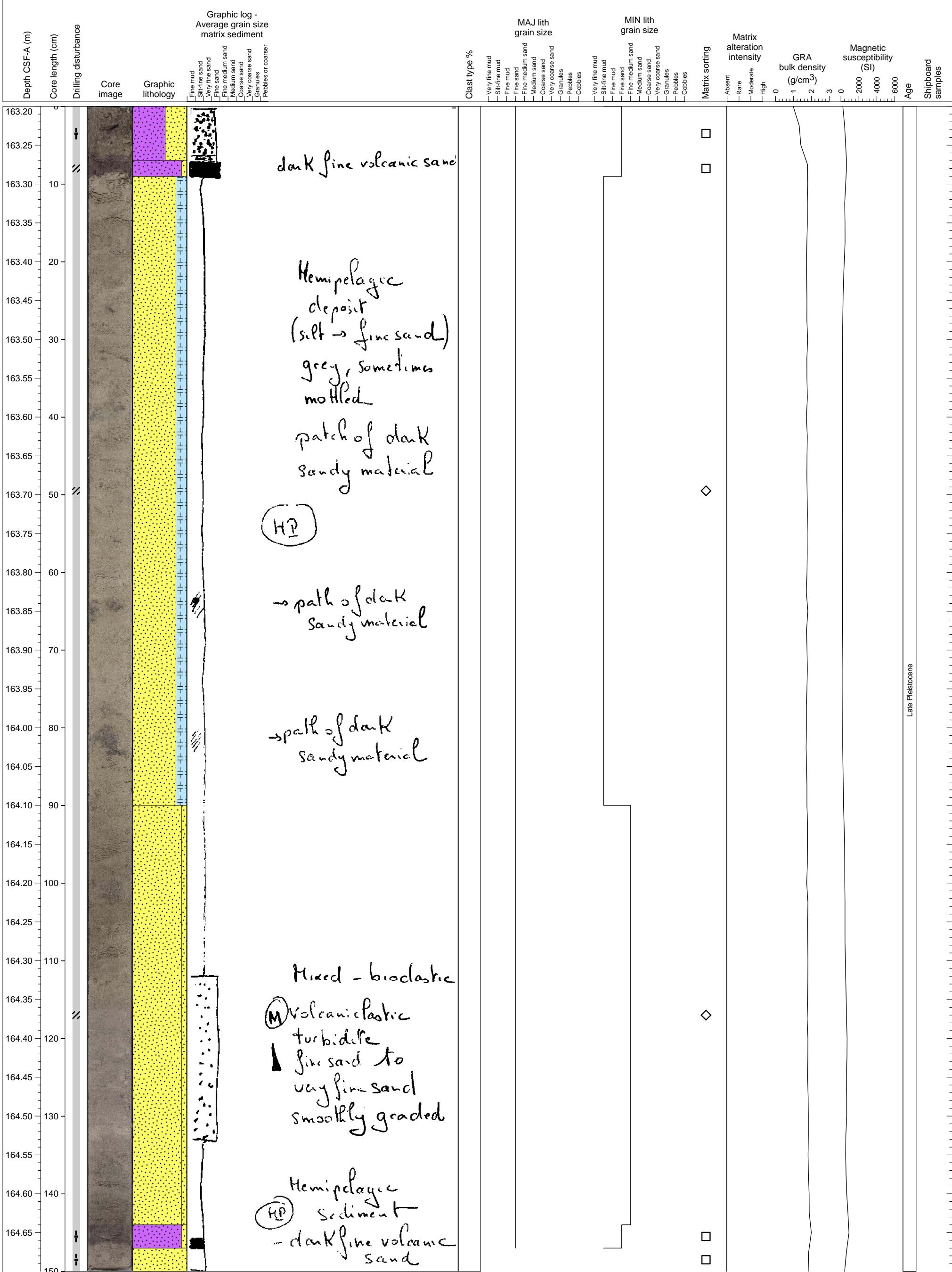
Soupy, grey colored volcaniclastic fine sand with white pumice clasts (up to 5mm size).



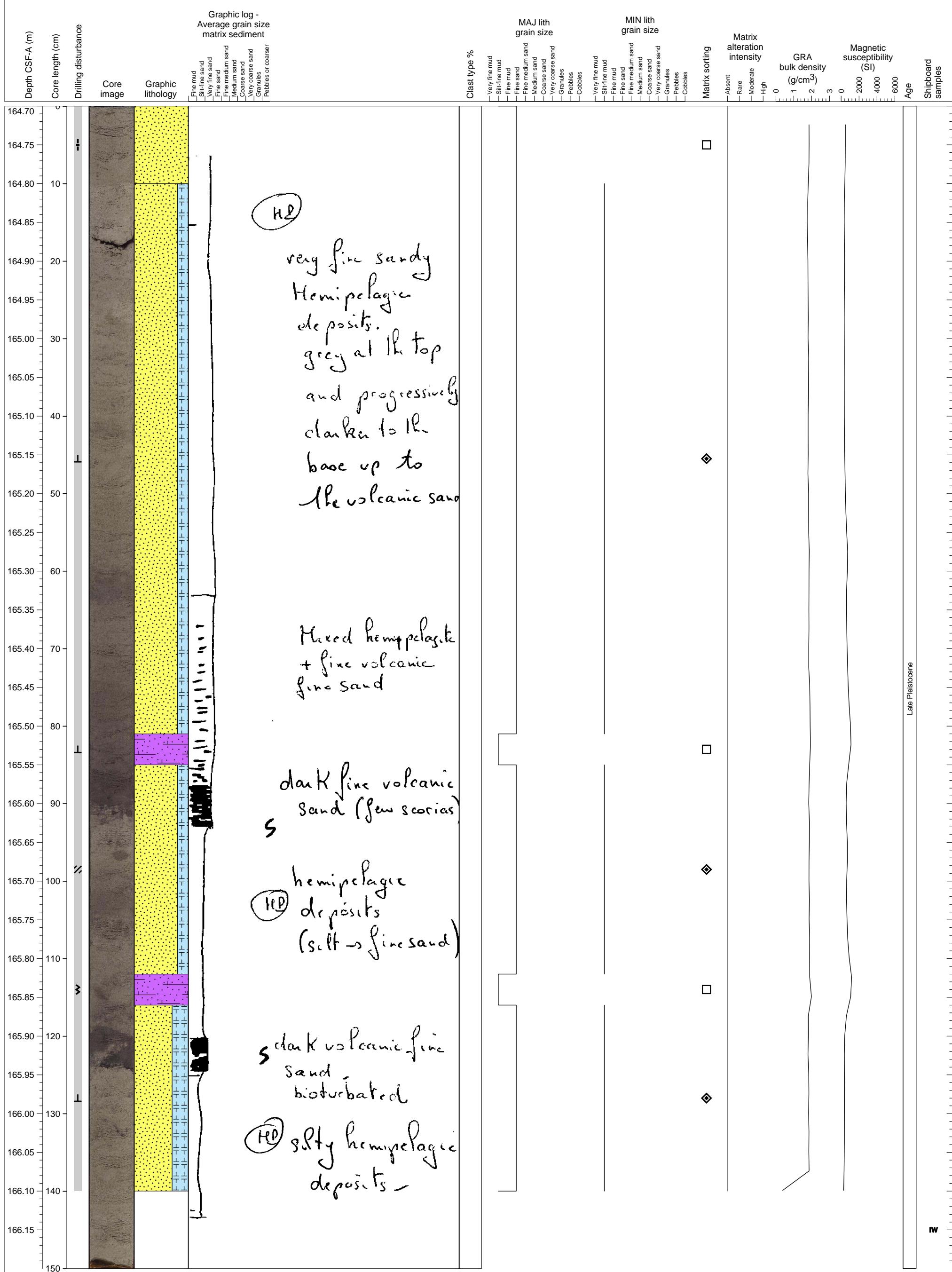
Soupy, grey colored volcanioclastic fine sand with white pumice clasts (1-3.5cm size).



