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## PINELLAS COUNTY

### BEACH SAMPLE DESCRIPTIONS

Worked By: Michelle Ladle

Beach Samples PI-01 to PI-48-BB

Samples Described 12/15/2010 through 12/31/2010

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#### Beach Sample Location PI-01

##### PI-01

Sand; Very Light Gray to Light Olive Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Heavy Minerals-03%, Shell-<1%; Includes ~2% Citrine

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#### Beach Sample Location PI-02

##### PI-02-SS

Sand; White to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Heavy Minerals-01%, Shell-01%; Fossils: Fossil Fragments, Plant Remains;

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##### PI-02-BB

Sand; White to Very Light Orange; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Heavy Minerals-01%, Shell-<1%;

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#### Beach Sample Location PI-03

##### PI-03-SS

Sand; White to Very Light Orange; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Heavy Minerals-02%, Shell-01%; Fossils: Fossil Fragments;

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#### Beach Sample Location PI-04

##### PI-04-SS

Sand; White to Very Light Orange; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-15%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks;

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##### PI-04-BB

Sand; White to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Heavy Minerals-02%, Shell-01%;

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#### Beach Sample Location PI-05

##### PI-05

Sand; Very Light Orange to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-05%; Fossils: Fossil Fragments;

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#### Beach Sample Location PI-06

##### PI-06

Sand; White to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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#### Beach Sample Location PI-07

##### PI-07-SS

Sand; White to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-04%; Fossils: Fossil Fragments;

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##### PI-07-BB

Sand; White to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-04%, Heavy Minerals-01%; Fossils: Fossil Fragments, Benthic Foraminifera; Archais sp.

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#### Beach Sample Location PI-08

##### PI-08

Sand; White to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-02%, Heavy Minerals-01%; Fossils: Fossil Fragments;

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#### Beach Sample Location PI-09

##### PI-09-SS

Sand; White to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-03%; Fossils: Fossil Fragments, Mollusks, Barnacles, Plant Remains;

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##### PI-09-BB

Sand; White to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-02%; Fossils: Fossil Fragments;

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#### Beach Sample Location PI-10

##### PI-10-SS

Shell Bed; Yellowish Gray to Pinkish Gray; Unconsolidated; Accessory Minerals: Quartz Sand-20%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Benthic Foraminifera; Archais sp.; Large amt of clam shells and a few gastropods present

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##### PI-10-BB

Sand; White to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Benthic Foraminifera; Archais sp.

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## **Beach Sample Location PI-11**

### **PI-11**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-03%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Benthic Foraminifera; Archais sp.

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## **Beach Sample Location PI-12**

### **PI-12-SS**

Shell Bed; Very Light Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-05%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Benthic Foraminifera; Archais sp.

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### **PI-12-BB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Benthic Foraminifera, Plant Remains; Archais sp.

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## **Beach Sample Location PI-13**

### **PI-13-SS**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-15%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Benthic Foraminifera; Archais sp.

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### **PI-13-BB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-07%; Fossils: Fossil Fragments, Mollusks; Heavies may include phosphatized shell fragments.

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## **Beach Sample Location PI-14**

### **PI-14-SS**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-01%; Fossils: Fossil Fragments;

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### **PI-14-MB**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks;

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### **PI-14-BB**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-07%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Plant Remains, Benthic Foraminifera;

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## **Beach Sample Location PI-15**

### **PI-15-SS**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Miliolids, Benthic Foraminifera; Archais sp.

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### **PI-15-MB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Benthic Foraminifera;

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### **PI-15-BB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-05%; Fossils: Fossil Fragments, Mollusks;

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## **Beach Sample Location PI-17**

### **PI-17-SS**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-10%; Fossils: Fossil Fragments, Mollusks, Barnacles; ~50% of shell frags are phosphatized

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### **PI-17-MB**

Shell Bed; Yellowish Gray to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-35%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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### **PI-17-BB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-45%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa; Presence of quartz conglomerate: most likely the work of Bryozoa; Miliolids present

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## **Beach Sample Location PI-18**

### **PI-18-SS**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-35%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles; ~70% of shell frags are phosphatized

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### **PI-18-MB**

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

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### **PI-18-BB**

Sand; Yellowish Gray to Light Gray; Grain Size: Medium; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-05%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa, Benthic Foraminifera; Archais sp.

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## **Beach Sample Location PI-19**

### **PI-19-SS**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-05%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles; ~60% of shell frags are phosphatized.

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### **PI-19-BB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Miliolids;

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## **Beach Sample Location PI-20**

### **PI-20-SS**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-45%, Heavy Minerals-01%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid; ~60% of shell frags are phosphatized.

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### **PI-20-BB**

Shell Bed; Yellowish Gray to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-10%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa, Echinoid;

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## **Beach Sample Location PI-21**

### **PI-21**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-40%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid; ~60% of shell frags are phosphatized.

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## **Beach Sample Location PI-22**

### **PI-22-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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### **PI-22-BB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-40%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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## **Beach Sample Location PI-23**

### **PI-23-SS**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-40%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid; ~60% of shell frags are phosphatized.

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### **PI-23-BB**

Shell Bed; Yellowish Gray to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-45%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa; ~60% of shell frags are phosphatized. Sand: Very fine to Course, Angular to Subangular

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## **Beach Sample Location PI-24**

### **PI-24-SS**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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### **PI-24-BB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-45%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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## **Beach Sample Location PI-25**

### **PI-25-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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### **PI-25-BB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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## **Beach Sample Location PI-26**

### **PI-26-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Benthic Foraminifera; Archais sp.

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### **PI-26-BB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Fine; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Benthic Foraminifera; Archais sp.

