



Beach Preservation Committee
1:00 p.m., Monday, March 23, 2026
1207 Palm Boulevard
City Hall Council Chambers

Public Comment:

All citizens who wish to speak during the meeting must email their first and last name, address and topic to Nicole DeNeane, City Clerk, at nicoled@iop.net no later than **3:00 p.m. the day before the meeting**. Citizens may also provide written public comment here:

<https://www.iop.net/public-comment-form>

Agenda

1. **Call to order** and acknowledgment that the press and the public have been duly notified of the meeting in accordance with the Freedom of Information Act.
2. **Citizens' Comments** – All comments have a time limit of three (3) minutes.
3. **New Business**
 - a. Discussion with Stephen Traynum, CS&E on definition of minimum healthy beach
 - b. Review of recent beach monitoring survey
 - c. Review of beach nourishment bids
4. **Miscellaneous Business**

Next meeting: Thursday, April 2, 2026 at 9am
5. **Adjournment**



Planned Project Volume

On many beaches, nourishment volume can be determined using a simple profile-based calculation that is based on the existing condition of the beach, the desired healthy beach condition, and the expected erosion rate. Terms are defined as:

Profile Volume – The quantity of sand contained in a beach profile. This is typically reported on a unit-bases, meaning the amount of sand contained in a 1-ft length of beach (cubic yards per foot of beach - cy/ft). The volume is measured between a reference point on the landward end of the profile (typically a line that represents a management line such as the seaward side of oceanfront houses or a dune line) and a seaward point that captures most of the normal sand transport (typically the Closure Depth).

Depth of Closure – The depth at which repetitive profiles collected over several surveys tend to overlap and become consistent. This varies by beach based on tide and wave conditions. At Isle of Palms, the Depth of Closure is around -13 ft NAVD, though it is shallower around the inlet areas. The majority of sand transport occurs landward of this point.

Minimum Healthy Beach Volume – This is a template profile volume that contains sufficient sand to meet the goals of a community’s management effort and is based on an existing healthy beach condition (if it exists) at a site. The minimum healthy beach volume should contain sufficient quantity to be able to support a protective dune and a dry-sand beach width that is resilient to modest storms and spring tide events. It is the standard by which a beach’s condition can be measured against in long-term planning efforts. It is site specific, determined by the physical parameters shaping the beach profile and the community’s goals.

Deficit Volume – The measure of the quantity of sand required to bring an eroded beach condition up to the Minimum Healthy Beach Volume.

Advance Fill – The amount of sand needed during nourishment to overcome expected losses over the design life of the project. It is determined by multiplying the expected erosion rate by the planned life cycle of a project.

The amount of fill for a project, or the planned volume, is summarized in the equations below and is based on existing beach conditions.

$$\text{Planned Volume} = (\text{Deficit Volume}) + (\text{Advance Fill}) + (\text{Contingency})$$

If the existing beach profile is healthier than minimum beach profile the equation just Advance Fill:

$$\text{Planned Volume} = (\text{Average erosion rate} * \text{Nourishment Cycle}) + (\text{Contingency})$$

This framework can also be adjusted to rebuild the beach above the minimum profile or to account for atypical erosion events, such as the significant losses experienced near Breach Inlet between 2021 and 2024. It is also



important to note that some stations within a reach may fall below the minimum healthy beach profile before 8 years due to the dynamic nature of beaches (hotspot erosion or storm events). This is especially evident along the northeast end of the island where localized erosion from shoal bypasses causes significant erosion in some areas whereas there may be significant accretion in others. It is important to adopt triggers that both emphasize the reach health as a whole and establish a minimum threshold for areas that may experience heavy periodic erosion.

The methodology for the upcoming project on the determination of planned fill is detailed below and is based on the factors mentioned above. For this project, the beach is divided into three reaches (note that the construction reach numbers differ from annual monitoring reaches identified in monitoring reports and other correspondence with the City):

- Reach 1: Station 280+00 to 328+00
- Reach 2: Station 222+00 to 280+00
- Reach 3: Station 00+00 to 86+00

Reaches 1 and 2

Reaches 1 and 2 are located near the attachment point of an offshore shoal that connects to the shoreline approximately every 6 to 8 years. While the shoal eventually supplies sand to the beach, the attachment process causes localized erosion due to focused wave energy and sediment being drawn offshore. Over the past few decades, the background losses exceed the natural gains from shoals, making periodic large-scale nourishment necessary.

CSE estimates that long-term average erosion rates in Reaches 1 and 2 after the 2008 project were around 100,000 cubic yards (cy) per year (9.4 cy/ft/yr). Recent rates following the 2018 project have been higher, approximately 200,000 cy per year (18.9 cy/ft/yr), although these values do not account for all of the sand currently contained in the attaching shoal. Note that these values are substantially higher than historic erosion rates reported for the east end. SCSGC (2001) reported historic erosion rates of 20,000-30,000 cy per year. The Beach Ad-hoc committee adopted an assumed erosion rate of ~150,000 cy per year, which considers the long-term average losses, current configuration of the shoal attachment, and recent erosion rates. This rate should be continuously evaluated as more data is available and trends in weather and sea level change historic rates.

Using an 8-year nourishment cycle, the advance fill requirements are:

- 2008-2018 rate: 800,000 cy (75 cy/ft)
- 2018-2026 rate: 1,600,000 cy (150 cy/ft)
- Adopted planning rate: 1,200,000 (112 cy/ft)

These values represent a range of likely erosion rates that the beach may experience over the next 8 years. Sand is still approaching the beach via shoal attachment, which will likely improve erosion rates over the next 1-2 years. It is possible that losses to downcoast areas exceed the volume of sand coming to the beach, and a net deficit will remain. There are presently two areas along Wild Dunes that show a volume deficit relative to the minimum healthy beach volume. These include the area from stations 252-262 (east Grand Pavilion to Beachwood East), and stations 308-314 (Seascape and Ocean Club). Collectively, these stations hold a deficit of



~180,000 cy. CSE expects this to be reduced by half or more over the next 6 months as sand continues to spread. The beach between these two areas currently holds ~922,000 cy excess sand above the minimum healthy beach volume.

As of February 2026, the project formulation at the east end would include a deficit volume of 180,000 cy and advance fill of 1.2 million cy. The bid plans are subject to available funds, and include a “Base Bid” quantity that is set at an amount that ensures that the scope of the project is viable and bids will fall below the available budget. This avoids the need to rebid the project and/or delay the process. The bid also includes “Alternate” quantities that allow for award of additional sand should bid prices be returned that allow for additional placement, up to the available budget or permitted quantity. The Base Bid for the project at the east end is 1.2 million cy, with alternate quantities of up to 500,000 cy. The Base + Alt quantity would equal the maximum volume under project permits.

Reach 3

The methodology for Reach 3 is similar, but its erosion history differs. Reach 3, at the southern end of the island, was historically accretional. However, the reach has lost sand since 2009 and from 2021 to 2024 it experienced substantial erosion and shoreline retreat. Over the past year, survey data show renewed accretion due to beneficial use projects and natural recovery.

