



**MINUTES
TOWN OF HILLSBORO BEACH
REGULAR COMMISSION MEETING
MARCH 1, 2022**

9:00 A.M.

CALL TO ORDER, ROLL CALL, AND PLEDGE OF ALLEGIANCE

Mayor Deborah L. Tarrant called the meeting to order at 9:00 a.m. Roll was called with the Commission members and staff present as listed below.

Town Commission:

Mayor Deborah L. Tarrant
Vice Mayor Irene Kirdahy
Commissioner Jane Reiser

Commissioner Barbara Baldassarre
Commissioner Vicky Feaman

Town Staff:

Town Manager William “Mac” Serda, ICMA-CM
Donald J. Doody, Town Attorney, Esq.
Town Clerk Sherry D. Henderson, CMC

APPROVAL OF AGENDA

Motion made by Vice Mayor Kirdahy, seconded by Commissioner Feaman, to approve the agenda as presented. In a roll call vote, the **motion** passed unanimously. (5-0)

I. APPROVAL OF MINUTES

A. Minutes of the January 11, 2022 Board of Zoning & Appeals Meeting

Motion made by Vice Mayor Kirdahy, seconded by Commissioner Feaman, to approve the minutes from the January 11, 2022 Board of Zoning & Appeals Meeting as presented. In a roll call vote, the **motion** passed unanimously. (5-0)

B. Minutes of the January 11, 2022 Regular Town Commission Meeting

Motion made by Commissioner Baldassarre, seconded by Commissioner Reiser, to approve the minutes from the January 11, 2022 Regular Town Commission Meeting as presented. In a roll call vote, the **motion** passed unanimously. (5-0)

C. Minutes of the February 1, 2022 Regular Town Commission Meeting

Motion made by Commissioner Reiser, seconded by Commissioner Feaman, to approve the minutes from the February 1, 2022 Regular Town Commission Meeting as presented. In a roll call vote, the **motion** passed unanimously. (5-0)

II. PRESENTATIONS

A. Update from Moffatt & Nichol – Presented by Jackie Brower, PhD, PE

Jackie Brower, Coastal Engineering Scientist with Moffatt & Nichol, introduced herself and her team, including Tim Blankenship and Christy Brush. She provided a *PowerPoint* presentation reviewing the Town's beach initiatives, which is attached to the record. She discussed the history of current beach renourishment efforts and provided an overview of compliance monitoring to meet FEMA requirements, and funding for beach projects.

Continuing, Dr. Brower reviewed beach renourishment projects, the planned joint project to address larger issues, as well as the benefits and the requirements of a FEMA-engineered beach, including the creation of a beach management plan and completion of a feasibility study. She shared data and technical specifications briefly and discussed goals. Dr. Brower explained the next steps are to complete the joint beach renourishment with Deerfield and reviewed the team effort and coordination for a holistic approach.

Mayor Tarrant provided additional detail on the cooperative efforts toward beach renourishment and the need for all the players to be at the table.

Commissioner Feaman asked for an update on offshore projects to contain erosion. Dr. Brower shared evaluations being conducted by the Army Corps of Engineers and review of parameters for sand and options available with improving technology.

Mayor Tarrant noted the dredging of Hillsboro Inlet and the impact of the depth of the inlet on the overall system.

Vice Mayor Kirdahy inquired about tilling the beach beyond the north end. Dr. Brower discussed the whole beach data available as part of the study. Discussion continued.

B. Update from Coastal Protection Engineering (CPE) – Presented by Thomas Pierro, PE, D.CE, Principal Engineer, and Tara Brenner, PG, PE, Sr. Coastal Engineer

Thomas Pierro, Principal Engineer, introduced the team from CPE, and noted Moffat & Nichol is also a part of the team on instituting a joint beach renourishment project with

the City of Deerfield Beach. He shared a *PowerPoint* presentation, which is attached to the record. He opened with the primary project objectives and reviewing the project timeline and discussed the steps over the past year and the activities planned through 2024 for the area which includes 1,500 feet in south Deerfield Beach and the northernmost 2,300 feet in Hillsboro Beach.

Vice Mayor Kirdahy asked about contractors for the Deerfield Beach project. Mr. Pierro explained the difficulty of finding a contractor to do Deerfield Beach's small renourishment with their stockpiled sand and noted there had unfortunately been no responses to the bid, but that sand was included in the permit for the larger project.

Mr. Pierro shared the permitted fill template being used to guide the project and explained the volume depends on beach conditions. He provided a map showing an overview of the settlement agreement project extents and discussed the process for extending the Erosion Control Line (ECL) and timing. Mr. Pierro continued to review the timeline of the project. He explained an update due to changes with the Boca Raton dredging project and related conditions.

Tara Brenner, Senior Coastal Engineer with CPE, reviewed the project schedule and targets, and then discussed the draft budget estimate. She noted there are a number of moving parts impacting the budget and stated it will evolve over time as new information becomes available. Continuing, she discussed cost sharing and grant programs.

Mr. Pierro closed the presentation with a summary and a list of future projects.

Mayor Tarrant recognized three (3) Hillsboro Beach residents who had been involved in the beach situation and helping to keep it at the forefront, including Rene Males, John Carlson, and Mo Tarifi.

C. Beach Erosion – Hillsboro Windsor Condos, 1169 Hillsboro Mile

Mayor Tarrant shared images of erosion at 1169 Hillsboro Mile with the coastal engineers and stated residents should know the Town is aware of the issue.

D. Introduction of Police Officer James Engle (Marine Patrol) – Presented by Police Chief Jay Szesnat

Police Chief Jay Szesnat introduced new Marine Patrol Police Officer James Engle and discussed his experience with Broward Sheriff's Office.

E. Water Plant Operations Excellence Award 2021 – Town of Hillsboro Beach Public Water System

Town Manager Serda shared the details of the competitive application through the Florida Department of Environmental Protection (DEP) and its rigorous requirements and stated Elliot Garay had applied and received the only Water Plant Operations Excellence Award 2021 for small facilities. He recognized the outstanding effort made by Mr. Garay and his team.

Water Plant Supervisor, Elliot Garay shared additional comments. He noted the Water Department had come a long way and stated he had surprised the team with the award.

Mayor Tarrant recognized the Water Department team and thanked them each for their public service.

Mr. Serda discussed recognition and accreditation in other departments. He noted all of the elements in the Town are reaching top-notch levels and stated it was a testament to the team assembled.

III. SITE PLAN REVIEW

A. James Baron, Authorized Agent for Property Owner, is Seeking Site Plan Approval for Property Located at 971 Hillsboro Mile, Hillsboro Beach, FL 33062

Town Attorney DJ Doody swore in those wishing to provide testimony.

Joe Arenal, Development Planner with RMA, explained the item and presented the staff report for the proposed three (3) story home. He reviewed the documents submitted and noted staff recommends approval of the Site Plan with conditions as follows:

1. Provide Florida Department of Environmental Protection (DEP) approval for construction beyond the Coastal Construction Control Line (CCCL). Approval will be required as part of the Zoning approval for Building Permit application.
2. Provide Broward County Environmental permit for any construction activity on the dune or provide a letter of non-jurisdiction.
3. Provide Florida Department of Transportation (FDOT) approval of the trafficways and right-of-way dedication.
4. Compliance with Section 3-9 requirements for marine turtle protection (for any site lighting).
5. Provide updated survey indicating top of wall elevations at adjacent properties at Building Permit application submittal.
6. Broward County Tree Removal Permit.

7. Construction Site Management Plan per Section 12-50.

Vice Mayor Kirdahy asked about the fencing encroachment on the northern property line and asked if had been resolved. Mr. Arenal stated the issue had not yet been addressed.

Mayor Tarrant asked if it should be a condition of approval. Mr. Doody stated it was a private issue between the parties, and noted it was not a part of the review process for a site plan.

Mayor Tarrant stated the seawall needed to be addressed. James Baron, authorized agent for the property owner, stated they had started the process and have approval from the Army Corps of Engineers for the dock and seawall. He explained Chapelle Group is now preparing an application to the Town.

Mayor Tarrant stated compliance with the Town's seawall ordinance should be added as a condition of approval. She asked whether there would be a service driveway to avoid vehicles stacking on A1A. Mr. Baron provided additional explanation.

Mayor Tarrant asked about the materials and noted the plans showed frame and asked for clarification. Adrian Grandison, Ames International Architecture, provided additional detail on the structure materials and noted the reference to frame was about the existing home which is proposed to be demolished.

Mayor Tarrant asked if there would be excavation involved. Mr. Baron explained the existing structure was raised above grade and stated excavation would be minimal.

Mayor Tarrant stated a condition may need to be added regarding excavation requirements and placing the sand on the beach. Discussion ensued briefly.

Mayor Tarrant continued to review the plans and asked for clarification on the pool and the elevator. Mr. Baron stated the pool was being removed and the elevator would be an oversized residential elevator.

Mayor Tarrant asked about encroachments, soundproofing, and the height of the parapet on the roof, safety on the roof, and the electronic trellis. Mr. Baron and Mr. Grandison responded to each question in turn.

Mr. Doody asked whether the applicant accepted the seven (7) conditions as outlined in the staff report and the two (2) conditions added by Mayor Tarrant during discussion – to include compliance with the Town's Seawall Ordinance and excavated beach compatible sand excavated during development be utilized on the beach . Mr. Baron stated he agreed to all conditions and asked for a copy of the proposed excavation ordinance.

Mayor Tarrant opened the item to public comment.

Alan Ellman, 969 Hillsboro Mile, expressed concern with the size of the project, as well as the location of the garage door and terrace. He asked that the item be postponed so he could have a professional review the plans for impacts on him and the Town.

Mayor Tarrant asked Steve Mitchell, Building Official, CG&A, to explain the excavation parameters Mr. Ellman had inquired about.

Mr. Mitchell stated any construction beyond the CCCL would require a separate permit.

Mr. Arenal noted submission of that permit application was listed on the conditions in the staff report.

Mayor Tarrant asked about the balcony issue Mr. Ellman had brought up. Mr. Arenal explained the Code requirements. Discussion ensued regarding maneuvering into the driveway and garage access.

Mr. Ellman asserted he was not objecting but was asking for time to review the plans.

Mr. Serda provided a brief explanation on the property rights and the Site Plan Approval process. He noted the item was properly noticed.

Warren Diamond, Boca Raton, stated the neighbor was entitled to a delay for due process in order to avoid the issue being bound up in litigation in the future. He asserted the bluff was being impacted by the garage and would not be approved by the DEP.

Mr. Arenal pointed out DEP approval was a recommended condition of approval.

Mayor Tarrant closed the item to public comment.

Mr. Doody explained the action before the Commission was to take action on the Site Plan Approval or entertain the request to table the item. In response to questions from the Commission, he provided additional detail on the options available.

Commissioner Reiser stated she believed tabling the item would be the less costly route for the parties involved to work out their differences.

Town Clerk Sherry Henderson explained that public notices of the meeting were sent to the neighbors on February 14, and the associated documents were uploaded to the Town's website on February 24.

Commissioner Reiser asked if the DEP process would be completed in the next 30 days. Mr. Arenal provided additional detail on the timeline for DEP permitting.

Mr. Baron stated the DEP permit process could not be started until the Site Plan Approval was in place. He noted the applicant had been working on the project for a year and had made multiple revisions based on comments from staff.

Discussion continued regarding the recommended conditions of approval.

Mr. Mitchell pointed out the Florida Building Code requires that all outside permits be in place prior to issuing a building permit.

Motion made by Commissioner Reiser, seconded by Vice Mayor Kirdahy, to table the item until the April 5th Town Commission meeting. In a roll call vote, the **motion** passed (3-2). Commissioners Feaman and Baldasarre voted no.

Mr. Serda suggested an amendment to the order of the agenda, as he needed to leave the meeting at noon.

Motion made by Commissioner Reiser, seconded by Commissioner Feaman, to change the order of the agenda to place Ordinances after Resolutions. In a roll call vote, the **motion** passed unanimously. (5-0)

Item IV was addressed out of order.

IV. ORDINANCES

A. Ordinance No. 2022-04 Amendment to the Town's Code of Ordinance, Amending Ch. 12-49 "Site Plan Requirements" and Creation of Section Entitled "Excavation" (First Reading, tabled September 7, 2021)

AN ORDINANCE OF THE TOWN COMMISSION OF THE TOWN OF HILLSBORO BEACH, FLORIDA, AMENDING THE TOWN'S CODE OF ORDINANCES BY AMENDING CHAPTER 12-49, ENTITLED "SITE PLAN REQUIREMENTS"; BY SPECIFICALLY CREATING SECTION 12-49 (C), ENTITLED "EXCAVATION", TO PROVIDE FOR THE USE OF BEACH COMPATIBLE SAND; PROVIDING FOR SEVERABILITY; PROVIDING FOR CONFLICTS; PROVIDING FOR CODIFICATION; PROVIDING FOR AN EFFECTIVE DATE.

Mr. Doody read the Ordinance by title only.

Mr. Doody noted he had consulted with Nicole Sharp on the definitions within the Ordinance and Ms. Sharp was present to answer any questions. He reviewed the items addressed since the Ordinance was tabled in September 2021.

Ms. Sharp stated the outstanding issue to resolve was how to address financial responsibility for replacement of excavated sand which was determined not to be compliant.

Mayor Tarrant noted the existing Ordinance requires sand remain on the island and asked what happens to the sand if it is not compatible. Ms. Sharp stated it could be required the material be used as fill.

Commissioner Feaman stated the property owner should not be responsible for replacing material which is found not to be compatible. Discussion ensued and consensus was to remove section H.

Mayor Tarrant pointed out a typographical error.

Motion made by Commissioner Feaman, seconded by Vice Mayor Kirdahy, to amend Ordinance 2022-04 to remove section H and correct the typographical error. In a roll call vote, the **motion** passed unanimously. (5-0)

Motion made by Commissioner Feaman, seconded by Commissioner Reiser, to approve Ordinance 2022-01 on first reading as amended. In a roll call vote, the **motion** passed unanimously. (5-0)

Mr. Doody noted the potential impacts of House Bill 403 on the Ordinance.

V. DISCUSSION & POSSIBLE ACTION

A. Discussion on Printing Quarterly Newsletter

Mayor Tarrant stated action was necessary to address the delay time in printing the newsletter. She noted the draft was ready on February 7, but due to the current procurement guidelines and an increase in price of the previous printer, the printing had to go to bid. Mr. Serda provided additional explanation of the delays and the printer's process. Discussion continued on potential solutions.

Mayor Tarrant asserted the procurement minimum was too low. Mr. Serda stated he would add the item to the next agenda.

VI. RESOLUTIONS & CONTRACTS

A. Resolution No. 2022-06

CONSIDERATION TO ACCEPT AND APPROVE THE RANKING AS GENERALLY RECOMMENDED BY THE EVALUATION AND SELECTION COMMITTEE AND AUTHORIZING THE PROPER TOWN OFFICIALS TO EXECUTE CONTINUING CONTRACTS WITH THE SELECTED FIRMS IN RESPONSE TO THE TOWN'S REQUEST FOR QUALIFICATIONS RFQ #2021-01 FOR CONTINUING PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES FOR VARIOUS PROJECTS.

Mr. Doody read the Resolution by title only.

Mr. Serda presented the item. He explained the recommendation to give the firms on the State's list pre-qualification status to improve the procurement process for future needs.

Mayor Tarrant asked whether this would preclude the Town from bidding for consultants for future projects. Mr. Serda stated it did and explained the State Statute which requires that engineers be compared based on qualifications rather than price. He noted the Resolution would not change the process in relation to price.

Mr. Doody added that adopting the list would save the Town from conducting Requests for Qualifications with each job. He noted any expenditure would come to the Commission for review and approval. Discussion continued regarding the costs involved.

Mayor Tarrant asked about RMA being missing from the list. Mr. Serda stated they had not responded to the bid with a proposal but the Town could maintain their separate contract with the firm.

Motion made by Commissioner Feaman, seconded by Vice Mayor Kirdahy, to adopt Resolution 2022-06. In a roll call vote, the **motion** passed unanimously. (5-0)

B. Resolution No. 2022-07

CONSIDERATION TO AUTHORIZE THE PROPER TOWN OFFICIALS TO ENTER INTO A LAW ENFORCEMENT MUTUAL AID AGREEMENT WITH BROWARD COUNTY SHERIFF'S DEPARTMENT FOR BURGLARY/PROPERTY CRIME APPREHENSION TASK FORCE.

Mr. Doody read the Resolution by title only.

Mr. Serda stated this was an opportunity for the Town to participate as desired with the task force as appropriate.

Mayor Tarrant noted issues with agreement in the dates within the document.

Mr. Doody indicated he would follow-up with the Broward County Attorney's Office.

