

Red Tide Impact Plan

Principle Points of Contact

- Kelli Hammer Levy, Incident Commander, 727-464-3317
- Sean Tipton, Operations Chief (*Contractor POC*), 727-464-8809
- Sean Hannigan, Operations, 727-464-3089
- ~~Michelle Monteclaro, Operations, 727 464 8899~~



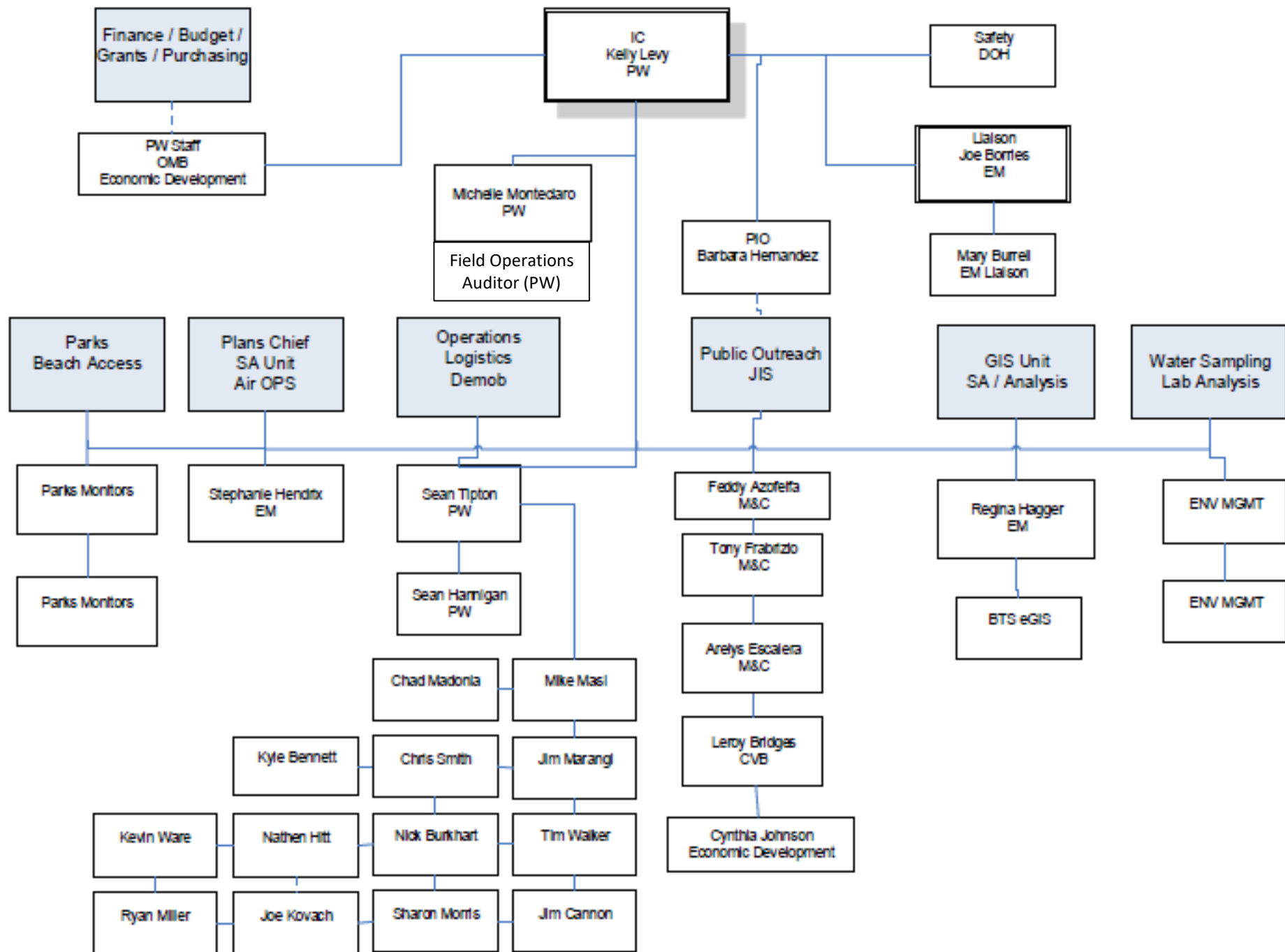
Overview

- Objectives
- Organization Chart
- Daily workflow
- Operational overview
 - Operations
 - County monitors – General Duties
 - Documentation
 - Wildlife reporting and coordination
 - Citizen requests, pre and post inspections
 - Dumpster management
 - Solid Waste coordination
 - Tracking and reporting
- Red Tide Monitoring
 - Sample collection and analysis
 - Reporting
 - Beach conditions
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 - USF, NOAA, FWC
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 - Partners
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Objectives

- Provide for public health and safety at public beaches and waterways.
- Remove red tide debris offshore to prevent onshore wash up.
- Remove red tide debris from Bay waters and the ICW and associated canals.
- Hand removal and machine rake beach shoreline in coordination with municipalities.
- Maintain adequate roll off dumpster rotation to support cleanup efforts and minimize conflicts.
- Provide accurate and timely red tide status to partners, citizens, visitors and hoteliers.
- Produce a daily Red Tide update [report](#) and [post](#) to social media.
- Sample, analyze, and report on red tide concentrations 4-7 times per week.





Daily Workflow

Time: Actions:

- 0700 Morning Staff Briefings
- 0730 County staff beach inspections.
- 0730 Debris Contractor resources mobilized
- 0730 Waste Management resources mobilized.
- 0800 Debris Volume available
- 0830 Sea turtle monitoring all clear
- 0830 Contractor resources deployed
- 0900 FDEP Status Reports
- 1000 Post morning beach conditions report
- 0730 PC Staff start water sample collection
- 0900 PCSO flights radio communication (as scheduled)
- 1000 Prior Day Status Report and Beach Conditions Reports

Time: Actions:

- 1000 County and Municipal Conference Call (as needed)
- 1200 Situation report published by Emergency Management (as needed)
- 1230 Lunch
- 1400 Ongoing beach inspections until work is complete
- 1430 Regional Conference Call (As scheduled by state EM)
- 1500 Post beach conditions report
- 1600 Water sample reports available (as scheduled)
- 1700 Report posted on Red Tide Webpage and Facebook
- 1700 Report emailed with operational update to all partners
- 1900 Offshore work as scheduled

Operational Overview

- The county utilizes the approved Debris Management Contract with an amended scope and line item list specific to class 3 biological hazards. This is a time and materials contract.
- A copy of the current contract and line item costs is available [here](#).
- Municipal and county staff supplement the contractor's beach operations as needed and Clearwater maintains their north beach with assistance as requested.
- After coordination with the Operations Chief and approval from the Incident Commander:
 - The contractor operates the manual and mechanical beach operations.
 - The contractor operates the offshore and onshore harvesting activities.
 - The contractor is responsible for dumpster delivery, maintenance, and hauling.
- All debris is processed through Pinellas County Solid Waste.
- County performs municipal and contractor coordination and monitoring of contractual services.

County Monitors – General Duties

- Work shall not commence until FWC permitted Turtle Monitors clear the beach.
- [FWC guidelines](#) shall be followed when driving on the beach.
- All employees will wear N95 masks when respiratory irritation is present.
- Document date, time, and location of contracted work.
- Document how many contracted staff are working and position titles and for how long.
- What assets are the contractor utilizing and for how long.
 - Ensure coordination for equipment staging specified in Appendix A.
- Document PPE and rolling stock including consumables.
- Number, location, and fill volume of dumpsters.
 - Ensure location coordination as specified in Appendix A.
- Date and time dumpsters are removed for disposal.
- Ensure dumpsters are emptied before they become a nuisance and report maintenance needs.
- Utilize collector app for dumpster locations and [Inspection App](#) for conditions and end of day documentation report.
- POC with FWC, CMA, and bird rescue for sea turtles and other protected species and birds.
- Citizen requests
 - Review work requests in [App](#), investigate and update database with observations and service needs. Upon notice of work completed, re-inspect and update App accordingly.
- Report beach condition observations at 9AM and 3PM each day.

County Monitors – General Duties

- Sea Turtles FWC: 888-404-3922
- (Information for reporting to FWC)
 - What is the exact location of the animal?
 - Is the turtle alive or dead?
 - What is the approximate size of the turtle?
 - Is the turtle marked with spray paint? (This may indicate that the turtle has been previously documented.)
 - What is the location of the closest access point to the turtle?
- Coordinate drop off of dead sea turtles with CMA: 727-441-1790
- Red tide impacted birds:
 - Birds in Helping Hands Wildlife Rescue
 - 727-365-4592 or 904-703-2815
- Manatees and other marine mammals (Information for reporting to FWC)
 - What is the exact location of the animal?
 - Is the manatee alive or dead?
 - How long have you been observing the manatee?
 - What is the approximate size of the manatee?
 - What is the location of the public boat ramp closest to the manatee?
 - Your contact number.
- Fish Kills and fish species of concern (e.g. Goliath Grouper)
 - Fish Kill Hotline: 800-636-0511
 - Online reporting:
<https://public.myfwc.com/FWRI/FishKillReport/Submit.aspx>

County Monitors – Dumpster Management

- Requests for dumpsters are coordinated through the contractor via the Operations Chief.
- It is recommended to utilize liners with a sand layer to minimize leakage and to minimize tears in the liner.
- Dumpsters that stay in place overnight are to be covered with tarps, secured, and deodorized.
- All full dumpsters must be emptied by COB.
- On Sunday full dumpsters are to be hauled to the temporary staging area at SW's FOG Plant. The gate is open 7a.m. – 5p.m.
- As needed, dumpster staging locations are to be pressure washed utilizing an environmentally safe deodorizing product, all NPDES guidelines are to be followed.
- In sodded or vegetated areas, garden lime can be used to minimize odors.
- Dumpster conditions are documented utilizing the Inspection App and Dumpster locations are updated in the [Location App](#).
- Dumpster reports are to be finalized and placed on [server](#) in the project folder.

County Monitors - Solid Waste Coordination

- All contractor vehicles and containers must be pre-registered with Solid Waste.
- CALL 1 HR in advance of drop off 727-464-7500.
- Open Monday to Friday 6 a.m. to 6 p.m. and Saturday 7 a.m. to 5 p.m.
- SW is closed on Sundays, scales are not available.
- On Sunday temporary staging is available at SW's FOG Plant. The gate is open 7a.m. – 5p.m.

County Monitors – Tracking and Reporting

- County employees (monitors) are staged with contractors at primary work locations.
- Monitors track contractual services using the [daily tracking form](#).
- Completed reports are sent to the Operations Chief for review.
- Upon approval, the final form is uploaded to the [server](#).
- Beach conditions reporting, send email as assigned
- Issues or concerns are to be immediately communicated with the Operations Chief and/or Incident Commander

Red Tide Monitoring and Reporting

- County employees will implement a red tide monitoring plan to collect water samples from pre-selected locations.
- County employees together with municipal staff and volunteers may participate in the sample collection.
- The schedule will be developed each week and shall depend on the severity and extent of the bloom.
- Samples will be delivered to the county's laboratory for analysis.
- Unpreserved samples will be analyzed using the HABScope per NOAA/FWC protocols.
- Preserved samples will be analyzed utilizing traditional microscope-based manual counts.
- All activities shall follow the county's [SOP for phytoplankton monitoring](#), field data collection, and analysis.
- All activities shall be consistent with state protocols to ensure comparability.
- Data will be uploaded through the HABScope portal for use in the respiratory forecast tool utilizing the [CSV template](#).
- Data will also be updated in the [ARCGIS map](#) for publication in the red tide report.
- The monitoring report will follow the [approved format](#) and will be updated after every monitoring event.
- After complete, the report will be emailed to the Red Tide Update user group and posted to the [website](#).
- The map will be posted with general information on the [Pinellas County Environmental News Facebook page](#).

