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## **COLLIER COUNTY BEACH SAMPLE DESCRIPTIONS**

**Worked By: Michelle Ladle**

**Beach Samples CR-01-SS to CR-47**

**Samples Described 5/13/2010 through 6/23/2010**

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### **Beach Sample Location CR-01**

#### **CR-01-SS**

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

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#### **CR-01-BB**

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

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### **Beach Sample Location CR-02**

#### **CR-02**

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

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### **Beach Sample Location CR-03**

#### **CR-03-SS**

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

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#### **CR-03-BB**

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

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### **Beach Sample Location CR-05**

#### **CR-05-SS**

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-45%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Bryozoa;

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#### **CR-05-BB**

Sand; Very Light Orange to Very Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-03%, Heavy Minerals-02%; Fossils: Fossil Fragments, Benthic Foraminifera; Asterigerina sp.

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### **Beach Sample Location CR-06**

#### **CR-06-SS**

Shell Bed; Very Light Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-20%; Fossils: Fossil Fragments, Mollusks, Barnacles, Coral, Bryozoa; Archaia angulatus

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#### **CR-06-BB**

Sand; Very Light Orange to Moderate Light Gray; Grain Size: Medium; Range: Very Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%; Fossils: Fossil Fragments, Mollusks, Echinoid, Bryozoa, Benthic Foraminifera; Archaia angulatus

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### **Beach Sample Location CR-07**

#### **CR-07-SS**

Sand; Very Light Orange to Light Gray; Grain Size: Medium; Range: Very Fine to Course; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Plant Remains, Benthic Foraminifera; Archaia angulatus

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#### **CR-07-BB**

Shell Bed; Very Light Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-35%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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### **Beach Sample Location CR-08**

#### **CR-08-SS**

Shell Bed; Very Light Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-30%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles;

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#### **CR-08-BB**

Sand; Very Light Orange to Light Gray; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%; Fossils: Fossil Fragments, Mollusks, Benthic Foraminifera; Archaia angulatus

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### **Beach Sample Location CR-09**

#### **CR-09-SS**

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

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#### **CR-09-BB**

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

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### **Beach Sample Location CR-10**

#### **CR-10-SS**

Sand; Very Light Orange to Moderate Light Gray; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-45%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa; Archaia angulatus

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**CR-10-BB**

Sand; Very Light Orange to Moderate Light Gray; Grain Size: Medium; Range: Fine to Very Course; Roundness: Angular to Subrounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-50%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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**Beach Sample Location CR-11****CR-11-SS**

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

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**CR-11-BB**

Sand; Yellowish Gray to Very Light Orange; Grain Size: Medium; Range: Fine to Very Course; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-20%, Heavy Minerals-<1%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa;

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**Beach Sample Location CR-12****CR-12-SS**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Medium; Range: Fine to Very Course; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-50%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa;

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**CR-12-BB**

Sand; Yellowish Gray to Moderate Light Gray; Grain Size: Course; Range: Fine to Very Course; Roundness: Angular to Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-20%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid; *Archaias* sp. (weathered)

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**Beach Sample Location CR-13****CR-13-SS**

Shell Bed; Very Light Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-15%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa; *Archaias angulatus*

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**CR-13-BB**

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

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**Beach Sample Location CR-14****CR-14**

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

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**Beach Sample Location CR-15****CR-15**

Sand; Very Light Orange to Moderate Light Gray; Grain Size: Course; Range: Medium to Very Course; Roundness: Angular to Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-30%; Other Features: Weathered; Fossils: Fossil Fragments, Benthic Foraminifera; *Archaias angulatus*

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**Beach Sample Location CR-16****CR-16-SS**

Sand; Very Light Orange to Moderate Light Gray; Grain Size: Course; Range: Medium to Very Course; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-25%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Benthic Foraminifera; *Archaias angulatus*

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**CR-16-BB**

Sand; Very Light Orange to Light Gray; Grain Size: Medium; Range: Fine to Very Course; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-15%; Other Features: Weathered; Fossils: Fossil Fragments, Echinoid, Mollusks;

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**Beach Sample Location CR-17****CR-17-SS**

Sand; Very Light Orange to Moderate Light Gray; Grain Size: Course; Range: Medium to Very Course; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-40%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Bryozoa, Echinoid; *Archaias angulatus*

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**CR-17-BB**

Sand; Very Light Orange to Very Light Gray; Grain Size: Medium; Range: Fine to Granule (2-4 mm); Roundness: Angular to Rounded; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-12%; Other Features: Weathered; Fossils: Fossil Fragments; Well-graded

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**Beach Sample Location CR-18****CR-18-SS**

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

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**CR-18-BB**

Sand; Very Light Orange to Light Olive Gray; Grain Size: Course; Range: Medium to Very Course; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-15%; Other Features: Weathered; Fossils: Fossil Fragments;

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**Beach Sample Location CR-19****CR-19**

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

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## **Beach Sample Location CR-20**

### **CR-20**

Sand; Very Light Orange to Light Gray; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Rounded; Low Sphericity; Unconsolidated; Accessory Minerals: Shell-40%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Benthic Foraminifera; *Archaia angulatus*

