
MONROE COUNTY

BEACH SAMPLE DESCRIPTIONS

Worked By: Michelle Ladle

Beach Samples MO-01 to MO-30

Samples Described 6/28/2010 through 6/29/2010

Beach Sample Location MO-01

MO-01

Calcarenites; Very Light Orange to Grayish Orange; Grain Type: Intraclast, Skeletal; 99% Allochemical Constituents; Grain Size: Medium; Range: Fine to Granule (2-4 mm); Unconsolidated; Accessory Minerals: Organics-01%, Quartz Sand-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Coral, Echinoid, Ostracods; *Archais angulatus*

Beach Sample Location MO-02

MO-02

Calcarenites; Very Light Orange; Grain Type: Intraclast, Skeletal; 99% Allochemical Constituents; Grain Size: Medium; Range: Fine to Very Course; Unconsolidated; Accessory Minerals: Organics-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Coral, Bryozoa, Echinoid; *Archais angulatus*; *Ammonia beccarii* (many are pink)

Beach Sample Location MO-03

MO-03

Calcarenites; Very Light Orange; Grain Type: Intraclast, Skeletal; 99% Allochemical Constituents; Grain Size: Medium; Range: Fine to Course; Unconsolidated; Accessory Minerals: Heavy Minerals-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Coral, Bryozoa, Echinoid; *Archais angulatus*; Sand-size chunks of metallic minerals; Pink forams (*ammonia beccarii*); *Milliolids*

Beach Sample Location MO-04

MO-04

Calcarenites; Very Light Orange to Moderate Yellowish Brown; Grain Type: Intraclast, Skeletal, Calcilutite; 95% Allochemical Constituents; Grain Size: Microcrystalline; Range: Fine to Course; Unconsolidated; Accessory Minerals: Organics-03%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Coral, Bryozoa, Echinoid; *Archais angulatus*

Beach Sample Location MO-05

MO-05

Calcarenites; Very Light Orange to Grayish Orange; Grain Type: Intraclast, Skeletal; 99% Allochemical Constituents; Grain Size: Medium; Range: Fine to Very Course; Unconsolidated; Accessory Minerals: Organics-<1%, Quartz Sand-<1%, Heavy Minerals-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Coral, Bryozoa, Ostracods; *Archais angulatus*; *Milliolids*

Beach Sample Location MO-06

MO-06

Calcarenites; Very Light Orange; Grain Type: Intraclast, Skeletal; 99% Allochemical Constituents; Grain Size: Medium; Range: Fine to Medium; Unconsolidated; Accessory Minerals: Organics-<1%, Heavy Minerals-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Coral, Bryozoa, Echinoid; *Archais angulatus*; *Pink Rotalliina* sp.

Beach Sample Location MO-07

MO-07

Sand; Very Light Orange to Grayish Orange; Grain Size: Medium; Range: Fine to Very Course; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-<1%, Organics-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Plant Remains; Well-graded

Beach Sample Location MO-08

MO-08-SS

Calcarenites; Very Light Orange to Yellowish Gray; Grain Type: Intraclast, Skeletal, Calcilutite; 97% Allochemical Constituents; Grain Size: Fine; Range: Microcrystalline to Very Course; Unconsolidated; Accessory Minerals: Heavy Minerals-<1%, Organics-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Coral, Benthic Foraminifera, *Milliolids*; *Archais angulatus*

MO-08-BB

Calcarenites; Very Light Orange to Grayish Brown; Grain Type: Intraclast, Skeletal, Calcilutite; 95% Allochemical Constituents; Grain Size: Medium; Range: Fine to Course; Unconsolidated; Accessory Minerals: Organics-10%, Quartz Sand-02%; Other Features: Weathered; Fossils: Fossil Fragments, Plant Remains, Mollusks, Benthic Foraminifera, Echinoid; *Archais angulatus*

Beach Sample Location MO-09

MO-09

Calcarenites; White to Very Light Orange; Grain Type: Intraclast, Skeletal, Calcilutite; 98% Allochemical Constituents; Grain Size: Medium; Range: Fine to Course; Unconsolidated; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Coral, Benthic Foraminifera; *Archais angulatus*