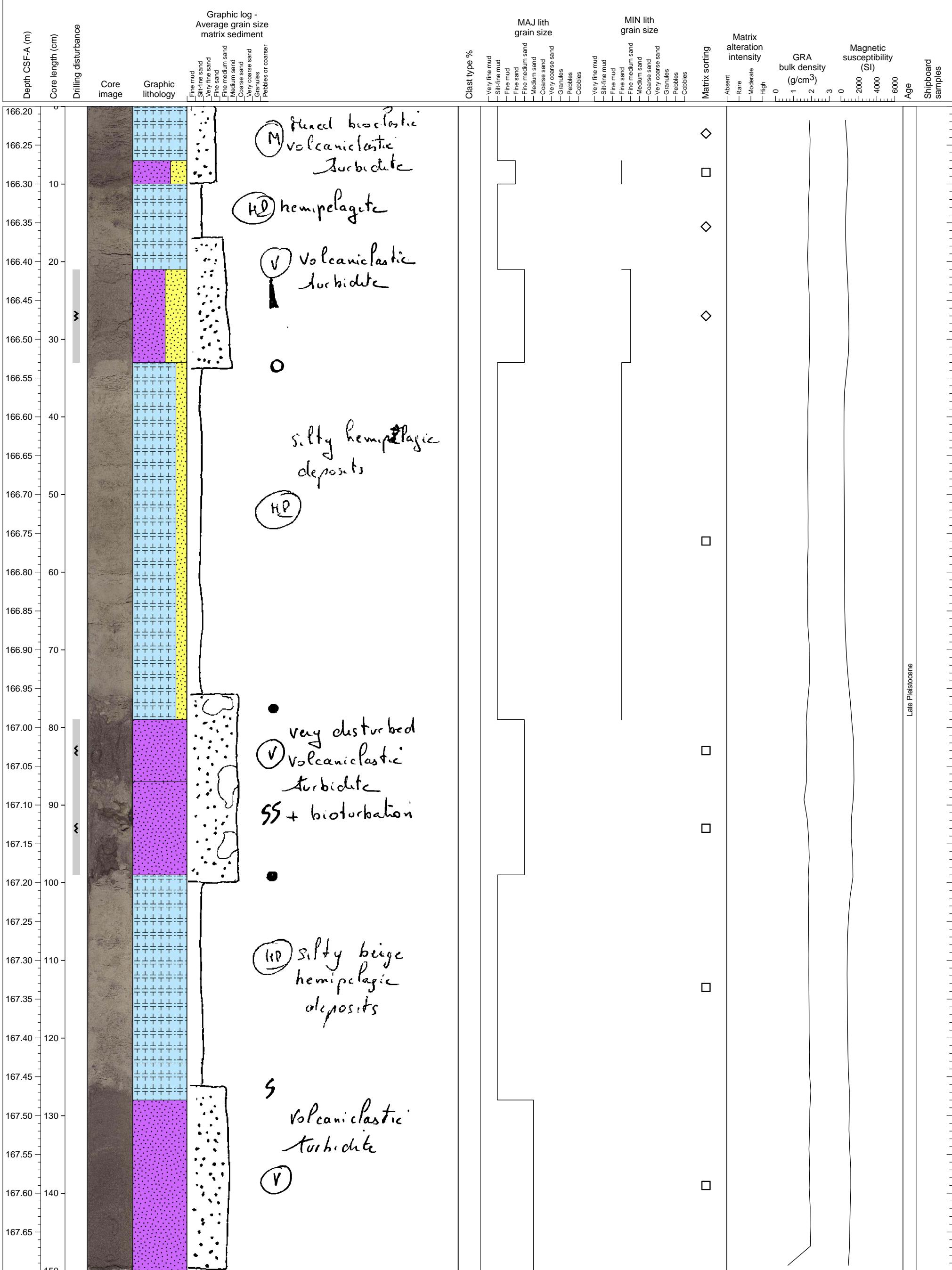
Crudely laminated hemipelagic sediments with thin (&lt;3 cm) minor volcaniclastic sediment layers.