Beach Conditions Updates

- Operations monitors collect data at the designated locations in the [spreadsheet](#).
- Reports are sent to the operations team at 9am and 3pm.
- Data is compiled and emailed to the Beach Conditions email group.
- Information is posted on [Facebook](#) and at <http://www.beachesupdate.com/> upon receipt.
- [NOAA respiratory forecast](#) is posted to [Facebook](#) on Tues, Thurs, Sat, and Sun.

Observational Data Collected:

- Odors: none, slight, mild, or strong
- Irritation: none, slight, mild, or strong
- Dead fish: none, few, many, and clean up status
- Water color- clear, cloudy, slightly discolored, or dark/discolored

Aerial Support

- To support offshore harvesting operations, requests will be made through Emergency Management for aerial support from the Pinellas County Sheriff or the U.S. Coast Guard.
- Requests will be made as satellite, monitoring, wind, and current data indicate that onshore impacts may be eminent or increasing or to support ongoing harvesting during periods of significant impacts.
- Pinellas County Sheriff will notify the Incident Commander of the start time.
 - Information of importance – aerial extent of bloom and proximity to shore, areas of extensive red tide debris to target harvesting efforts, large mammals (sea turtles, dolphins, others) and lat/long.
- Operations staff will monitor radios on PCW – 1 for observational reports.
- For U.S. Coast Guard flights county personnel will be on the helicopter and collect the necessary data and photographs.

Red Tide Monitoring Coordination and Resources

- USF IRIS - <https://optics.marine.usf.edu/projects/IRIS.html>
 - Contact Chaunmin Hu, 727-553-3987, huc@usf.edu
- USF Ocean Circulation Group Red Tide Prediction and Tracking
http://ocgweb.marine.usf.edu/hab_tracking/
 - Dr. Robert H. Weisberg, 727-553-1568, weisberg@usf.edu
- FWC Red Tide Group and HabScope training
<http://myfwc.com/redtidestatus>
 - Katherine Hubbard, 727-502-4961, Katherine.Hubbard@MyFWC.com
- Respiratory Forecast and HabScope data
<https://habscope.gcoos.org/forecasts>
 - Barb Kirkpatrick, GCOOS, 941-724-4320, barb.kirkpatrick@gcoos.org
 - Rick Stumpf, NOAA, 240-533-0338, richard.stumpf@noaa.gov

Communications

- Media updates are issued daily.
- County-City conference call every Friday.
- Red Tide status reports emailed to the Red Tide Update Group and posted to the web and social media. Other operational and informational updates as needed.
- Participation in State EOC calls as scheduled.
- Social Media
 - County Facebook and County Environmental News Facebook
 - Twitter
 - Nextdoor
- Website: www.pinellascounty.org/redtide
- Other: Alert Pinellas notifications

Grant and Invoicing Requirements

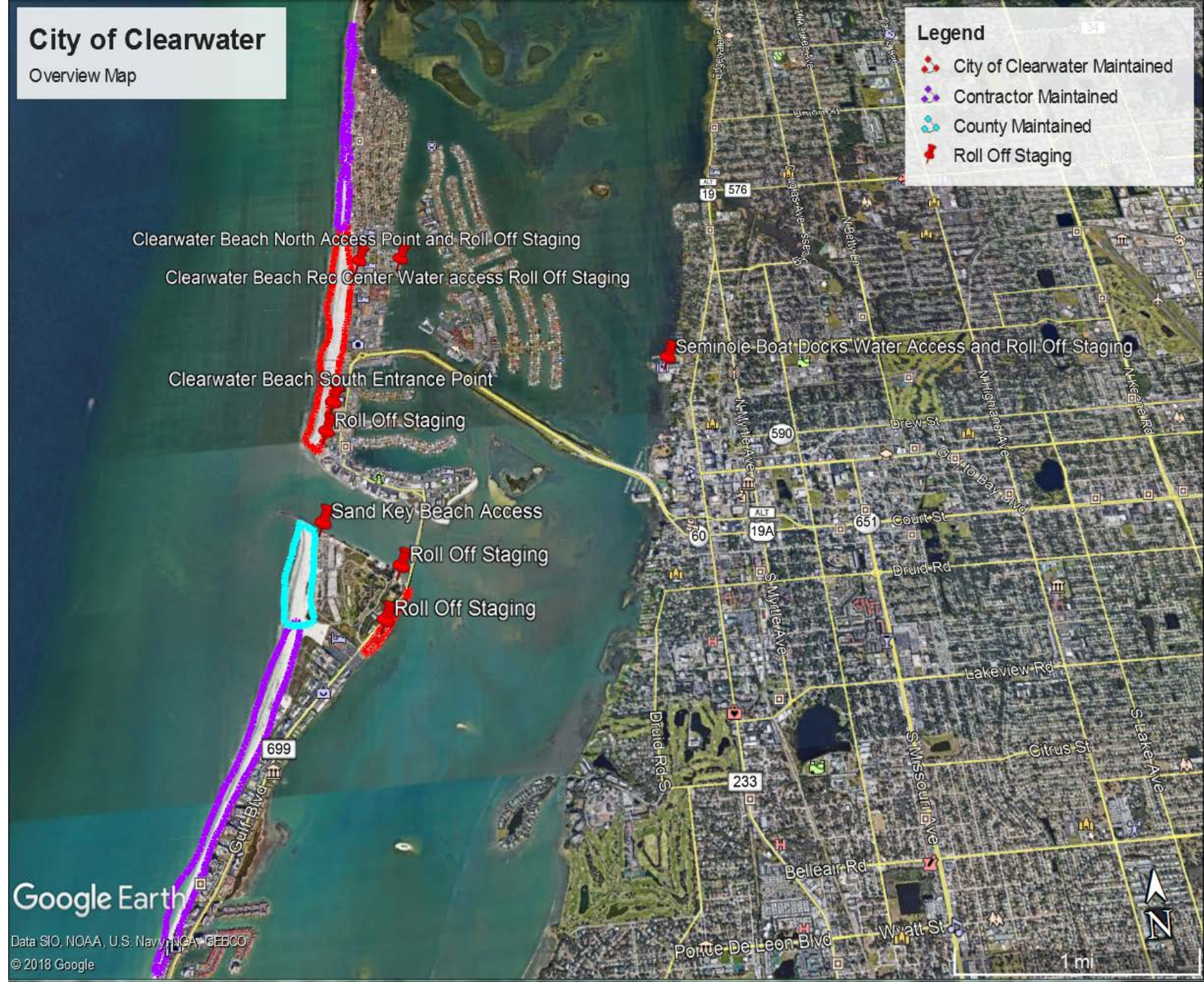
- Daily reports due to FDEP by 9AM Mon-Fri. Sat and Sun reports are submitted the following Monday.
- Grant agreements and reimbursement forms available [here](#).
 - Veronica Ettel, OMB Grant Contact
- Contractor invoices are to be pre-reviewed against county monitoring reports weekly. All discrepancies are to be documented and sent back to the contractor for corrections.
 - All invoicing must be accompanied by invoices for day labors, consumables, and other costs.
 - Billing questions are to be sent to ClerkFinanceDivisionFixedAssets@co.pinellas.fl.us with the word QUESTION in the subject line. CC. the Incident Commander and the Operations Chief
 - Once the invoicing has been preapproved by Budget POC, Operations Chief, and the Incident Commander, the invoices and back up are to be submitted electronically ClerkFinanceDivisionFixedAssets@co.pinellas.fl.us with the word INVOICE in the subject line.

Appendix A

- The attached pages include:
 - Equipment and dumpster staging areas
 - Vehicle beach access points, and
 - Points of Contact (POC) for each location
- Prior to moving into a location, the contractor will notify the county of schedule and the county will make contact with the POC for the city or county-owned property.
- POC (or designee) is responsible for advising the contractor on specific dumpster location and layout and areas where equipment can be staged on the property.

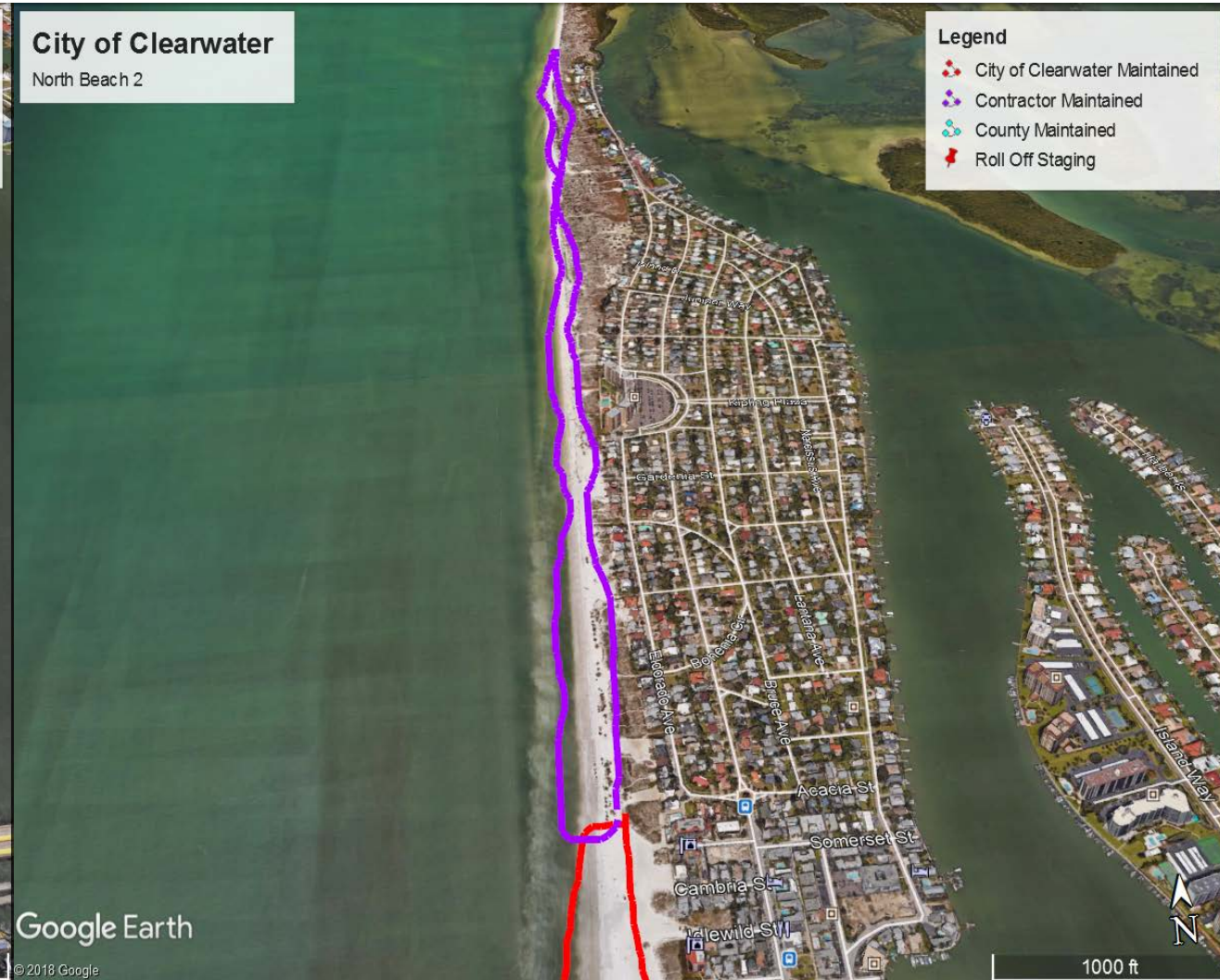
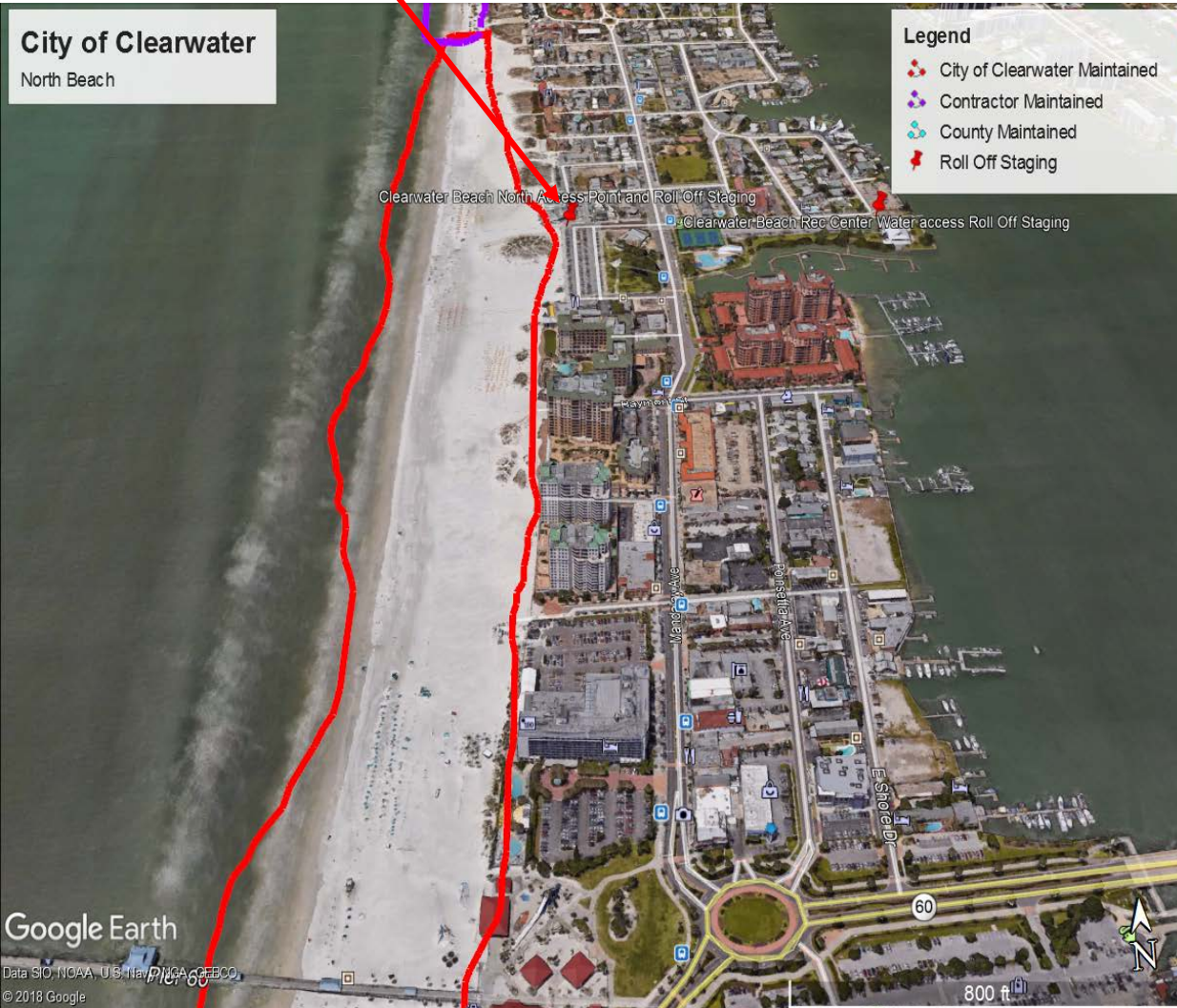
Clearwater Overview