The long-term average erosion rate for Reach 3 from September 2010 to September 2024 is approximately 33,000 cy per year (3.8 cy/ft/yr). This rate includes the highly erosional period but does not include the benefits of the USACE sand placements. If all survey events are considered (2010 to 2026), the rate decreased to about 14,500 cy per year (1.7 cy/ft/yr); however, this number may be artificially low due to the recent USACE projects. Over an 8-year interval, the measured rate of 33,000 cy per year results in an advance fill requirement of:

- Advance Fill Requirement: 264,000 cy (30.1 cy/ft)
- Adopted Rate Requirement: 400,000 cy (46.5 cy/ft)

As of February 2026, nearly all stations within the Project Reach 3 area maintain at or above the minimum healthy beach volume established by the Beach Ad-Hoc Committee. The Committee also set the assumed loss rate at 50,000 cy/yr as a conservative approach. It is important to note that the beach is currently adjusting to the USACE placement efforts, and a large excess quantity of sand is currently along the low-tide portion of the beach. While some of this sand will move up the profile and increase the dry beach width, there are areas where the beach width remains low despite overall sand quantities exceeding the minimum threshold. Specifically, areas south of 2nd Avenue and near 6th Ave. If the localized areas below the minimum volume are summed, the total volume deficit is ~16,000 cy.

The proposed project formulation would include a deficit volume of ~16,000 cy, placed in the areas currently below the threshold, and advance fill of 264,000 cy for a total of 280,000 cy. The Base Bid was set at 400,000 cy to allow for contingency and in recognition of some areas having narrower dry-sand levels that the beach volume would normally produce. CSE expects beach widths to improve due to profile adjustment, and via additional sand placement activities by the USACE between the surveys and completion of their project (likely less than 100,000 cy). The Bid allows for additional alternate quantity of up to 400,000 cy more sand. This



would greatly exceed the design formulation. Addition of the Base Quantity would provide a beach volume exceeding any measured condition since 2009.

With the erosion rates of Project Reach 3, CSE is confident the base bid of 400,000 cy meets the criteria of an 8-year project. Additional material can be placed, up to 800,000 cy, in Reach 3 if desired and there are additional funds available for nourishment.

Conclusion

Below are tables to help clarify the current volume above the minimum healthy beach profile as of February 2026 along with the advance fill. There exist some stations that have a volume deficit below the minimum healthy profile. During the project, these areas showing a deficit will receive sufficient sand to restore the beach to the minimum healthy beach condition and advance fill based on localized erosion rates. Also included are figures depicting CSE's minimum healthy beach profile across the monitoring area and the island's beach volume history.

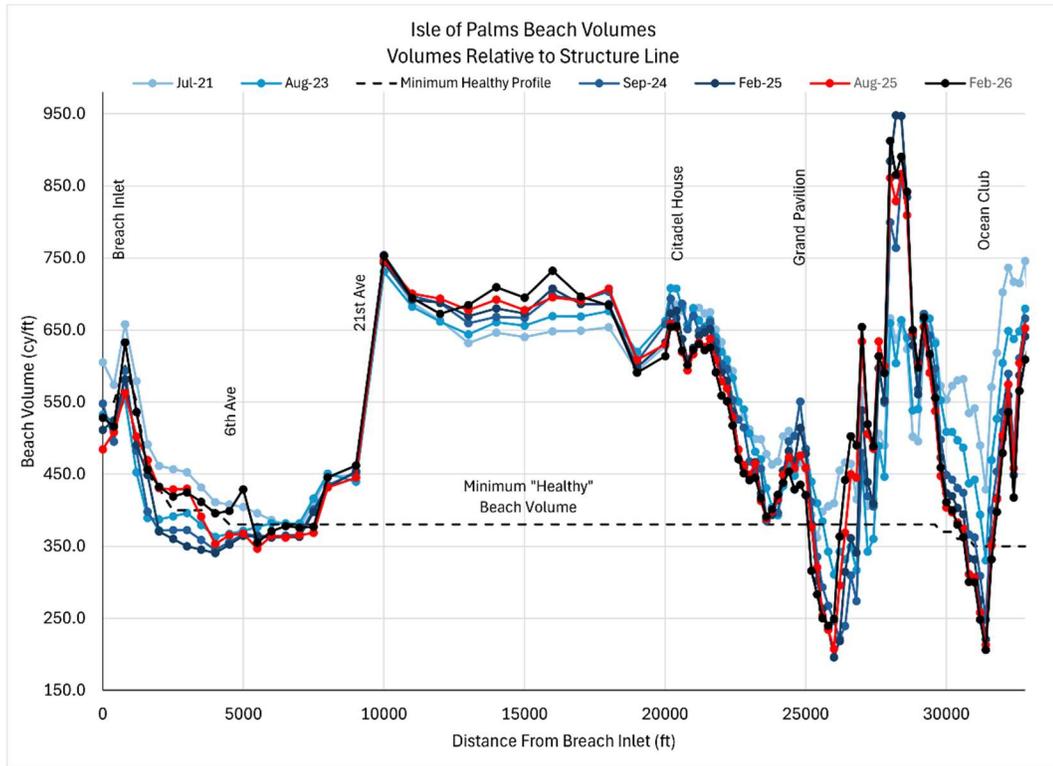


Figure 1: CSE's Minimum Healthy Beach Profile

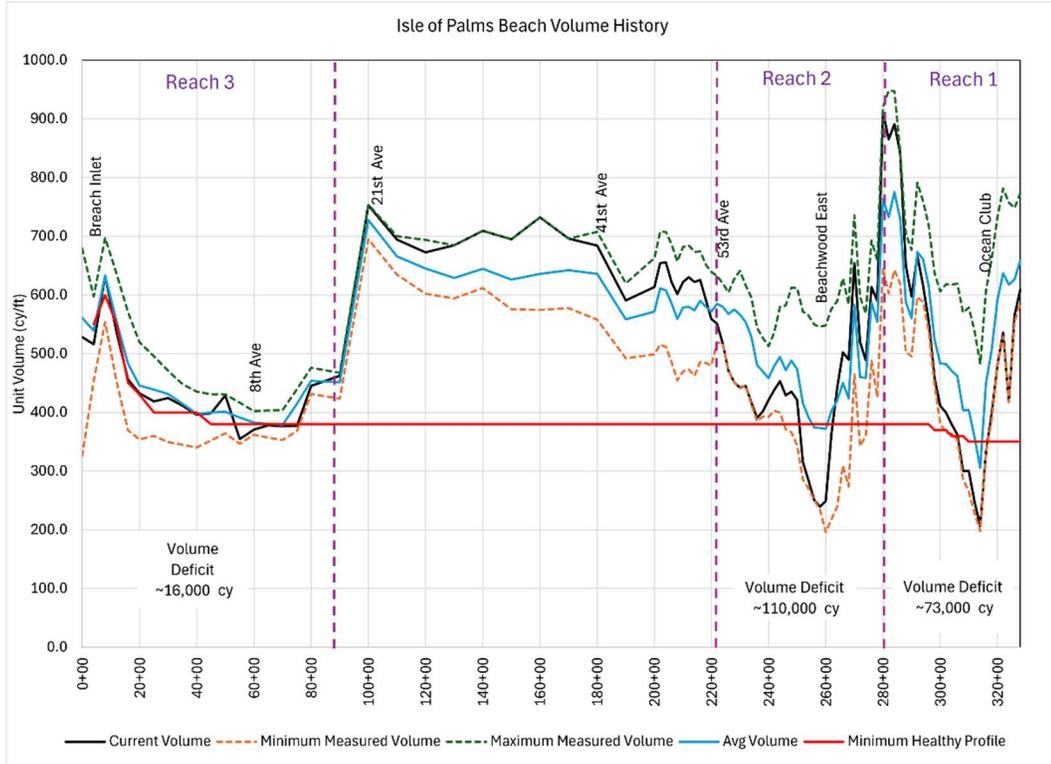


Figure 2: Isle of Palms Beach Volume History

Table 1: Advance Fills Based on Erosion Rates

| | Linear Feet | Advance Fill (Adopted Rate) | Advance Fill (Maximum Measured Rate) |
|----------------|--------------------|------------------------------------|---|
| Reach 1 | 4800 | 544,000 cy (113 cy/ft) | 725,000 cy (151 cy/ft) |
| Reach 2 | 5800 | 656,000 cy (113 cy/ft) | 875,000 cy (151 cy/ft) |
| Reach 3 | 8600 | 400,000 cy (46.5 cy/ft) | 264,000 cy (30.7 cy/ft) |

