



**CEQA and COASTAL DETERMINATIONS
and
NOTICE OF APPROVAL**

Project: Blue Carbon Eelgrass Study

Location:

1. Site A (East of Zuniga Jetty)
2. Site B (East of Zuniga Jetty)
3. Site C (Entrance of Shelter Island Yacht Basin)
4. Site D (South of the Coronado Bridge)
5. Site E (Inshore of Homeport Island)
6. Site F (South of Entrance to Chula Vista Marina)
7. Site G (Northwest of the Chula Vista Wildlife Reserve)
8. Site H (West of the Chula Vista Bayfront)
9. Site I (East of Crown Isle)
10. Site J (Along the Northern Shoreline of the Chula Vista Wildlife Reserve)
11. Site K (East side of Glorietta Bay)
12. Site L (Navy NEMS 6 site)
- 13.) Site M (South of Sweetwater River outlet, on East Side of South San Diego Bay)
- 14.) Site N (Lowe's Coronado Hotel, on West Side of South San Diego Bay)
- 15.) Site O (Former Otay River, In the Middle of South San Diego Bay)

Parcel No.: Various

Project No.: 2022-091A

Applicant: Port of San Diego, 3165 Pacific Highway, San Diego, CA 92101

Date: November 14, 2022

PROJECT DESCRIPTION

The San Diego Unified Port District (Applicant) proposes to receive grant funding from the U.S. Department of Transportation Maritime Administration's (MARAD) Maritime Environmental Technical Assistance (META) program to conduct a San Diego Bay-wide evaluation and inventory of carbon storage and sequestration potential (often referred to as "blue carbon") of two species of eelgrass (proposed project). The MARAD META program promotes the research, demonstration, and development of emerging technologies, practices, and processes that improve maritime industrial environmental sustainability. The Applicant's proposed study of carbon storage and sequestration in eelgrass (Blue Carbon Eelgrass Study or Study) would be part of an ongoing quantitative effort to characterize carbon sequestration rates within eelgrass beds throughout San Diego Bay. Data collected during the Study would provide data on carbon stocks and sequestration rates, which would support future sampling and restoration efforts, and could provide guidance on future greenhouse gas emissions reduction strategies. The first year of the Study consisted of sampling at Sites A-J and Sites K-O for the next year of the Study. Additionally, the Applicant may continue to conduct sampling at Sites A-O, or a combination thereof, in the future.

The Study would focus on two species of eelgrass present in San Diego Bay: common eelgrass (*Zostera marina*) and wide-leaved eelgrass (*Z. pacifica*). It is anticipated that the Study would occur during the peak growth season for eelgrass. Biomass and sediment analysis would occur at up to fifteen (15) sites with up to seventeen (17) sampling locations (time and budget permitting) over a ten- to fourteen-day sampling period. A description of each location is included below:

1. Site A (East of Zuniga Jetty): sampling would occur at western end of eelgrass transect line (start location of transect: 479072.77 mE, 3615685.66 mN, end location of transect: 480125.88 mE, 3615857.96 mN). Depth of sampling location: -4 ft MLLW.
2. Site B (East of Zuniga Jetty): sampling would occur at eastern end of eelgrass transect line (start location of transect: 479072.77 mE, 3615685.66 mN, end location of transect:

- 480125.88 mE, 3615857.96 mN). Depth of sampling location: -4 ft MLLW.
3. Site C (Entrance of Shelter Island Yacht Basin): sampling would occur along eelgrass transect line (start location of transect: 478133.17 mE, 3618846.88 mN, end location of transect: 478146.21 mE, 3618653.29 mN). Depth of sampling location: -4 ft MLLW.
 4. Site D (South of the Coronado Bridge): sampling would occur along eelgrass transect line (start location of transect: 485096.94 mE, 3616261.04 mN, end location of transect: 484613.27 mE, 3616253.50 mN). Three sampling locations at this site at three different depths: 0 ft MLLW, -4 ft MLLW, and -6 MLLW.
 5. Site E (Inshore of Homeport Island): sampling would occur along eelgrass transect line (start location of transect: 484988.77 mE, 3614913.87 mN, end location of transect: 485340.45 mE, 3614908.16 mN). Depth of sampling location: -4 ft MLLW.
 6. Site F (South of Entrance to Chula Vista Marina): sampling would occur along eelgrass transect line (start location of transect: 490227.92 mE, 3609183.78 mN, end location of transect: 489552.07 mE, 3609170.16 mN). Depth of sampling location: -4 ft MLLW.
 7. Site G (Northwest of the Chula Vista Wildlife Reserve): sampling would occur at an existing eelgrass restoration site (489,551 mE, 3,608,987 mN). Depth of sampling location: -4 ft MLLW.
 8. Site H (West of the Chula Vista Bayfront): sampling would occur at South Bay Borrow Pit (3,609,445E; 489,142N - UTM, Zone 11 (NAD83)). Depth of sampling location: -4 ft MLLW.
 9. Site I (East of Crown Isle): sampling would occur south of eelgrass transect line (start location of transect: 486833.63 mE, 3610996.46 mN, end location of transect: 488574.09 mE, 3611161.79 mN). Depth of sampling location: -4 ft MLLW.
 10. Site J (Along the Northern Shoreline of the Chula Vista Wildlife Reserve): sampling would occur north of the Chula Vista Wildlife Reserve (no coordinates available). Depth of sampling location: -4 to 0 ft MLLW.
 11. Site K (East side of Glorietta Bay) sampling would occur approximately at latitude 32.681647 and longitude -117.171984. Depth of sampling location: -4 ft MLLW.
 12. Site L (Navy NEMS 6 site) sampling would occur approximately at 32.667011 and longitude -117.156291. Depth of sampling location: -4 ft MLLW.
 13. Site M (South of Sweetwater River outlet, on East Side of South San Diego Bay) sampling would occur approximately at latitude 32.644342 and longitude -117.119856. Depth of sampling location: -4 ft MLLW.
 14. Site N (Lowe's Coronado Hotel, on West Side of South San Diego Bay) sampling would occur approximately at latitude 32.63172 and longitude -117.131757. Depth of sampling location: -4 ft MLLW.
 15. Site O (Former Otay River, In the Middle of South San Diego Bay) sampling would occur approximately at latitude 32.620486 and longitude -117.12026. Depth of sampling location: -4 ft MLLW.