POCs: Brian DeWitt
727-224-7587 and
Matt Anderson,
727-580-0436



Clearwater

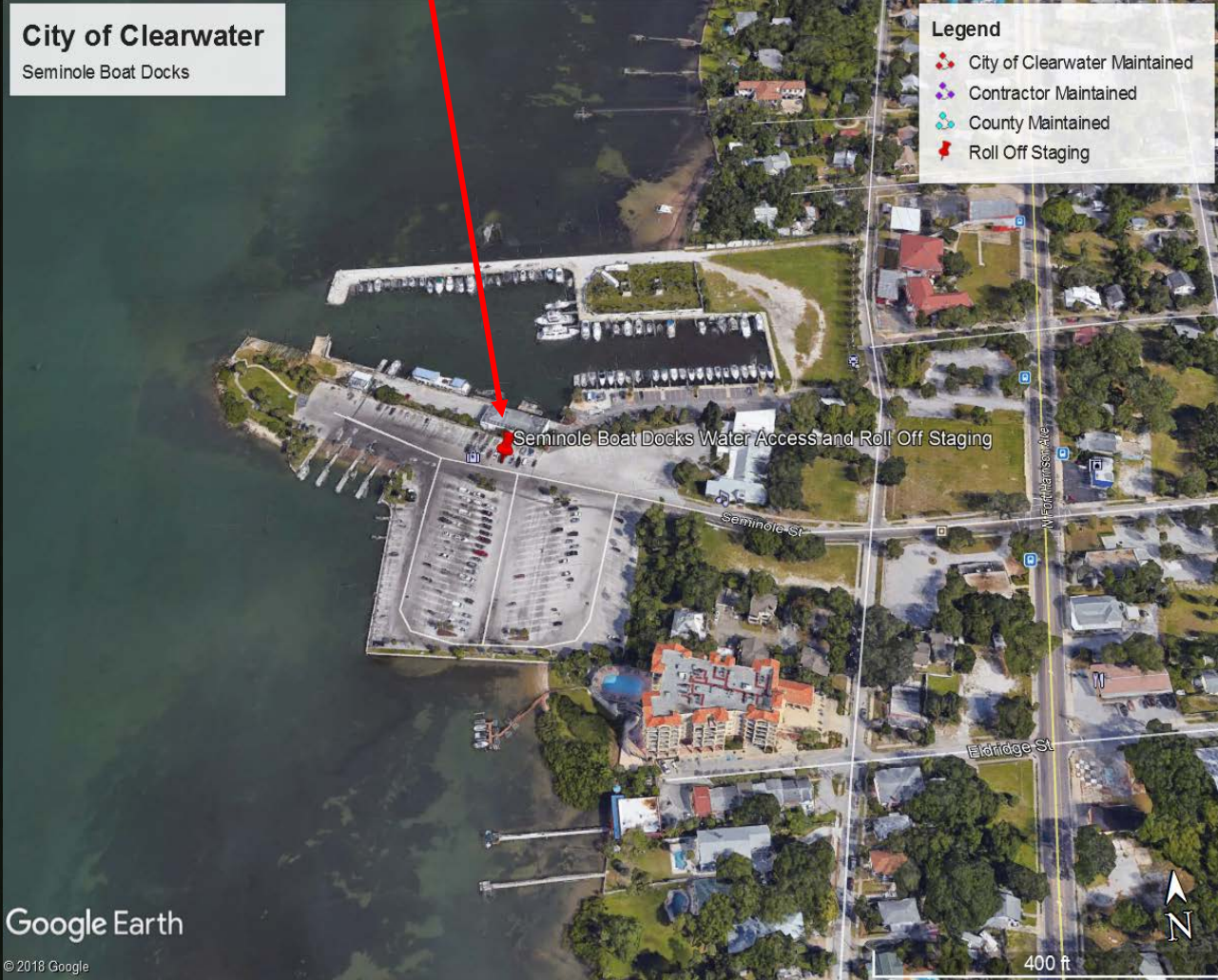
- Roll off staging - Parking lot N. of Rockaway and Mandalay