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## **Beach Sample Location PI-27**

### **PI-27-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Benthic Foraminifera; Archais sp. (lt. orange in color)

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### **PI-27-BB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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## **Beach Sample Location PI-28**

### **PI-28-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-15%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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### **PI-28-BB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Medium; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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## **Beach Sample Location PI-29**

### **PI-29-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Medium; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Benthic Foraminifera;

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### **PI-29-BB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-45%, Heavy Minerals-01%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa, Plant Remains; Echinoid spines and Fragments of Archais sp. present

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## **Beach Sample Location PI-30**

### **PI-30-SS**

Shell Bed; Yellowish Gray to Moderate Gray; Unconsolidated; Accessory Minerals: Quartz Sand-35%, Heavy Minerals-01%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa; Encrusting Bryozoans; Presence of Fibrous Pinkish-White Mineral (Possibly Gypsum)

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### **PI-30-BB**

Sand; Yellowish Gray to Moderate Dark Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-15%, Heavy Minerals-15%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Miliolids; Significant amt of Heavies-May include phosphatized shell fragments

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## **Beach Sample Location PI-31**

### **PI-31-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa;

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### **PI-31-BB**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-03%; Fossils: Fossil Fragments;

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## **Beach Sample Location PI-32**

### **PI-32-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Low Sphericity; Accessory Minerals: Shell-10%, Heavy Minerals-05%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Ostracods; Miliolids, Bryozoa, and Fragments of Archais sp.

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### **PI-32-BB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-03%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa, Benthic Foraminifera; Plant Remains, Archais sp.

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## **Beach Sample Location PI-33**

### **PI-33-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Medium; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-45%, Heavy Minerals-03%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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### **PI-33-BB**

Sand; Yellowish Gray to Moderate Dark Gray; Grain Size: Medium; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-08%, Heavy Minerals-20%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa, Miliolids; Significant Heavies, Rose Quartz, and Citrine Present

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## **Beach Sample Location PI-34**

### **PI-34-SS**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Bryozoa;

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### **PI-34-B**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-15%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Miliolids;

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### **PI-34-MB**

Shell Bed; Very Light Orange to Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-20%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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### **PI-34-BB**

Shell Bed; Very Light Orange to Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-45%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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## **Beach Sample Location PI-35**

### **PI-35-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-40%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Ostracods;

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### **PI-35-B**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa, Miliolids;

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### **PI-35-MB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-40%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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### **PI-35-BB**

Sand; Very Light Orange to Light Gray; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-40%, Calcilutite-<1%, Heavy Minerals-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles;

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### **Beach Sample Location PI-36**

#### **PI-36**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Bryozoa;

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### **Beach Sample Location PI-37**

#### **PI-37-SS**

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

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#### **PI-37-MB**

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

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#### **PI-37-BB**

Shell Bed; Very Light Orange to Very Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-20%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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### **Beach Sample Location PI-38**

#### **PI-38-SS**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-08%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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#### **PI-38-MB**

Sand; Very Light Orange to Very Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subangular; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-45%, Calcilutite-<1%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa; Bryozoan Built on a Clam Shell

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### **PI-38-BB**

Sand; Very Light Orange to Very Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subangular; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-40%, Calcilutite-<1%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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### **Beach Sample Location PI-39**

#### **PI-39-SS**

Sand; Very Light Orange to Very Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-35%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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#### **PI-39-MB**

Sand; Very Light Orange to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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#### **PI-39-BB**

Shell Bed; Yellowish Gray to Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-45%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa;

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### **Beach Sample Location PI-40**

#### **PI-40-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-45%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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#### **PI-40-BB**

Sand; Yellowish Gray to Very Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-02%; Fossils: Fossil Fragments;

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### **Beach Sample Location PI-41**

#### **PI-41-SS**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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#### **PI-41-MB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-40%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa;

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#### **PI-41-BB**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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## **Beach Sample Location PI-42**

### **PI-42-SS**

Sand; White to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-04%, Heavy Minerals-02%; Fossils: Fossil Fragments;

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### **PI-42-BB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-03%; Fossils: Fossil Fragments, Mollusks;

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## **Beach Sample Location PI-43**

### **PI-43-SS**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa;

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### **PI-43-BB**

Shell Bed; Yellowish Gray to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-05%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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## **Beach Sample Location PI-44**

### **PI-44-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles; Whole Barnacles Attached to Clam Shell

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### **PI-44-MB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-15%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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### **PI-44-BB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-40%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Benthic Foraminifera; Archais sp.

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## **Beach Sample Location PI-45**

### **PI-45-SS**

Sand; Yellowish Gray to Light Gray; Grain Size: Medium; Range: Very Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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### **PI-45-MB**

Sand; Yellowish Gray to Light Gray; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-25%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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### **PI-45-BB**

Sand; Yellowish Gray to Very Light Gray; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Subrounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Benthic Foraminifera;

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## **Beach Sample Location PI-46**

### **PI-46-SS**

Sand; Yellowish Gray to Very Light Gray; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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### **PI-46-BB**

Sand; Yellowish Gray to Light Gray; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-02%; Fossils: Fossil Fragments, Mollusks, Bryozoa;

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## **Beach Sample Location PI-47**

### **PI-47-SS**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-10%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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### **PI-47-MB**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-05%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Ostracods;

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### **PI-47-BB**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-03%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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## **Beach Sample Location PI-48**

### **PI-48-SS**

Sand; Yellowish Gray to Moderate Gray; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-40%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa, Ostracods;

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### **PI-48-BB**

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

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