Motion made by Commissioner Feaman, seconded by Vice Mayor Kirdahy, to adopt Resolution 2022-07. In a roll call vote, the **motion** passed unanimously. (5-0)

C. Resolution No. 2022-08

CONSIDERATION TO APPROVE AND AUTHORIZE THE APPROPRIATE TOWN OFFICIALS TO EXECUTE CONTRACT AMENDMENT FOR COASTAL PROTECTION ENGINEERING LLC PROPOSAL TO CONDUCT ENDANGERED SPECIES ACT LISTED CORAL SURVEY FOR THE TOWN OF HILLSBORO BEACH AND THE CITY OF DEERFIELD BEACH UNDER THE CONTRACT APPROVED PURSUANT TO RFQ #21-15-JW.

Mr. Doody read the Resolution by title only.

Mr. Serda noted the item had been discussed during the presentations earlier in the meeting.

Motion made by Vice Mayor Kirdahy, seconded by Commissioner Feaman, to adopt Resolution 2022-08. In a roll call vote, the **motion** passed unanimously. (5-0)

D. Resolution No. 2022-09

A RESOLUTION OF THE MAYOR AND TOWN COMMISSION OF THE TOWN OF HILLSBORO BEACH, FLORIDA, STRONGLY OPPOSING HOUSE BILL 403 IN THE 2022 STATE LEGISLATURE WHICH SEEKS TO ENABLE BUSINESSES TO SUE GOVERNMENTS AND HALT ENFORCEMENT OF LOCAL ORDINANCES.

Mr. Doody read the Resolution by title only.

Mr. Doody provided background on the legislation based on conversations with the lobbyists for other municipalities and noted the Town's exposure was limited due to lack of businesses in the Town. Discussion ensued regarding the impact of the legislation and its definitions.

Commissioner Reiser asked whether businesses from home would be covered by the legislation. Mr. Doody stated that was yet to be determined. Discussion continued.

Motion made by Commissioner Baldasarre, seconded by Commissioner Feaman, to adopt Resolution 2022-09. In a roll call vote, the **motion** passed unanimously. (5-0)

Mr. Serda left the meeting at 12:07 p.m.

VII. CONSENT AGENDA

A. Invoices for Approval

1. **CG&A** Invoice 99939 Services through 01/31/22 - **\$207,224.57**
2. **LSF Shuttle** Invoice 21-1231-26 Services through December 2021 - **\$6,551.86**
3. **LSF Shuttle** Invoice 22-0131-26 Services through January 2022 - **\$6,083.87**
4. **Inframark** Invoice #72201 Services through January 2022 - **\$7,400.62**
5. **Inframark** Invoice #74078 Services through February 2022 - **\$8,874.75**

6. **Goren Cherof Doody & Ezrol (GCDE)** Invoice #39933 Services 01/25/22 – 2/22/22 **\$5,819.85** (General Matters)
7. **GCDE** Invoice #39934 Services 01/25/22 – 2/22/22 **\$1,733.20** (Development)
8. **GCDE** Invoice #39935 Services through 2/16/22 **\$67.50** (Writ of Garnishment)
9. **GCDE** Invoice #39936 Services 01/31/22 – 2/14/22 **\$720.00** (Richard Crusco, Charles Doherty, et al)

Mayor Tarrant asked that item six (6) be pulled for discussion. (GCDE Invoice #3993)

Motion made by Commissioner Reiser, seconded by Commissioner Baldasarre, to approve Consent Agenda invoices for approval as amended. In a roll call vote, the **motion** passed unanimously. (5-0)

Mayor Tarrant asked for clarification on the line items on item six (6). Mr. Doody provided additional detail.

Motion made by Commissioner Baldasarre, seconded by Commissioner Feaman, to approve invoice item number six (6). In a roll call vote, the **motion** passed unanimously. (5-0)

B. Proclamations for Approval

1. Problem Gambling Awareness Month (PGAM) – March 2022

Motion made by Commissioner Feaman, seconded by Vice Mayor Kirdahy, to approve the proclamation. In a roll call vote, the **motion** passed unanimously. (5-0)

VIII. BEACH REPORT

None.

IX. STAFF UPDATES

A. Police Department

Police Chief Jay Szesnat presented the monthly report. He noted there had been increases in traffic, resulting in an increase in arrests. He discussed a marine accident and noted everyone on board was safe.

Commissioner Feaman asked for clarification on what was being done about dogs on the beach. Chief Szesnat explained and discussion ensued regarding service dogs.

Vice Mayor Kirdahy thanked the Police Department for proactive action regarding trespassers on the beach.

Mayor Tarrant asked for clarification on the police assists listed in the report. Chief Szesnat stated trespassing makes up the bulk of the assists. Discussion ensued regarding trespassing and bicyclists.

Commissioner Reiser noted crosswalks had been a frequent conversation recently and asked how often studies are conducted. Chief Szesnat stated he would investigate and report back on the most recent survey and the frequency.

B. Building Department

Steve Mitchell, Building Official, CG&A, presented the Building Services report. He stated construction projects are moving forward and noted Opal Towers West had submitted their permits and staff had met with their new board.

C. Code Compliance

Bernard Pita, Code Enforcement, CG&A, presented his report. He stated Mr. Mitchell had passed three (3) cases on to him and they were working toward compliance. He pointed to changes in the detail of his report based on feedback at the last meeting. Mr. Pita stated turtle season kicks off March 1 and thanked Chief Szesnat for the support in getting the word out.

Mayor Tarrant asked for clarification on a lighting map and the area around Le Baron Condominiums. Commissioner Baldasarre stated she believed the data was gathered prior to the lights being changed over. It was suggested that Mr. Pita ensures that the team monitoring and evaluating lighting compliance begin after March 1. It was noted many buildings in Town have lights programmed to change to “Sea Turtle Compliant Lighting” on March 1. Discussion continued regarding communication surrounding turtle lighting compliance issues.

X. TOWN MANAGER REPORT

A. Municipal Election – Tuesday, March 8, 2022 (7 a.m. to 7 p.m.), Community Room at Town Hall

B. Community Event – Saturday, April 30, 2022 (9 a.m. to 12 p.m.)

Mayor Tarrant read the announcements for the election and community event.

C. Town Hall Façade Update

None.

XI. TOWN ATTORNEY REPORT

None.

XII. TOWN COMMISSION COMMENTS/REPORTS

A. Commissioner Jane Reiser

Commissioner Reiser stated this could be her last Commission meeting pending the outcome of the March 8 Municipal Election and noted it had been a pleasure to serve the Town.

B. Commissioner Vicky Feaman

None.

C. Commissioner Barbara Baldassarre

None.

D. Vice Mayor Irene Kirdahy

None.

E. Mayor Deborah L. Tarrant

None.

XIII. PUBLIC COMMENTS

Town Clerk Henderson noted a written comment received from John Carlson regarding the beach would be attached to the minutes for the meeting.

XIV. ADJOURNMENT

Motion made by Commissioner Baldasarre, seconded by Vice Mayor Kirdahy, to adjourn the meeting at 12:44 p.m. In a roll call vote, the **motion** passed unanimously. (5-0)

ADOPTED THIS 5th DAY OF APRIL, 2022

By: Deborah L. Tarrant
Deborah L. Tarrant, Mayor

ATTEST:

Sherry D. Henderson
Sherry D. Henderson, CMC
Town Clerk



WRITTEN PUBLIC COMMENTS

Public Comments emailed to the Town Clerk Entered into the Record.

Hand-outs Provided at Meeting Entered into the Record.

MARCH 1, 2022

TOWN COMMISSION MEETING

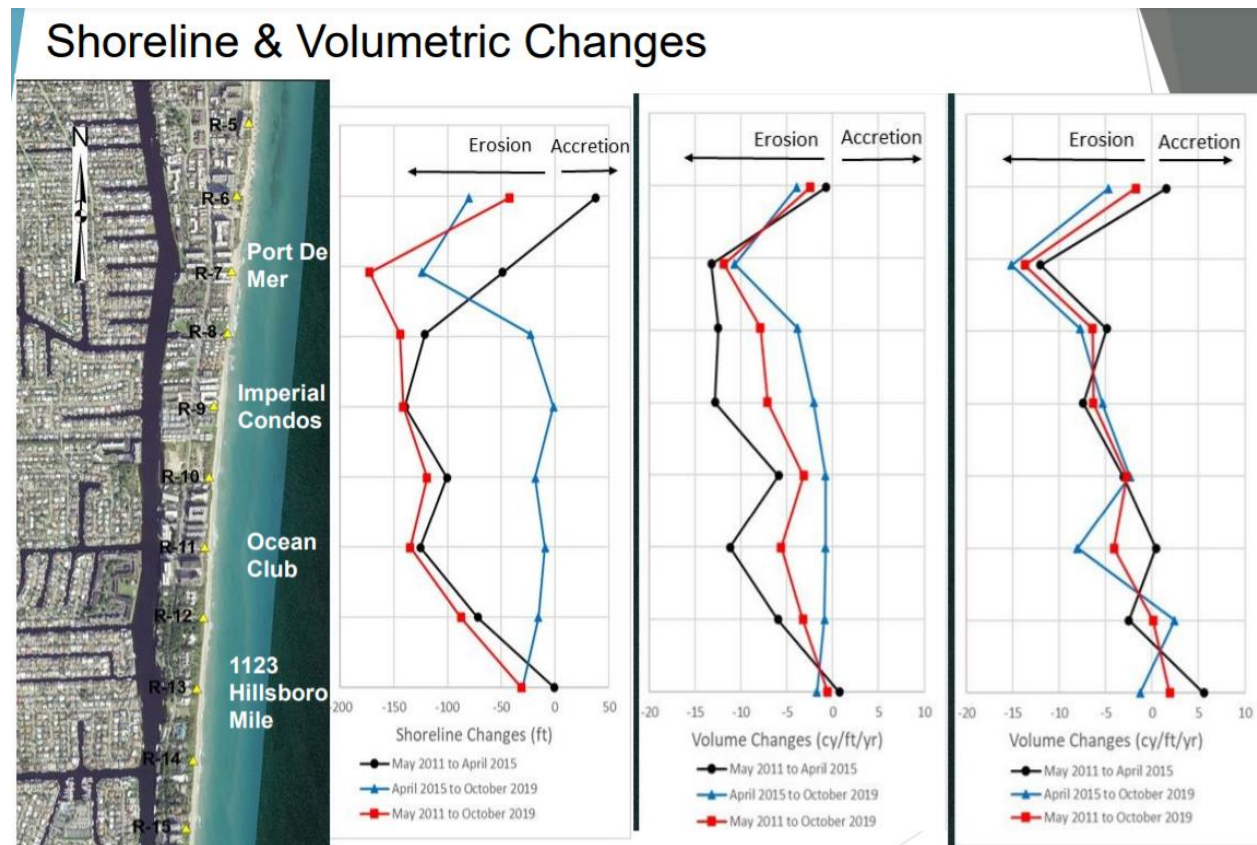
Town of Hillsboro Beach
1210 Hillsboro Mile
Hillsboro Beach, FL 33062
TownofHillsboroBeach.com
954-427-4011

March 1, 2022

John Carlson at 975 says:

Beach Management Summary shows two big standouts both nicely illustrated:

1. Page 9, 10-year Review = 485,600 CY of sand on Hillsboro's beach and,
2. Page 13, Shoreline & Volumetric Changes illustrating the impact of Deerfield's wet rock piles.



Citizens should know placing sand on the beach means we are actively *fighting* Mother Nature at a massive cost without solving the erosion problem.

Missing from the report is the sand shortage caused by the inlets where *eight-five percent of coastal erosion is caused by inlets interrupting the littoral drift* (see email thread below to and from Department of Environmental Protection where

Florida's coastal erosion czar, engineer Bob Brantly pleads his case fighting Mother Nature).

Funds from FEMA are a blessing and a curse; we need money to stay afloat while the beach keeps disappearing.

Nothing yet is being done to prevent the erosion.

STOP READING

David Overstreet from Office of Resilience & Coastal Protection to reply 5/17/21;
5/18; Florida Flood Hub? David working from his cell 5/24; 850-245-2118 cc
'Ashley.Evitt@FloridaDEP.gov' ; 5/25/21 public.services@dep.state.fl.us;
noah.valenstein@dep.state.fl.us



*975 Hillsboro Mile
Hillsboro Beach, Florida 33062
954-781-7356, cell 954-778-4430
SeaFront@Comcast.net*

4/16/2021 & 5/25/21

850 245 2???

Dear Secretary Valenstein:

It has been well established that eight-five percent of coastal erosion is caused by inlets interrupting the littoral drift. Natural sand transport diminishes from north to south in a fairly uniform pattern but for the inlets, jetties and other structures like groins in its path.

Region	Inlet	Date	Vol. N	Vol. S
Inlet by-pass objectives			in 1000	in 1000
NE	St. Mary's River		0	554
	St. Augustine	1998	0	510
		2014	93	185
	Ponce de Leon	1997	0	43
		2020	40	20
Central	Port Canaveral	1996	0	156
		2014	0	156
	Sebastian	2000	0	70
		2008	0	90
	Ft. Pierce	1997	0	130
	St. Lucie	2016	34	161

SE	Jupiter	1997	0	75
	Lake Worth	1996	0	202
	S. Lake Worth	1999	0	88
	Boca Raton	1997	0	83
	Hillsboro	1997	0	120
	Port Everglades	1999	0	44
		2018	0	42
	Bakers Haulover	1997	0	0

How then can you justify the bypass objectives listed above in your data for Florida's east coast?

Dr. Robert Dean and Dr. O'Brien wrote a 1987 report on Florida's East Coast Inlets. The longshore sediment transport was estimated to be:

600,000 cy/yr. at the St. Mary Entrance, and
500,000 cy/yr. at Daytona,
350,000 cy/yr. at Cape Canaveral,
230,000 cy/yr. at Fort Pierce,
230,000 cy/yr. at Jupiter,
120,000 cy/yr. at Hillsboro and
10,000 cy/yr. at Government Cut.

Why the prolonged discrepancy between by-pass and Dean's data?

The Best,
John Carlson

Black is Brantly verbatim and *red is Carlson's connecting the dots.*

Ocean inlets improved for navigation can interrupt or alter the natural drift of beach-quality sand resources, which often results in these sand resources being deposited in nearshore areas or the inlet channel, or in

the inland waterway adjacent to the inlet, instead of providing natural nourishment to the adjacent eroding beaches.

While the southerly-directed littoral sediment transport reaching the inlets decreases from north to south along Florida's Atlantic Coast, the net sediment transport across the inlet varies in response to the constructed navigation improvements, inlet geomorphology, and the incident wave climate.

Correspondingly, the erosive effects of the navigation inlets vary depending upon the quantity of sediment interrupted by the inlet and the quantity that is naturally transported across the inlet by waves and tides. Hence, mechanical sand bypassing from the inlet channels and shoals is needed to offset the quantity of sediment that is interrupted by the inlet, i.e. captured by the inlet channels and shoals. **–at the same quantity, rate and frequency to mimic Mother Nature.**

A sediment budget is the mass balance between inputs and outputs of sediment in the inlet system, including all related flood and ebb tidal shoals, inlet shorelines and inland waterways, and the adjacent open coast beaches within the area of inlet influence during a specific time period.

The target bypassing objective required to be mechanically bypassed in order to offset the inlet impacts on adjacent beaches is derived from the formulation of a sediment budget at each inlet. The formulation of a sediment budget, and resultant bypassing objective, has improved over time with more comprehensive coastal monitoring of beach and dune topography, inlet and offshore bathymetry, and tide and wave conditions. **–but has largely failed in the overall implementation producing critically eroded beaches.**

Differences in sediment budgets prepared in earlier and later studies of an inlet vary based upon the available coastal monitoring information at the time of the study; understandably, later studies benefited from more comprehensive monitoring information. —which is why a sediment budget should be conducted frequently and regularly at every inlet since they cause eight-five percent of the shoreline erosion.

Also, differences occur due to changes in coastal conditions, including variations in the incident wave climate during the specific time period used in the formulation of the sediment budget. —which changes would average out over time if done frequently and regularly.

These comments fail to justify current bypass objectives and completely dismiss the discrepancies between current bypass requirements and Dean's data. Critical erosion is now the status quo.



Beach Management Summary

March 1, 2022



Moffatt & Nichol (M&N)
Jackie Brower, PhD, PE



moffatt & nichol

Introductions & Background

Moffatt & Nichol (M&N)

Tim Blankenship, PE Principal Engineer (PIC)
Christy Brush, Environmental Regional Manager
Jackie Brower, PE, PhD Coastal Engineer (PM)
Peter Seidle, PE, Senior Coastal Engineer

› Working with the
Town since 1998...