Most of the sampling locations would occur along existing eelgrass transect lines utilized by the U.S. Navy in their evaluations of San Diego Bay eelgrass beds. All locations would be accessed by boat and divers would conduct the activities detailed below for the biomass analysis and the sediment analysis.

Biomass Analysis

The biomass analysis portion of the Study includes three components: quadrat measurements, biomass sampling, and productivity sampling.

Quadrat measurements: Three replicate biomass quadrats of eelgrass would be measured at each location (up to 51 total quadrats). The quadrats are composed of PVC pipe and would be 25 centimeters (cm) by 25 cm. A diver would bring down the quadrat, place it in the sample area, take a photo of the quadrat, count and record the number of eelgrass shoots within the quadrat, and measure and record the height and width of each shoot within the turions within each quadrat. The quadrats would be brought back to the boat with the diver.

Biomass sampling: 50 individual shoots over a range of heights and widths would be collected within one quadrat for each of the two eelgrass species (100 total shoots). The shoots would be collected with the use of vegetable shears. These shoots would be used for analysis at an off-Tidelands facility.

Productivity sampling: 10 turion sheaths from a mature individual eelgrass plant would be identified within one quadrat for each of the two eelgrass species (20 total turion sheaths). At the blade-sheath junction of the most mature intact eelgrass blade, the diver would use a hypodermic needle to mark a reference hole on the blade. The diver would wrap colorful zip-ties at the base of the plant and place a stake at the location of the marked shoots to be able to identify the plant on the last day of the sampling period. The diver would re-visit the marked shoots and visually identify newly formed blade material based on upward displacement of the reference hole and record the area of the new blade material and total blade material. Between five (5) and twenty (20) of the marked blades would be collected using vegetable shears, and the zip-ties and stakes would be removed. The collected blades would be used for analysis at an off-Tidelands facility.

Sediment Analysis

The sediment analysis portion of the Study includes two components: sediment coring and sediment sampling.

Sediment coring: Three (3) sediment core samples would be taken at each location during the sampling period (approximately 51 samples total). The core tubes would be either two (2) or three (3) inches in diameter, depending on stiffness of sediment. Additional core samples may be necessary if the two-inch diameter core tube is used to meet sediment volume requirements for analysis. To take a sediment core sample, a three-point anchoring system would be set up over the sample location and the location and elevation of the site would be recorded. A vibracore would be attached to the anchoring system and used to drive the core tube into the ground. A majority of the cores would be collected down to one-meter-depth, however five (5) of the cores would be collected down to three-meter-depth (one at five different regions throughout the Bay). Collected core samples would be used for analysis at an off-Tidelands facility.

Sediment sampling: This component would rely upon the cores collected during sediment coring. For the one-meter-depth cores, six samples would be collected (one every 10 cm for the first 50 cm, and one sample for the rest of the core). For the three-meter-depth cores, ten samples would be collected (one every 10 cm for the first 50 cm, and one sample every 50 cm for the rest of the core). Each sample would be photographed, recorded, and used for analysis at an off-Tidelands facility. Additionally, a "grain size analysis" sample would be collected at three locations to determine carbon sequestration rates among various grain sizes.

In addition to the biomass analysis and sediment analysis, the MARAD META program would also fund an effort to model the evolution of eelgrass habitat in San Diego Bay with sea level rise and project how blue carbon may change over time, as a part of the Study. Finally, administration and grant management would also be funded and would include coordination with consultants, site visits, permitting, environmental and coastal review, review of draft and final reports, and quarterly reporting on the grant.