Beach Sample Location MO-10

MO-10

Calcarenites; Very Light Orange to Grayish Orange; Grain Type: Intraclast, Skeletal, Calcilutite; 60% Allochemical Constituents; Grain Size: Medium; Range: Fine to Very Course; Unconsolidated; Accessory Minerals: Organics-25%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Coral; Small chunks of well-indurated cemented LS (fossiliferous packstone); *Archais angulatus*; *Milliolids*; Green echinoids

Beach Sample Location MO-11

MO-11-SS

Calcarenites; White to Very Light Orange; Grain Type: Intraclast, Skeletal, Calcilutite; 98% Allochemical Constituents; Grain Size: Medium; Range: Fine to Course; Unconsolidated; Other Features: Weathered; Fossils: Fossil Fragments, Benthic Foraminifera; *Archais angulatus*

MO-11-BB

Calcarenites; Very Light Orange; Grain Type: Intraclast, Skeletal, Calcilutite; 98% Allochemical Constituents; Grain Size: Medium; Range: Fine to Course; Unconsolidated; Accessory Minerals: Quartz Sand-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Benthic Foraminifera; *Archais angulatus*

Beach Sample Location MO-12

MO-12

Calcarenite; Very Light Orange to Grayish Brown; Grain Type: Intraclast, Skeletal, Calcilutite; 95% Allochemical Constituents; Grain Size: Medium; Range: Microcrystalline to Very Course; Unconsolidated; Accesory Minerals: Organics-<1%, Heavy Minerals-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Coral;

Beach Sample Location MO-14

MO-14

Calcarenite; Yellowish Gray to Grayish Brown; Grain Type: Intraclast, Skeletal, Calcilutite; 98% Allochemical Constituents; Grain Size: Fine; Range: Very Fine to Medium; Unconsolidated; Accesory Minerals: Heavy Minerals-02%; Other Features: Weathered; Fossils: Fossil Fragments; Phosphatized shells

Beach Sample Location MO-15

MO-15

Calcarenite; Yellowish Gray to Light Gray; Grain Type: Intraclast, Skeletal, Calcilutite; 98% Allochemical Constituents; Grain Size: Medium; Range: Fine to Course; Unconsolidated; Accesory Minerals: Heavy Minerals-02%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Bryozoa, Echinoid, Benthic Foraminifera; Archais angulatus; Green echinoids; Some phosphatized shells

Beach Sample Location MO-16

MO-16

Calcarenite; Yellowish Gray to Light Gray; Grain Type: Intraclast, Skeletal, Calcilutite; 98% Allochemical Constituents; Grain Size: Fine; Range: Very Fine to Medium; Unconsolidated; Accesory Minerals: Heavy Minerals-01%, Organics-01%; Other Features: Weathered; Fossils: Fossil Fragments, Bryozoa, Benthic Foraminifera, Coral, Plant Remains; Archais angulatus; Some phosphatized shells

Beach Sample Location MO-18

MO-18

Calcarenite; Very Light Orange to Grayish Brown; Grain Type: Intraclast, Skeletal, Calcilutite; 85% Allochemical Constituents; Grain Size: Course; Range: Microcrystalline to Granule (2-4 mm); Unconsolidated; Accesory Minerals: Organics-04%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Coral, Benthic Foraminifera; Archais angulatus; Gastropods

Beach Sample Location MO-19

MO-19

Shell Bed; Very Light Orange to Grayish Brown; Unconsolidated; Accesory Minerals: Calcilutite-02%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Coral, Benthic Foraminifera; Archais angulatus; Gastropods

Beach Sample Location MO-20

MO-20

Shell Bed; Very Light Orange to Moderate Yellowish Brown; Unconsolidated; Accesory Minerals: Organics-03%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Plant Remains; Gastropods make-up majority of shells in sample

Beach Sample Location MO-21

MO-21

Calcarenite; Very Light Orange to Moderate Yellowish Brown; Grain Type: Intraclast, Skeletal, Calcilutite; 90% Allochemical Constituents; Grain Size: Course; Range: Microcrystalline to Granule (2-4 mm); Unconsolidated; Accesory Minerals: Organics-05%, Clay-02%; Other Features: Weathered; Fossils: Fossil Fragments, Coral, Mollusks, Benthic Foraminifera, Plant Remains; Archais angulatus; Gastropods; Milliolids