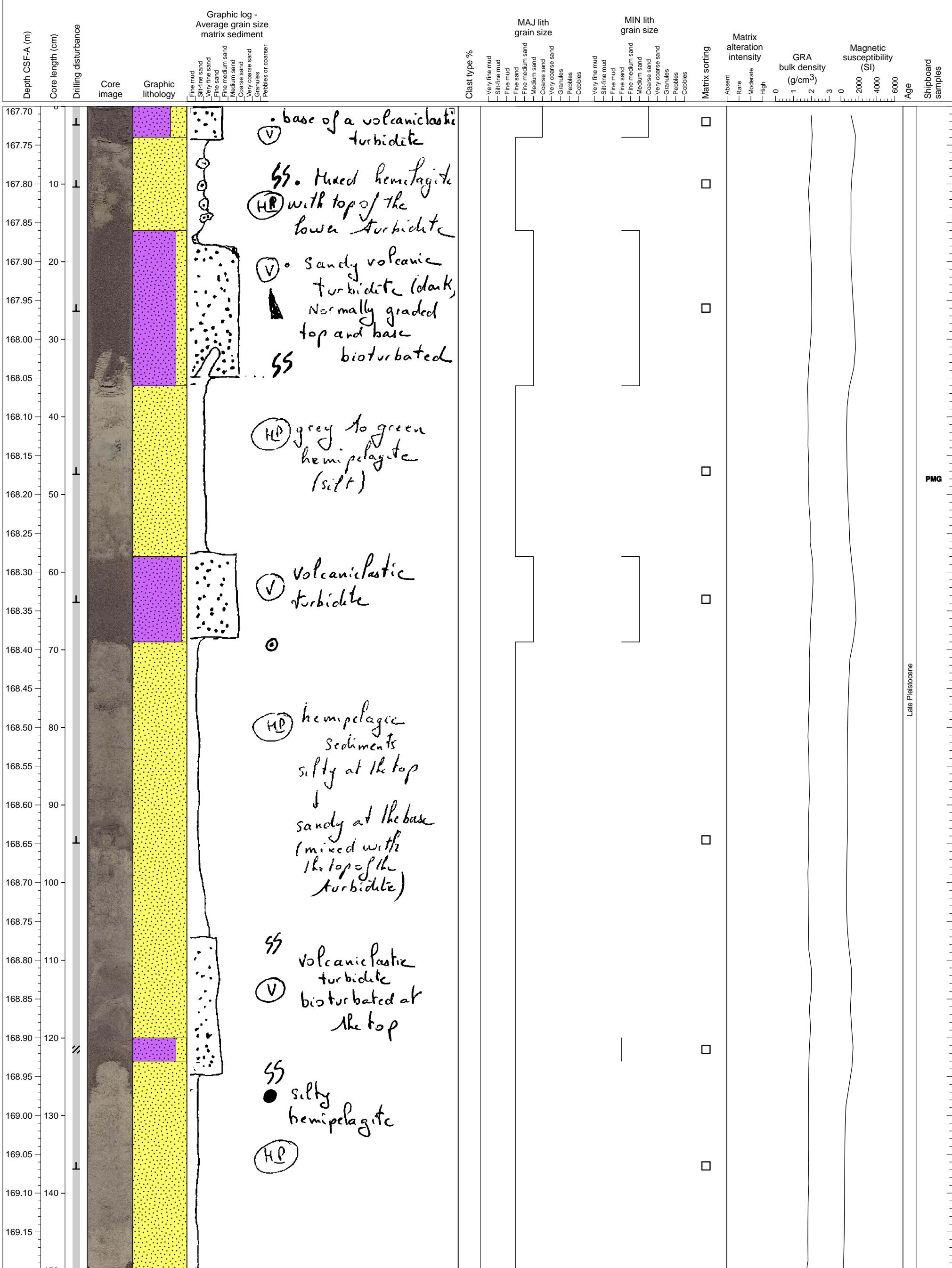
Crudely laminated hemipelagite intercalated by thin volcaniclastic silt layers.



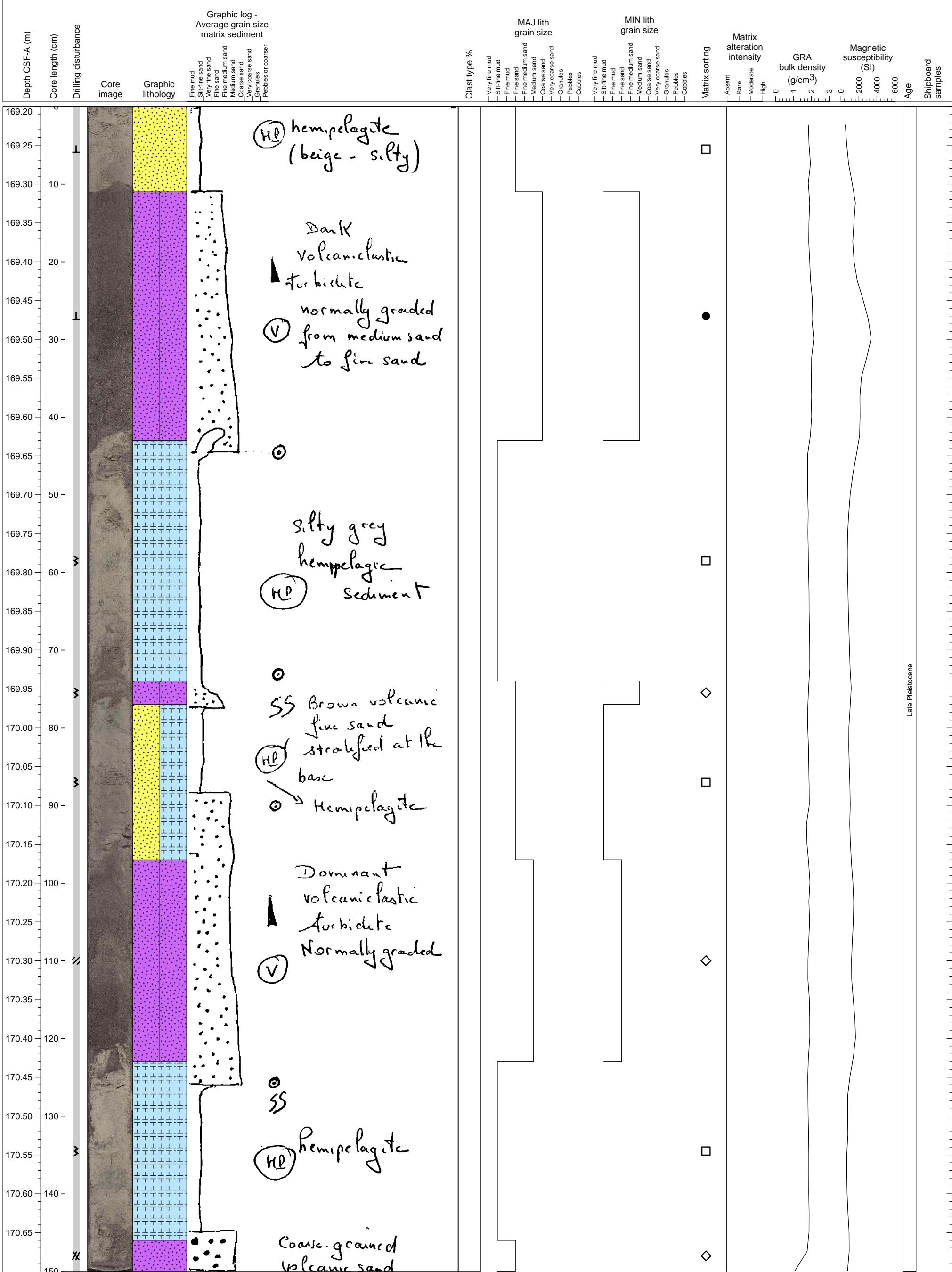
Hemipelagic fine sediments intercalated with volcaniclastic turbidites.