Clearwater

- City Rec Center– 69 Bay Esplanade

- Seminole Boat Ramp – Dead end of Seminole St. west of N. Osceola Ave



Clearwater

- South Beach roll off – city parking just north of 430 Gulfview Blvd

- Sand Key Park 950 Gulf Blvd Beach Access and roll off staging



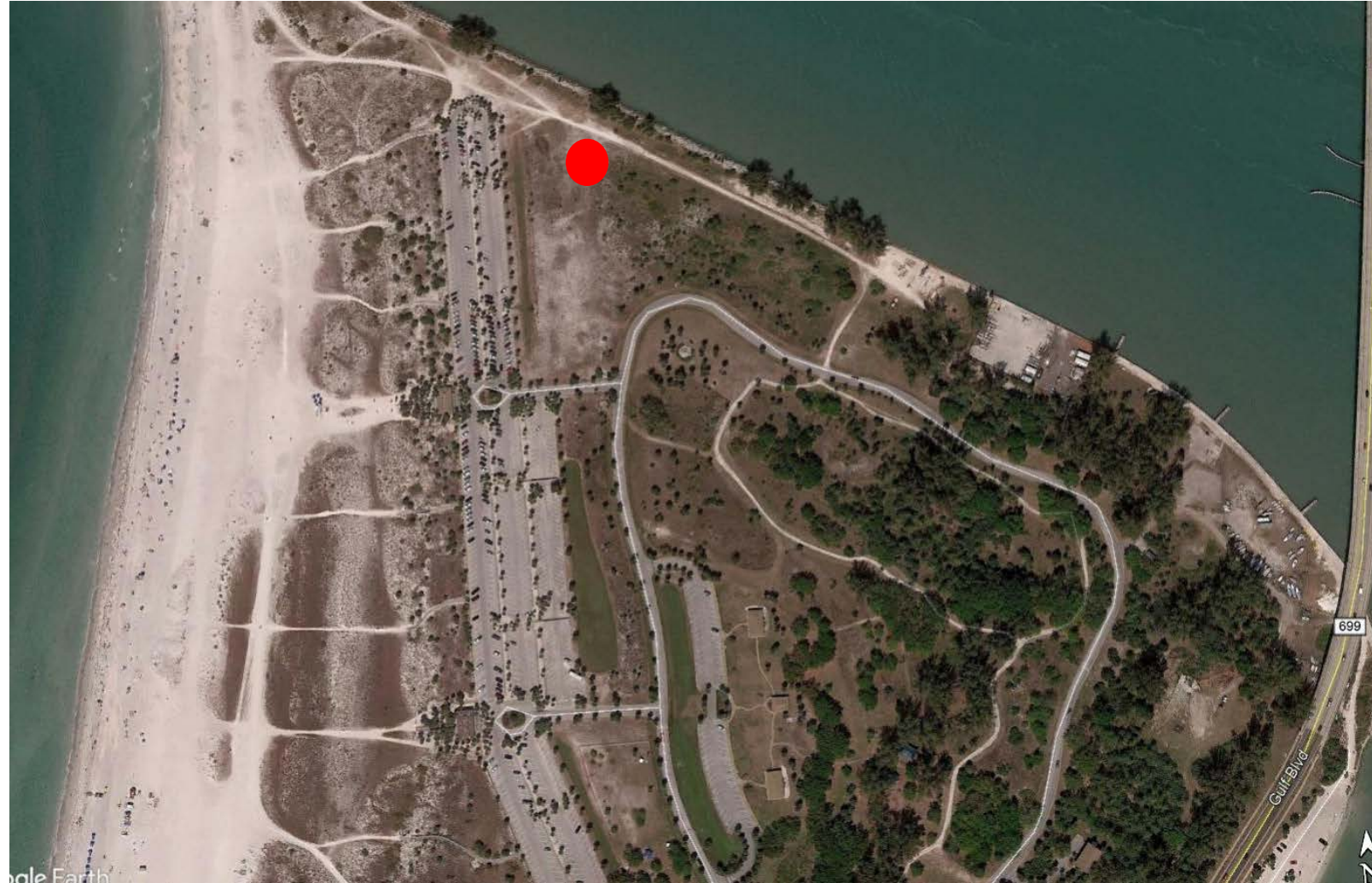
Clearwater

Roll off location - Clearwater Sailing Center 1001 Gulf Blvd



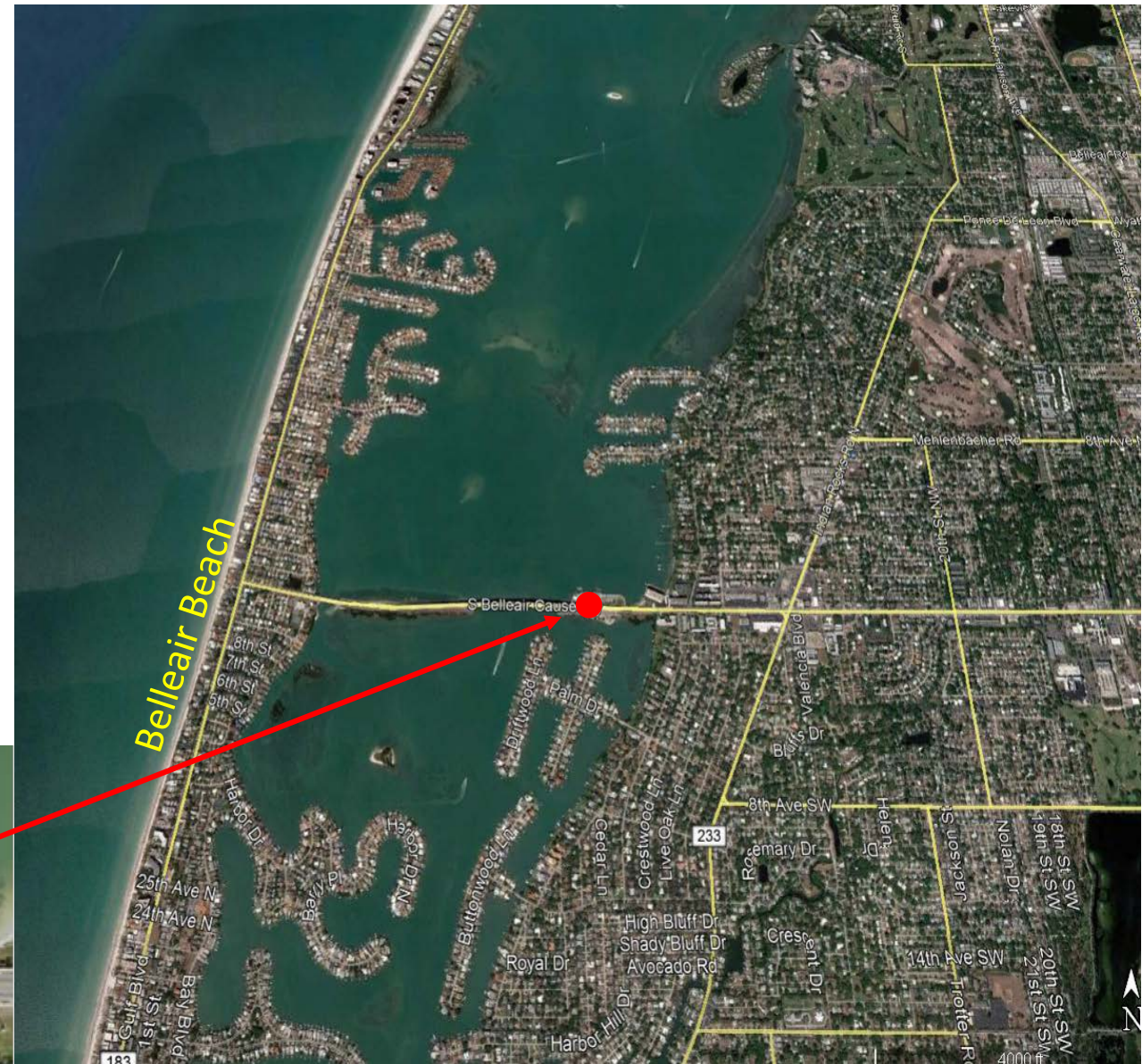
Sand Key Park

- Dumpster location
- POC: Paul Cozzie,
Parks Director, 727-
254-8880



Belleair Bluffs

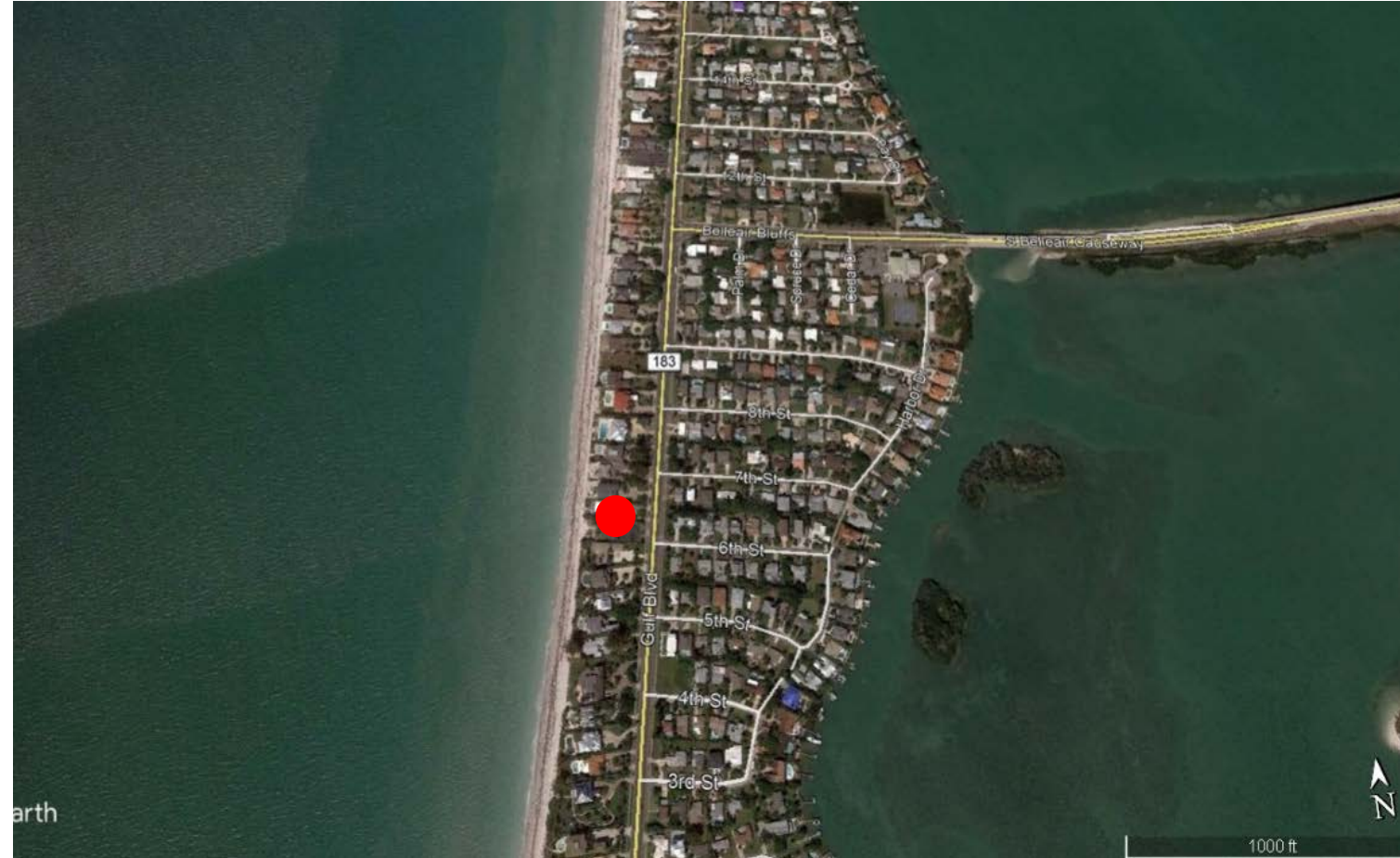
- Belleair Causeway Boat Ramp, County-owned facility
- Staging, boats, dumpsters
- POC: Paul Cozzie, Parks Director, 727-254-8880



Belleair Shores

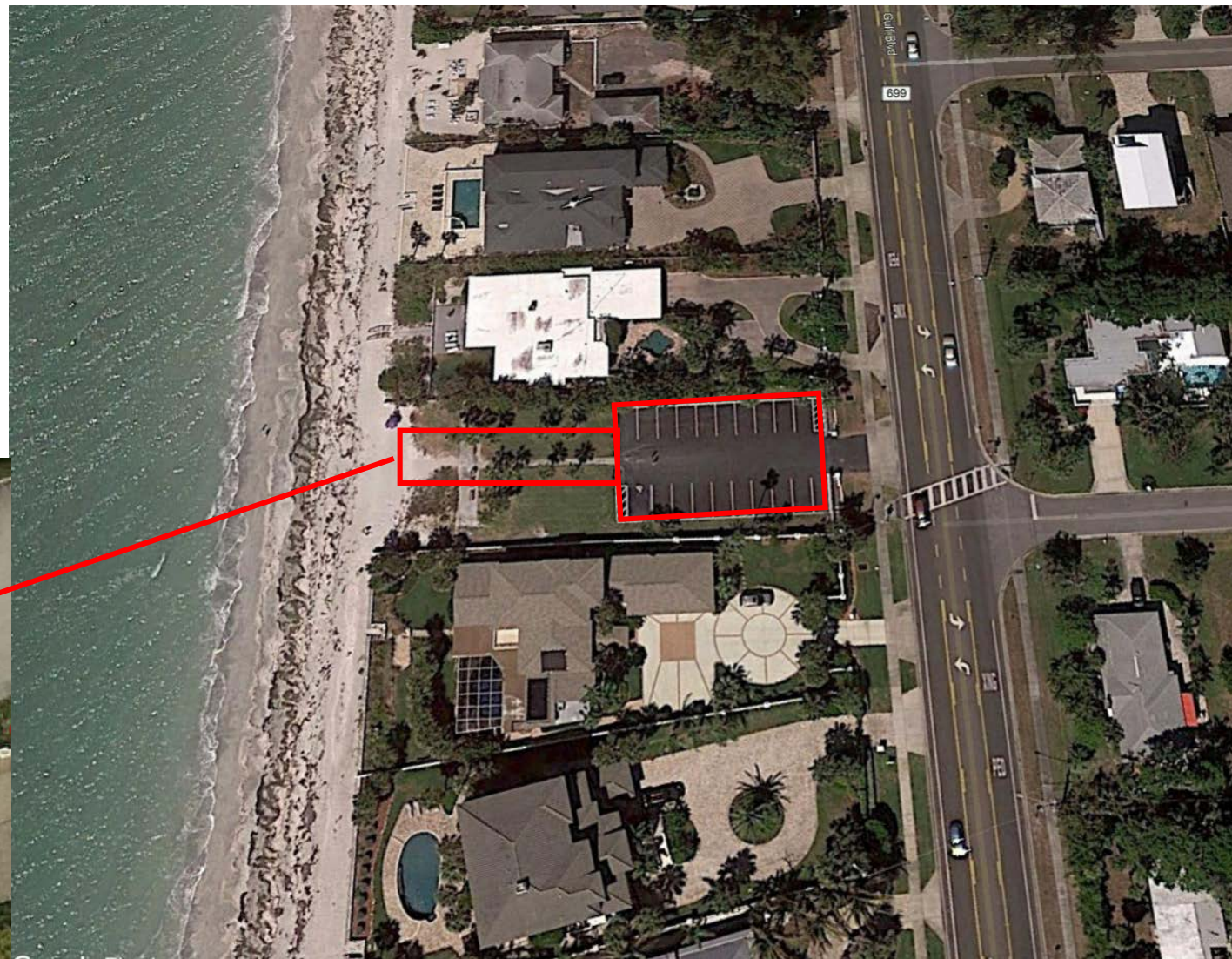
- 6th Street staging, dumpster, and vehicle access
- POC: Barb Colucci,
Town Clerk / Treasurer
727-593-9296