Table 2: Current Volume Deficit relative to the minimum healthy beach profile. Note that this value only includes areas with a reach that show a deficit volume to not allow areas with excess sand to skew the quantity.

| | Linear Feet with Deficit | Current Deficit Volume Relative to Minimum Healthy Beach Profile |
|----------------|---------------------------------|---|
| Reach 1 | 1,000 | 73,000 cy (75 cy/ft average) |
| Reach 2 | 1,000 | 110,000 cy (96 cy/ft average) |
| Reach 3 | ~1,000 | 16,000 cy (8.8 cy/ft average) |

MEMORANDUM

DATE: March 4, 2026

TO: Douglas Kerr, Administrator
City of Isle of Palms

FROM: Steven Traynum, MS CEC, Project Manager

RE: Interim Monitoring Report From August 2025 to February 2026

This interim report is provided to the City of Isle of Palms as part of semi-annual beach monitoring efforts. It focuses on changes in beach condition between August 2025 and February 2026 and briefly discusses volume changes relative to the 2018 post-project condition. This interim report is intended to provide a short-term beach condition update, and a full report will be completed following the planned survey in summer 2026. The February 2026 survey reoccupied the same beach profile locations as prior surveys and included data collection over the deltas of Dewees and Breach Inlets.

Figure 1 shows the survey baseline and boundaries for reaches defined in earlier reports. Note that the monitoring reaches differ from the reaches identified in construction documents for the upcoming beach nourishment project. CSE recently subdivided Reaches 5 and 6 to provide more localized information on beach condition along the dynamic northeastern end of the island.



Figure 1. Isle of Palm Survey Baseline and Reaches

The two main factors controlling beach volume change from August 2025 to February 2026 were: (1) the addition of sand from USACE beneficial use projects, and (2) onshore migration and spreading of shoal sand along the Wild Dunes area. Both events have led to net volume gains along the beach, despite the presence of erosional areas. Overall, the island gained 187,624 cubic yards (cy) of sand between August 2025 and February 2026.

Volume gains were highest along the south end, largely due to the USACE projects. Reaches 1 and 2 (area south of the pier), gained 164,800 cy over the past six months, which is in addition to a gain of 127,500 cy from February to August 2025. While the majority of accretion was along the USACE placement areas, natural accretion from upcoast was also present, as a sand wave migrating through and south of the pier was observed. Overall, the beach condition south of the pier is significantly healthier in February 2026 than in recent years, and currently holds a similar volume as the August 2022 condition.

It is easily apparent that a large portion of the material that has been placed by the USACE was not retained in the active beach profile along IOP. The combined projects were estimated to add over 700,000 cy of material to the beach, and CSE is only able to account for less than 300,000 cy as of early February 2026. The remainder of the material either dispersed immediately through suspended sediment transport, or shifted into Breach Inlet along the lower beachface prior to moving higher in the profile and building a wider beach. The losses represent the fraction of the dredged material that was too fine for beach nourishment purposes. The remaining fraction would likely consist of coarser grains that are suitable for the beach and have become part of the new profile along the south end. Generally speaking, there is at least a 100 ft dry-sand beach spanning 2nd Ave to the Pier, with the exception of a small area near 7th Ave. This is a significant improvement compared to 2024, when little or no dry-sand beach existed seaward of a dune escarpment along the south end. CSE expected to see continued adjustment of the beach profile in Reaches 1 and 2 as the beach equilibrates from the USACE work that finished in late February. There are obvious bulges of sand in the low-tide area where the pump-outs were, which will feed the upper beach and adjacent areas over time.

The central portion of the island showed minor net volume change from August 2025 to February 2026; however, migrating waves of accretion and erosion are moving through the area that spans a few thousand feet, resulting in individual station volume changes varying alongshore. CSE has been able to track “packages” of sand that move alongshore (generally south) from the northeast end of the island. In fact, the sand wave currently moving through the pier appears to have originated from the 2018 nourishment project at the northeast end of the island. Overall, Reach 3 gained 21,700 cy while Reach 4 lost ~9,400 cy. Over the length of the reaches, these are relatively minor net changes, at +3.6 and -1.3 cy/ft, respectively.

Reaches 5 and 6 are the most dynamic, highly developed shoreline in South Carolina. The current shoal attachment event is actively bringing sand to the center portions of Wild Dunes, while the ends of Wild

Dunes are still in the erosional phase of the shoal-bypass cycle. Individual stations immediately adjacent to the attachment site are gaining substantial amounts of sand, up to 73 cy/ft (cubic yards per foot) in six months. Accretion is occurring along Beachwood East and Dunecrest Ln, and Mariner's Walk to Summer Dunes Ln. At Dunecrest Ln, the dry-sand beach grew by ~150 ft over six months.

The area fronting the Grand Pavilion lost sand, as the erosional trend that affected Beachwood East is now shifting to the west. CSE expects this trend to reverse quickly as the accretional wave moves south. Near Seascape and Ocean Club, erosion has slowed over the past six months, and is now the lowest loss rate observed since 2018. CSE anticipates accretion of this area beginning in the next few months. Overall, Reaches 5 and 6 show a net loss of 15,000 cy over the past six months. Accretion along the shoal attachment site has been offset by erosion along southern Wild Dunes and along the 18th hole of the Links Course.

It is important to note that the volume measures described in the preceding paragraphs do not include additional shoal sand that is present offshore and currently moving closer to the beach. A secondary shoal has emerged behind the currently attaching shoal. This emergent sand migrated ~500 ft in six months, and is currently ~800 ft from the low-tide shoreline. This sand will continue to move onshore and supply central Wild Dunes with sand over the next 1–2 years. The two shoals are part of the sand platform that CSE estimated would add 600,000–800,000 cy of sand to the beach over several years beginning in late 2024.

Data tables and volume change figures are provided below, with significant findings described in the captions. A full reach-by-reach analysis of beach volume change will be included in the Summer 2026 beach condition assessment.

SUMMARY

- Area south of the pier gained ~165,000 cy between August 2025 and February 2026, and has gained nearly 300,000 cy over the past year due to the USACE projects and natural accretion from the north. Most stations exceed the minimum healthy beach volume, though the dry sand beach width remains narrow south of 2nd Ave.
- The center of the island was fairly stable and remains in a healthy condition.
- The northeast end shows areas of rapid erosion and accretion associated with the shoal attachment. Prior hotspots (Beachwood and Ocean Club) are improving or showing reduced erosion, while erosion has increased along the Grand Pavilion Area.
- Volume deficits relative to the minimum healthy beach volume exist east of the Grand Pavilion to Beachwood, and fronting Port O Call, Seascape, and Ocean Club. The deficit in these areas totals ~180,000 cy.