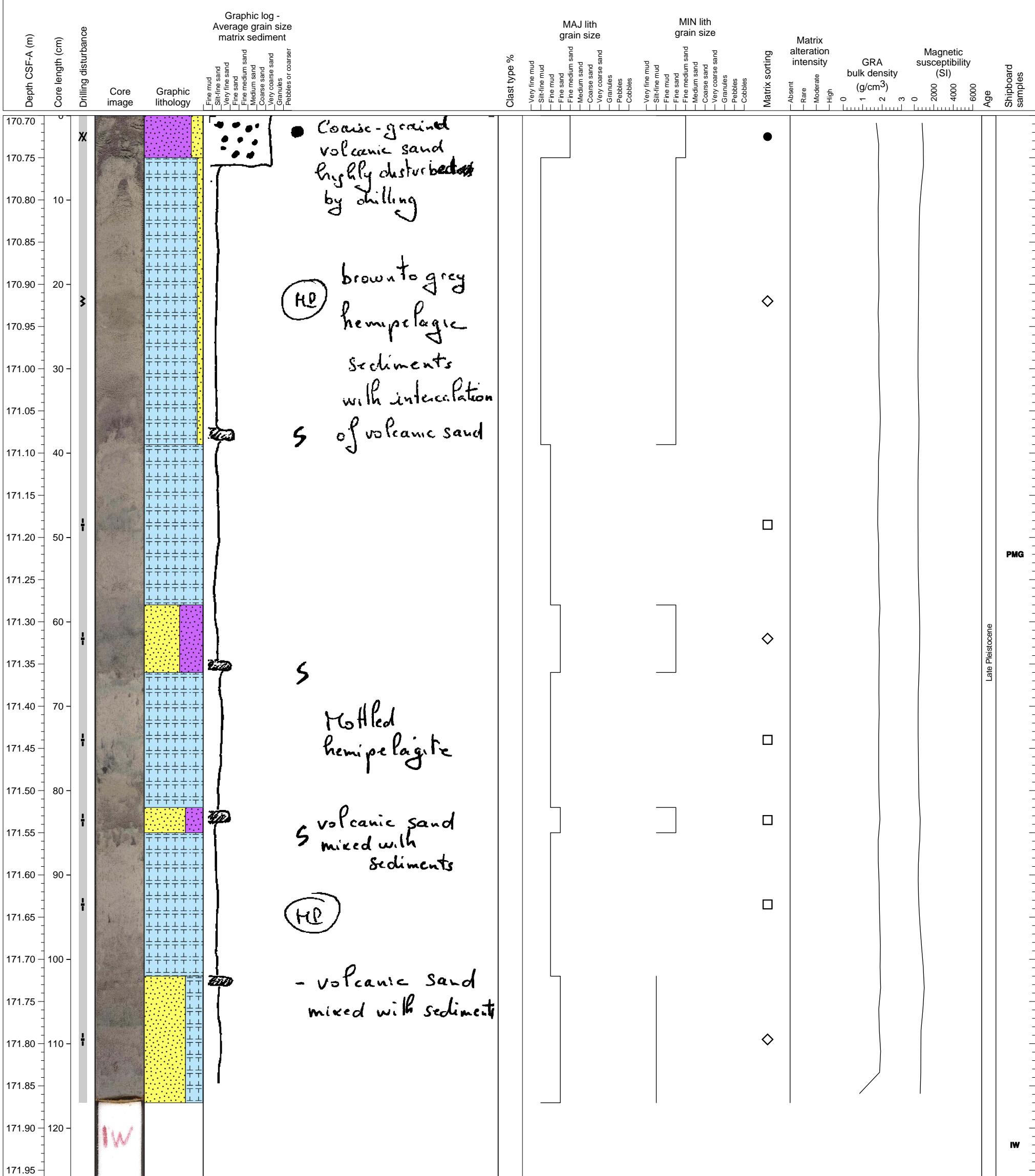
Interbedded hemipelagic sediments and mixed volcaniclastic-bioclastic turbidite sands.



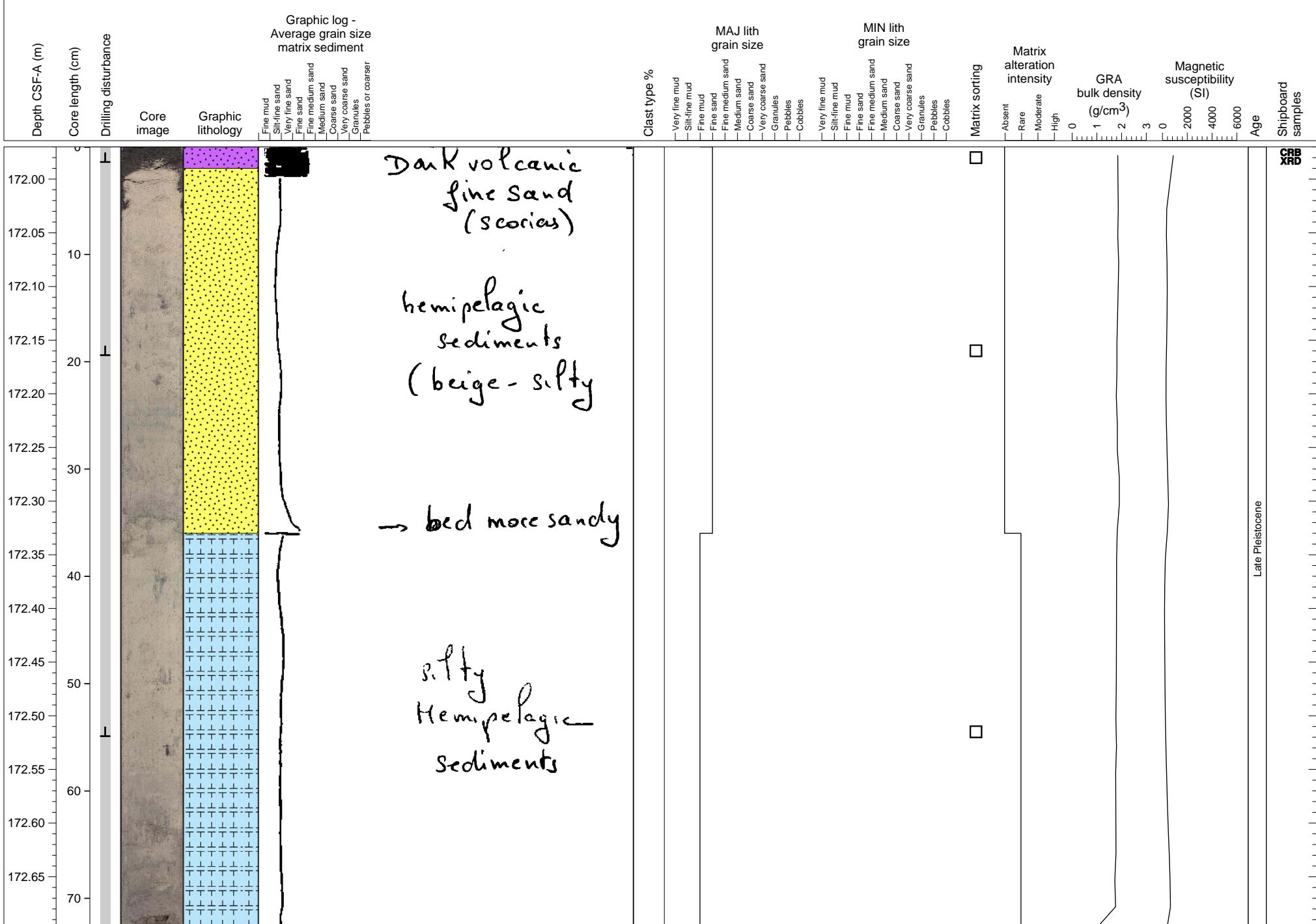
Alternation of well sorted hemipelagites and poor to moderately sorted volcaniclastic turbidites.