Details on following page



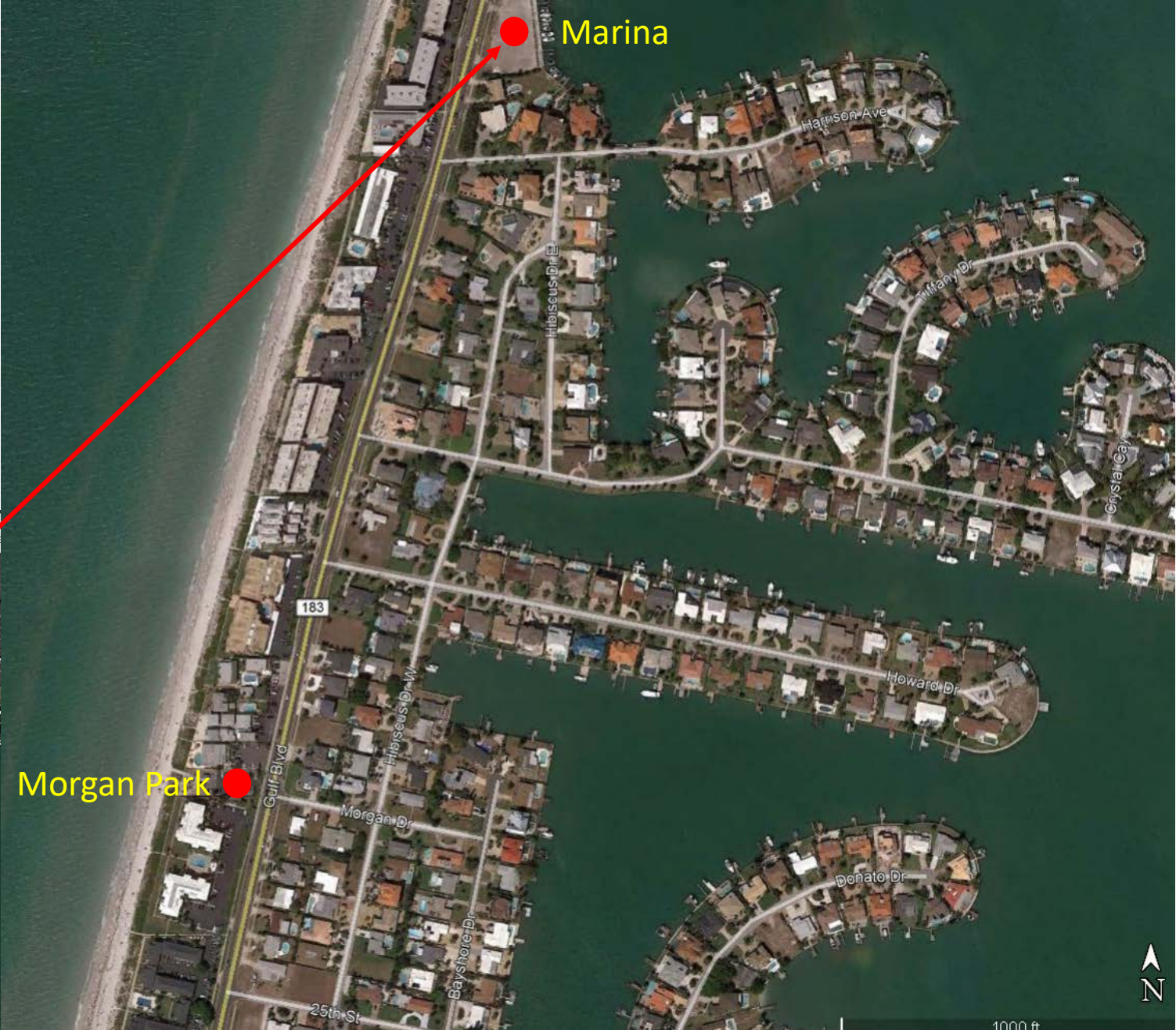
Belleair Shores

- 6th St at Gulf Blvd



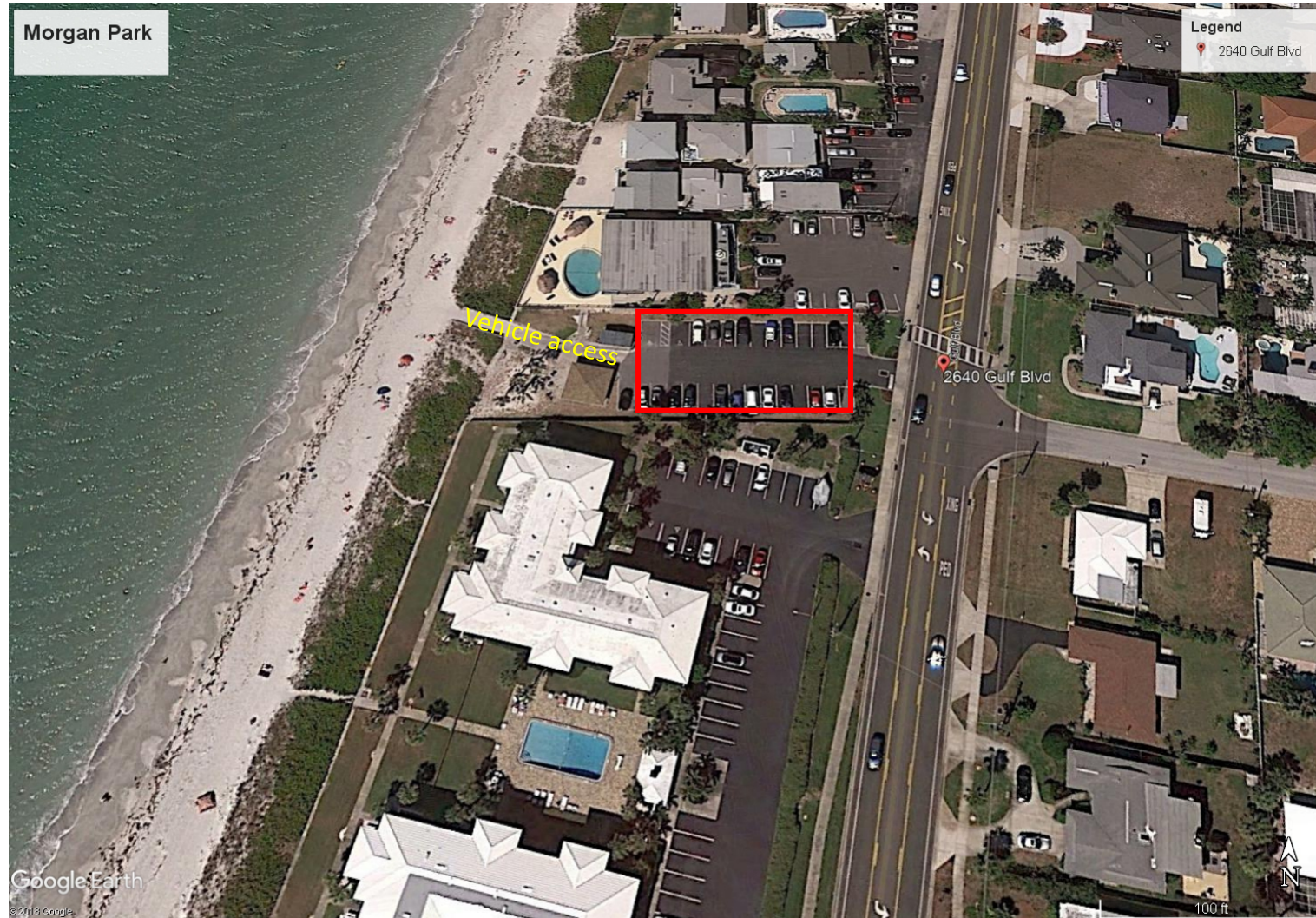
Belleair Beach

- Staging for equipment will be at the city's Marina 3505 Gulf Blvd.



Belleair Beach

- Vehicle access onto the beach and dumpster location shall be at Morgan Park 2640 Gulf Blvd.
- POC is Lynn Rives 727-595-4646 x121



Indian Rocks

- 19th Ave vehicle access
- County Beach Parking equipment staging no vehicle access to the beach
 - POC Paul Cozzie, 727-254-8880
- City POCs: Dean A. Scharmen, Public Services Director, 727/595-6889 (O) 727/580-0713(C) and Calvin Warren, Assistant Public Services Director, 727/595-6889 (O) 727/639-3574(C)



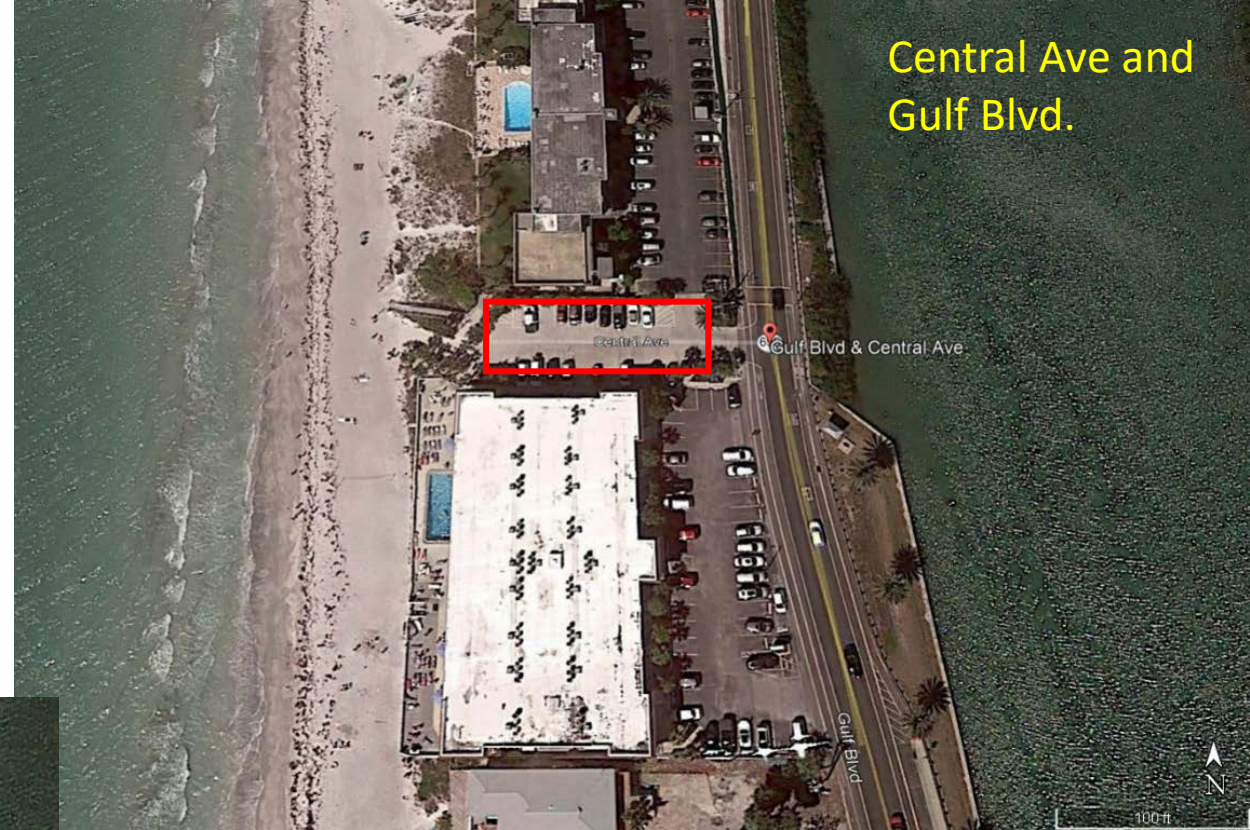
Indian Rocks

- 9th Ave. N. and 27th Ave. N. vehicle access, dumpsters, and staging



Indian Rocks

- Central Ave and Gulf Blvd.
 - Vehicle access, equipment staging, and dumpster location
- Whitehurst Ave and Gulf Blvd
 - Vehicle access



Central Ave and Gulf Blvd.