Tim Blankenship



**Principal In Charge
(PIC)**

Jackie Brower



**Project Manager
(PM)**

Christy Brush



Peter Seidle



Agenda

- ▶ Beach Updates
 - ▶ Overview - Nourishments
 - ▶ Current Activities
 - ▶ Reimbursements
- ▶ Feasibility Study
 - ▶ Topics
 - ▶ Volumetric Changes
 - ▶ Sediment Budget
 - ▶ Beach Management Strategy



› Working with the Town since 1998



Beach Overview

- ▶ Shift in Nourishment Opportunities & Methodology
 - ▶ Offshore Hydraulic Dredge (1998, 2011)
 - ▶ Truck Haul (2015, 2018, 2020)



FEMA

Hurricane Matthew
response 2016

\$2.6M

Hurricane Matthew
Renourishment 2018

Hurricane Irma
response 2017

\$4.4M

Hurricane Dorian
response 2019

\$4.4M

Hurricane Irma
Renourishment 2020

Hurricane Dorian
Feasibility Study

Hurricane Dorian
Renourishment
(2023)

Beach Status

- ▶ Year 2 of 2020 Nourishment – Irma Funding – 100% Reimbursable
- ▶ Monitoring & Permit Compliance:
 - ▶ Winter (February): Shorebird Monitoring & Tilling (Turtles)
 - ▶ Summer (August): Biological & Physical Monitoring
- ▶ Working with the Town to keep permits active and in compliance



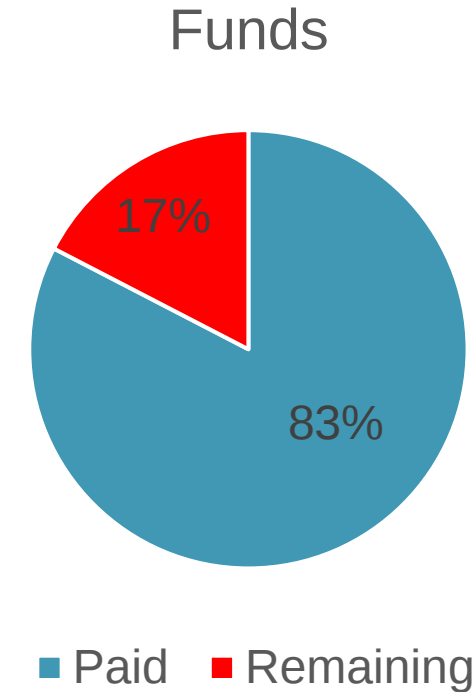
2020 Project Reimbursements – Hurricane Irma

Total Paid to Date:
\$3,624,576.88

➤ Status:

➤ Obligated Amount: \$4.68M = 100% Funded

- FEMA (90%) \$4.22M
- State (5%) \$232K
- Supplemental (5%) \$232K



➤ Actions:

- \$223K – Direct Admin Cost, Pilot (requesting to move to Dorian)
- Supplemental Funding – amendment & coordinate with FDEP – Feb 2022
- FL Public Assistance (PA) reimbursement once proof of payments are received
- Execute proposed spend plan for remaining funds

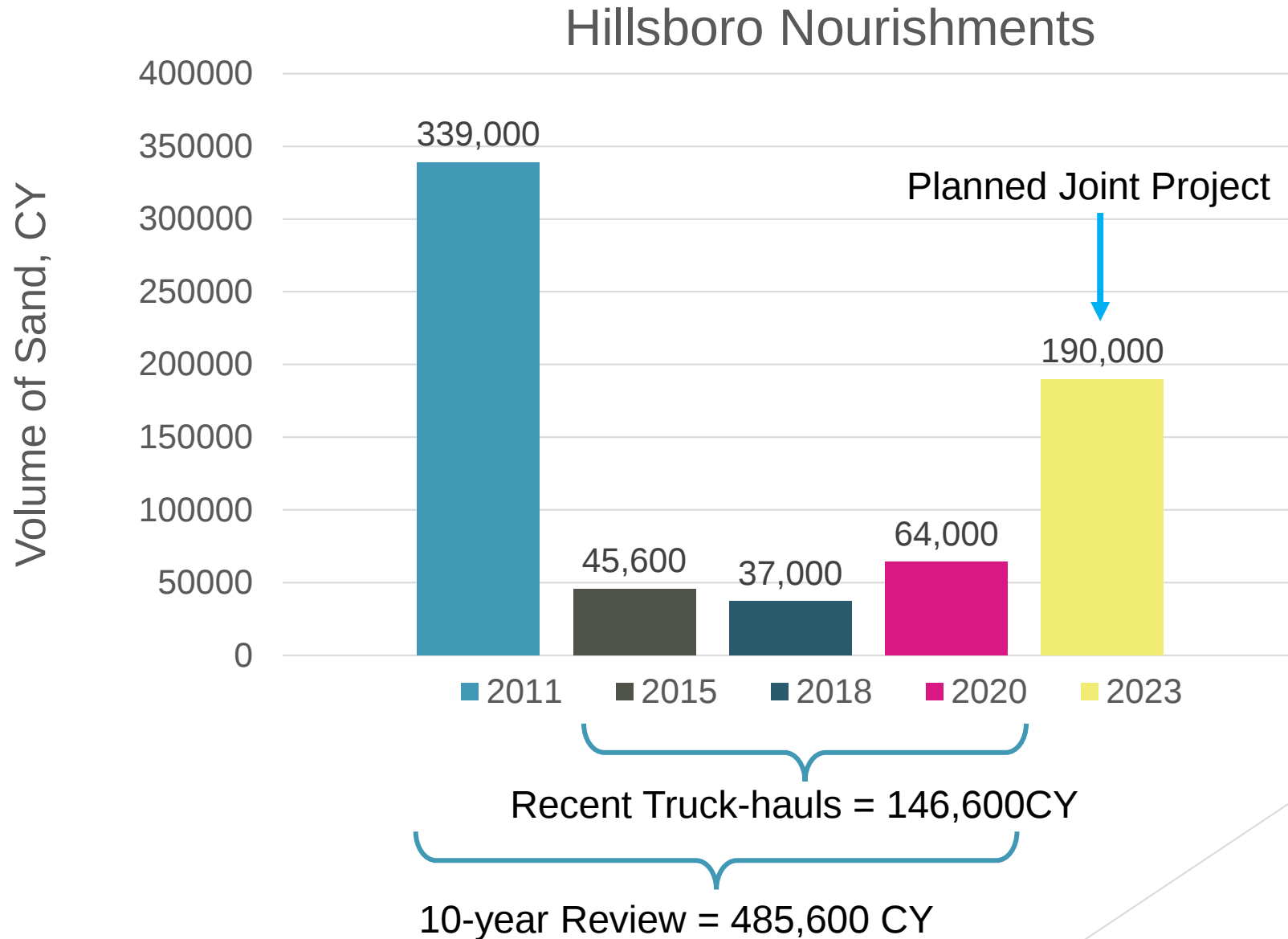
2020 Nourishment



- Truck Haul
- Sand Source
- Traffic A1A
- Peak Season
- Turtle Nesting
- Access Points
- Loss of Sand



> Nourishments





Beach Management Plan Hillsboro Beach, Florida- Defined Beaches

FEMA Engineered Beach

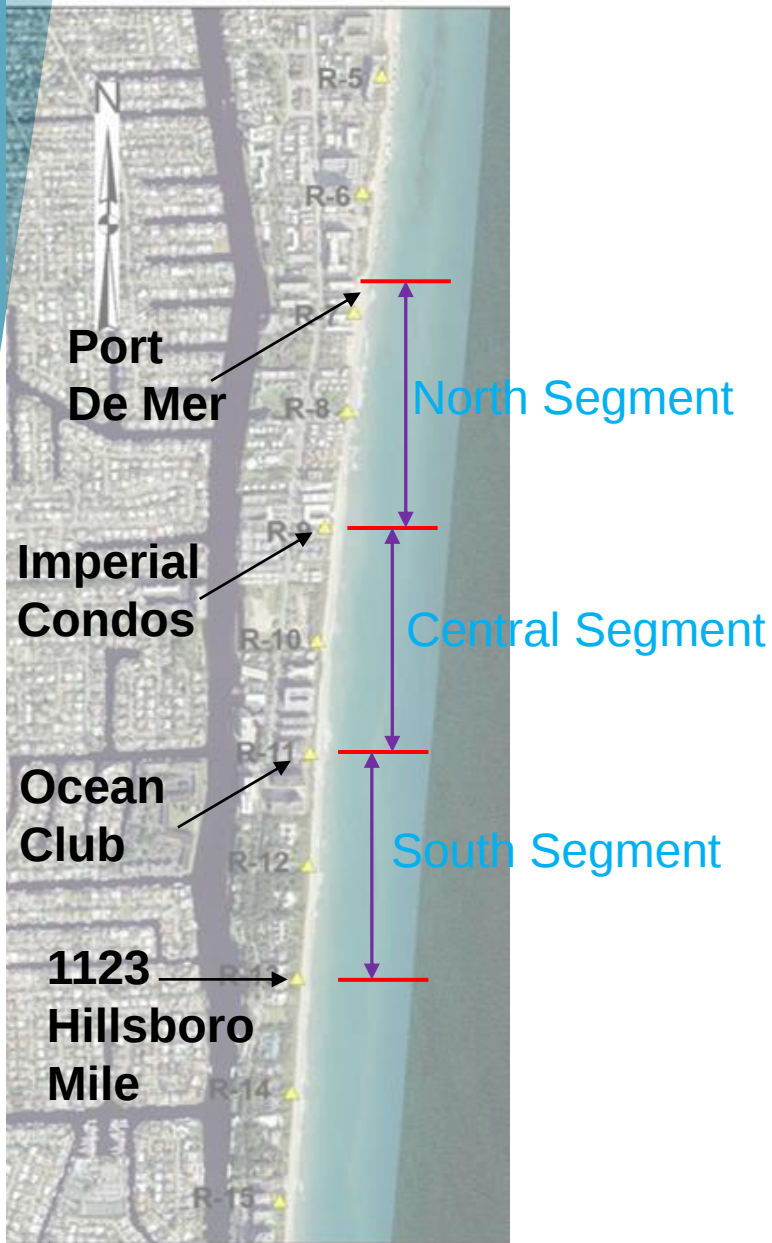
- ✓ R-6+750 to R-13
- ✓ Eligible for Federal Funding
- ✓ Requires an active Management Plan

- FEMA program has provided funding support for 3 nourishments (~\$10M in funding)
- Feasibility Study & active beach management plan required to remain eligible for future reimbursements

› Feasibility Study

- FEMA Public Assistance (PA) Funding – Hazard Mitigation Project – Dorian (2019)
 - 75% Funded by FEMA & 12.5% Funded by the State
 - **Beach Management Plan (required for future FEMA funding)**
 - Topics:
 - Volumetric Changes
 - Sediment Budget
 - Beach Management Strategy
 - Inlet-to-Inlet Approach
 - Alternatives Analysis*

Beach Management Plan Hillsboro Beach, Florida - Beach Conditions



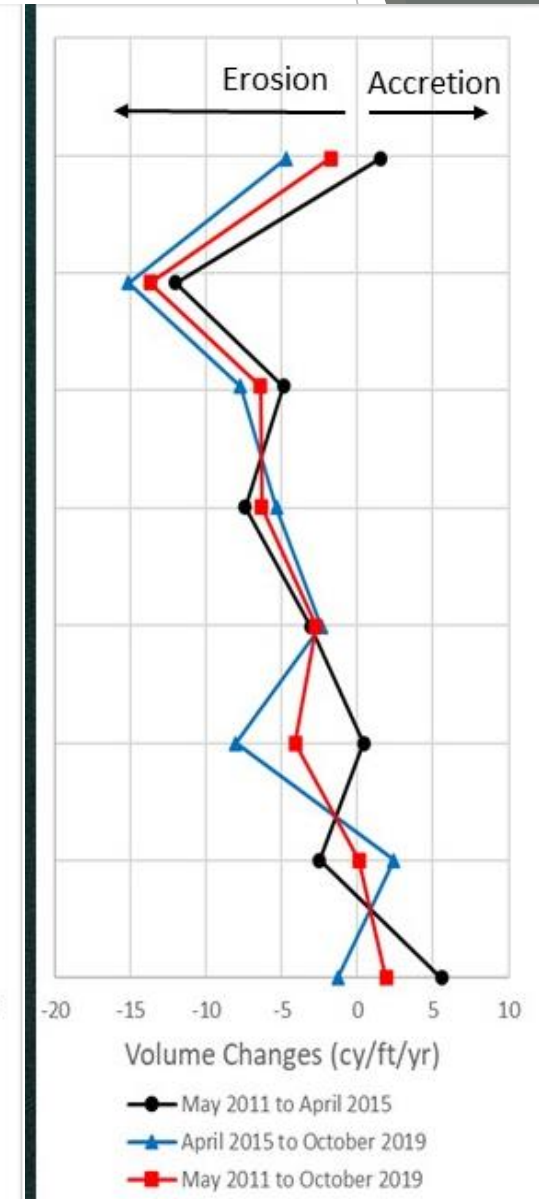
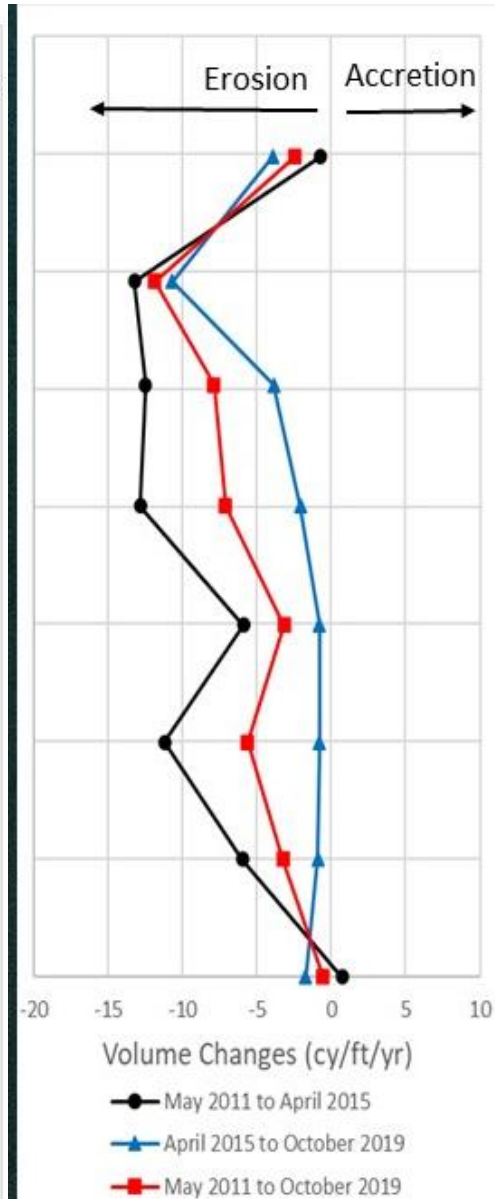
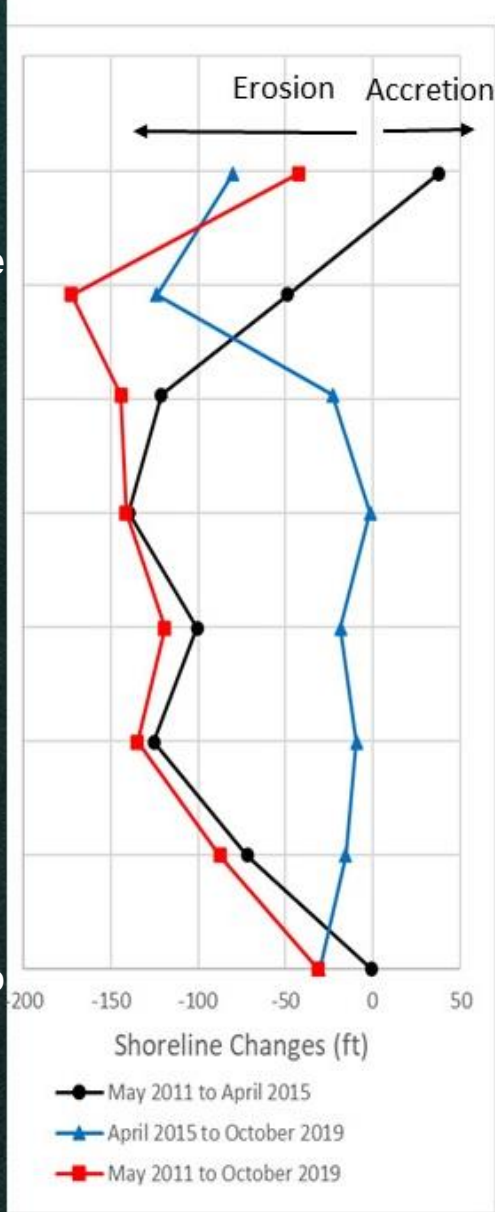
1. Shoreline Changes
2. Volume Changes
3. Sediment Budget

- Recent period: April 2015 to October 2019
- Longer term period: May 2011 to October 2019

Three Segments:

- North Segment: R-6+750 to R-9
- Central Segment: R-9 to R-11
- South Segment: R-11 to R-13

Shoreline & Volumetric Changes



Regional Sediment Budget

- **FDEP Strategic Beach Management (SBMP) – State-level effort for Beach Management that sets targets for inlet bypassing volumes.**
- FDEP SBMP Bypassing cubic yards (cy) per year (yr)
 - Boca Raton Inlet: 83,000 cy/yr
 - Hillsboro Inlet: 120,000 cy/yr
- Between Apr. 2015 and Oct. 2019, the analyzed net annual longshore transport rate is approximately 67,850 cy/yr at north border.
- Between May 2011 and Oct. 2019, the analyzed net annual longshore transport rate is approximately 45,180 cy/yr at north border.

