



Southern Los Cerritos Wetlands Restoration Project Public Meeting #1

**December 7, 2021
6:30 p.m.**

**STARTING SOON
(Please Be on Mute)**





Southern Los Cerritos Wetlands Restoration Project Public Meeting #1

**December 7, 2021
6:30 p.m.**

Welcome



Public Meeting Format



- Please keep yourself on mute
- There will be various opportunities in this meeting to ask questions, at which time we will ask you to “unmute”
 - Questions can also be offered in the chat
- The meeting is being recorded and will be posted to the website

www.intoloscerritoswetlands.org

Who Are We?

Org Chart

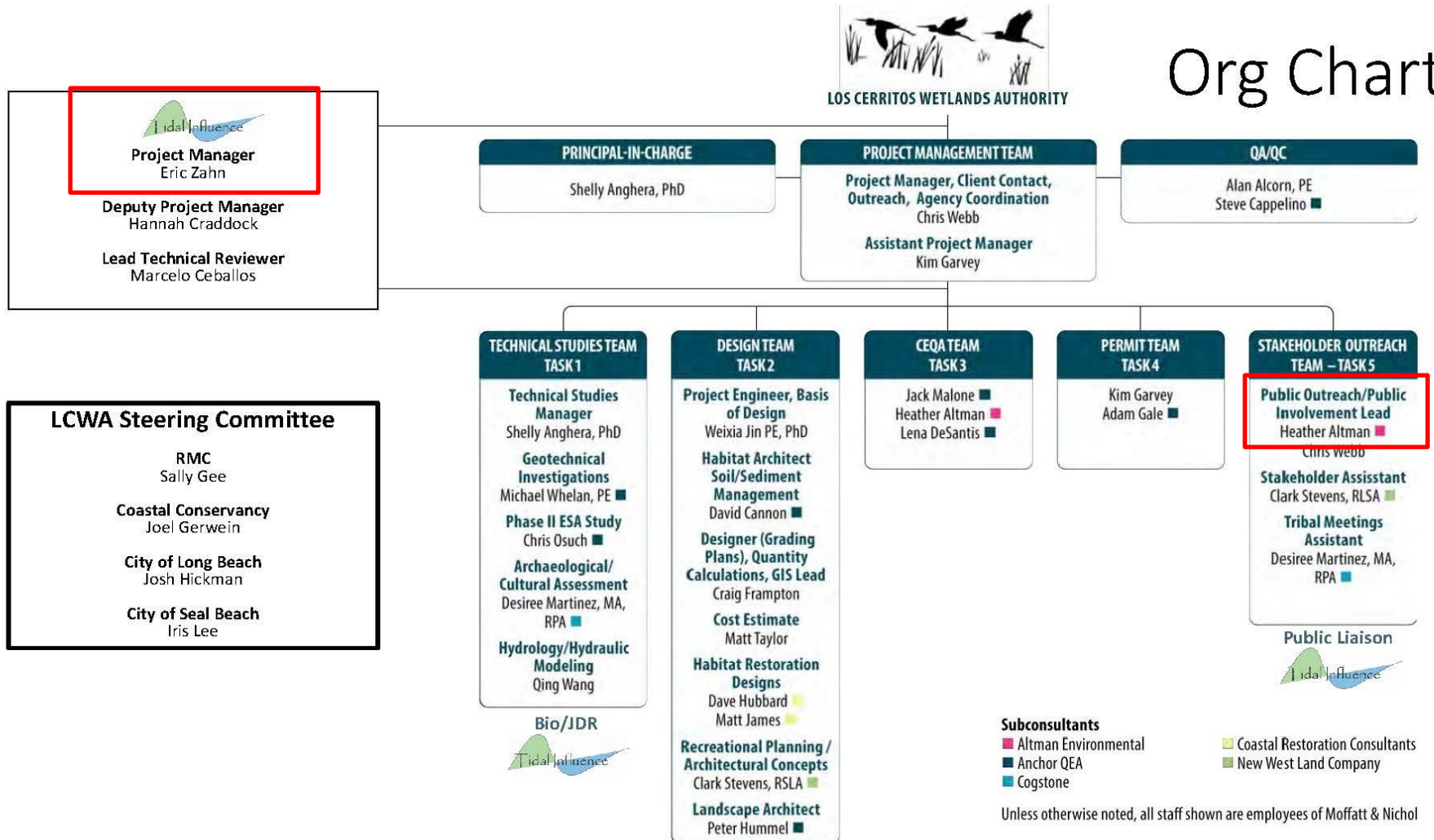




FIGURE 2. SUCCESSFUL SOUTHERN CALIFORNIA WETLAND PROJECTS BY THE MOFFATT & NICHOL TEAM

✓ Constructed

- | | | |
|---------------------------------|---------------------------------|--------------------------|
| 1 Andree Clark Bird Refuge | ✓ 11 Golden Shore | ✓ 21 San Elijo Lagoon |
| ✓ 2 Carpinteria Marsh (1&2) | ✓ 12 Colorado Lagoon (1, 2 & 3) | ✓ 22 San Dieguito Lagoon |
| ✓ 3 Ventura River Preserve Plan | 13 Los Cerritos (See Figure 2) | ✓ 23 South Bay Salt Pond |