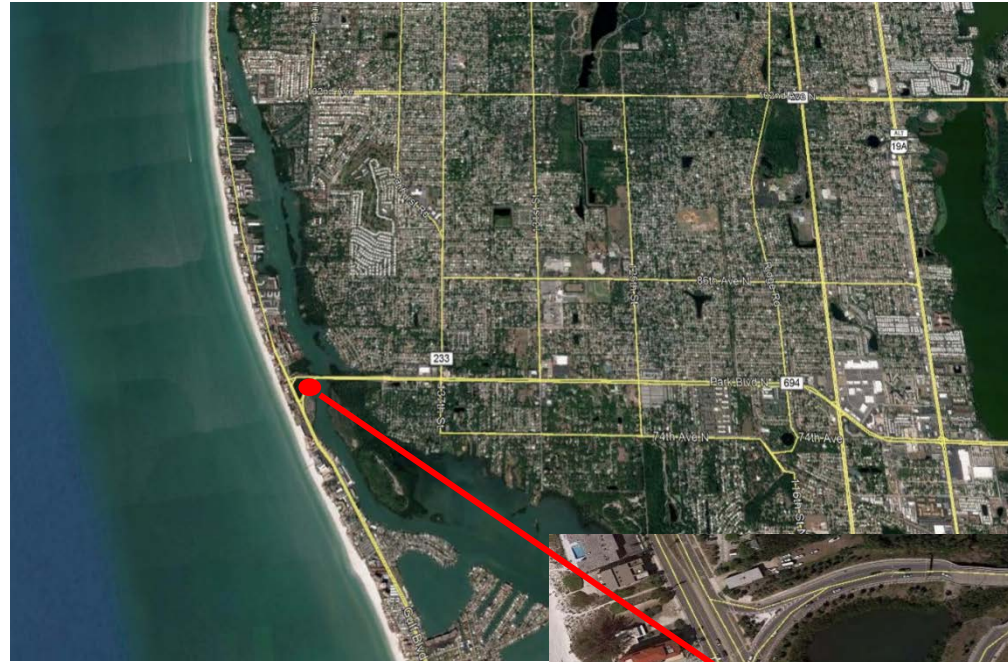


Whitehurst Ave and Gulf Blvd.

Vehicle access

Indian Shores

- 186th and Gulf Blvd
Park Blvd boat ramp
- Staging, boats,
dumpsters
- POC: Paul Cozzie,
Parks Director 727-
254-8880



Indian Shores

- 193rd and Gulf Blvd vehicle access point
- POC: Bonnie Dhonau, Town Administrator Office (727) 595-4020; Cell (727) 580-4792 and Darlyn Stockfisch, Administrative Assistant and PIO: Office (727) 595-4020; Cell (727) 420-7151



Indian Shores

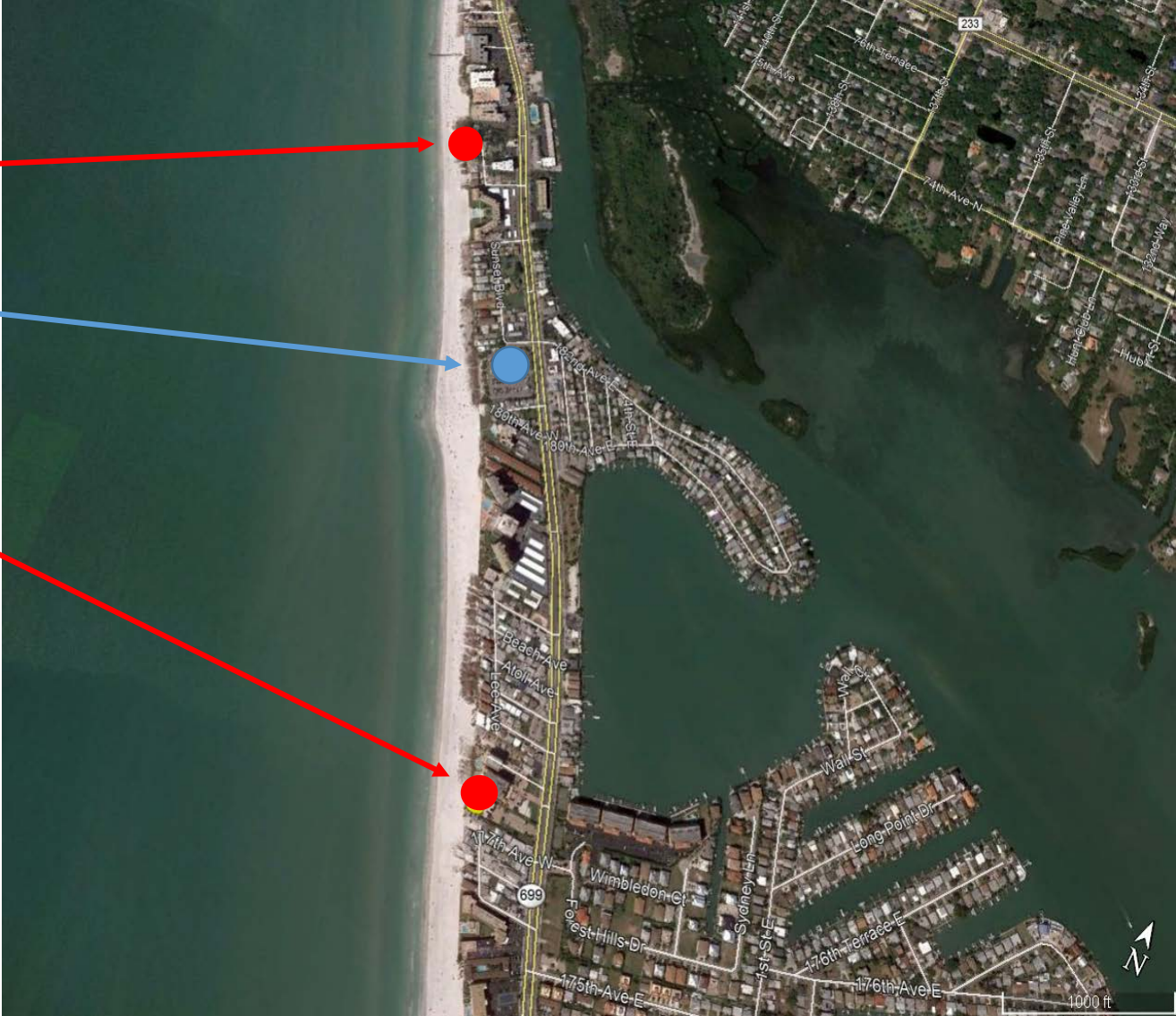
- Pinellas County Tiki Gardens Park (196th and Gulf Blvd E.)
 - Vehicle access
 - Staging equipment
 - Dumpster
- POC: Paul Cozzie, Parks Director 727-254-8880



Redington Shores Overview

- Vehicle Access
- Parking lot
- Vehicle Access

Details on following pages



Redington Shores

- County Beach Parking north of 181st Ave W. on Gulf Blvd. – dumpster and staging no vehicle access to beach
 - POC County: Paul Cozzie, Parks Director, 727-254-8880



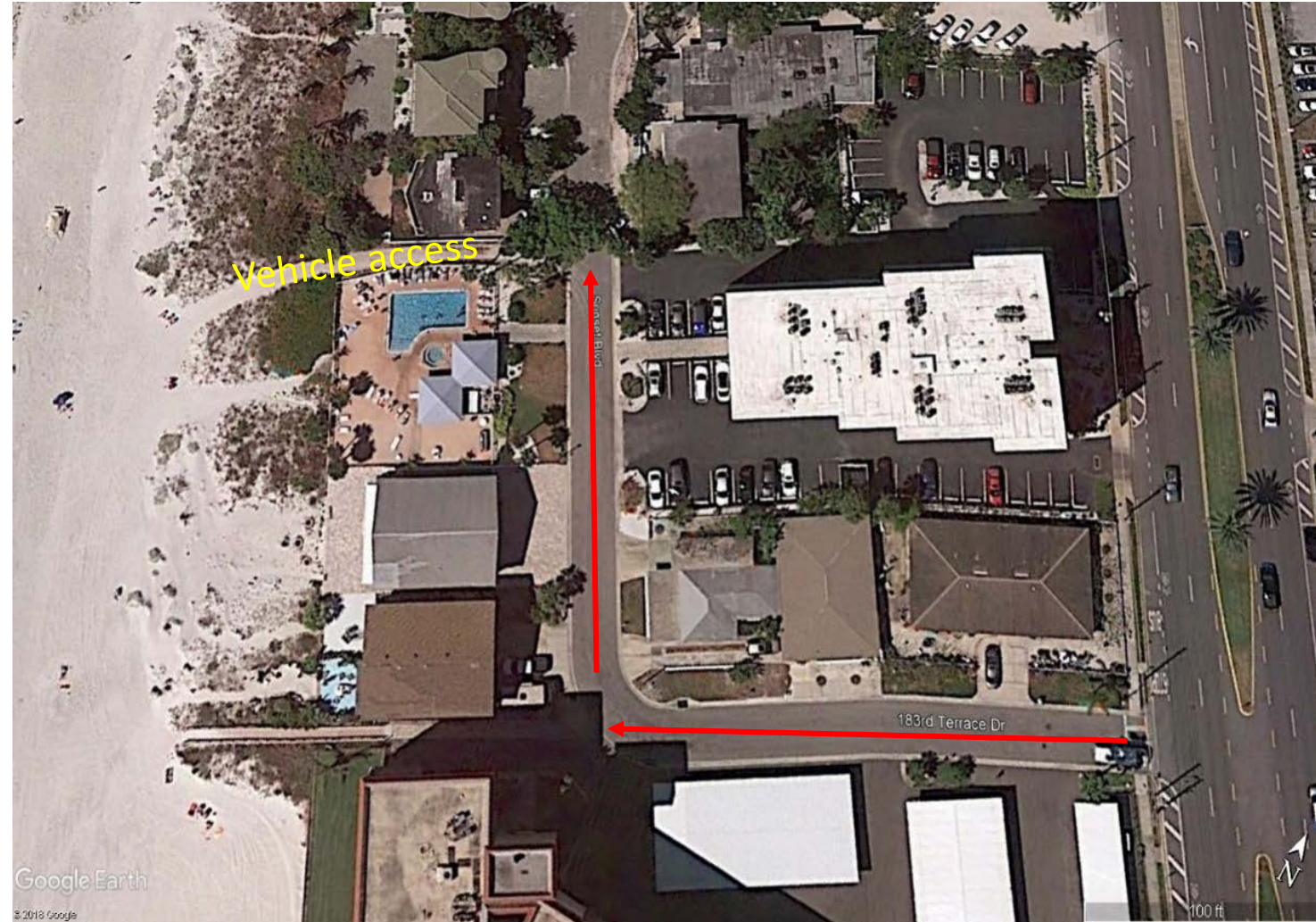
Redington Shores

- Vehicle access and dumpster: Gulf Blvd to 177th Ave W and Lee Ave.
- POC City:
Steve Jordan,
727-423-4256,
Brad Kelley,
727-423-4130,
Mary Palmer,
727-421-0109