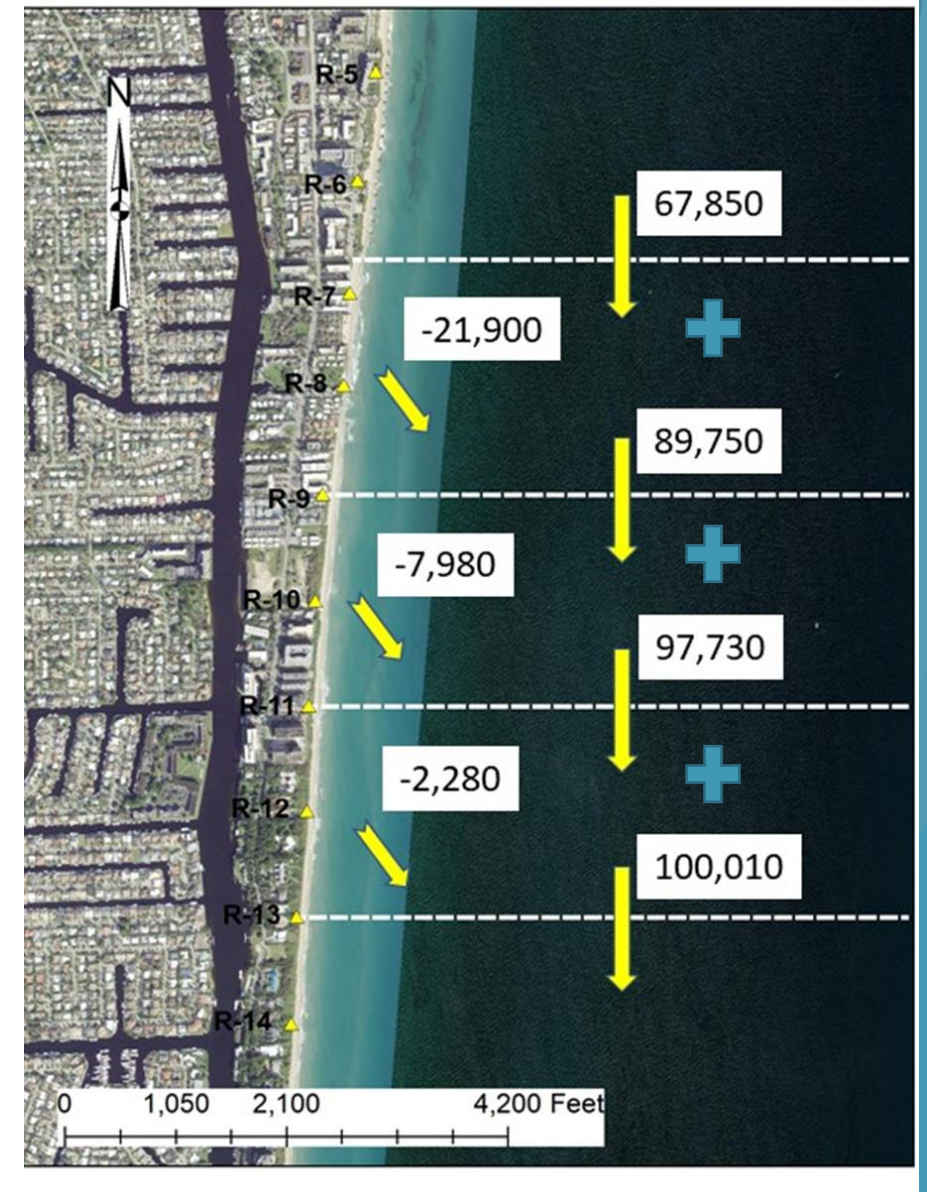


Figure 4. Regional Sediment Budget (cy/yr, Apr. 2015 to Oct. 2019)

Regional Sediment Budget

Findings: (May 2011 to Oct. 2019)

- Estimated longshore transport rates are between 45,180 cy/yr and 73,320 cy/yr from R-7 to R-13.
- To be able to offset the historical erosion, the annual beach nourishment rates of approximately 19,760 cy/yr is required between R-6+750 and R-9.
- To be able to offset the historical erosion, the annual beach nourishment rates of approximately 28,240 cy/yr is required between R-6+750 and R-13.

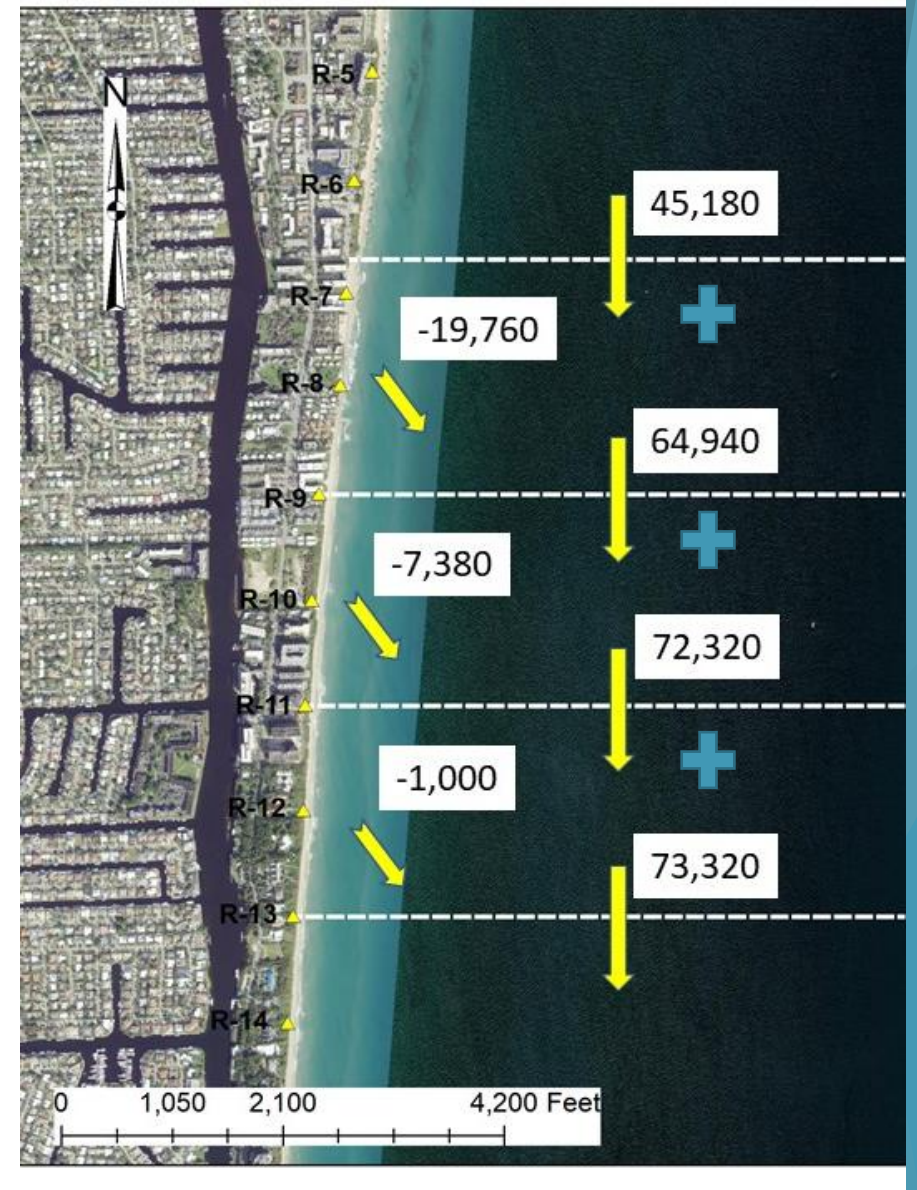
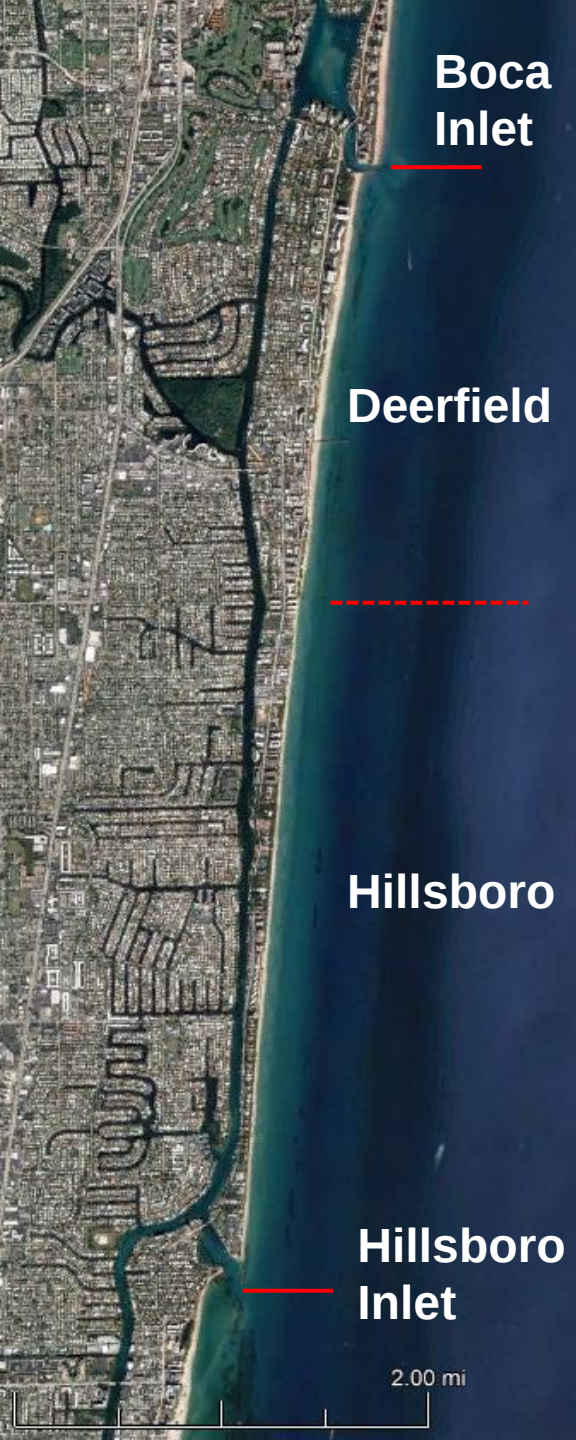
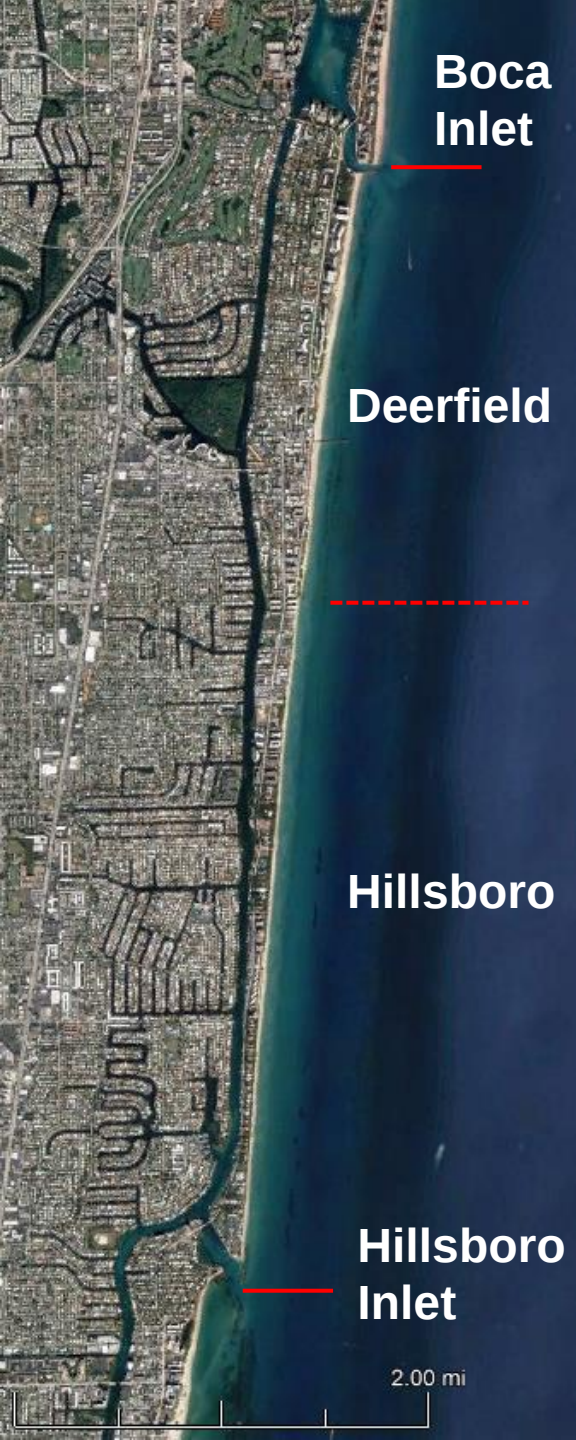


Figure 5. Regional Sediment Budget (cy/yr, May 2011 to Oct. 2019)



Strategic Beach Management

- ✓ Holistic approach to beach management
- ✓ Regional Inlet-to-Inlet Approach
 - Boca Inlet
 - Hillsboro Inlet District
- ✓ Nourishment volumes, frequency, beach longevity
- ✓ Building the foundation
 - 2020 Nourishment
 - Feasibility Study
 - 2022/23 Joint Nourishment
 - Sustainable Management Program
 - ✓ State, Federal, Local Buy-In



2022/23 Joint Nourishment

- ✓ The right team in place – Hillsboro, Deerfield, Moffatt & Nichol, and CPE
- ✓ Potential coordination with Boca
 - ✓ Boca ebb shoal has 300,000 to 400,000 cy in permitting dredge template, but limited space in their placement template
 - ✓ The City of Boca can better maintain controlling depths for boating by allowing Hillsboro use of the permitted ebb shoal borrow area
- ✓ Continued coordination with State (FDEP, FDEM) and Federal (FEMA, USACE) agencies
- ✓ Another building block for the sustainable beach management of Hillsboro Beach



Thank you!