Due to its nature and limited scope, construction of the proposed project would generate a minor amount of vehicle trips and would require limited use of equipment. Therefore, impacts related to air quality, greenhouse gas emissions, and transportation and traffic are not anticipated to occur. Furthermore, the Applicant would be responsible for complying with all applicable federal, state, and local laws regarding construction demolition debris, hazards and hazardous materials, and stormwater.

The following categorical determinations are based on the project submittal and all project information known to the District as of the date of this determination.

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

CATEGORICAL DETERMINATION

Categorical Exemptions: SG §15304, Class 4/Section 3.d: Minor Alterations to Land; and SG §15306, Class 6/Section 3.f: Information Collection

3.d. Minor Alterations to Land (SG § 15304) (Class 4): Includes minor alterations in the condition of land, water and/or vegetation not involving removal of mature, scenic trees, including, but not limited to:

(6) Minor temporary use of land having negligible or no permanent effects on the environment.

AND/OR

3.f. Information Collection (SG § 15306) (Class 6): Includes basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource. These may be for information gathering purposes, or as part of a study leading to an action which has not yet been approved, adopted, or funded.

The proposed project is determined to be Categorically Exempt pursuant to the CEQA Guidelines and the Sections of the District's *Guidelines for Compliance with CEQA* as identified above. These are appropriate for the proposed project because it would result in no permanent effects on the environment, and would not involve the removal of mature, scenic trees and is for the purpose of basic data collection/research/experimental management/resource evaluation activities which would not result in a serious or major disturbance to an environmental resource. The District has determined none of the six exceptions to the use of a categorical exemption apply to this project (CEQA Guidelines Section 15300.2).

Pursuant to CEQA Guidelines Section 15062, a 35-day statute of limitations for this CEQA exemption shall apply from the date a Notice of Exemption is posted with the San Diego County Clerk, or a 180-day statute of limitations for this CEQA exemption shall apply if no Notice of Exemption is filed.

CALIFORNIA COASTAL ACT

PORT MASTER PLAN CONSISTENCY

Planning Districts: 6 - Coronado Bayfront (Precise Plan Figure 17), 7 - Chula Vista Bayfront (Precise Plan Figure 19)

Water Use Designations: Estuary, Wetlands, and Recreational Boat Berthing

Six of the seventeen total sampling locations are within the District's coastal permitting jurisdiction and conform to the certified Port Master Plan because it furthers Planning Goal XI, which identifies that the Port District will protect, preserve, and enhance natural resources, including natural plant and animal life in the bay as a desirable amenity, an ecological necessity, and a valuable and usable resource, as the Study has the potential to inform future restoration and greenhouse gas emissions reductions efforts. Furthermore, the proposed project is consistent with the existing certified Water use designations of Estuary and Wetlands because it is a nature study. The proposed project would not change the use of the sites nor would it interrupt or expand the existing conforming uses of the sites.

CATEGORICAL DETERMINATION

Categorical Exclusions: Section 8.d: Minor Alterations to Land; and Section 8.e: Information Collection

8.d. Minor Alterations to Land: Minor public or private alterations in the condition of land, water, and/or vegetation which do not involve the removal of mature, scenic trees, including but not limited to:

- (2) Minor temporary uses of land and water having negligible or no permanent effects on the environment, including festivals, boating activities, parades, and running or bicycling events.

AND/OR

- 8.e. Information Collection: Basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major significant disturbance to an environmental resource.

The portion of the proposed project located within the Coastal Development Permit (CDP) jurisdiction of the District is determined to be Categorical Excluded pursuant to the Sections of the District's *Coastal Development Permit Regulations* as identified above. These are appropriate for the proposed project because it would not involve the removal of mature, scenic trees and would not result in a serious or major significant disturbance to an environmental resource.

Pursuant to California Coastal Act Section 30717, there is a 10-working-day period to appeal this "Coastal Act Categorical Determination of Exclusion" to the California Coastal Commission.

For the portion of the proposed project located outside of the District's CDP jurisdiction, additional approvals may be required from other agencies.

CALIFORNIA PUBLIC TRUST DOCTRINE

The proposed project complies with Section 87.(a)(7) of the Port Act, which allows for the establishment and maintenance of those lands for open space, ecological preservation, and habitat restoration. The Port Act was enacted by the California Legislature and is consistent with the Public Trust Doctrine. Consequently, the proposed project is consistent with the Public Trust Doctrine.

JOE STUYVESANT
President/CEO

Determination by:
Lisa Madsen
Senior Planner
Planning

Signature: Lisa Madsen
Date: Nov 15, 2022

Deputy General Counsel

Signature: Rebecca Harrington
Date: Nov 15, 2022