Table 1. Beach volume change between surveys from 2018 to 2026 for Reaches 1–4. Note that moving from top to bottom in the table represents movement from south to north on the beach, and movement from left to right shows change over time. The arrows show an accretional (blue) and erosional (red) wave moving south over time from the east end of the island. The wave was a result of the downcoast spreading of the 2018 nourishment sand that is now evident south of the pier along Front Beach (stations 70–80 around 9th–10th Ave). Circled areas show the locations and impacts of USACE beneficial use projects. Note that distances between stations vary, so more data rows are present where beach profiles are spaced closer together.

| | Station | Distance to Next | Apr 18 - Jun 19 | Jun 19 - Jun 20 | Jun 20 - Jul 21 | Jul 21 - Aug 22 | Aug 22 - Aug 23 | Aug 23 - Sep 24 | Sep 24 - Feb 25 | Feb 25 - Aug 25 | Aug 25 - Feb 26 | Sep 09 - Feb 26 | May 17 - Feb 26 |
|---------|---------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Reach 1 | 0 | 400 | 113.0 | -111.9 | 38.4 | 29.8 | -102.9 | 15.3 | -36.3 | -26.8 | 43.8 | 42.8 | -85.2 |
| | 4 | 400 | -31.5 | 9.9 | 36.5 | -22.0 | -29.1 | -27.7 | 29.6 | -16.6 | 7.9 | -47.3 | -27.7 |
| | 8 | 400 | 3.8 | -3.0 | 16.1 | -37.9 | -66.0 | 39.6 | -12.6 | -18.5 | 70.1 | -64.5 | 7.5 |
| | 12 | 400 | 18.2 | 27.2 | -10.0 | -32.6 | -93.8 | 29.8 | 7.8 | 11.6 | 34.3 | -99.7 | -16.6 |
| | 16 | 400 | 15.5 | 31.2 | -32.5 | -45.8 | -56.5 | 8.8 | 51.2 | 20.5 | 13.2 | -114.2 | -23.8 |
| | 20 | 500 | -1.0 | 34.0 | -17.9 | -38.5 | -36.1 | -15.1 | -1.7 | 60.2 | 2.2 | -83.9 | 2.3 |
| | 25 | 500 | -1.6 | 29.8 | -11.3 | -29.2 | -36.3 | -19.3 | -12.2 | 68.7 | -9.8 | -62.9 | -5.7 |
| | 30 | 500 | -2.3 | 25.6 | -4.7 | -20.0 | -36.6 | -23.5 | -22.8 | 79.9 | 5.8 | -22.5 | 5.7 |
| | 35 | 500 | -4.5 | 18.2 | -1.3 | -18.7 | -33.6 | -20.9 | -13.7 | 46.1 | 20.5 | -19.3 | 4.6 |
| 40 | 500 | -6.7 | 10.8 | 2.1 | -17.4 | -30.6 | -18.3 | -4.6 | 12.6 | 42.8 | -18.8 | 0.9 | |
| Reach 2 | 45 | 500 | -4.3 | 5.2 | 0.3 | -15.7 | -25.0 | -11.4 | -3.6 | 12.9 | 33.8 | -15.5 | -2.6 |
| | 50 | 500 | -2.0 | -0.5 | -1.5 | -14.0 | -19.4 | -4.5 | -2.7 | 3.3 | 61.4 | 14.7 | 20.7 |
| | 55 | 500 | -0.6 | 2.1 | -1.3 | -6.6 | -12.2 | -11.4 | -2.1 | -16.4 | 8.1 | -41.4 | -44.6 |
| | 60 | 500 | 0.8 | 4.6 | -1.2 | 0.7 | -5.1 | -18.4 | -1.5 | 2.6 | 6.0 | -7.4 | -19.9 |
| | 65 | 500 | -4.2 | 1.7 | -2.1 | 4.2 | -2.8 | -16.8 | -2.3 | -0.7 | 15.9 | 0.1 | -10.2 |
| | 70 | 500 | -9.2 | -1.3 | -2.9 | 7.6 | -0.5 | -15.2 | -3.1 | 2.3 | 10.7 | -1.2 | -9.3 |
| | 75 | 500 | -7.7 | -3.3 | -6.5 | 4.1 | 1.4 | -15.4 | -3.3 | -28.8 | 8.4 | -31.5 | -44.9 |
| 80 | 1000 | -6.2 | -5.3 | -10.1 | 0.5 | 3.2 | -15.6 | -3.5 | 0.2 | 13.8 | 5.8 | -12.7 | |
| Reach 3 | 90 | 1000 | 0.2 | 1.3 | -16.2 | -3.2 | -5.7 | 12.2 | 2.1 | -8.8 | 17.1 | 38.6 | 2.0 |
| | 100 | 1000 | 2.4 | 10.5 | 1.4 | -16.3 | 3.6 | 23.5 | -10.8 | 3.0 | 6.6 | 58.1 | 19.8 |
| | 110 | 1000 | -1.2 | 11.9 | 11.8 | -10.7 | 5.7 | 14.6 | -4.9 | 8.2 | -5.6 | 59.8 | 24.8 |
| | 120 | 1000 | 4.2 | 11.6 | 3.1 | 1.8 | -3.3 | 25.5 | 0.4 | 5.9 | -21.1 | 70.4 | 30.8 |
| | 130 | 1000 | 6.3 | -1.0 | -7.1 | 20.5 | -8.3 | 15.0 | 10.2 | 8.1 | 7.2 | 90.5 | 55.6 |
| | 140 | 1000 | 9.2 | 0.7 | -8.7 | 27.1 | -12.6 | 7.4 | 11.7 | 11.7 | 17.3 | 97.0 | 65.2 |
| Reach 4 | 150 | 1000 | 9.4 | 0.5 | 1.4 | 11.6 | 4.3 | 10.7 | 6.1 | 4.3 | 17.5 | 119.0 | 69.9 |
| | 160 | 1000 | -23.2 | -0.9 | 2.6 | 2.3 | 18.4 | 28.7 | 9.9 | -12.5 | 37.0 | 157.5 | 94.9 |
| | 170 | 1000 | -25.2 | -3.7 | -2.6 | 19.3 | 0.2 | 22.9 | -5.9 | 4.7 | 5.7 | 117.3 | 41.4 |
| | 180 | 1000 | 5.8 | -5.5 | 12.8 | 30.7 | -8.2 | 27.1 | -17.3 | 21.5 | -23.4 | 126.0 | 31.8 |
| | 190 | 1000 | -3.0 | 26.1 | 22.8 | 17.1 | 9.6 | -12.9 | -8.8 | 10.4 | -17.5 | 98.7 | 39.6 |
| | 200 | 200 | 5.0 | 42.3 | 42.2 | 14.5 | 20.5 | -4.6 | -25.1 | -3.2 | 16.0 | 114.6 | 78.0 |
| | 202 | 200 | 5.9 | 51.2 | 38.1 | 19.9 | 10.7 | -14.4 | -20.8 | -14.0 | -4.4 | 104.4 | 72.9 |
| | 204 | 200 | 9.3 | 63.5 | 37.6 | 12.6 | 10.0 | -40.7 | 9.8 | -22.6 | 1.3 | 99.1 | 86.7 |
| | 206 | 200 | 17.0 | 77.3 | 35.2 | 5.0 | -0.6 | 5.1 | -48.7 | -18.2 | 2.0 | 90.7 | 74.7 |
| | 208 | 200 | 35.5 | 84.1 | 24.8 | -0.1 | 0.7 | -6.3 | -42.2 | -15.0 | 7.8 | 109.6 | 83.6 |
| | 210 | 200 | 42.0 | 73.7 | 26.0 | 3.9 | -1.4 | -10.7 | -44.7 | -8.6 | 5.9 | 112.5 | 87.9 |
| | 212 | 200 | 57.2 | 63.6 | 30.6 | 4.0 | -21.1 | -15.0 | -6.5 | -9.9 | -2.1 | 118.3 | 95.3 |
| | 214 | 200 | 66.4 | 52.3 | 27.3 | 0.2 | -18.4 | -3.7 | -4.6 | -20.4 | -4.2 | 106.7 | 100.1 |
| | 216 | 200 | 56.2 | 47.5 | 16.3 | -1.4 | -9.2 | -3.2 | -9.3 | -13.4 | -12.2 | 92.8 | 79.2 |
| 218 | 200 | 45.6 | 41.2 | 12.1 | 0.9 | -11.4 | -6.9 | -11.3 | -13.7 | -17.3 | 64.8 | 41.2 | |
| 220 | 200 | 44.0 | 21.9 | 18.7 | 6.2 | -19.5 | -17.0 | -11.8 | -12.5 | -19.2 | 34.6 | 15.5 | |