Moffatt & Nichol (M&N)

Tim Blankenship, PE,

Christy Brush

Jackie Brower, PhD, PE



moffatt & nichol

HILLSBORO/DEERFIELD BEACH NOURISHMENT PROJECT STATUS UPDATE MEETING

March 1, 2022



Coastal Protection Engineering (CPE)

Thomas Pierro, PE, D.CE, Principal Engineer
Tara Brenner, PG, PE, Sr. Coastal Engineer



COASTAL
PROTECTION
ENGINEERING

PROJECT TEAM



Coastal Protection Engineering (CPE)

Thomas Pierro, PE, D.CE, Principal Engineer

Thomas Campbell, PE, D.CE, Principal Advisor

Tara Brenner, PG, PE, Sr. Coastal Engineer

Stacy Buck, Sr. Marine Biologist

Dylan Nestler, PE, Coastal Engineer



moffatt & nichol

Moffatt & Nichol (M&N)

Tim Blankenship, PE, Coastal Engineer

Jackie Brower, PE, PhD, Coastal Engineer & Scientist

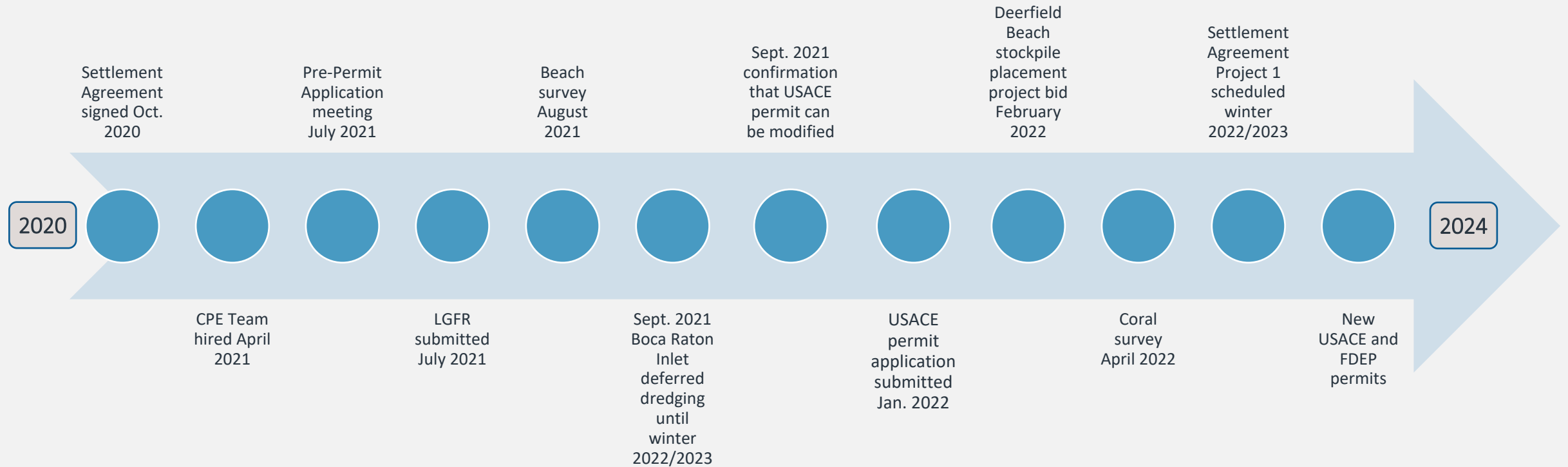


PRIMARY PROJECT OBJECTIVES

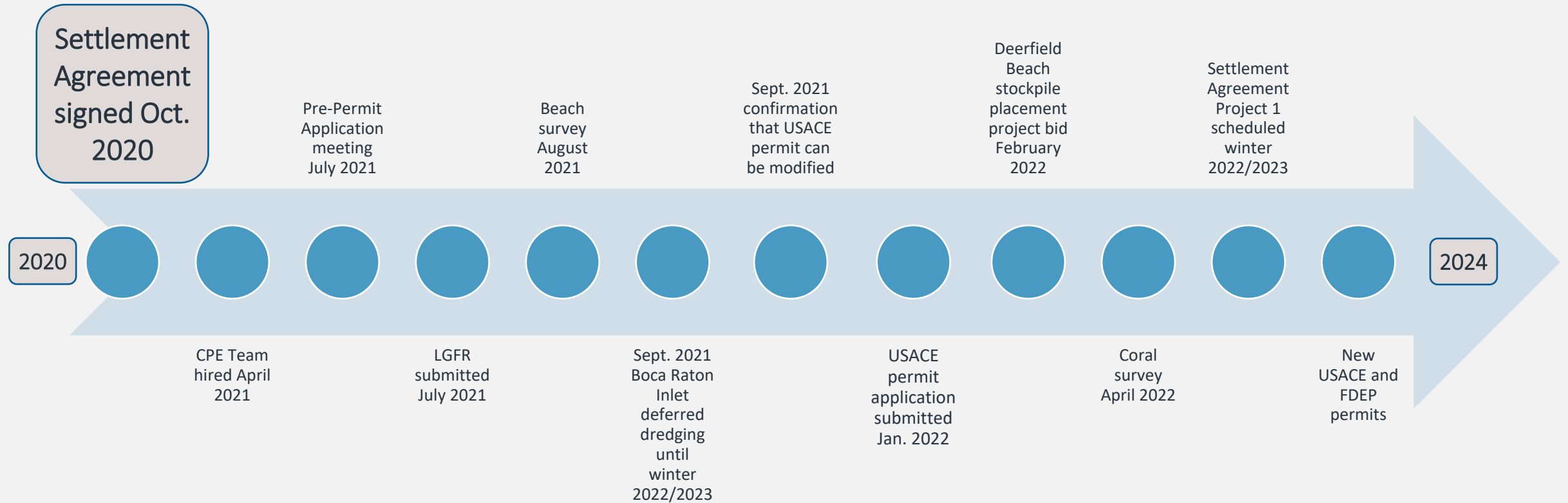
- Joint beach nourishment with City of Deerfield Beach
- Comply with Oct. 2020 Settlement Agreement
- Obtain cost sharing from State and Federal governments
- Immediate approach:
 - 1st project to be complete in 2023
 - Utilize existing/previous regulatory authorizations
 - Evaluate both upland and inlet sand source options
- Long term planning:
 - Develop program with 30-year planning horizon
 - Reformulate project based on performance monitoring and feasibility study
- Work together



PROJECT TIMELINE



PROJECT TIMELINE

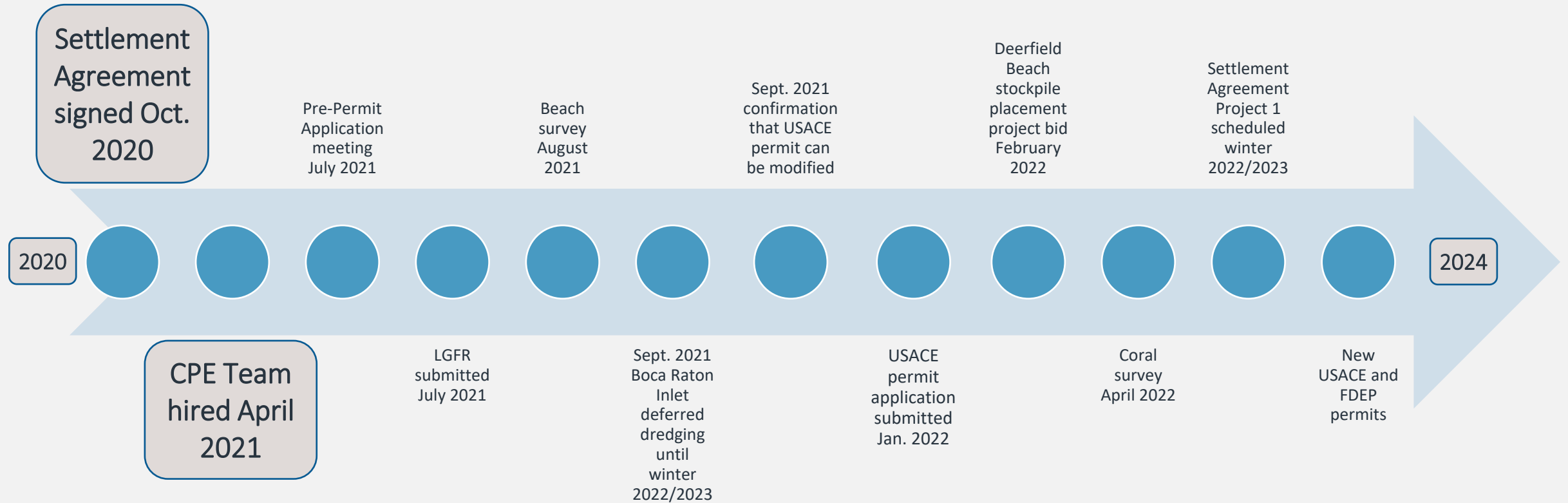


SETTLEMENT AGREEMENT

- Effective Date: October 8, 2020
- Beach nourishment every 5 years for 30 years
- Initial construction between 2021 and 2023
- City of Deerfield Beach
 - 1,500 feet: SE 6th St (R-5+350) to SE 10th St (R-6.7)
 - Coordinate with City of Boca Raton
- Town of Hillsboro Beach
 - 2,300 feet - SE 10th St (R-6.7) to R-9
 - Coordinate with Hillsboro Inlet District
- Provisions: bury rock groins, extend ECL, jointly manage and monitor



PROJECT TIMELINE



PROJECT PERMITS

- FDEP 0289706-001-JC
 - Issued 12/15/2010 Expires 12/15/2025
 - Valid for future use
- USACE SAJ-1997-02355
 - Issued 12/19/1997 Expires 2/12/2023
 - Event constructed 2020
 - Not valid for future use
- Broward County DF-1082
 - Issued 10/20/2014 Expires 10/20/2024
 - Future use being coordinated with County



**FLORIDA DEPARTMENT OF
Environmental Protection**

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

**CONSOLIDATED JOINT COASTAL PERMIT AND
SOVEREIGN SUBMERGED LANDS AUTHORIZATION**

PERMITTEE: Town of Hillsboro Beach Mayor Deborah Tarrant 1210 Hillsboro Mile Hillsboro Beach, FL 33062	PERMIT INFORMATION: Permit Number: 0289706-001-JC Project Name: Hillsboro/Deerfield Beach Nourishment
AGENT: Christy Brush Moffat & Nichol 2937 SW 27 th Ave, Suite 101A Miami, FL 33133	County: Broward County Issuance Date: December 15, 2010 Expiration Date: December 15, 2025

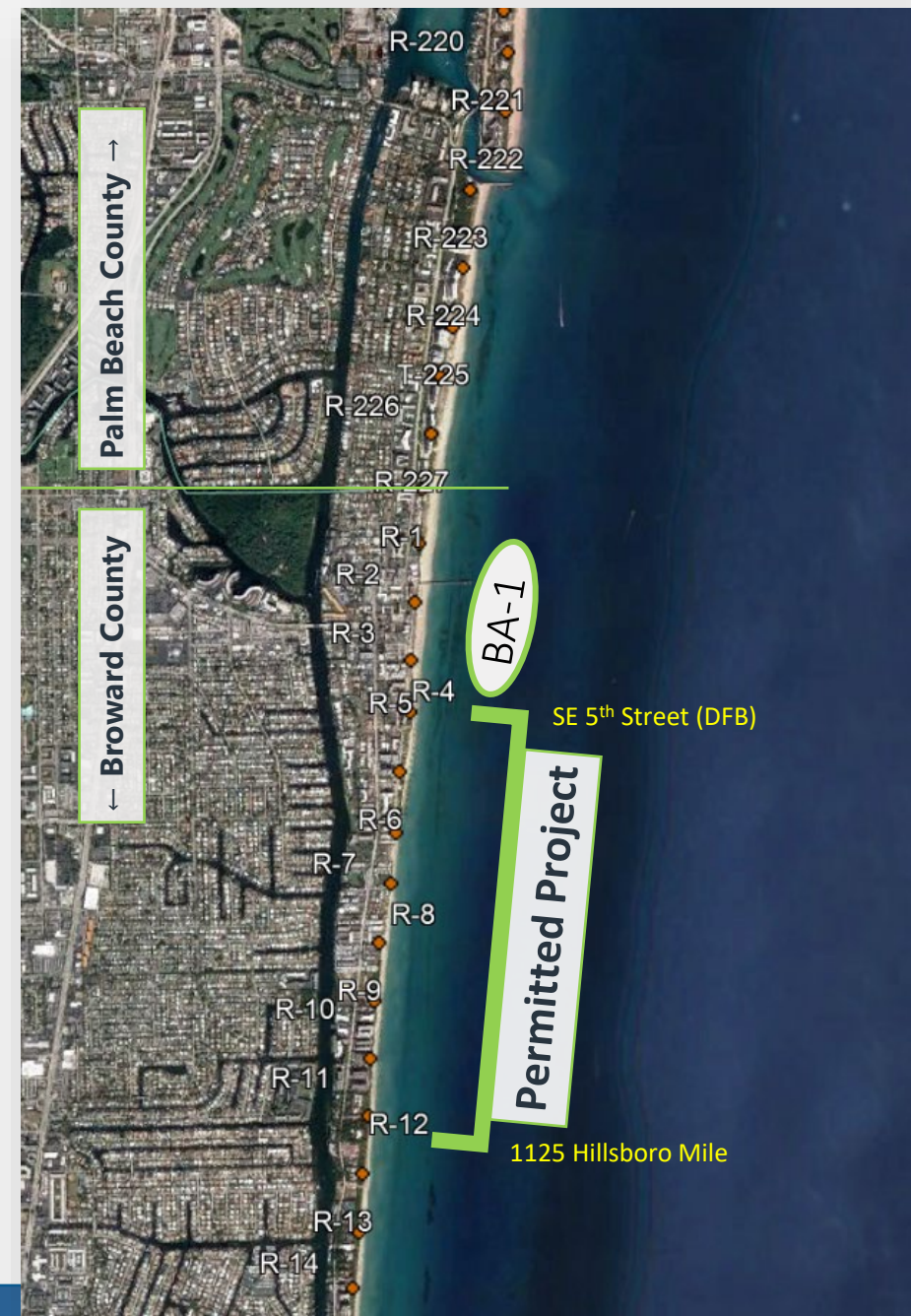
REGULATORY AUTHORIZATION:
This is issued under the authority of Chapter 161 which includes consideration of the provisions contained in Part IV of Chapter 373, Florida Statutes (F.S.), and Title 62, Florida Administrative Code (F.A.C.). Pursuant to Operating Agreements executed between the Department of Environmental Protection (Department) and the water management districts, as referenced in Chapter 62-113, F.A.C., the Department is responsible for reviewing and taking final agency action on this activity.

PROJECT DESCRIPTION:
The project is to nourish and maintain 7,175 linear feet of shoreline, from DEP monuments R-5 to R-12+400 feet, using material obtained from the Broward County Borrow Area 1 (BA-1), or from an approved upland sand mine (E.R. Jahna Industries, Inc., Ortona Mine; the Vulcan Materials Company's, Witherspoon Mine; the Stewart Materials', Immokalee Mine or the Garcia Sand Mine).

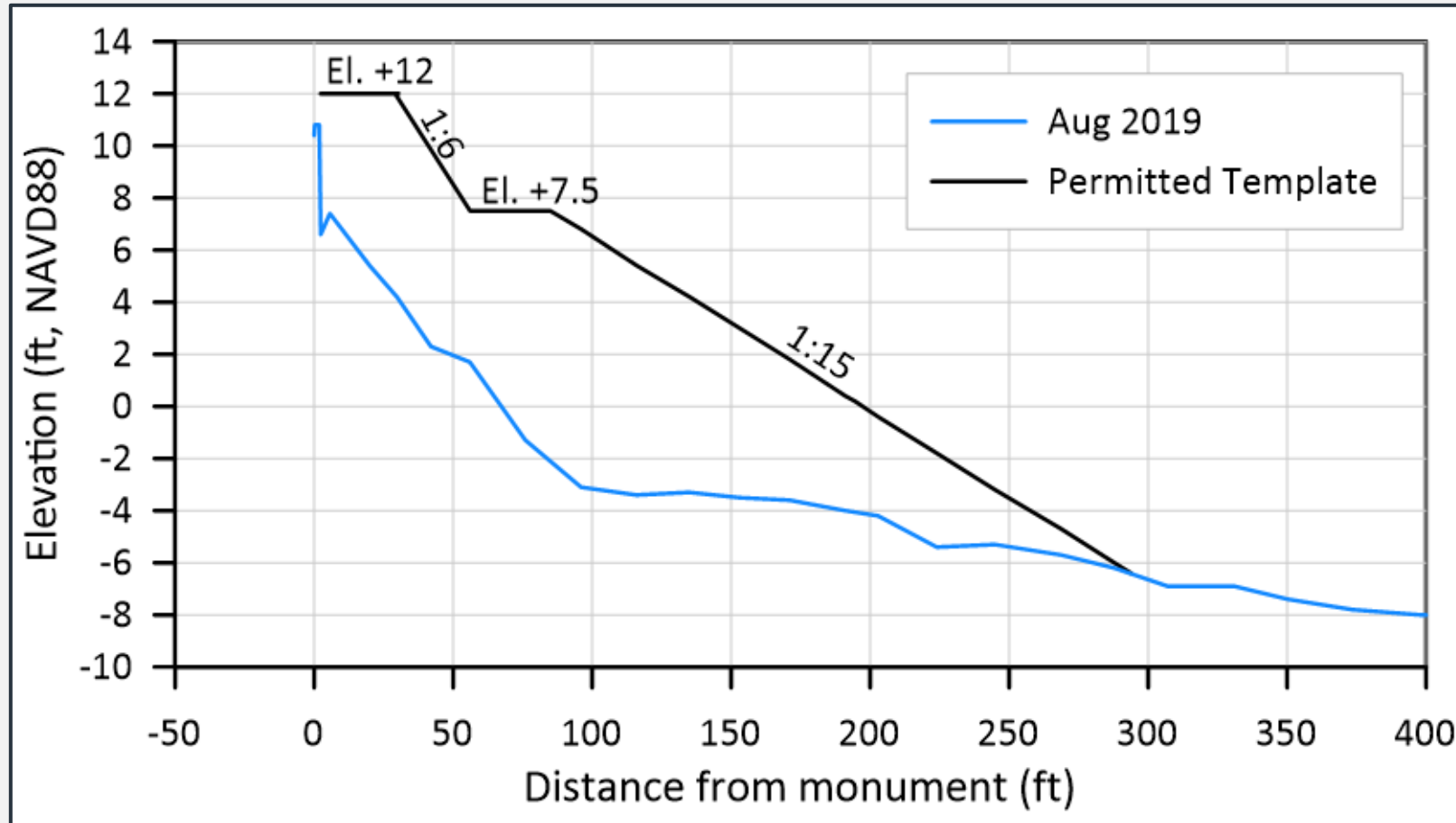
Approximately 5,000 cubic yards of material will be used to construct a dune north of R-6.5, where it will be placed entirely landward of the MHW line. Approximately 370,000 cubic yards of material will be used to nourish the beach in the southern portion of the project area, from R-6.5 to R-12+400 feet. The existing berm height will be raised to +7.5 feet NAVD with a design profile consisting of a 1:15 (vertical:horizontal) foreshore slope transitioning to a 1:30 nearshore slope. The dune will have a crest elevation of +12 NAVD, with a slope of 1:6.

