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## ST. LUCIE COUNTY

### BEACH SAMPLE DESCRIPTIONS

Beach Samples SL-01-SS to SL-23-BB

Worked By: Michelle Ladle

Samples Described 02/09/09 through 02/17/09

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#### Beach Sample Location SL-01

##### SL-01

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Very Coarse; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Bryozoa

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#### Beach Sample Location SL-02

##### SL-02

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-40%, Heavy Minerals-<1%; Fossils: Fossil Fragments

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#### Beach Sample Location SL-03

##### SL-03

Sand; Yellowish Gray to Light Olive Gray; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-<1%; Fossils: Fossil Fragments

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#### Beach Sample Location SL-04

##### SL-04

Sand; Yellowish Gray to Light Olive Gray; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks

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#### Beach Sample Location SL-05

##### SL-05

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-02%; Fossils: Fossil Fragments

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#### Beach Sample Location SL-06

##### SL-06

Sand; Yellowish Gray to Grayish Orange; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-28%, Heavy Minerals-01%; Fossils: Fossil Fragments

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#### Beach Sample Location SL-07

##### SL-07-SS

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-<1%; Fossils: Fossil Fragments

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##### SL-07-BB

Sand; Yellowish Gray to Grayish Brown; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Bryozoa

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#### Beach Sample Location SL-08

##### SL-08-SS

Shell Bed; Yellowish Gray to Moderate Dark Gray; Unconsolidated; Accessory Minerals: Quartz Sand-25%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoids, Miliolids; Shell Fragments Appear to be Remineralized

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##### SL-08-BB

Shell Bed; Light Olive Gray to Moderate Dark Gray; Unconsolidated; Accessory Minerals: Quartz Sand-25%, Calcilutite-05%; Fossils: Fossil Fragments, Miliolids

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#### Beach Sample Location SL-09

##### SL-09-SS

Shell Bed; Yellowish Gray to Olive Gray; Unconsolidated; Accessory Minerals: Quartz Sand-40%; Fossils: Fossil Fragments, Miliolids

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##### SL-09-BB

Shell Bed; Light Olive Gray to Olive Gray; Unconsolidated; Accessory Minerals: Quartz Sand-40%; Fossils: Fossil Fragments, Mollusks, Barnacles, Miliolids

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#### Beach Sample Location SL-10

##### SL-10-SS

Shell Bed; Light Olive Gray to Olive Gray; Unconsolidated; Accessory Minerals: Quartz Sand-40%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa; Benthic Foraminifera; Forams include Quinqueloculina sp. & Elphidium sp.

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##### SL-10-BB

Shell Bed; Yellowish Gray to Light Olive Gray; Unconsolidated; Accessory Minerals: Quartz Sand-30%, Plant Remains-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoids, Bryozoa, Miliolids; Top Soil Present

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#### Beach Sample Location SL-11

##### SL-11-SS

Shell Bed; Yellowish Gray to Olive Gray; Unconsolidated; Accessory Minerals: Quartz Sand-30%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa, Miliolids

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**SL-11-BB**

Shell Bed; Yellowish Gray to Dark Yellowish Brown; Unconsolidated; Accessory Minerals: Quartz Sand-40%; Fossils: Fossil Fragments, Mollusks, Echinoids, Miliolids, Benthic Foraminifera

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**Beach Sample Location SL-12**

**SL-12-SS**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-35%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoids, Miliolids

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**SL-12-BB**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-15%; Fossils: Fossil Fragments, Mollusks, Barnacles, Miliolids, Bryozoa

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**Beach Sample Location SL-13**

**SL-13**

Sand; Yellowish Gray to Dark Yellowish Brown; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-45%; Fossils: Fossil Fragments

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**Beach Sample Location SL-14**

**SL-14**

Shell Bed; Yellowish Gray to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-45%; Fossils: Fossil Fragments

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**Beach Sample Location SL-15**

**SL-15-SS**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-40%; Fossils: Fossil Fragments

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**SL-15-BB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Medium; Range: Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-45%; Fossils: Fossil Fragments

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**Beach Sample Location SL-16**

**SL-16**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-45%; Fossils: Fossil Fragments, Miliolids

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**Beach Sample Location SL-17**

**SL-17**

Shell Bed; Yellowish Gray to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-45%; Fossils: Fossil Fragments

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**Beach Sample Location SL-18**

**SL-18**

Sand; Yellowish Gray to Light Gray; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-03%; Fossils: Fossil Fragments

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**Beach Sample Location SL-19**

**SL-19**

Sand; Yellowish Gray to Light Gray; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-02%; Fossils: Fossil Fragments

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**Beach Sample Location SL-20**

**SL-20**

Shell Bed; Very Light Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Shell-45%; Fossils: Fossil Fragments, Bryozoa

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**Beach Sample Location SL-21**

**SL-21-SS**

Sand; Yellowish Gray to Light Gray; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-45%; Fossils: Fossil Fragments, Benthic Foraminifera

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**SL-21-BB**

Sand; Grayish Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-30%; Fossils: Fossil Fragments, Mollusks

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**Beach Sample Location SL-22**

**SL-22-SS**

Sand; Very Light Orange to Grayish Brown; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%; Fossils: Fossil Fragments, Mollusks, Miliolids

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**SL-22-BB**

Sand; Very Light Orange to Grayish Orange; Grain Size: Medium; Range: Very Fine to Coarse; Roundness: Angular to Sub-Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-40%, Heavy Minerals-<1%; Fossils: Fossil Fragments

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**Beach Sample Location SL-23**

**SL-23**

Sand; Very Light Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-30%; Fossils: Fossil Fragments, Mollusks

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