| ✓ 4 Ojai Meadow | ✓ 14 Anaheim Bay | 24 ReWild Mission Bay |
| ✓ 5 Hendrick Creek Nature Area | ✓ 15 Bolsa Chica | 25 Mission Bay PEIR |
| ✓ 6 Solstice Creek | ✓ 16 Huntington Beach | 26 Otay River Estuary |
| 7 Trancas Lagoon | ✓ 17 Laguna Lake | 27 Tijuana River Estuary |
| ✓ 8 Malibu Lagoon | ✓ 18 Camp Pendleton | |
| 9 Topanga Creek & Lagoon | 19 Buena Vista Lagoon | |
| 10 Cabrillo Marsh | ✓ 20 Batiquitos Lagoon - | |

Public Meeting Agenda

- Restoration Planning Background
- Introduce the Southern Los Cerritos Wetlands Restoration Project*
- Baseline Data*
- Design Considerations*
- Next Steps

* = Breaks for Q&A

Restoration Planning Background



Los Cerritos Wetlands Authority

- Formed in 2006
- Comprised of the City of Seal Beach, City of Long Beach, State Coastal Conservancy, and Rivers and Mountains Conservancy
- Promotes protection, restoration, conservation, and management of the Los Cerritos Wetlands



Los Cerritos Wetlands Authority

Restoration Planning

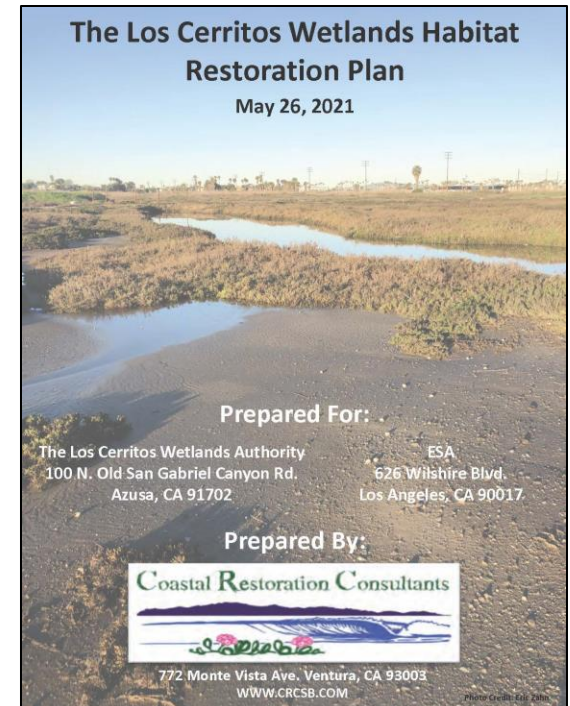
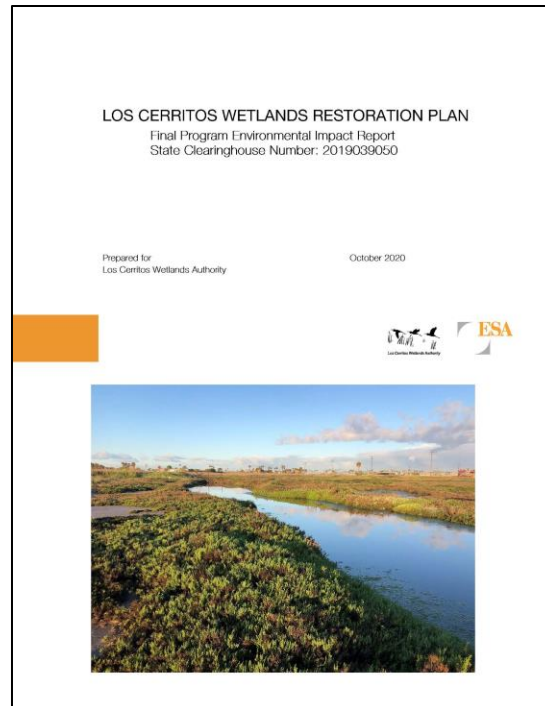
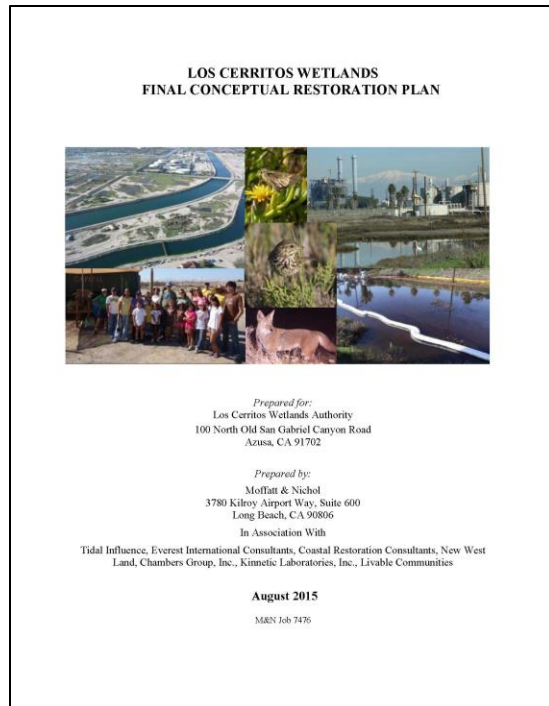
LCW Conceptual
Restoration Plan,
(August 2015)