FDEP PERMIT

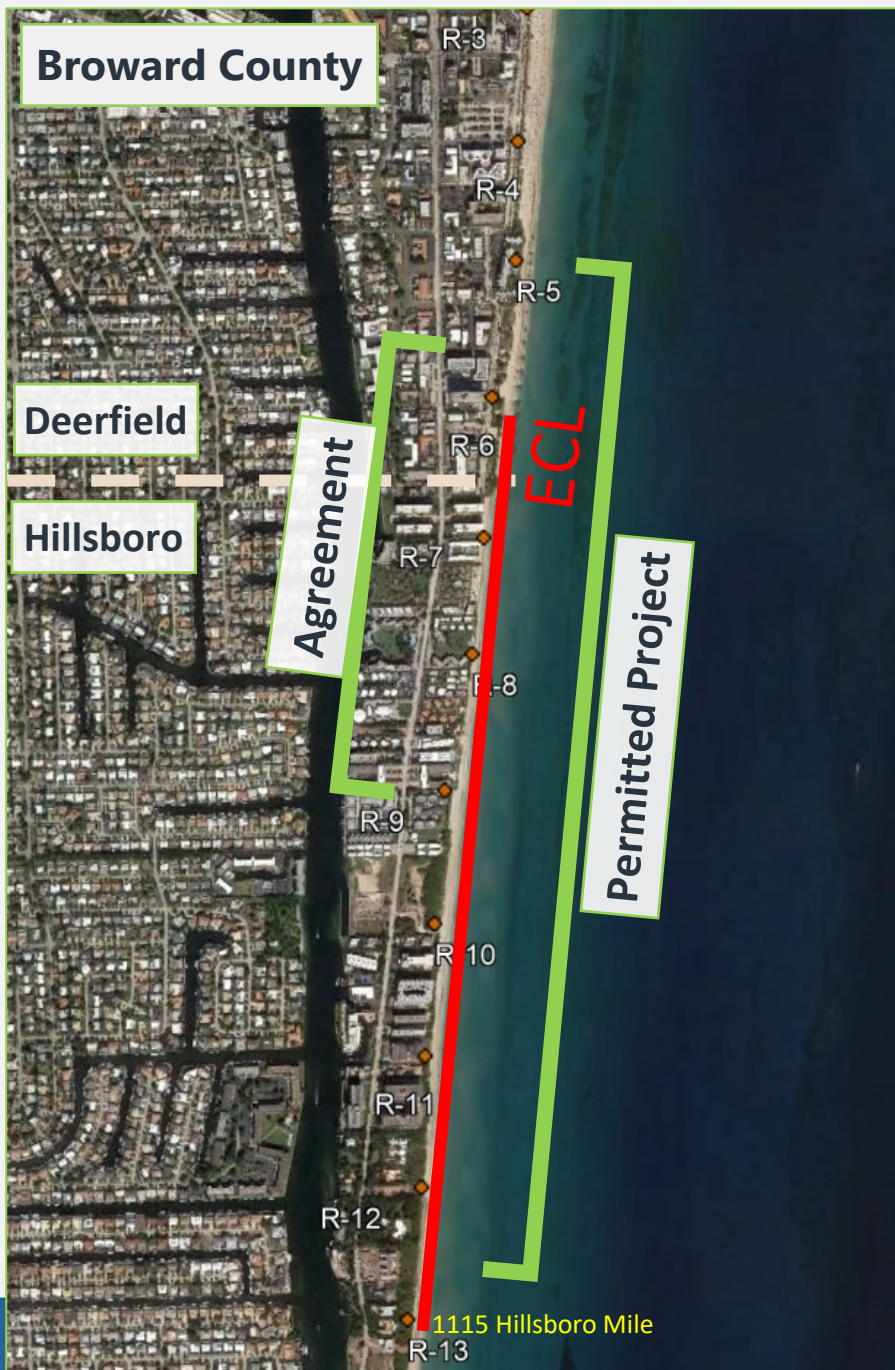
- 7,175 linear feet of shoreline
- R-5 to R-12+400 (~1.3 mi)
- Approved Sand Sources:
 - Offshore Borrow Area BA-1
 - Four upland sand mines
- Modified to add stockpiled sand as an approved source



PERMITTED FILL TEMPLATE



- Dune crest elevation +12' NAVD with 1:6 slope
- Berm elevation +7.5' NAVD with 1:15 slope
- Variations alongshore
- Volume depends on beach conditions



PROJECT EXTENTS

- Permitted project area between R-5 and R-12+400 (~1.3 mi)
- Settlement Agreement area from R-5+350 to R-9 (~0.7 mi)
- Sand placement above MHW from R-5 to R-6.5
- Sand placement may extend below MHW from R-6.5 to R-12+400
- ECL in place from R-6 to R-13

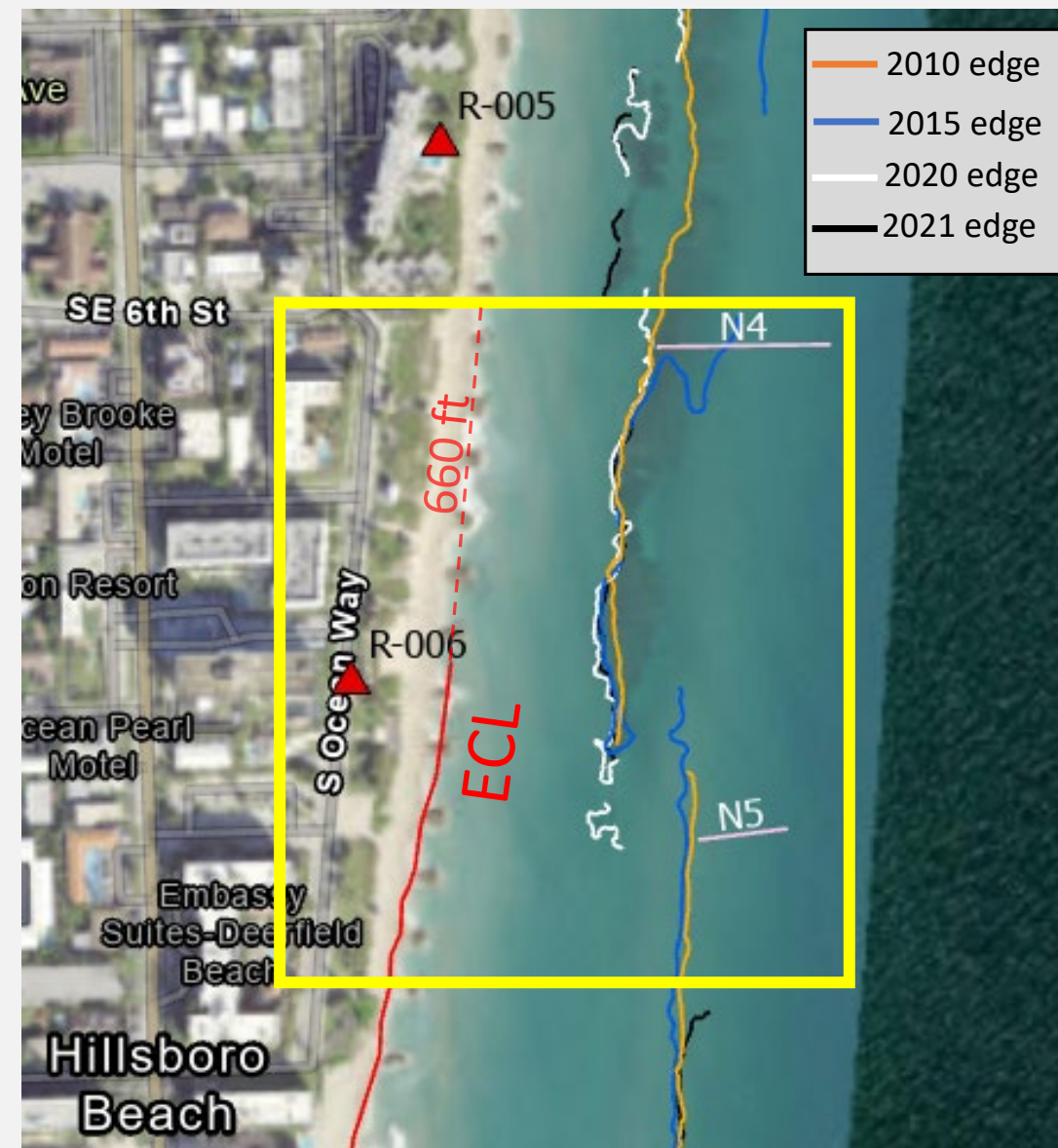
EROSION CONTROL LINE (ECL)

- Defined in Florida Statutes: Ch. 161.141
- Boundary of sovereign submerged land and upland ownership
- Required for beach projects that advance the mean high water line (MHWL)
- Not needed for fill placement above mean high water (no MHWL advance)

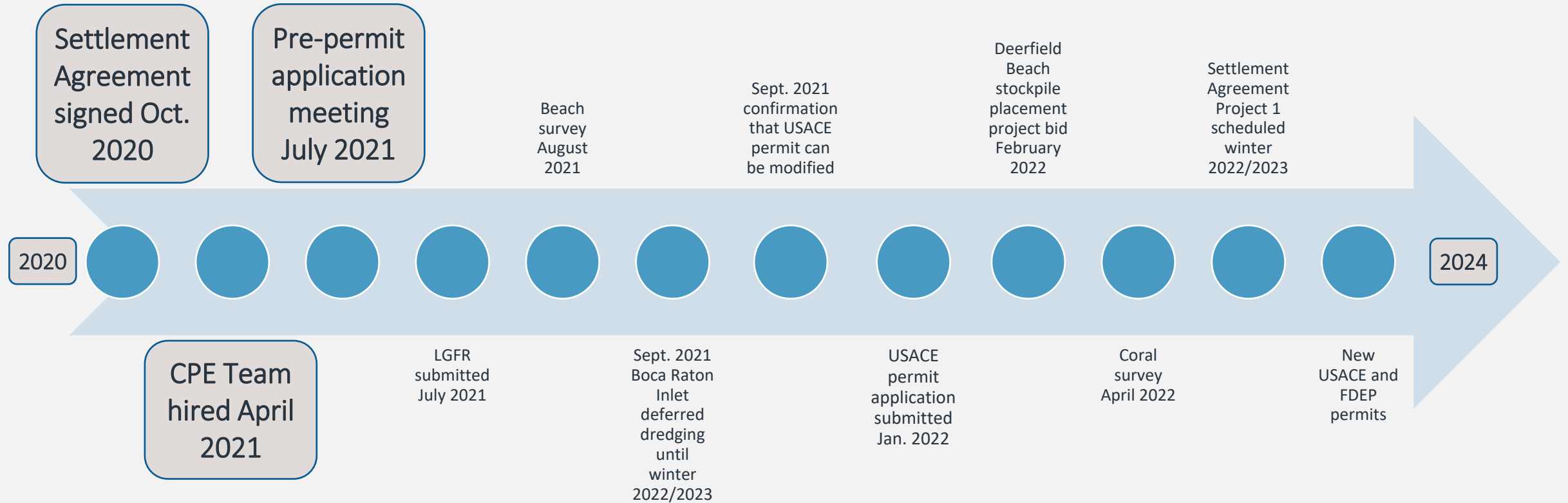


ECL EXTENSION PROCESS

- MHWL survey, workshop, and hearing
- Survey should not be more than approx. 6 months old at the time of the ECL hearing
- Risk of “redo” if the project is not ready to be constructed within 2-years
- Typically, 6 months to 1 year for all tasks
- Fill placement in water limited by nearshore environmental resources



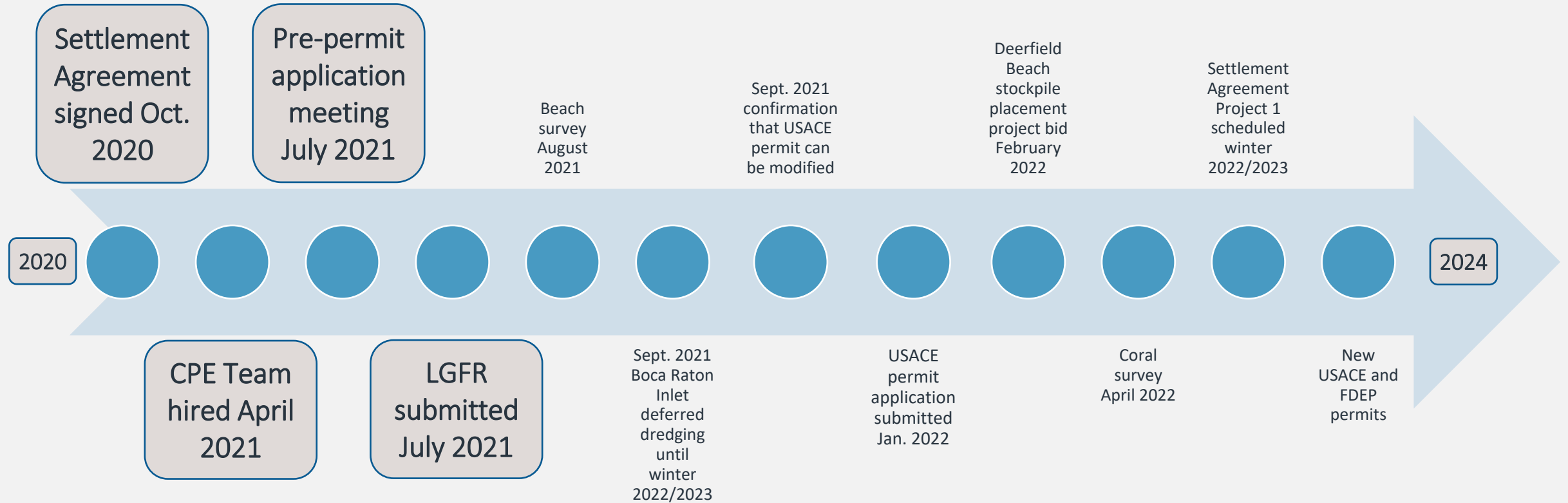
PROJECT TIMELINE



PRE-APPLICATION MEETING

- Presented proposed project to FDEP and USACE on July 15, 2021
- FDEP supports regional approach and modification of existing permit
- USACE challenges:
 - Current federal permit authorization was used for 2020 Hillsboro Truck Haul
 - New permit authorization will be required
 - Must comply with new 2020 SARBO requirements
- Permitting plan:
 - Utilize existing FDEP and Broward County permits and modify as needed
 - Apply for new USACE permit to reauthorize previous fill template