Table 2. Beach volume change between surveys from 2018 to 2026 for Reaches 5–6. Note that moving from top to bottom in the table represents movement from south to north on the beach, and movement from left to right shows change over time. The arrows show an accretional (blue) and erosional (red) wave moving south over time from the shoal attachment area. The recent shoal-induced accretion is shown in the blue circle, with sand spreading north and south indicated by the arrows from the circle. The time period begins just after the 2018 nourishment, which also coincided with the completion of a shoal attachment. This created a surplus of sand in central Wild Dunes that spread laterally for several years after 2018.

| | Station | Distance to Next | Apr 18 - Jun 19 | Jun 19 - Jun 20 | Jun 20 - Jul 21 | Jul 21 - Aug 22 | Aug 22 - Aug 23 | Aug 23 - Sep 24 | Sep 24 - Feb 25 | Feb 25 - Aug 25 | Aug 25 - Feb 26 | Sep 09 - Feb 26 | May 17 - Feb 26 |
|----------|---------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Reach 5a | 222 | 200 | 33.2 | 11.0 | -8.4 | 23.2 | -24.1 | -12.5 | -16.4 | -10.6 | -17.8 | 5.5 | -15.2 |
| | 224 | 200 | 46.3 | 1.0 | -27.2 | 15.0 | -24.8 | -30.3 | -16.0 | -7.9 | -11.5 | -46.6 | -53.0 |
| | 226 | 200 | 40.1 | -1.6 | -47.7 | 20.7 | -20.6 | -24.8 | 41.3 | -0.5 | -13.3 | -117.7 | -91.2 |
| | 228 | 200 | 42.9 | -17.2 | -63.0 | 22.6 | -12.3 | -25.2 | -55.8 | 3.5 | -11.2 | -175.9 | -114.8 |
| | 230 | 200 | 41.4 | -17.6 | -69.4 | 2.3 | -8.0 | -29.1 | -26.2 | 8.3 | -7.1 | -198.7 | -114.5 |
| | 232 | 200 | 42.3 | -44.4 | -43.7 | -8.8 | -9.0 | -26.2 | 11.7 | -1.8 | -19.8 | -170.2 | -87.5 |
| | 234 | 200 | 44.7 | -31.0 | -33.4 | -11.8 | -16.2 | -12.7 | -34.5 | -10.4 | 3.7 | -179.4 | -73.4 |
| | 236 | 200 | 43.1 | -39.0 | -3.2 | -41.0 | -6.2 | -45.5 | 3.3 | -0.5 | 2.9 | -153.0 | -43.5 |
| | 238 | 200 | 30.8 | -34.1 | -22.1 | -32.5 | -26.3 | -11.2 | 0.7 | 4.4 | 3.1 | -125.8 | -15.3 |
| | 240 | 200 | 16.8 | -29.1 | -15.8 | -15.7 | -29.4 | 3.8 | 17.5 | 1.8 | 5.5 | -83.9 | 24.8 |
| Reach 5b | 242 | 200 | -2.6 | -16.9 | -14.1 | -51.0 | -18.2 | 15.3 | 6.0 | -5.4 | -11.0 | -78.7 | 35.7 |
| | 244 | 200 | -18.9 | -31.4 | -19.5 | -47.6 | 0.5 | 32.7 | -13.7 | -8.7 | -19.9 | -77.3 | 53.4 |
| | 246 | 200 | -41.8 | -35.9 | -50.2 | -16.4 | 10.2 | 55.0 | -34.1 | -10.4 | -29.4 | -72.5 | 57.6 |
| | 248 | 200 | -53.7 | -53.4 | -39.7 | -14.2 | 23.5 | 75.8 | -36.2 | -38.6 | -40.4 | -76.2 | 69.1 |
| | 250 | 200 | -72.3 | -41.0 | -41.5 | -12.9 | 41.1 | -0.8 | -6.5 | -19.8 | -37.7 | -78.1 | 77.4 |
| | 252 | 200 | -88.9 | -45.7 | -43.3 | 23.0 | 22.7 | -28.2 | 30.7 | -4.1 | -60.8 | -132.9 | 30.2 |
| 254 | 200 | -101.0 | -52.9 | -48.9 | 58.9 | -11.1 | -74.2 | -33.0 | 18.0 | -37.1 | -158.0 | 13.3 | |
| Reach 5c | 256 | 200 | -119.8 | -49.0 | 17.3 | 21.7 | -35.2 | -91.7 | -29.7 | -9.1 | -3.9 | -183.9 | -1.1 |
| | 258 | 200 | -112.7 | -13.7 | -14.1 | 12.6 | -75.9 | -74.8 | -31.9 | -1.4 | 5.5 | -199.6 | -12.6 |
| | 260 | 200 | -104.4 | 15.4 | -49.7 | -15.4 | -83.7 | -64.3 | -50.6 | 11.5 | 41.9 | -206.2 | -15.7 |
| | 262 | 200 | -58.5 | -32.9 | -30.3 | -54.4 | -58.2 | -120.9 | -3.1 | 77.6 | 67.8 | -129.8 | 60.3 |
| | 264 | 200 | -64.0 | -32.9 | -26.7 | -68.1 | -66.3 | -92.2 | 75.3 | 53.8 | 73.3 | -79.0 | 119.8 |
| | 266 | 200 | -81.2 | -41.6 | -41.5 | -68.8 | -46.8 | -39.4 | 51.7 | 83.7 | 52.8 | -48.0 | 145.4 |
| | 268 | 200 | -44.8 | -50.3 | -51.4 | -47.2 | -51.4 | -42.7 | 67.0 | 104.0 | 45.1 | -21.1 | 117.7 |
| | 270 | 200 | -32.7 | -56.2 | -44.1 | -54.9 | -47.0 | 14.1 | 59.5 | 95.6 | 20.1 | -1.0 | 86.4 |
| | 272 | 200 | -27.5 | -66.2 | -63.4 | -33.3 | -30.2 | 77.1 | 19.5 | 66.8 | 13.6 | -8.7 | 102.6 |
| | 274 | 200 | -13.1 | -66.6 | -56.1 | -30.0 | -24.8 | 44.5 | 4.2 | 76.2 | 3.2 | -20.7 | 57.4 |
| 276 | 200 | -27.1 | -66.2 | -49.2 | -17.3 | 0.0 | 107.7 | 1.0 | 36.9 | -20.6 | -19.1 | 65.2 | |
| 278 | 200 | -33.3 | -74.1 | -30.9 | -63.5 | 20.0 | 103.1 | 3.0 | 47.6 | -9.6 | -3.0 | 55.0 | |
| Reach 6a | 280 | 200 | -110.6 | -42.3 | -34.3 | -20.8 | 13.9 | 140.2 | 84.8 | -23.6 | 51.4 | -7.6 | 191.7 |
| | 282 | 200 | -135.0 | -24.8 | -26.0 | -34.1 | 1.4 | 159.9 | 184.3 | -119.1 | 36.1 | -51.4 | 181.5 |
| | 284 | 200 | -142.9 | -19.4 | -39.9 | -15.1 | 21.3 | 198.4 | 85.1 | -80.3 | 24.0 | -44.4 | 173.7 |
| | 286 | 200 | -141.5 | -37.7 | -15.8 | -3.9 | 19.9 | 202.8 | -7.3 | -25.5 | 32.9 | 10.9 | 146.5 |
| | 288 | 200 | -119.5 | -49.8 | -32.9 | 6.1 | 30.2 | 101.7 | -12.3 | 16.5 | 4.4 | 41.8 | 104.9 |
| | 290 | 200 | -102.8 | -40.7 | -37.7 | 15.8 | 29.0 | 27.8 | -6.9 | 41.4 | -4.7 | 53.3 | 72.3 |
| Reach 6b | 292 | 200 | -82.1 | -32.1 | -34.7 | 2.8 | 26.7 | 9.0 | -37.3 | 19.1 | 13.2 | 34.6 | 22.6 |
| | 294 | 200 | -48.3 | -31.1 | -28.5 | 7.1 | 6.1 | -23.6 | -25.4 | -25.7 | 25.5 | 7.3 | -34.7 |
| | 296 | 200 | -21.6 | -36.3 | -26.5 | 13.4 | -16.3 | -34.8 | -26.6 | -32.5 | 18.4 | -5.4 | -45.7 |
| | 298 | 200 | -5.5 | -42.1 | -18.2 | 11.1 | -31.2 | -54.2 | -24.8 | -25.7 | 11.8 | -16.4 | -56.6 |
| | 300 | 200 | -1.9 | -41.5 | -9.1 | -1.9 | -42.7 | -60.1 | -25.0 | -19.9 | 7.4 | -27.6 | -63.0 |
| | 302 | 200 | 3.8 | -32.9 | -12.9 | -12.0 | -51.7 | -66.4 | -23.2 | -22.0 | 2.7 | -34.1 | -70.6 |
| | 304 | 200 | 1.3 | -29.2 | -8.4 | -31.4 | -51.7 | -66.1 | -27.8 | -19.9 | -3.6 | -47.3 | -70.0 |
| | 306 | 200 | -5.6 | -24.6 | -6.9 | -42.1 | -53.2 | -62.6 | -29.7 | -19.9 | -12.2 | -48.0 | -70.8 |
| 308 | 200 | -12.5 | -19.6 | -3.3 | -36.4 | -61.0 | -71.1 | -32.8 | -21.9 | -11.1 | -70.1 | -70.9 | |
| Reach 6c | 310 | 200 | -7.7 | -17.3 | -12.6 | -42.2 | -56.6 | -80.1 | -30.4 | -25.4 | -6.3 | -58.1 | -69.8 |
| | 312 | 200 | -15.1 | -15.3 | -18.4 | -40.0 | -56.4 | -85.1 | -33.5 | -17.1 | -9.9 | -78.6 | -76.4 |
| | 314 | 200 | -19.6 | -17.7 | -16.1 | -50.2 | -48.6 | -82.1 | -27.6 | -7.2 | -7.2 | -59.0 | -74.1 |
| | 316 | 200 | -5.8 | -5.7 | -25.1 | -37.3 | -64.0 | -69.5 | -41.5 | -7.2 | -19.8 | -90.6 | -96.4 |
| | 318 | 200 | 19.1 | -12.1 | -31.1 | -40.7 | -51.1 | -73.1 | -36.5 | -1.8 | -17.9 | -84.2 | -108.8 |
| | 320 | 200 | 24.3 | -9.3 | -21.1 | -38.9 | -59.1 | -67.7 | -37.1 | 4.5 | -24.6 | -90.5 | -118.3 |
| | 322 | 200 | 54.0 | -16.1 | -29.0 | -35.5 | -52.5 | -59.3 | -30.1 | 15.5 | -38.6 | -83.4 | -112.5 |
| | 324 | 200 | 61.9 | -10.9 | -29.5 | -25.3 | -54.4 | -56.0 | -34.6 | 9.5 | -41.0 | -213.8 | -221.0 |
| | 326 | 200 | 83.1 | -11.6 | -22.0 | -22.8 | -44.1 | -37.3 | -23.8 | 17.6 | -39.0 | -48.9 | -64.2 |
| | 328 | 200 | 80.3 | -17.0 | -10.9 | -29.8 | -36.4 | -13.6 | -24.4 | 11.1 | -43.7 | -34.8 | -47.8 |