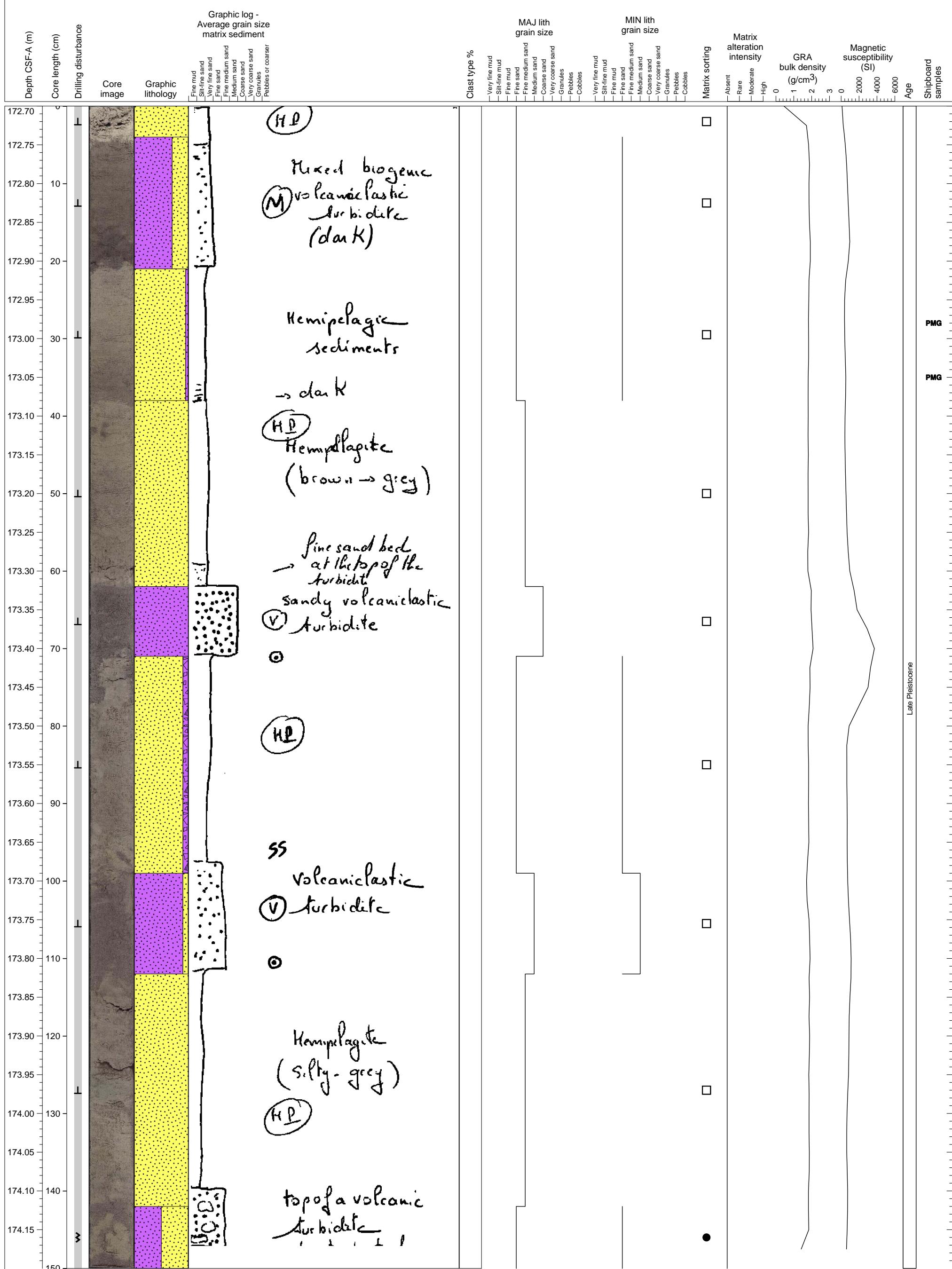
Hemipelagic fine sediments intercalated with thin turbidite (volcaniclastic and mixed), thin green layers are present.