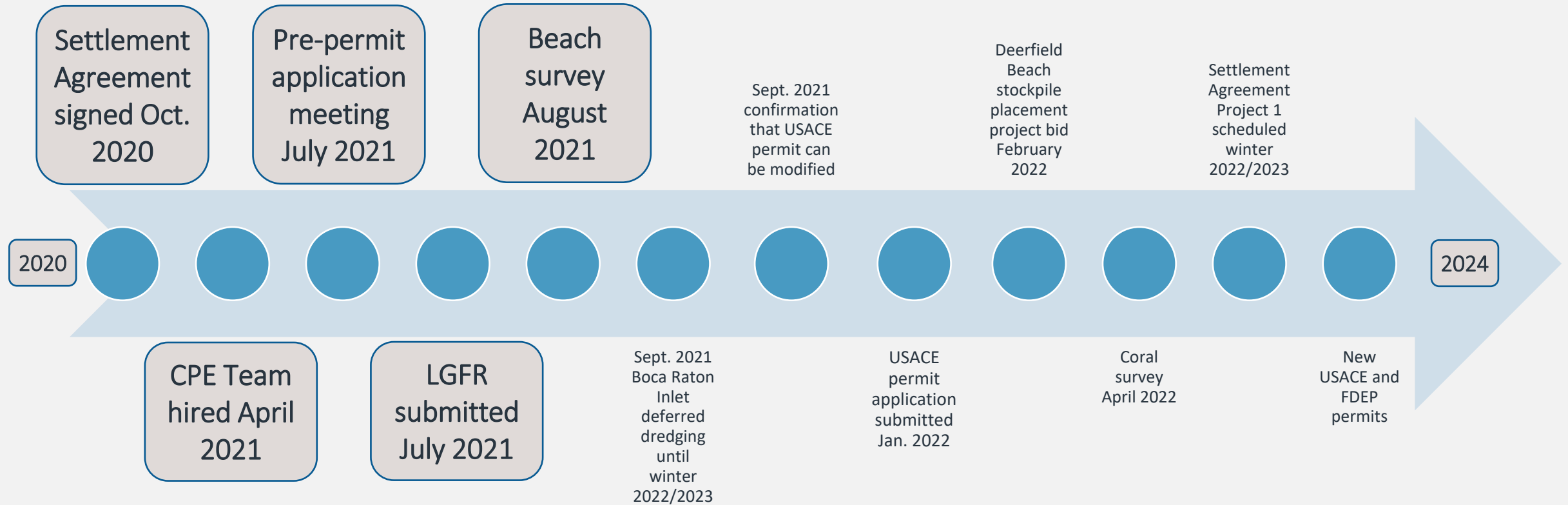
PROJECT TIMELINE



LOCAL GOVERNMENT FUNDING REQUEST (LGFR)

- Additional points received for regional cooperation
- Submitted request for state cost share of \$5,225,000 for FY2022/2023
- FDEP determined 100% of the project is eligible for state cost sharing
 - Results in maximum State Cost Share percent of 50% (after federal share)
 - Potential initial Grant Funding of \$2,612,500 (reimbursable basis)
- Statewide project requests are presently under review by Legislature
- Adjustments of amount can be requested in multiple future funding cycles both pre-project and up to 3 years post-project

PROJECT TIMELINE



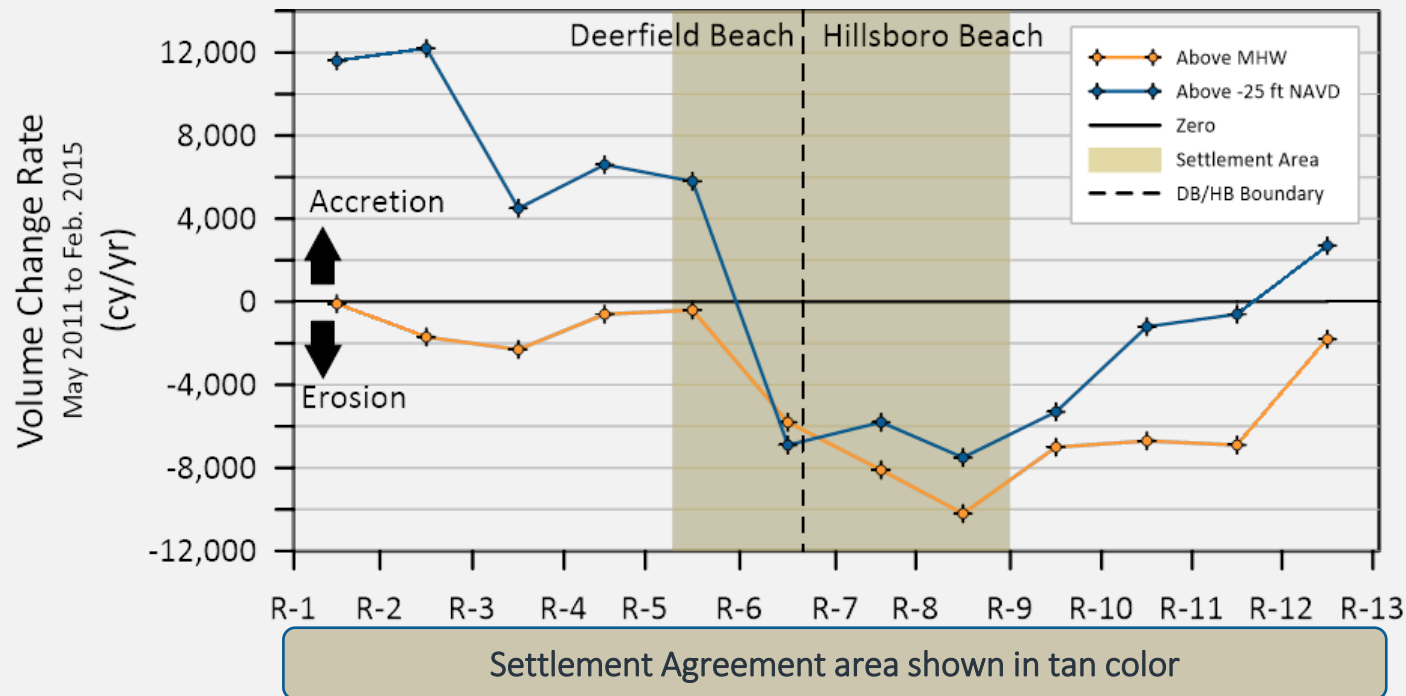
AUGUST 2021 SURVEY

- Coordinated with M&N survey team to avoid duplication of effort
- 2021 beach condition was similar on average to summer 2020 conditions
- Estimated fill template capacity:
 - 401,400 cy in permitted project area (R-5 to R-12+400)
 - 190,700 cy in Settlement Agreement area (R-5+350 to R-9)

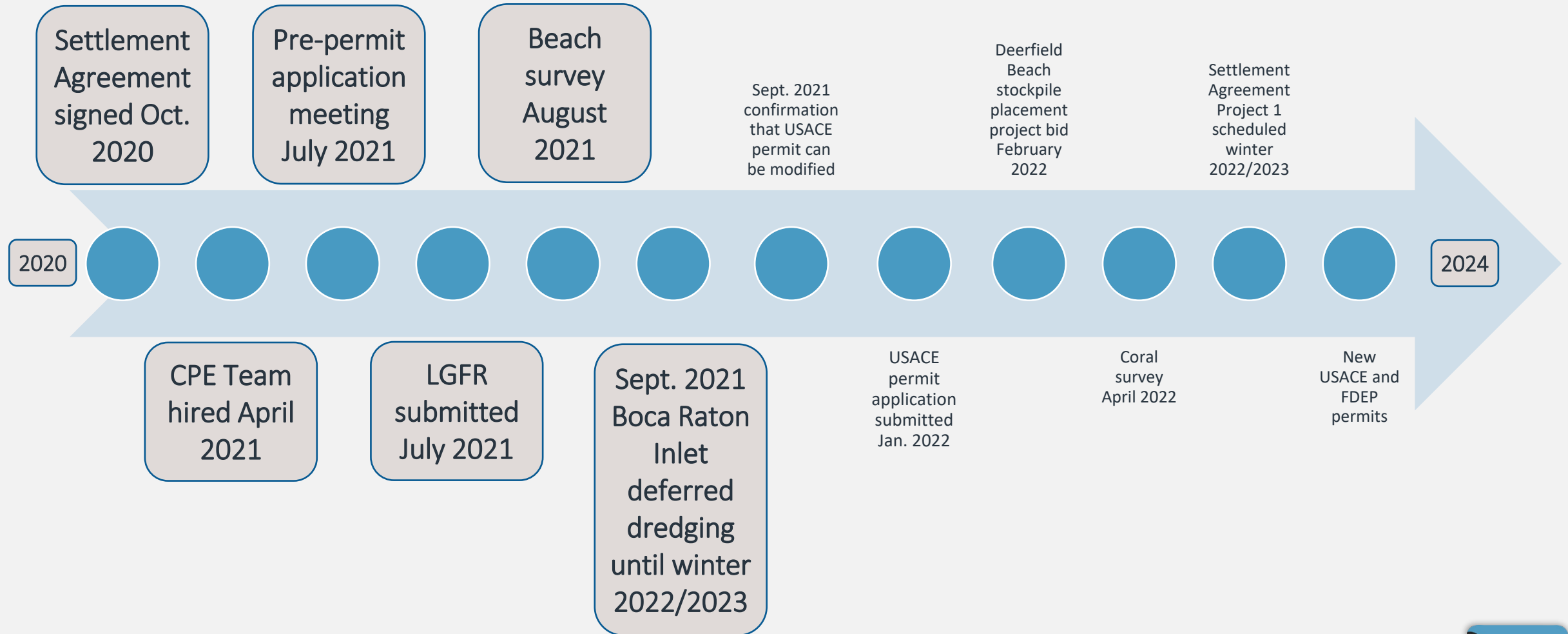


PAST BEACH PERFORMANCE

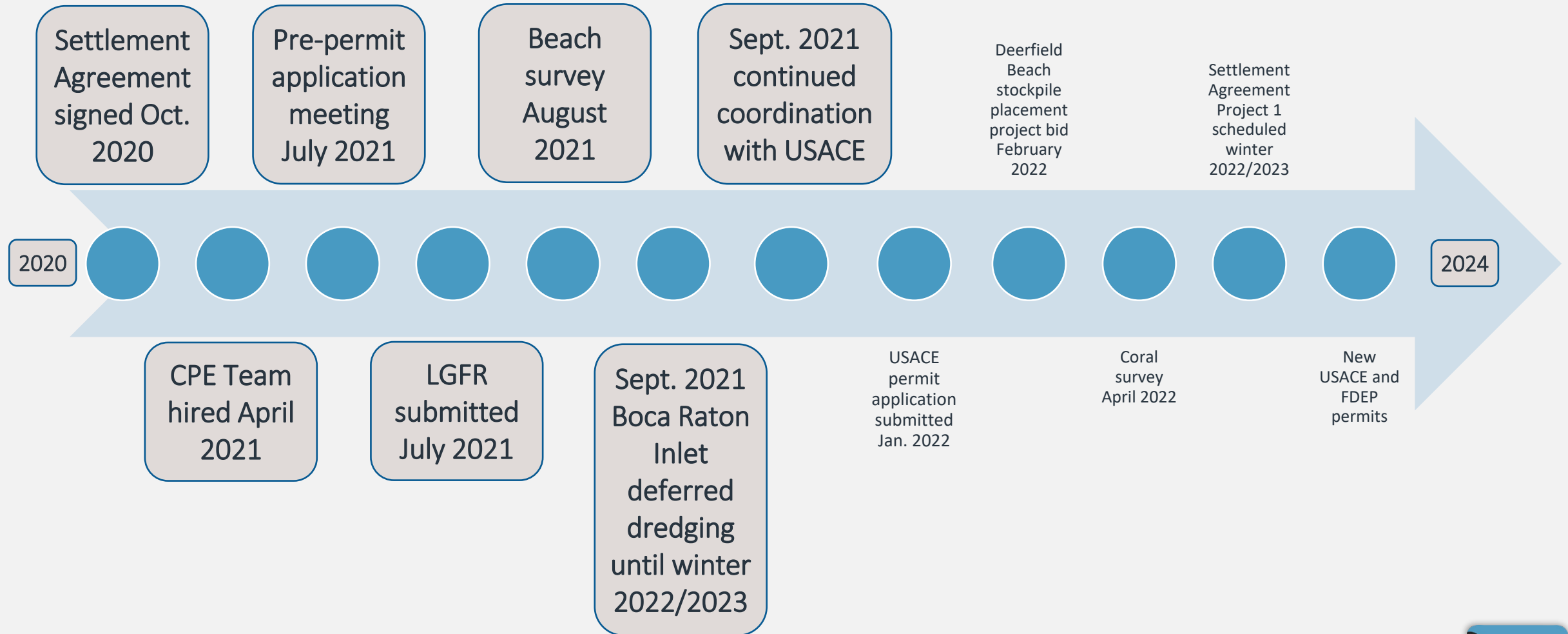
- Volumetric erosion from 2011 to 2015:
 - -20,300 cy/yr from R6 to R9
 - Projection of ~101,500 cy over 5 years



PROJECT TIMELINE



PROJECT TIMELINE

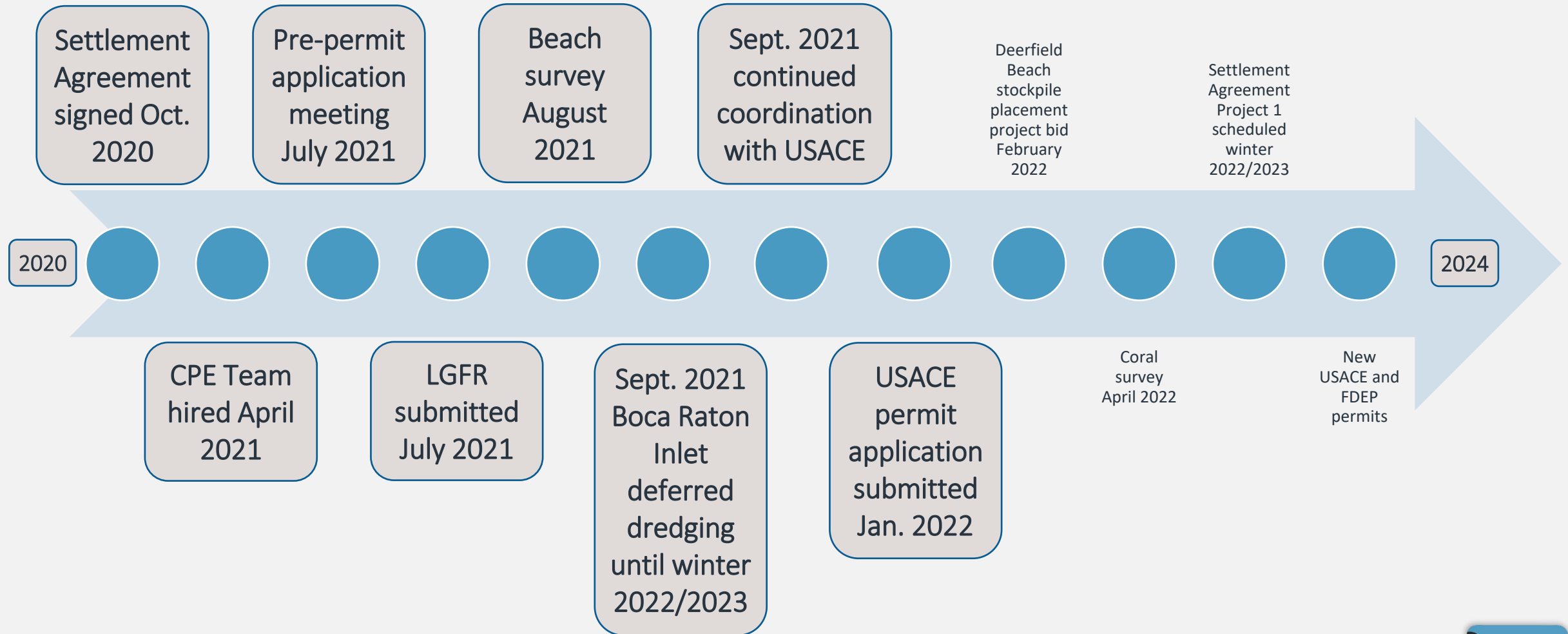


USACE UPDATE - JANUARY 2022

USACE recommendation to apply for a new multiple-use permit:

- Permit review time for re-authorization expected to be abbreviated
- No external agency review expected if project stays within the previously permitted construction template
- Project must comply with 2020 SARBO requirement for coral survey
- New permit will be authorized for multiple projects and sand sources

PROJECT TIMELINE



USACE PERMIT APPLICATION SUBMITTAL

- Awaiting application review from USACE
- Anticipate RAI for new coral survey requirement (SARBO)

Your application for a Department of the Army, Corps of Engineers permit has been processed and assigned to a Project Manager. The project is known as:

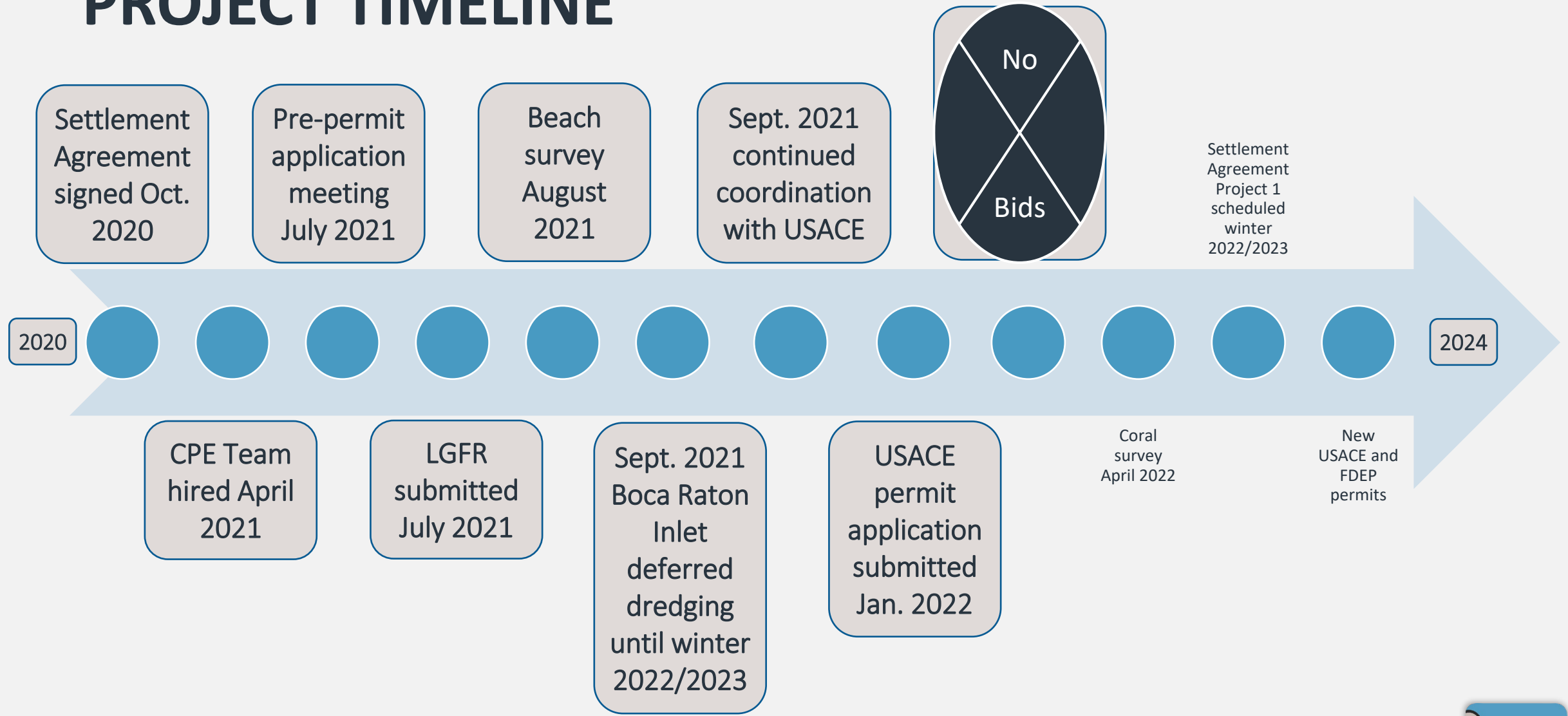
(Project No)	(Project Name)
SAJ-1997-02355	(Hillsboro Beach, Town of/ Beach Renourishment)

Patricia Clune has been assigned as the Project Manager. Patricia can be contacted at phone number **561-768-5944** or by electronic mail at patricia.r.clune@usace.army.mil. Please refer to the SAJ No and project name in all future correspondence on this project and direct to your assigned Project Manager.

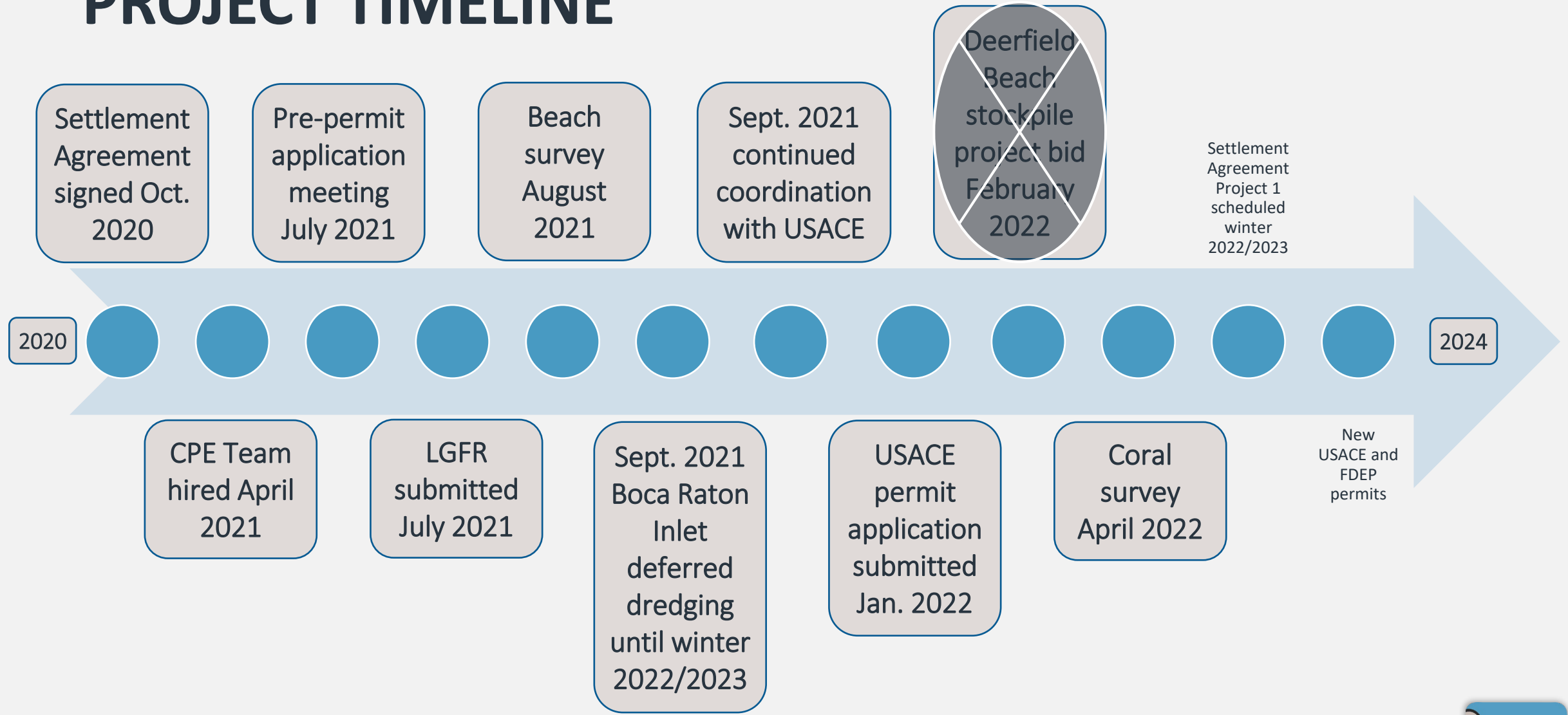
Due to manpower shortage, an increase in the number of applications, and the COVID19 climate, please allow 30 days for the assigned PM to review the projects before making initial contact with them. We appreciate your understanding.

BE ADVISED: You are cautioned that commencement of the proposed work in waters of the United States subject to Corps jurisdiction prior to Department of the Army (DA) authorization would constitute a violation of Federal laws and subject you to possible enforcement action. Receipt of a permit from the Florida Department of Environmental Protection or Florida Water Management Districts and/or other state and local agencies does not obviate the requirement for obtaining a DA permit prior to commencing the proposed work.

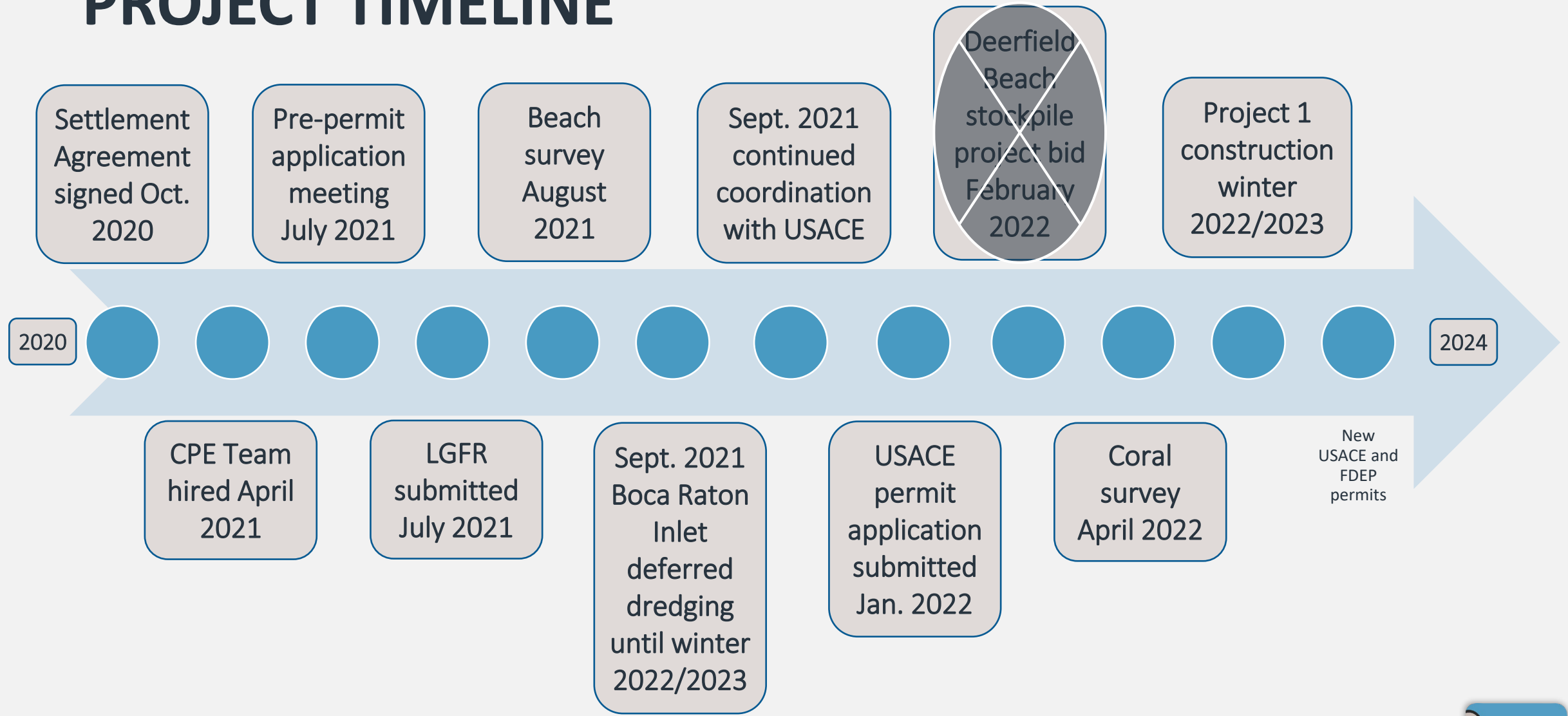
PROJECT TIMELINE



PROJECT TIMELINE



PROJECT TIMELINE



PROPOSED PROJECT 2022-2023

- Utilize existing FDEP permit and new USACE permit
- Sand placement within construction templates approved in 2011
- Estimate 200,000 to 300,000 cy depending on conditions at time of construction
- Multiple potential sand sources proposed:
 - Deerfield Beach stockpile
 - Previously permitted upland mines
 - Boca Raton Inlet (City of Boca Raton dependent)

PROJECT SCHEDULE

- Permitting: ongoing
- Coral Survey: March/April 2022 (ASAP)
- Beach Monitoring Surveys: Spring 2022
- Final Design, Plans and Specifications: Summer 2022
- Procurement: Fall 2022
- Pre-Construction Surveys: Fall 2022
- Target Construction Window: November 2022 – April 2023

BUDGET ESTIMATE

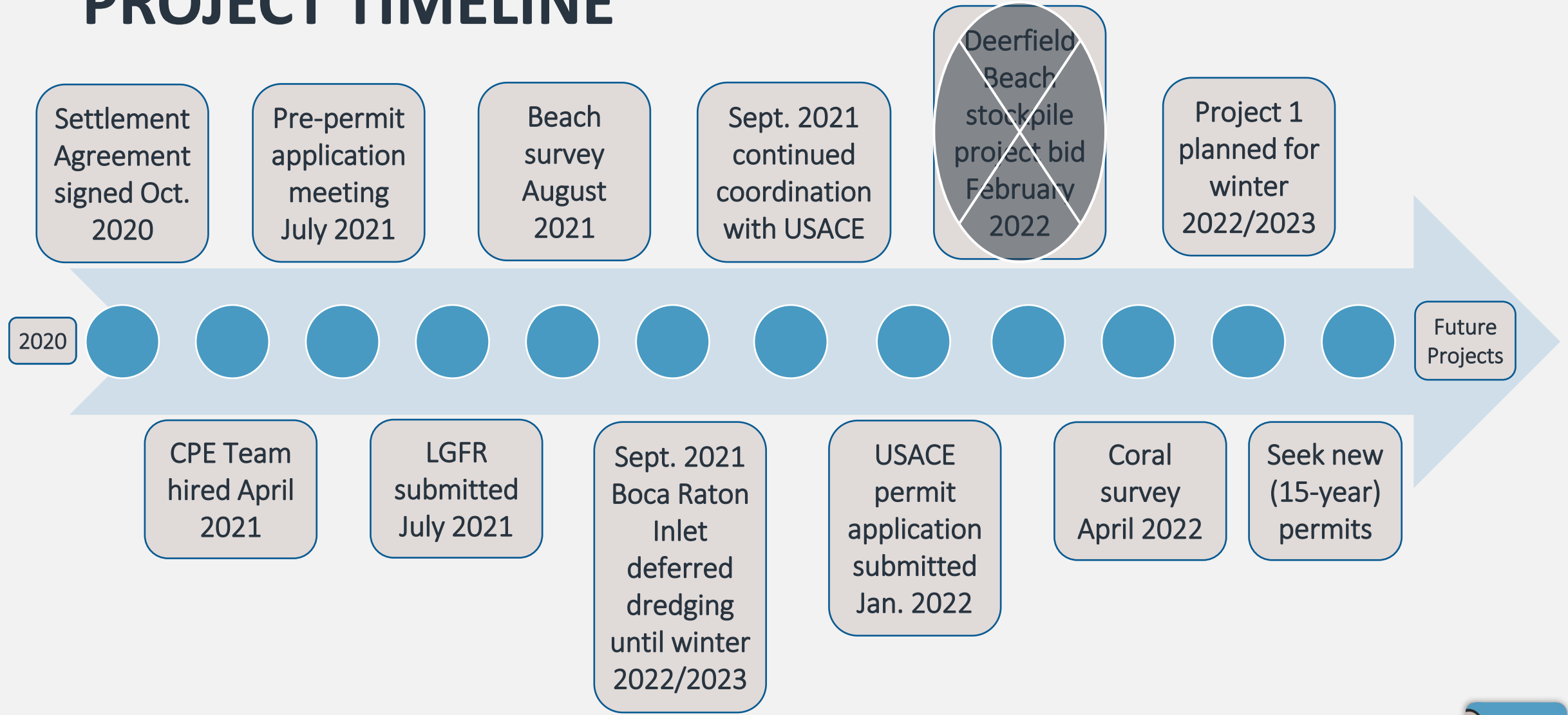
- Construction cost
- Engineering cost
- FEMA (Town) = 64,030 cy
- FEMA (City) = 5,162 cy
- State share = 50% (remainder)
- County cost share TBD

Updated Planning Estimates*

<u>Truck Haul from Upland Mine</u>	CY	Unit Price	
Construction Cost	220,000	\$61.58	\$13,547,600.00
Engineering, Adminitration, & Monitoring		5%	\$677,380.00
			\$14,224,980.00
FEMA (TOHB + DFB) -75% Share of	69,192	\$61.58	-\$3,195,632.52
			\$11,029,347.48
State Cost Sharing		-50%	-\$5,514,673.74
			\$5,514,673.74
Local Contribution (Cost Share TBD)			\$5,514,673.74
Broward County			DRAFT
City of Deerfield Beach			
Town of Hillsboro Beach			

**Estimates shown hereon are considered DRAFT for project planning purposes only. Cost sharing projections are subject to further coordination, market fluctuations, condition assessments, FEMA prorates, State grants, and budget approvals.*

PROJECT TIMELINE



FUTURE PROJECTS

- Plan for 5-year interval for 30 years
- Perform regional beach assessment
- Redesign beach fill templates for future
- Apply for 15-year multiple use permits
- Address nearshore hardbottom concerns
- Extend ECL as needed within City of Deerfield
- Continue coordination with Boca Raton Inlet and Hillsboro Inlet for beneficial use of dredged material as future sand source
- Include existing/new sand sources to cover life of permits



HILLSBORO/DEERFIELD BEACH NOURISHMENT PROJECT

STATUS UPDATE MEETING



Coastal Protection Engineering LLC

Thomas Pierro, PE, D.CE, Principal Engineer

Thomas Campbell, PE, D.CE, Principal Advisor

Tara Brenner, PG, PE, Sr. Coastal Engineer

Stacy Buck, Sr. Marine Biologist

Dylan Nestler, PE, Coastal Engineer