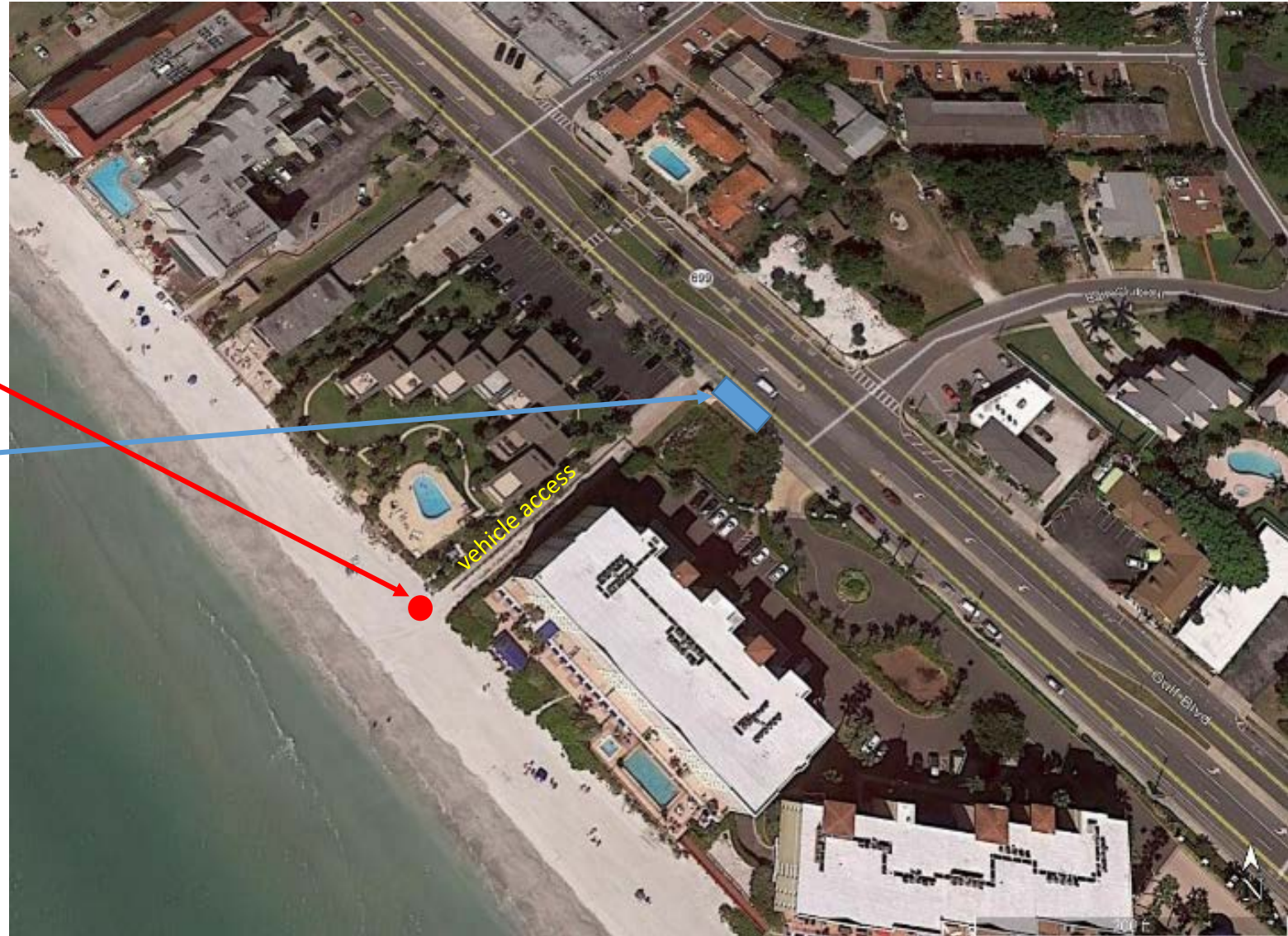
Redington Shores

- Vehicle access:
Gulf Blvd to 183rd
Terrace and
Sunset Blvd
- POC City:
Steve Jordan,
727-423-4256,
Brad Kelley,
727-423-4130,
Mary Palmer,
727-421-0109



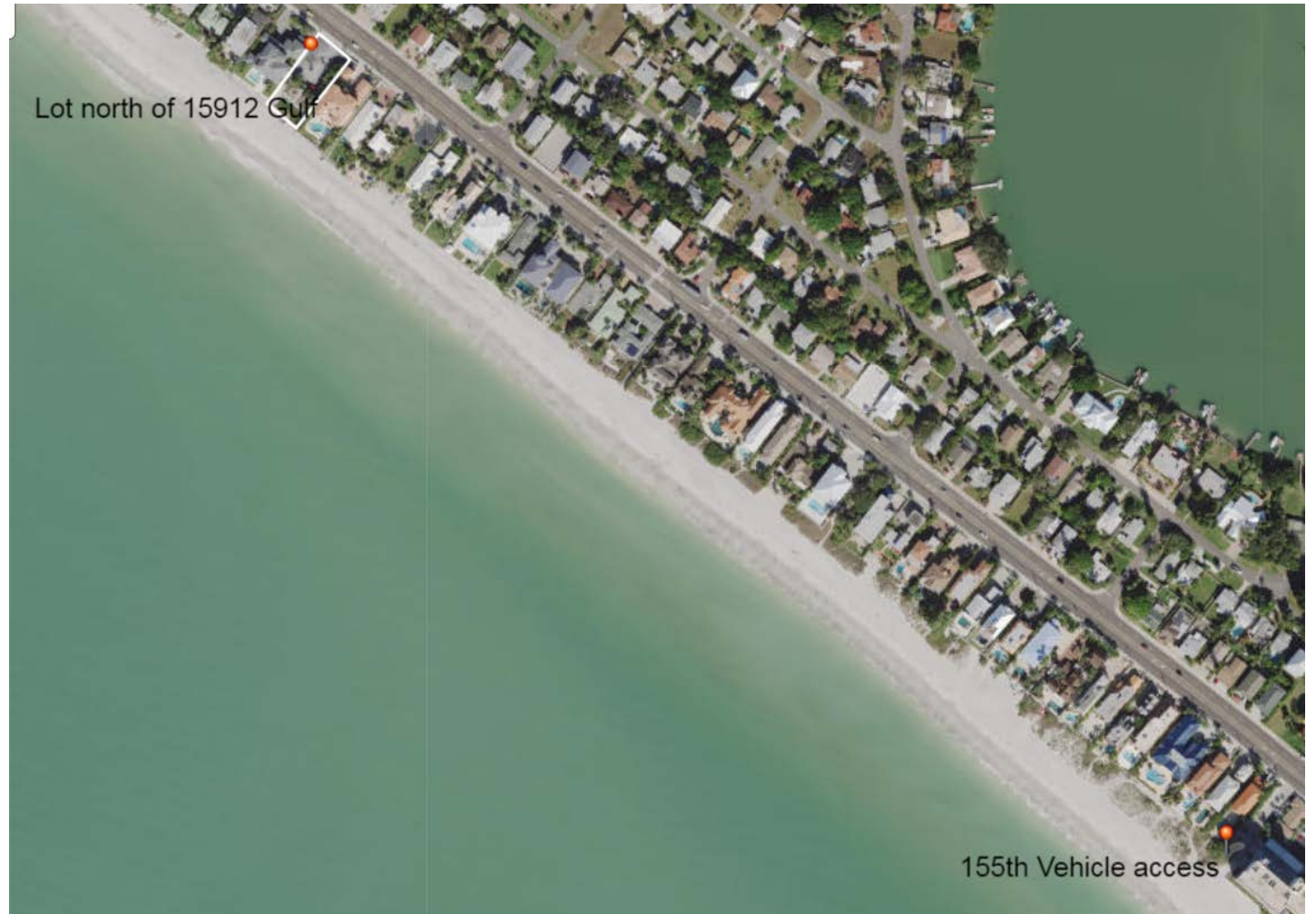
North Redington Beach

- Access area between 16750 and 16800 Gulf Blvd.
- Staging equipment
- Dumpster placement – parking spots on Gulf Blvd.
- POCs: Mari Campbell 727-391-4848 or Bill McQueen 727-560-1678



Redington Beach

- Parking lot north of 15912 Gulf Blvd. Equip/dumpster
- 155th vehicle access shared with Madeira
- POCs Missy Clark (Clerk) 218-929-2774 and Nick Simons (Mayor) 727-421-0885



Madeira Beach

- 155th vehicle access only
- Archibald Park
15100 Gulf Blvd
equipment and
dumpster location
- 135th vehicle access
and 5-6 parking
spaces that can be
used for a dumpster
- John's Pass Park
dumpster and
equipment staging



• County-owned site – next page

POC Megan Wepfer, Asst PW
Director. Cell 727-543-8154

Madeira Beach

- County-owned parking at 14400 Gulf Blvd.
- Dumpster, equipment staging, and vehicle access
- POC: Paul Cozzie, County Parks Director 727-254-8880



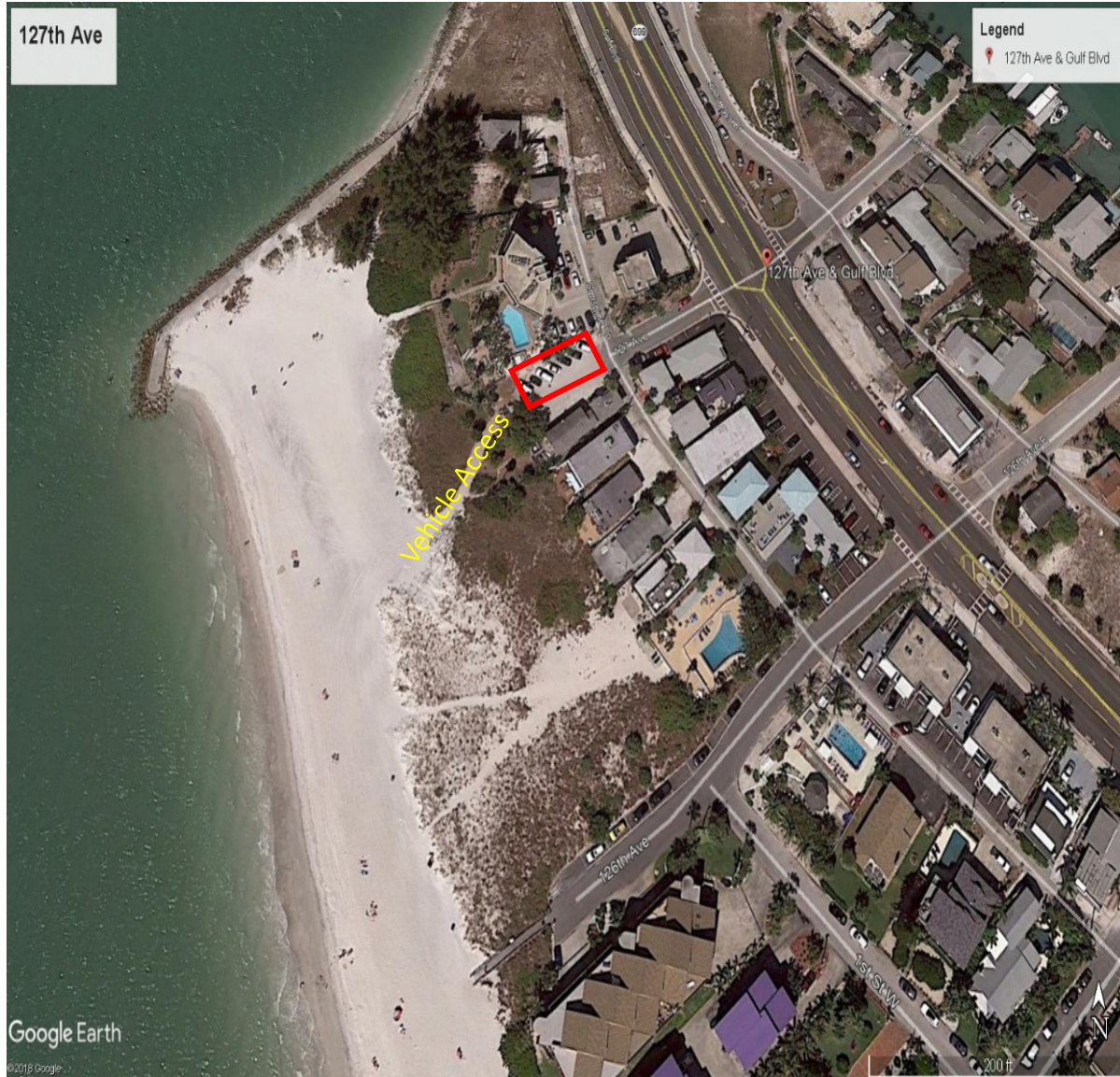
Treasure Island

- 127th in street, city owned ROW vehicle access and dumpster
- 119th possible for access no large equipment
- Gulf Front Park – Gulf Blvd at 104th. Equipment staging, vehicle access, and dumpsters.
- Caddy's – 9000 W. Gulf Blvd. Dumpster location at public access point. ****requires close coordination with Mike.**
- Sunset Beach parking is closed due to construction project.