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## **Beach Sample Location CR-21**

### **CR-21**

Sand; Yellowish Gray to Light Gray; Grain Size: Fine; Range: Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-15%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles, Benthic Foraminifera; *Archaia angulatus*

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## **Beach Sample Location CR-22**

### **CR-22**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-15%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa, Echinoid; *Archaia angulatus*

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## **Beach Sample Location CR-23**

### **CR-23**

Sand; Very Light Orange to Very Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-15%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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## **Beach Sample Location CR-24**

### **CR-24**

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

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## **Beach Sample Location CR-25**

### **CR-25**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Medium; Range: Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-03%, Heavy Minerals-01%; Fossils: Fossil Fragments;

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## **Beach Sample Location CR-26**

### **CR-26-SS**

Shell Bed; Very Light Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-40%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa;

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### **CR-26-BB**

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

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## **Beach Sample Location CR-27**

### **CR-27**

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

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## **Beach Sample Location CR-28**

### **CR-28**

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-45%; Other Features: Weathered; Fossils: Fossil Fragments, Mollusks, Barnacles, Crustacea, Echinoid; Isopod present (*Cirolana* sp.)

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## **Beach Sample Location CR-29**

### **CR-29**

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

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## **Beach Sample Location CR-30**

### **CR-30-SS**

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

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### **CR-30-BB**

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

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## **Beach Sample Location CR-31**

### **CR-31**

Sand; Very Light Gray to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Heavy Minerals-01%, Shell-<1%; Fossils: Fossil Fragments, Mollusks;

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## **Beach Sample Location CR-32**

### **CR-32**

Sand; Very Light Orange 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;

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## **Beach Sample Location CR-33**

### **CR-33**

Sand; Very Light Orange; Grain Size: Fine; Range: Very Fine to Course; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-03%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks;

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## **Beach Sample Location CR-34**

### **CR-34-SS**

Shell Bed; Very Light Orange to Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-20%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa;

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### **CR-34-BB**

Sand; Very Light Orange to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-15%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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## **Beach Sample Location CR-35**

### **CR-35**

Shell Bed; Very Light Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-40%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid, Bryozoa;

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## **Beach Sample Location CR-36**

### **CR-36-SS**

Shell Bed; Very Light Orange to Moderate Light Gray; Unconsolidated; Accessory Minerals: Quartz Sand-40%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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### **CR-36-BB**

Sand; Very Light Orange to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-03%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks;

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## **Beach Sample Location CR-37**

### **CR-37-SS**

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

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### **CR-37-MB**

Sand; Very Light Gray to Very Light Orange; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Unconsolidated; Accessory Minerals: Shell-03%, Heavy Minerals-01%; Fossils: Fossil Fragments, Mollusks;

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### **CR-37-BB**

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

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## **Beach Sample Location CR-38**

### **CR-38-SS**

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

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### **CR-38-MB**

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

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### **CR-38-BB**

Sand; Very Light Gray to Very Light Orange; Grain Size: Medium; Range: Fine to Course; Roundness: Angular to Subangular; Low Sphericity; Accessory Minerals: Shell-40%, Calcilitite-02%; Fossils: Fossil Fragments, Mollusks, Barnacles, Bryozoa;

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## **Beach Sample Location CR-39**

### **CR-39-SS**

Shell Bed; Very Light Orange to Moderate Light Gray; Accessory Minerals: Quartz Sand-40%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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### **CR-39-BB**

Sand; Very Light Orange to Light Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Low Sphericity; Accessory Minerals: Shell-45%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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## **Beach Sample Location CR-40**

### **CR-40-SS**

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

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### **CR-40-BB**

Shell Bed; Very Light Orange to Moderate Light Gray; Accessory Minerals: Quartz Sand-25%; Fossils: Fossil Fragments, Mollusks, Barnacles, Echinoid;

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## **Beach Sample Location CR-41**

### **CR-41-SS**

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

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### **CR-41-BB**

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

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## **Beach Sample Location CR-43**

### **CR-43-SS**

Sand; Very Light Orange to Yellowish Gray; Grain Size: Medium; Range: Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Accesory Minerals: Shell-03%, Heavy Minerals-02%; Fossils: Fossil Fragments;

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### **CR-43-MB**

Sand; Very Light Orange to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Accesory Minerals: Shell-03%, Heavy Minerals-<1%; Fossils: Fossil Fragments;

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### **CR-43-BB**

Sand; Very Light Orange to Yellowish Gray; Grain Size: Fine; Range: Very Fine to Medium; Roundness: Angular to Subangular; Medium Sphericity; Accesory Minerals: Shell-02%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Plant Remains;

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## **Beach Sample Location CR-46**

### **CR-46**

Sand; Very Light Orange to Moderate Light Gray; Grain Size: Medium; Range: Very Fine to Course; Roundness: Angular to Subangular; Low Sphericity; Accesory Minerals: Shell-25%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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## **Beach Sample Location CR-47**

### **CR-47**

Shell Bed; Very Light Orange to Moderate Light Gray; Accesory Minerals: Quartz Sand-10%, Heavy Minerals-<1%; Fossils: Fossil Fragments, Mollusks, Barnacles;

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