Table 3. Volume change for each monitoring reach since 2018. The April 2018 survey represents the post-2018 project survey.

| Profile Volume Change Since Last Survey (cy) | | | | | | | | | | | |
|--|-------------|-----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|
| | Length (ft) | Apr-18 | Jun-19 | Jun-20 | Jul-21 | Aug-22 | Aug-23 | Sep-24 | Feb-25 | Aug-25 | Feb-26 |
| Reach 1 | 5,000 | 32,961 | 15,975 | 62,605 | -3,822 | -113,231 | -209,793 | -27,304 | -5,125 | 127,455 | 82,141 |
| Reach 2 | 4,000 | 7,065 | -17,095 | -362 | -23,353 | -7,217 | -25,994 | -49,264 | -9,961 | -19,788 | 82,631 |
| Reach 3 | 6,000 | 3,428 | 25,593 | 34,573 | -6,909 | 26,568 | -15,674 | 97,482 | 10,684 | 34,670 | 21,716 |
| Reach 4 | 7,200 | 50,092 | 41,205 | 157,949 | 114,202 | 96,595 | 20,029 | 44,679 | -73,828 | -6,195 | -9,396 |
| Reach 5a | 2,000 | 65,240 | 72,718 | -43,167 | -67,369 | -18,606 | -34,784 | -41,955 | -29,160 | -2,205 | -12,382 |
| Reach 5b | 1,400 | 340,444 | -87,553 | -58,643 | -48,322 | -4,770 | 12,044 | 4,422 | -33,194 | -14,179 | -46,582 |
| Reach 5c | 2,400 | 477,200 | -142,901 | -106,174 | -93,177 | -87,979 | -95,024 | -12,714 | 44,609 | 128,193 | 63,339 |
| Reach 6a | 1,200 | 170,019 | -147,630 | -41,927 | -37,365 | -8,043 | 24,388 | 153,038 | 53,527 | -33,823 | 25,015 |
| Reach 6b | 1,800 | 269,938 | -27,029 | -56,397 | -27,526 | -22,396 | -63,344 | -94,877 | -49,837 | -38,189 | 8,450 |
| Reach 6c | 2,000 | 229,907 | 58,493 | -22,496 | -38,816 | -65,527 | -96,809 | -148,145 | -48,525 | 3,458 | -53,699 |
| Reach 7 | 4,000 | -29,257 | 18,340 | 14,624 | 15,563 | 11,059 | 46,652 | -118,563 | -1,166 | 29,193 | 26,391 |
| Reaches 1-7 | 37,000 | 1,617,037 | -189,884 | -59,415 | -216,893 | -193,547 | -438,309 | -193,200 | -141,977 | 208,589 | 187,624 |
| Unit Volume Change Since Last Survey (cy/ft) | | | | | | | | | | | |
| | Length (ft) | Apr-18 | Jun-19 | Jun-20 | Jul-21 | Aug-22 | Aug-23 | Sep-24 | Feb-25 | Aug-25 | Feb-26 |
| Reach 1 | 5,000 | 7.3 | 3.5 | 13.9 | -0.8 | -25.2 | -46.6 | -6.1 | -1.1 | 28.3 | 18.3 |
| Reach 2 | 4,000 | 1.6 | -3.8 | -0.1 | -5.2 | -1.6 | -5.8 | -10.9 | -2.2 | -4.4 | 18.4 |
| Reach 3 | 6,000 | 0.6 | 4.3 | 5.8 | -1.2 | 4.4 | -2.6 | 16.2 | 1.8 | 5.8 | 3.6 |
| Reach 4 | 7,200 | 7.0 | 5.7 | 21.9 | 15.9 | 13.4 | 2.8 | 6.2 | -10.3 | -0.9 | -1.3 |
| Reach 5a | 2,000 | 32.6 | 36.4 | -21.6 | -33.7 | -9.3 | -17.4 | -21.0 | -14.6 | -1.1 | -6.2 |
| Reach 5b | 1,400 | 243.2 | -62.5 | -41.9 | -34.5 | -3.4 | 8.6 | 3.2 | -23.7 | -10.1 | -33.3 |
| Reach 5c | 2,400 | 198.8 | -59.5 | -44.2 | -38.8 | -36.7 | -39.6 | -5.3 | 18.6 | 53.4 | 26.4 |
| Reach 6a | 1,200 | 141.7 | -123.0 | -34.9 | -31.1 | -6.7 | 20.3 | 127.5 | 44.6 | -28.2 | 20.8 |
| Reach 6b | 1,800 | 150.0 | -15.0 | -31.3 | -15.3 | -12.4 | -35.2 | -52.7 | -27.7 | -21.2 | 4.7 |
| Reach 6c | 2,000 | 115.0 | 29.2 | -11.2 | -19.4 | -32.8 | -48.4 | -74.1 | -24.3 | 1.7 | -26.8 |
| Reach 7 | 4,000 | -7.3 | 4.6 | 3.7 | 3.9 | 2.8 | 11.7 | -29.6 | -0.3 | 7.3 | 6.6 |
| Reaches 1-7 | 37,100 | 43.7 | -5.1 | -1.6 | -5.9 | -5.2 | -11.8 | -5.2 | -3.8 | 5.6 | 5.1 |