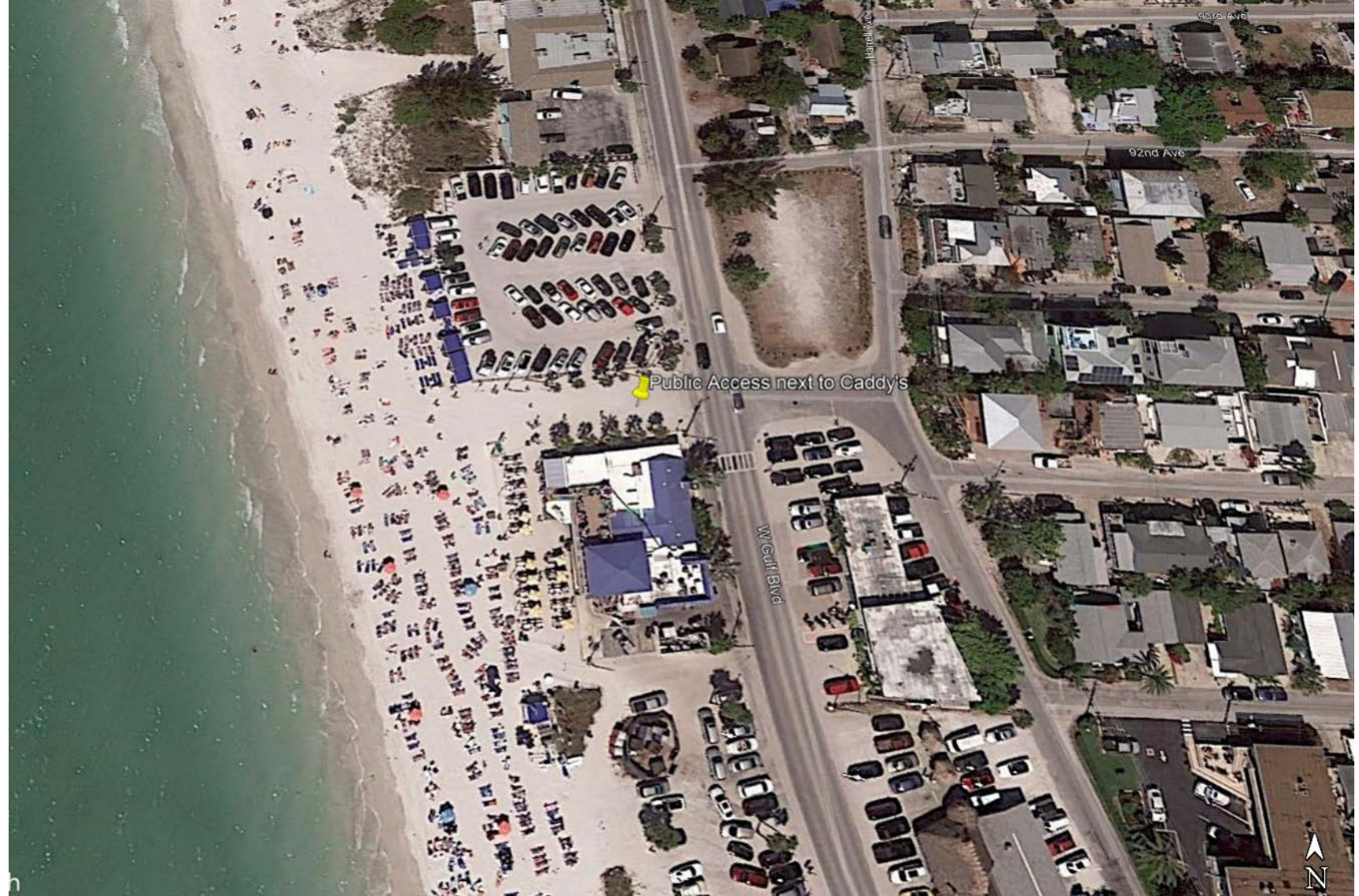
POC Mike Helfrich, PW Director 813-892-6246



Treasure Island

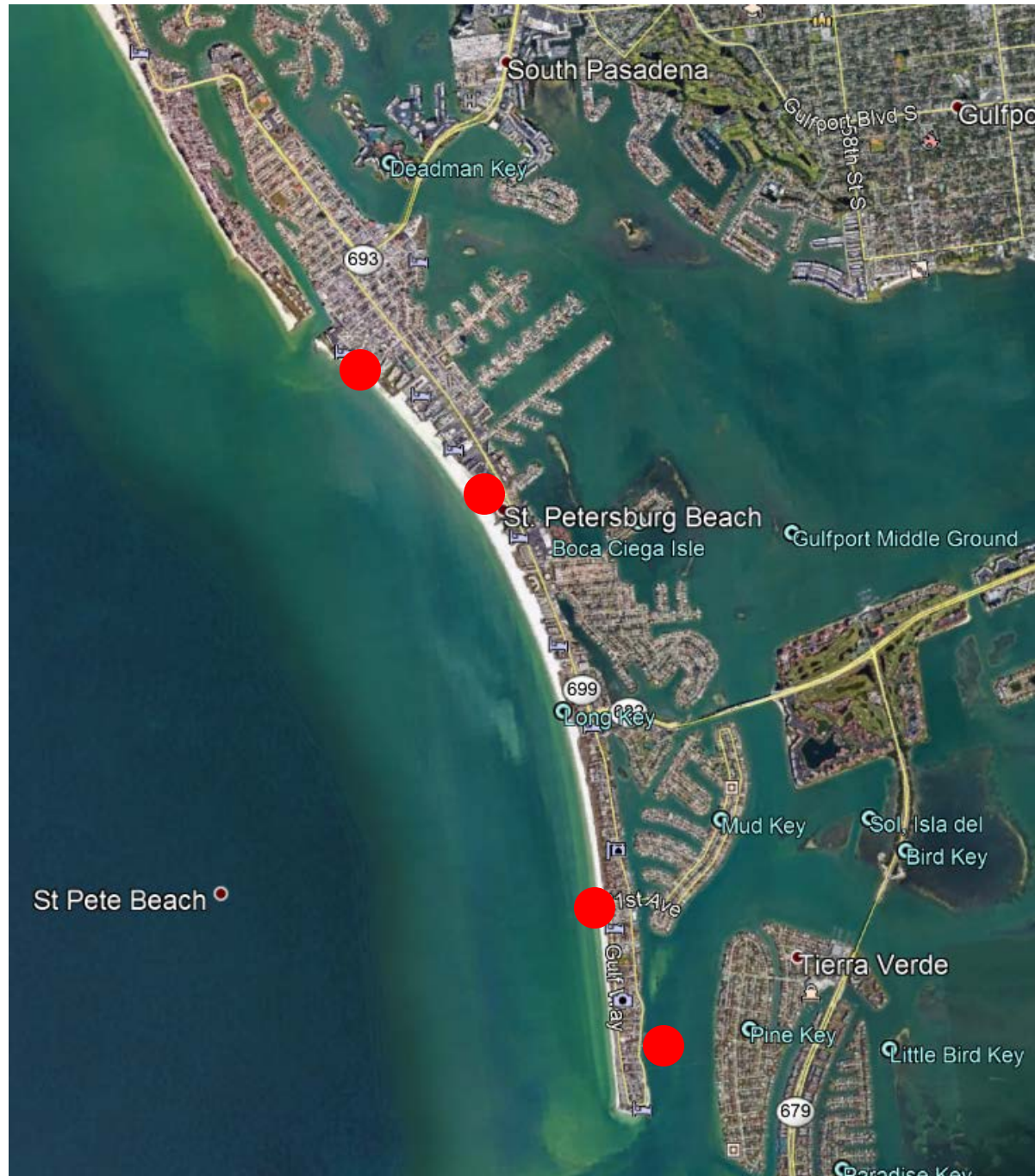


Treasure Island**



St. Pete Beach Overview

POC Mike Clark,
PW Director,
(727) 363-9255





Vehicle Access Road

Upham Beach

Dumpster Location

68th Ave

67th Ave



52nd Avenue

Dumpster
Location

Vehicle Access Road



Vehicle Access Road

Dumpster Location

22nd Avenue

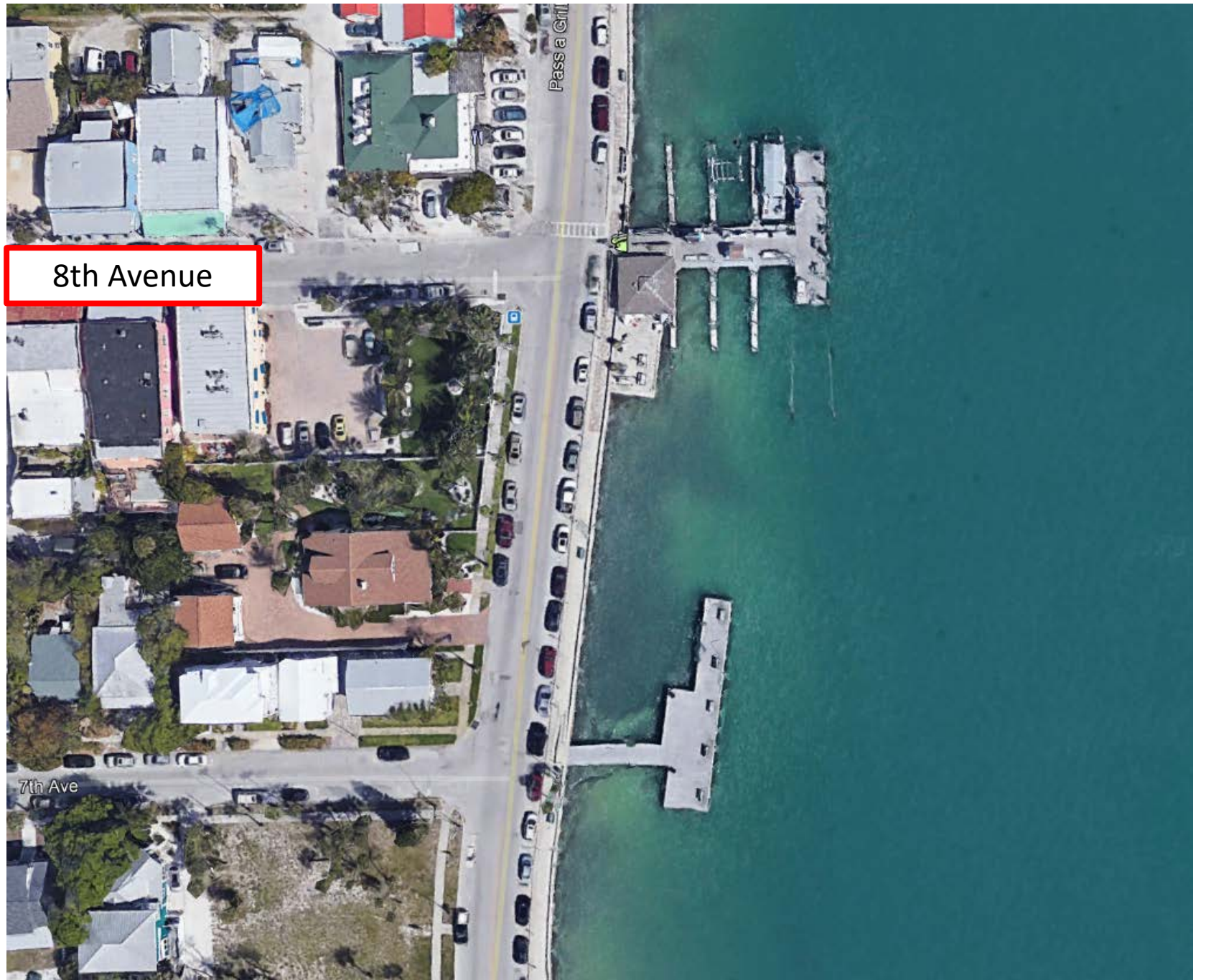
Gull Way

21st Ave

22nd Ave

Pass a Grille Way

- Potential water access and boat staging



Tierra Verde

- Dumpster location for Tierra Verde near structure C on Pinellas County Bayway S
- Serve as an additional southern dumping site
- FDOT General Use Permit # 2018-K-799-072



Ft. De Soto

- Equipment staging, boats, dumpsters
- Red outlined staging area requires tree protection
- POC: Paul Cozzie, Pinellas County Parks Director 727-254-8880