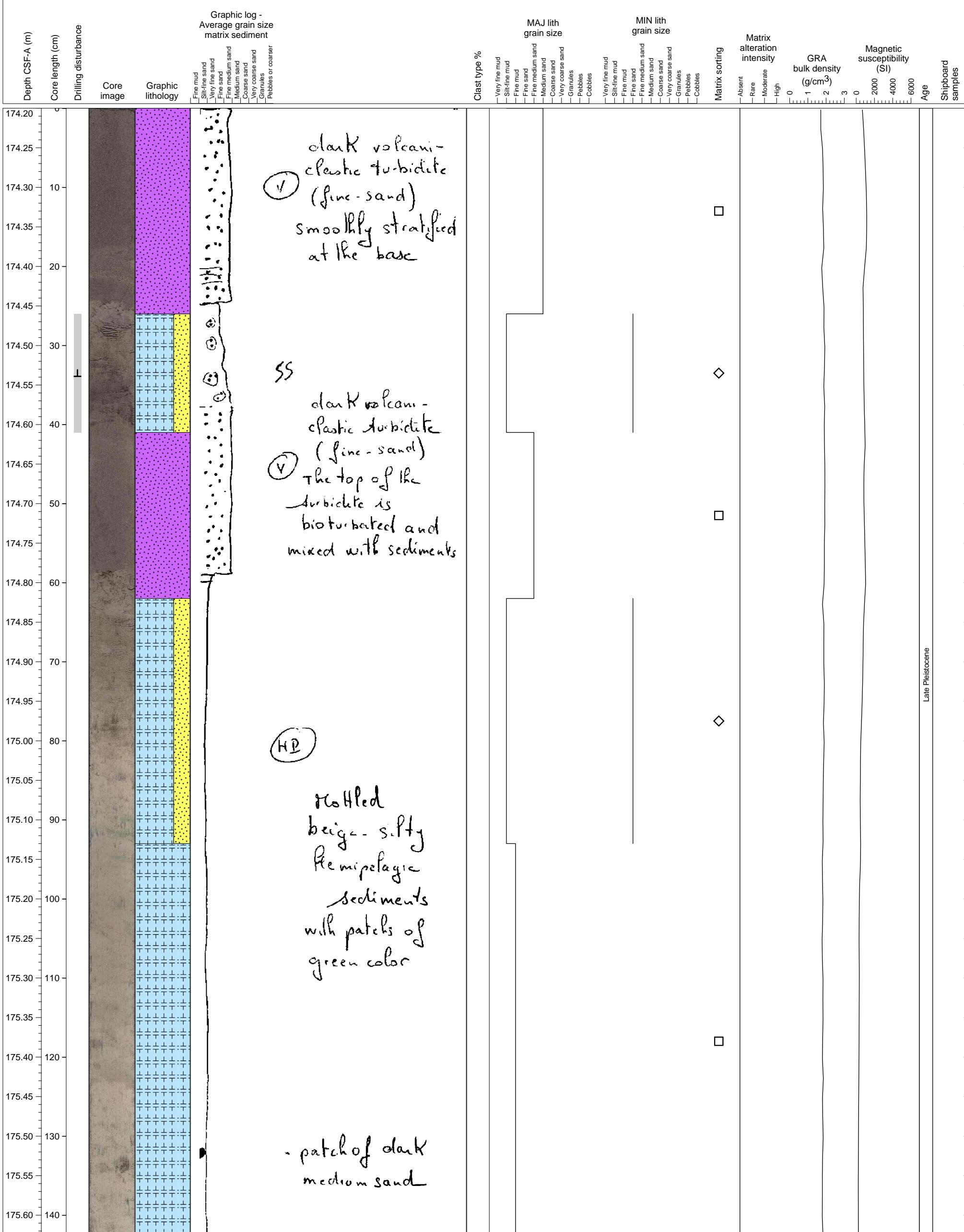
Thin scoria rich unit at top, with hemipelagic sediments beneath.



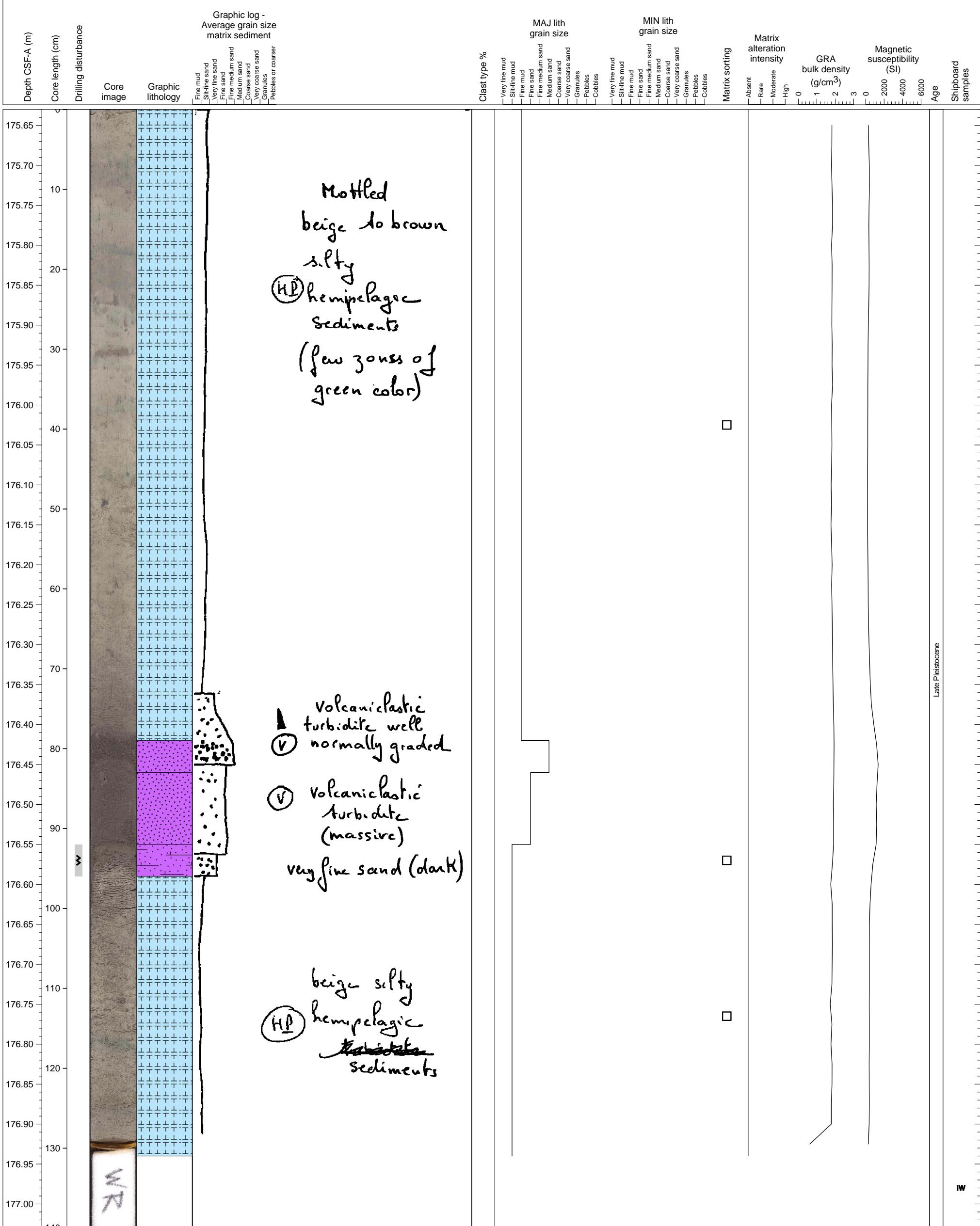
Hemipelagic sediments containing minor volcanioclastic sediments interbedded with mixed volcanioclastic/bioclastic turbidite sands.