LCW Restoration Plan
Program EIR,
(January 2021)



LCW Habitat
Restoration Plan,
(July 2021)



Restoration Planning

Los Cerritos Wetlands Restoration Plan Program
Environmental Impact Report, (pg. 2-3):

“Future phases of restoration would involve identifying individual projects, performing required analysis and field surveys (i.e. wetland delineations, habitat surveys, archaeological and cultural surveys, soil samples, etc.), engaging stakeholders, and developing more detailed, project-level designs (i.e. engineering designs, grading plans).”

Southern Los Cerritos Wetlands Restoration Project

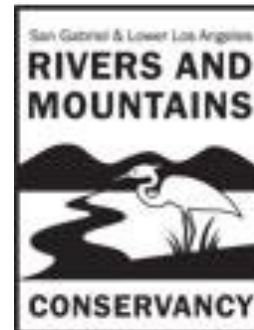


PEIR Section 2.1.2

- Individual restoration projects
 - Evaluated for consistency with the LCW Restoration Plan and the goals and objectives of the PEIR Section 2.5
 - Developed with input from public agencies, tribal representatives, stakeholders, landowners, and the community
 - Requisite environmental documentation prepared
 - Compliance with PEIR Mitigation Monitoring and Reporting Program (MMRP)

Grant Funding

- In January 2021, grant funding was received to initiate the next stage of project level restoration planning for the Southern LCW Restoration Project
 - Complete necessary technical studies
 - Produce the 30% and 65% construction design plans
 - Produce environmental review documentation
 - Prepare permit applications
 - Conduct stakeholder outreach



Southern LCW Restoration Project Area



Refined Habitat Restoration Plan LCWA South Site



- Sub-tidal
- Tidal Channel
- Cordgrass Marsh
- Mid Marsh
- High Marsh
- Transition Zone
- Salt Panne

Legend

- Upland
- Infrastructure
- C. lewisii Preservation
- C. lewisii Mitigation
- Upland on Fill
- Bioswale/Riparian
- Experimental Plot