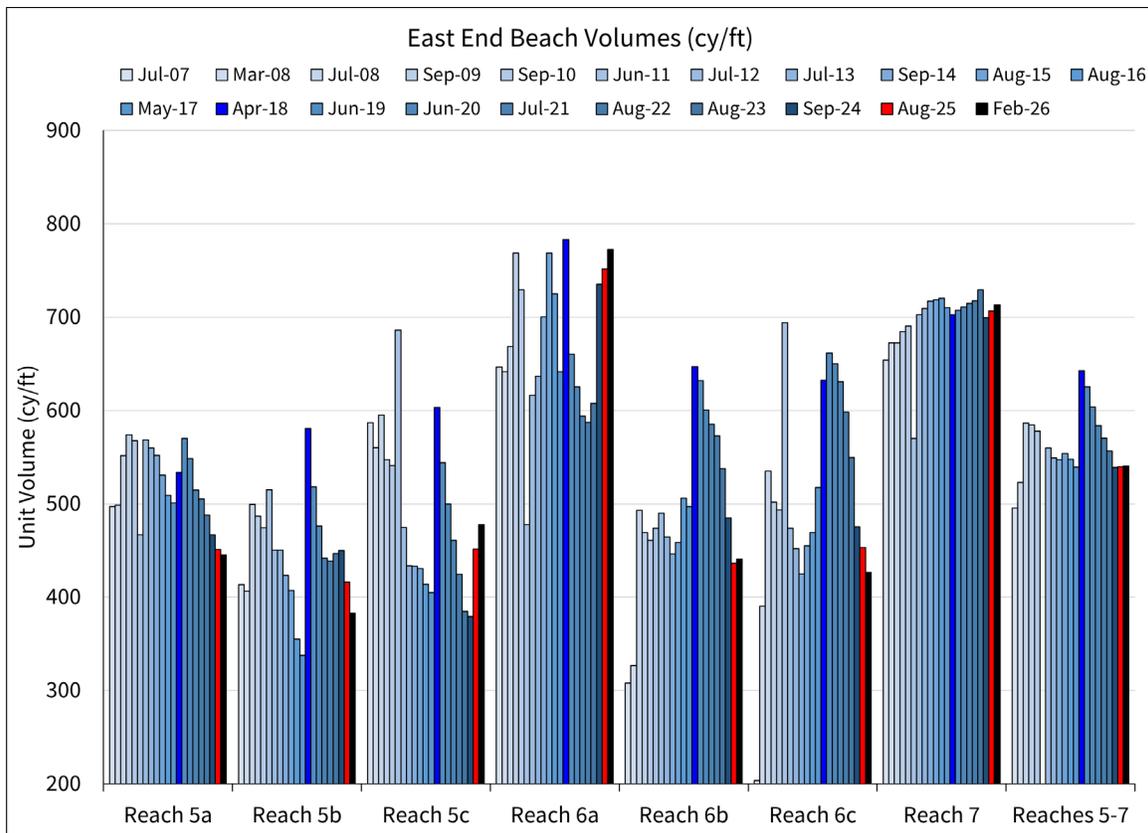
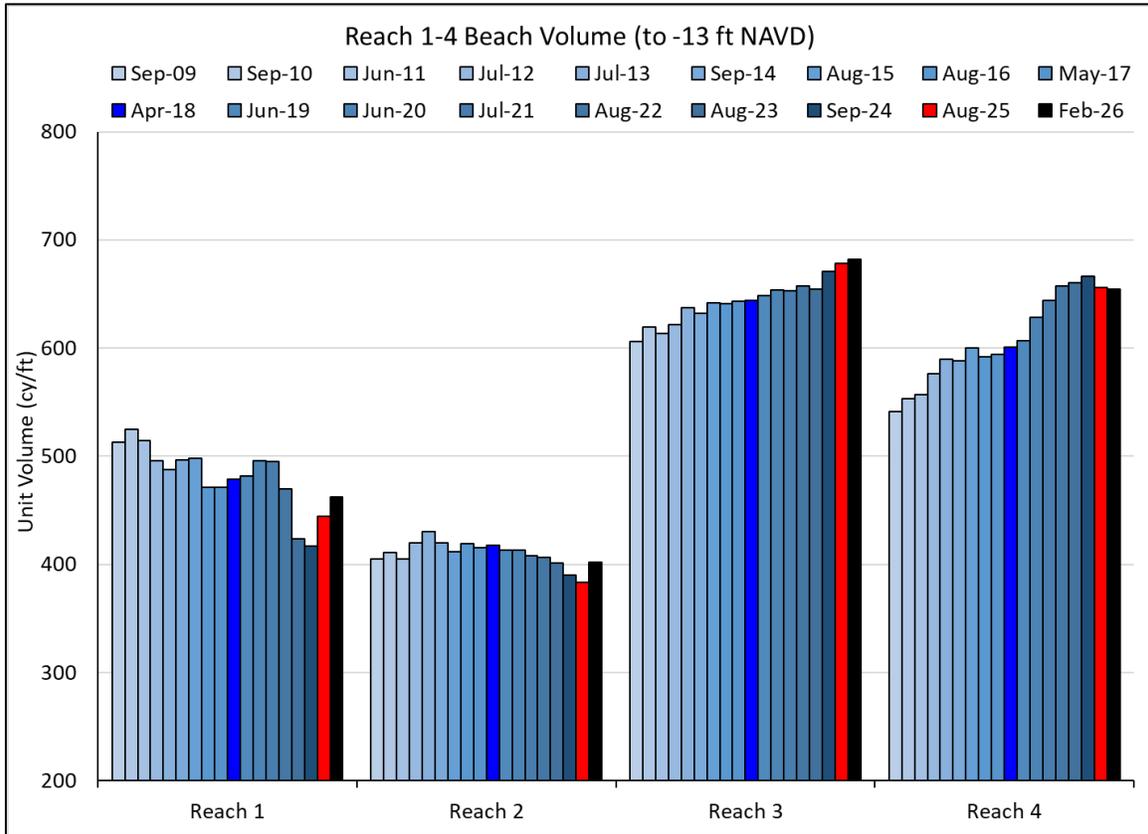


Figure 2. Graphs showing beach volumes for each reach since monitoring began in 2007–2009.