Hemipelagic sediments intercalated with volcaniclastic turbidites.



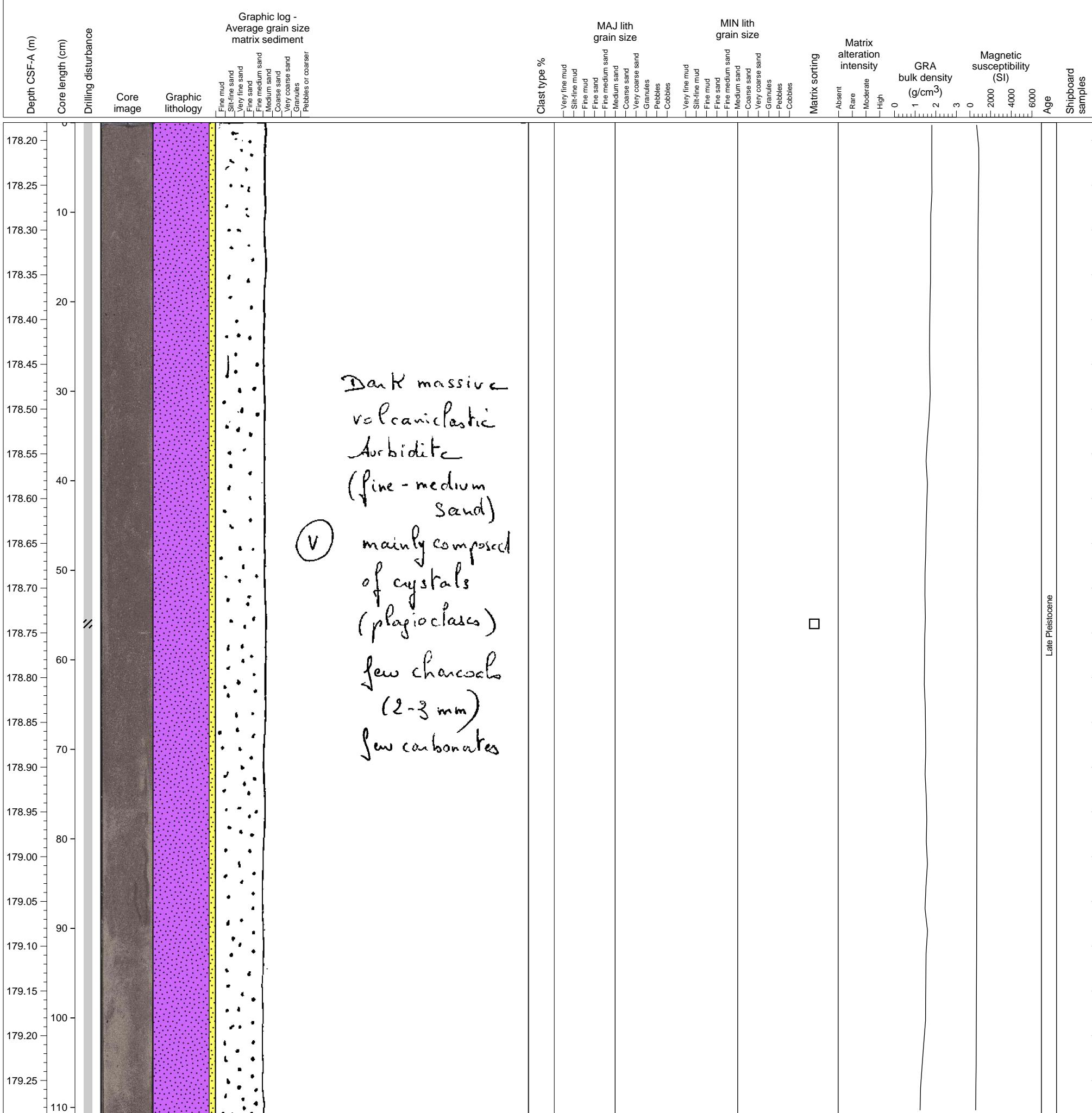
Hemipelagic sediments with several intercalations of volcaniclastic turbidite.