Refined Restoration Plan for the LCWA South Site

Los Cerritos Wetlands Habitat Restoration Plan

Figure 8-1

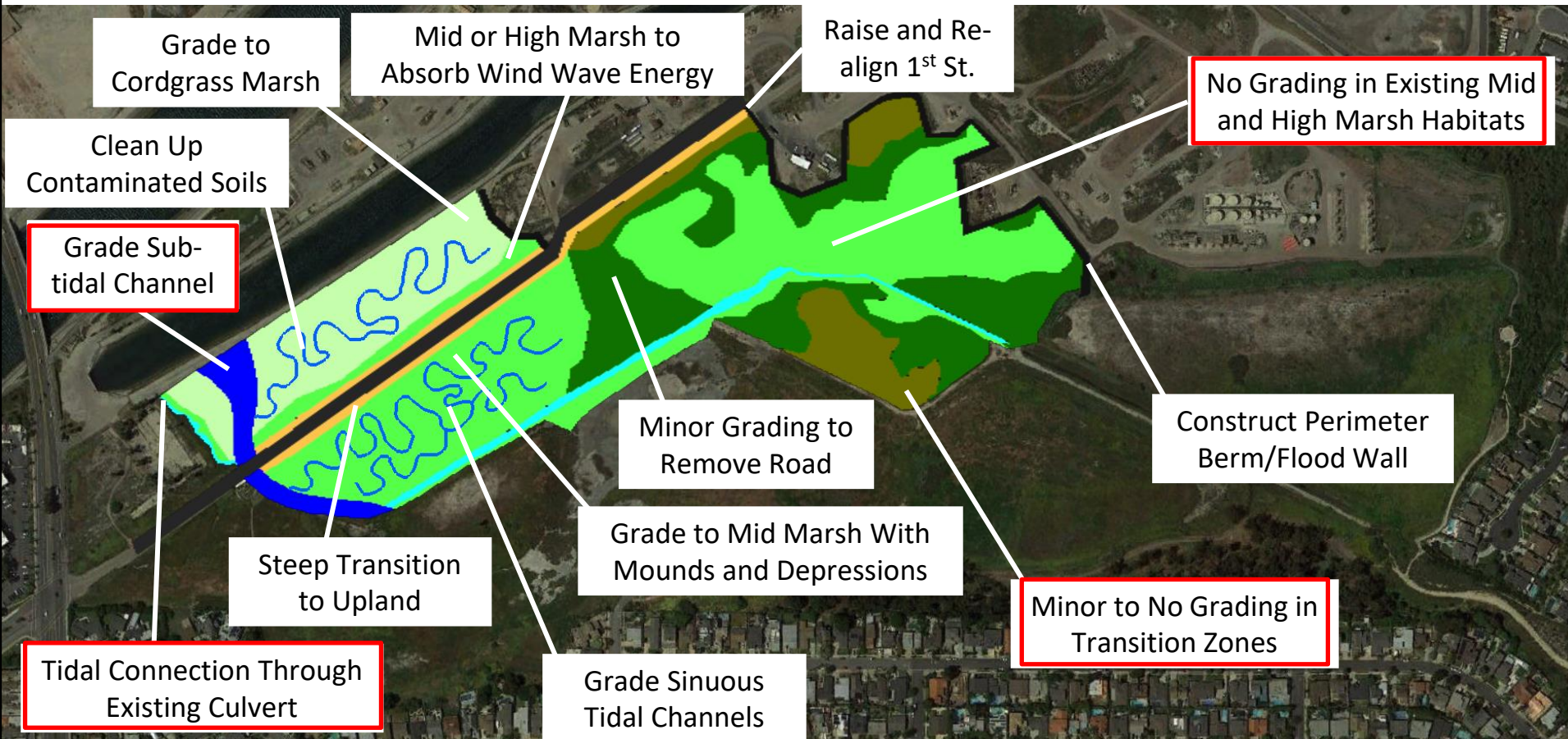
750 feet



Photo Source: Google Earth May 2019



Restoration Phase 1



Legend

- | | |
|-------------------|-------------------|
| ■ Sub-tidal | ■ High Marsh |
| ■ Tidal Channel | ■ Transition Zone |
| ■ Cordgrass Marsh | ■ Upland |
| ■ Mid Marsh | ■ Infrastructure |