Beach Sample Location MO-22

MO-22

Calcarenite; Very Light Orange; Grain Type: Intraclast, Skeletal, Calcilutite; 95% Allochemical Constituents; Grain Size: Course; Range: Fine to Very Course; Unconsolidated; Fossils: Fossil Fragments, Coral, Mollusks, Benthic Foraminifera, Bryozoa; Archais angulatus

Beach Sample Location MO-23

MO-23

Calcarenite; Very Light Orange to Grayish Orange; Grain Type: Intraclast, Skeletal, Calcilutite; 90% Allochemical Constituents; Grain Size: Course; Range: Fine to Very Course; Unconsolidated; Accesory Minerals: Organics-05%, Clay-02%; Fossils: Fossil Fragments, Coral, Mollusks, Benthic Foraminifera, Plant Remains; Archais angulatus

Beach Sample Location MO-24

MO-24

Shell Bed; Very Light Orange to Moderate Yellowish Brown; Unconsolidated; Accesory Minerals: Organics-03%, Clay-02%; Fossils: Fossil Fragments, Mollusks, Coral, Echinoid, Plant Remains; Archais angulatus; Gastropods

Beach Sample Location MO-25

MO-25

Sand; White to Very Light Orange; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accesory Minerals: Calcarenite-20%, Limestone-10%; Fossils: Fossil Fragments, Mollusks, Miliolids;

Beach Sample Location MO-26

MO-26

Calcarenite; Very Light Orange to Light Gray; Grain Type: Intraclast, Skeletal, Calcilutite; 98% Allochemical Constituents; Grain Size: Medium; Range: Fine to Course; Unconsolidated; Accesory Minerals: Organics-01%, Heavy Minerals-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Bryozoa, Benthic Foraminifera; Archais angulatus

Beach Sample Location MO-27

MO-27

Shell Bed; Very Light Orange to Moderate Yellowish Brown;
Unconsolidated; Accesory Minerals: Organics-05%; Fossils: Fossil
Fragments, Mollusks, Coral, Plant Remains, Benthic Foraminifera; Archais
angulatus; Gastropods

Beach Sample Location MO-28

MO-28-SS

Sand; Very Light Orange to Grayish Brown; Grain Size: Medium; Range:
Fine to Very Course; Roundness: Angular to Subrounded; Low Sphericity;
Unconsolidated; Accesory Minerals: Calcarenite-15%, Organics-01%; Well-
graded

MO-28-BB

Sand; Very Light Orange to Grayish Orange; Grain Size: Medium; Range:
Fine to Very Course; Roundness: Angular to Subrounded; Low Sphericity;
Unconsolidated; Accesory Minerals: Organics-<1%;

Beach Sample Location MO-29

MO-29-SS

Sand; Very Light Orange to Grayish Orange; Grain Size: Medium; Range:
Fine to Course; Roundness: Angular to Subrounded; Low Sphericity;
Unconsolidated; Accesory Minerals: Calcarenite-25%, Heavy Minerals-
<1%, Organics-01%; Fossils: Fossil Fragments, Benthic Foraminifera,
Bryozoa, Plant Remains; Archais angulatus et al.; Possibly oolites and
pellets

MO-29-BB

Sand; Very Light Orange to Grayish Brown; Grain Size: Medium; Range:
Fine to Course; Roundness: Angular to Subangular; Low Sphericity;
Unconsolidated; Accesory Minerals: Calcarenite-35%, Limestone-05%,
Heavy Minerals-<1%; Fossils: Fossil Fragments, Benthic Foraminifera,
Coral; Archais angulatus

Beach Sample Location MO-30

MO-30

Calcarenite; Very Light Orange to Grayish Orange; Grain Type: Intraclast,
Skeletal; 98% Allochemical Constituents; Grain Size: Medium; Range: Fine
to Very Course; Unconsolidated; Accesory Minerals: Quartz Sand-25%;
Fossils: Fossil Fragments, Benthic Foraminifera, Fossil Molds;