Figure 3. Aerial image of the south end of IOP on 5 February 2026 showing a large intertidal ridge migrating higher on the beachface. While the dry-sand beach remains narrow in this area, the intertidal beach gained 35–75 cy/ft between August 2025 and February 2026.



Figure 4. Photo from 6th Ave looking south on 5 February 2026. Note the wrack line showing the dry-sand beach 80–100 ft wider than the vegetation line. The vegetation line marks the approximate location of the escarpment formed in 2024.



Figure 5. Photo from the Wild Dunes Grand Pavilion area. This area was the most eroded part of the beach from Aug 2025 to Feb 2026.



Figure 6. January 5, 2026 photo of the shoal attachment zone along Wild Dunes. The leading shoal has attached and is spreading sand laterally along the beach. Further offshore, a secondary shoal moved ~500 ft closer to the beach over the last 6 months. This event (containing multiple emergent shoals) is expected to add 600,000–800,000 cy to the beach. CSE estimates that around half of this total is currently included in the volume changes reported herein.

Isle of Palms Beach Nourishment

Bid Tabulation

March 18, 2026 - 2pm

| | Bid Item Description | Bidder 1 | Bidder 2 | Bidder 3 | Bidder 4 | Bidder 5 |
|------------------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------------|
| Bidder Name | | Weeks Marine Inc | Callan Marine LTD | Marinex Construction | Norfolk Dredging | Great Lakes Dredge and Dock Co |
| Bid Item A1 | Mobilization - Base Bid | \$ 9,750,000.00 | \$ 11,245,000.00 | \$ 1,900,000.00 | \$ 3,380,000.00 | \$ 7,100,000.00 |
| Bid Item A2 | Base Bid - 1.6 Million cy | \$ 20,400,000.00 | \$ 21,370,000.00 | \$ 12,800,000.00 | \$ 15,640,000.00 | \$ 13,600,000.00 |
| Bid Item A3 | Total A1+A2 | \$ 30,150,000.00 | \$ 32,615,000.00 | \$ 14,700,000.00 | \$ 19,020,000.00 | \$ 20,700,000.00 |
| Bid Item B1 | Deduct Reach 3 | \$ 5,000,000.00 | \$ 4,500,000.00 | \$ 2,400,000.00 | \$ 4,360,000.00 | \$ 3,200,000.00 |
| Bid Item C1 | Alt Unit Price Reach 1 | \$ 12.25 | \$ 11.25 | \$ 7.52 | \$ 8.85 | \$ 5.75 |
| Bid Item C2 | Alt Unit Price Reach 2 | \$ 12.25 | \$ 11.25 | \$ 7.52 | \$ 8.85 | \$ 5.75 |
| Bid Item C3 | Alt Unit Price Reach 3 | \$ 12.25 | \$ 11.25 | \$ 7.52 | \$ 7.40 | \$ 5.75 |
| Bid Item C4 | Tilling | \$ 50,000.00 | \$ 250,000.00 | \$ 2,000.00 | \$ 150,000.00 | \$ 120,000.00 |
| Bid Item C5 | Total C1-C4 | \$ 11,075,000.00 | \$ 10,375,000.00 | \$ 6,770,000.00 | \$ 7,535,000.00 | \$ 5,295,000.00 |
| Total Bid Price | A3+C5 | \$ 41,225,000.00 | \$ 42,990,000.00 | \$ 21,470,000.00 | \$ 26,555,000.00 | \$ 25,995,000.00 |
| Standby Time | Per Day | \$ 225,000.00 | \$ 158,930.00 | \$ 35,000.00 | \$ 120,000.00 | \$ 215,000.00 |

3.02 *Lump Sum Bids*

A. Bidder will complete the Work in accordance with the Contract Documents for the following lump sum (stipulated) price(s), together with any Unit Prices indicated in Paragraph 3.03:

1. **Bid A - Reaches 1, 2 and 3** Lump Sum Price (Base Bid). Lump Sum Price for dredging and placement as specified by state and federal permits of 1,600,000 cubic yards of sand along 19,200 lf of shoreline along the Reach 1 and Reach 2 areas (Stations 222+00 to 328+00) and Reach 3 (Stations 0+00 to 86+00) as identified on the project plans. Work to be completed by December 31, 2026.

| | |
|--|----|
| A1 - Mobilization and Demobilization Lump Sum Price – Reaches 1, 2 & 3 | \$ |
| A2 - Dredging and Placement Lump Sum Price for Base Bid (Reach 1, 2 & 3 - 1,600,000 cy) | \$ |
| A3 - Total Reach 1, 2 & 3 Lump Sum Price for Base Bid (A1+A2) | \$ |

2. Alternate (DEDUCT) Lump Sum Price. Bidder shall provide a price adjustment to eliminate mobilization and sand placement along Reach 3. This Alternate eliminates 400,000 cy of placement quantity from the Base Bid A. Price should indicate a value to DEDUCT from A3 for a project that only includes placement along Reaches 1 and 2 (1,200,000 cy). B1 should be a positive value. Under this Alternate, the new Base Bid Price will be A3-B1. The Apparent Low Bidder will be based on Bid Prices for A3.

| | |
|--|----|
| B1 – DEDUCT – Eliminate mobilization and placement along Reach 3 | \$ |
|--|----|

3.03 *Unit Price Bids*

A. Bidder will perform the following Work at the indicated unit prices:

| Item No. | Description | Unit | Maximum Quantity | Bid Unit Price | Bid Amount |
|--|--|----------|------------------|----------------|------------|
| C1 | Placement of additional sand up to 300,000 cy along the Reach 1 | Cy | 300,000 | \$ | \$ |
| C2 | Placement of additional sand up to 200,000 cy along the Reach 2 placement area | Cy | 200,000 | \$ | \$ |
| C3 | Placement of additional sand up to 400,000 cy along the Reach 3 placement area (only applies to Bid A) | Cy | 400,000 | \$ | \$ |
| C4 | Tilling of all fill areas (19,200 lf) | Lump Sum | 1 | | \$ |
| C5 - Total of All Unit Price Bid Items (C1+C2+C3+C4) | | | | | \$ |

B. Bidder acknowledges that:

1. Each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor’s overhead and profit for each separately identified item, and

2. Estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

3.04 *Total Bid Price (Lump Sum and Unit Prices)*

| | |
|---|----|
| Total Bid Price (Total of all Lump Sum and Unit Price Bids A3+C5) | \$ |
|---|----|

3.05 *Standby Time*

If the permitting agencies require suspension of dredging, then the Owner will grant both time extension and compensation for up to five (5) days. For such suspension of at least one day, bid the following delay costs. Suspensions of parts of a day will be pro-rated. The cost below is the total cost of suspending the Contractor’s operations, regardless of the number of dredges he chooses to use.

A. Suspension Cost (\$/day): \$ _____

ARTICLE 4—TIME OF COMPLETION

4.01 Bidder agrees that the Work will be substantially complete on or before December 15, 2026, and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before December 31, 2026.

4.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 5—BIDDER’S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

5.01 *Bid Acceptance Period*

A. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

5.02 *Instructions to Bidders*

A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

A. Bidder hereby acknowledges receipt of the following Addenda:

| Addendum Number | Addendum Date |
|-----------------|---------------|
| | |
| | |
| | |
| | |
| | |