Phase 1 Short-Term LCWA South Site

Los Cerritos Wetlands Habitat Restoration Plan

Figure 8-2

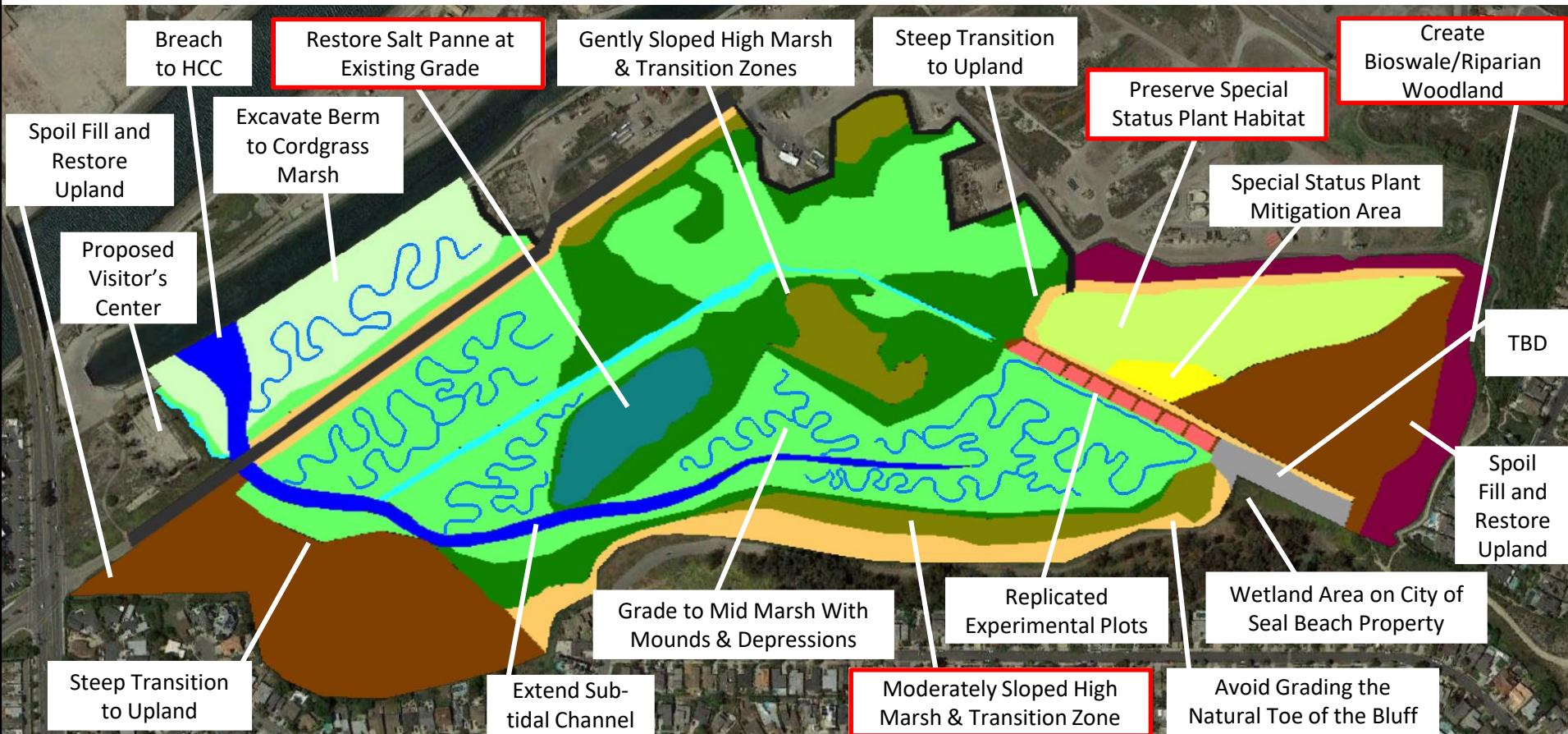
750 feet



Photo Source: Google Earth May 2019



Phase 1 and 2



Legend

- Sub-tidal
- Tidal Channel
- Cordgrass Marsh
- Mid Marsh
- High Marsh
- Transition Zone
- Salt Panne
- Upland
- Infrastructure
- C. lewisii Preservation
- C. lewisii Mitigation
- Upland on Fill
- Bioswale/Riparian
- Experimental Plot