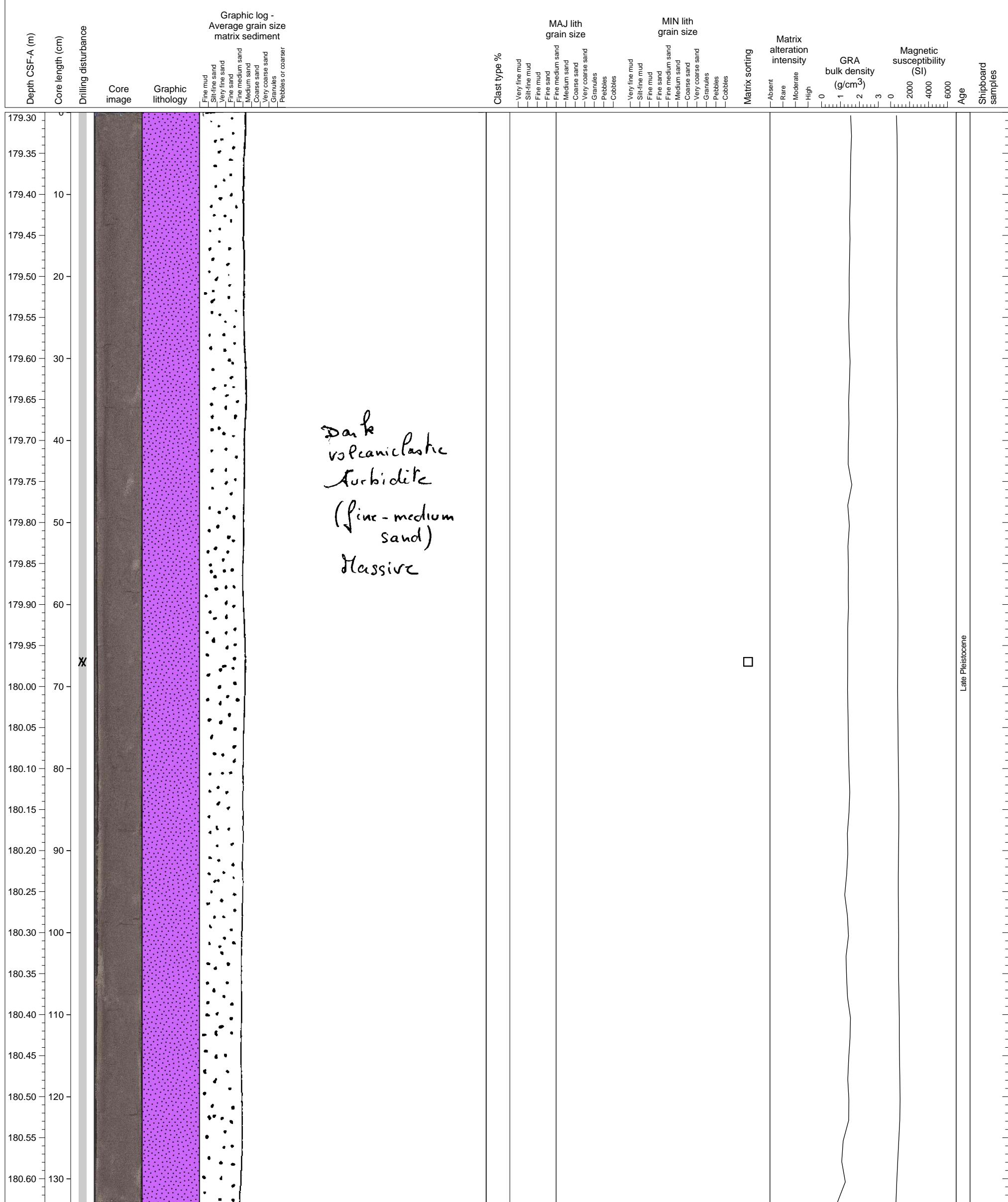
Mixed volcaniclastic-carbonate turbidite sand. Massive, no grading.



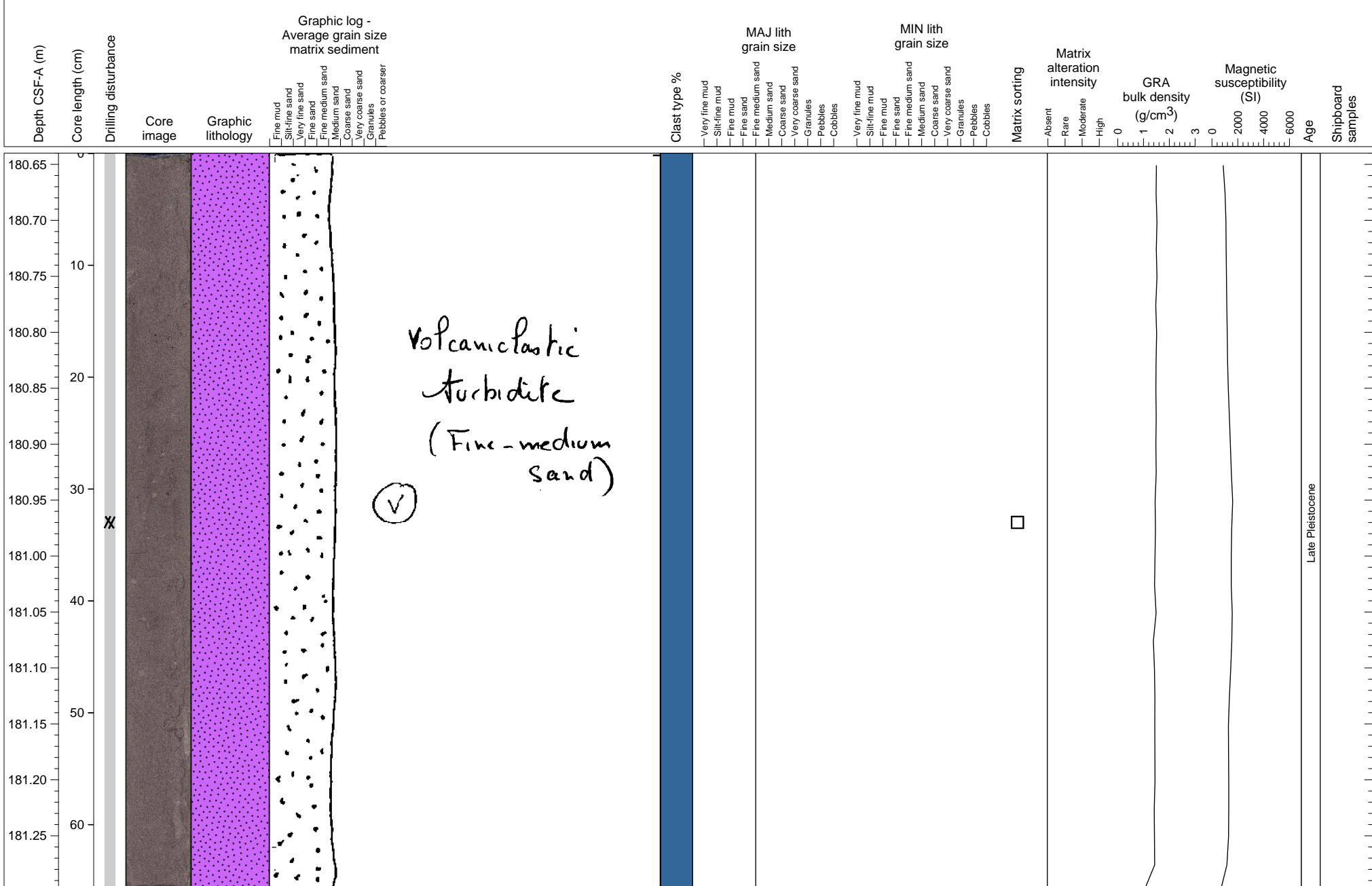
Mixed volcaniclastic-carbonate turbidite sand. Massive, no grading.



Soupy, grey colored volcaniclastic turbidite.



Soupy, grey colored volcanioclastic turbidite, mud clasts (up to 5 mm) are present..



Soupy, grey colored volcanioclastic turbidite, mud clasts (up to 1cm) are present..