Phase 1&2 Mid-Term LCWA South Site

Los Cerritos Wetlands Habitat Restoration Plan

Figure 8-3

750 feet



Photo Source: Google Earth May 2019



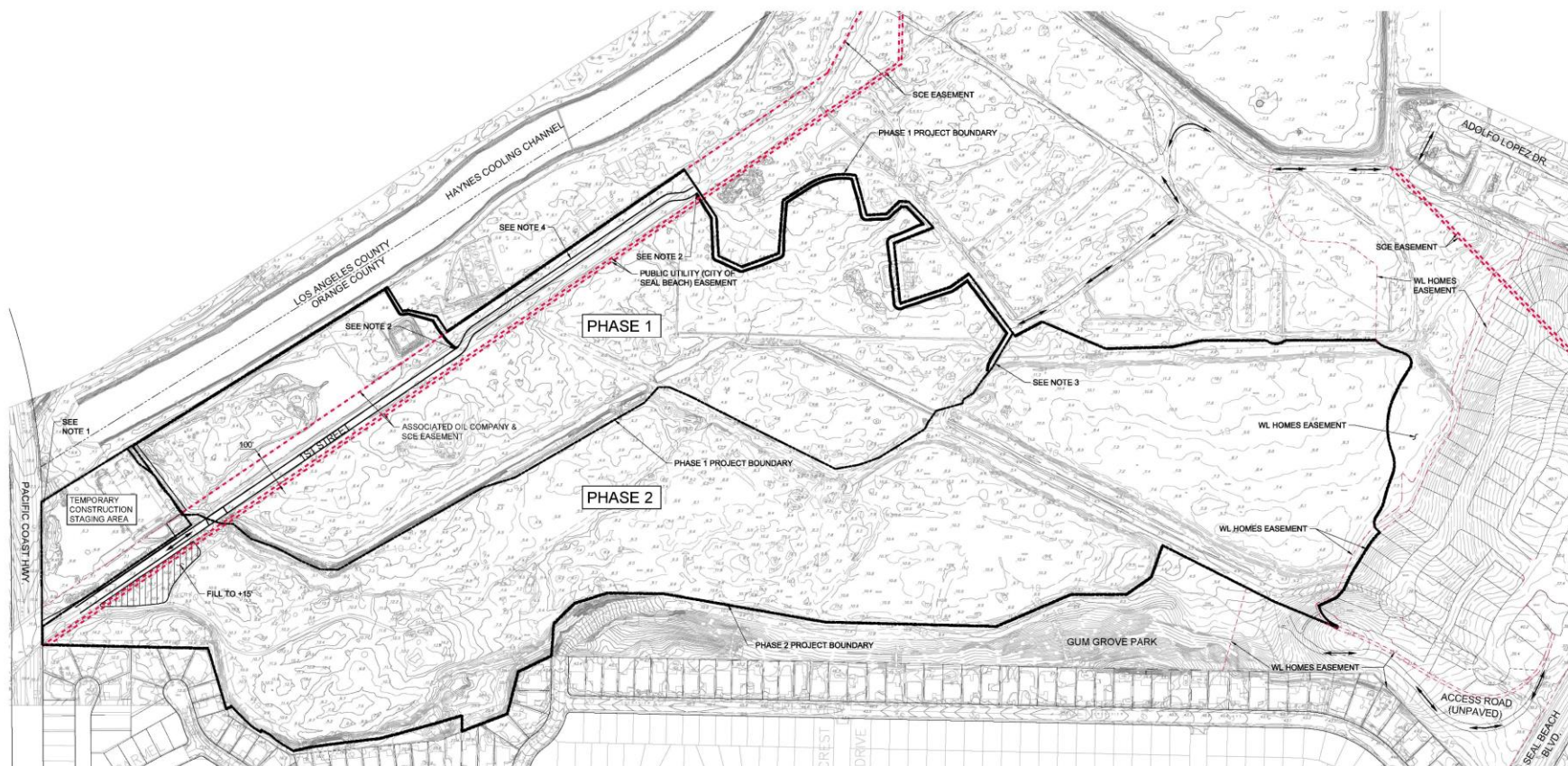
Questions?



Baseline Data: Easements



Easement Locations



NOTES

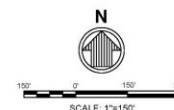
1. TIE LEVEE INTO +12 FOOT CONTOUR
2. TIE LEVEE INTO EDGE OF ROAD SHOULDER
3. TIE LEVEE INTO +10 FOOT CONTOUR
4. REALIGN ROAD
5. ELEVATIONS ARE IN REFERENCE TO THE NGVD

LEGEND

- TEMPORARY CONSTRUCTION STAGING AREA
- CONSTRUCTION INGRESS/EGRESS
- PROPOSED LEVEE
- EXISTING EASEMENT
- PROJECT BOUNDARY

SITE PLAN

SCALE: 1"=150'



PRELIMINARY - NOT FOR CONSTRUCTION

<div>PLANS PREPARED BY: 4335 E. CONANT ST. LONG BEACH, CA 90803 562-599-8900</div> <div>UNDER THE SUPERVISION OF: XXX XXX XXXXXX DATE: _____</div>	DESIGNED BY: VALUE	VALUE	No.	REVISION	DATE	BY	APP
	DRAWN BY: VALUE	VALUE					
	CHECKED BY: VALUE	VALUE					

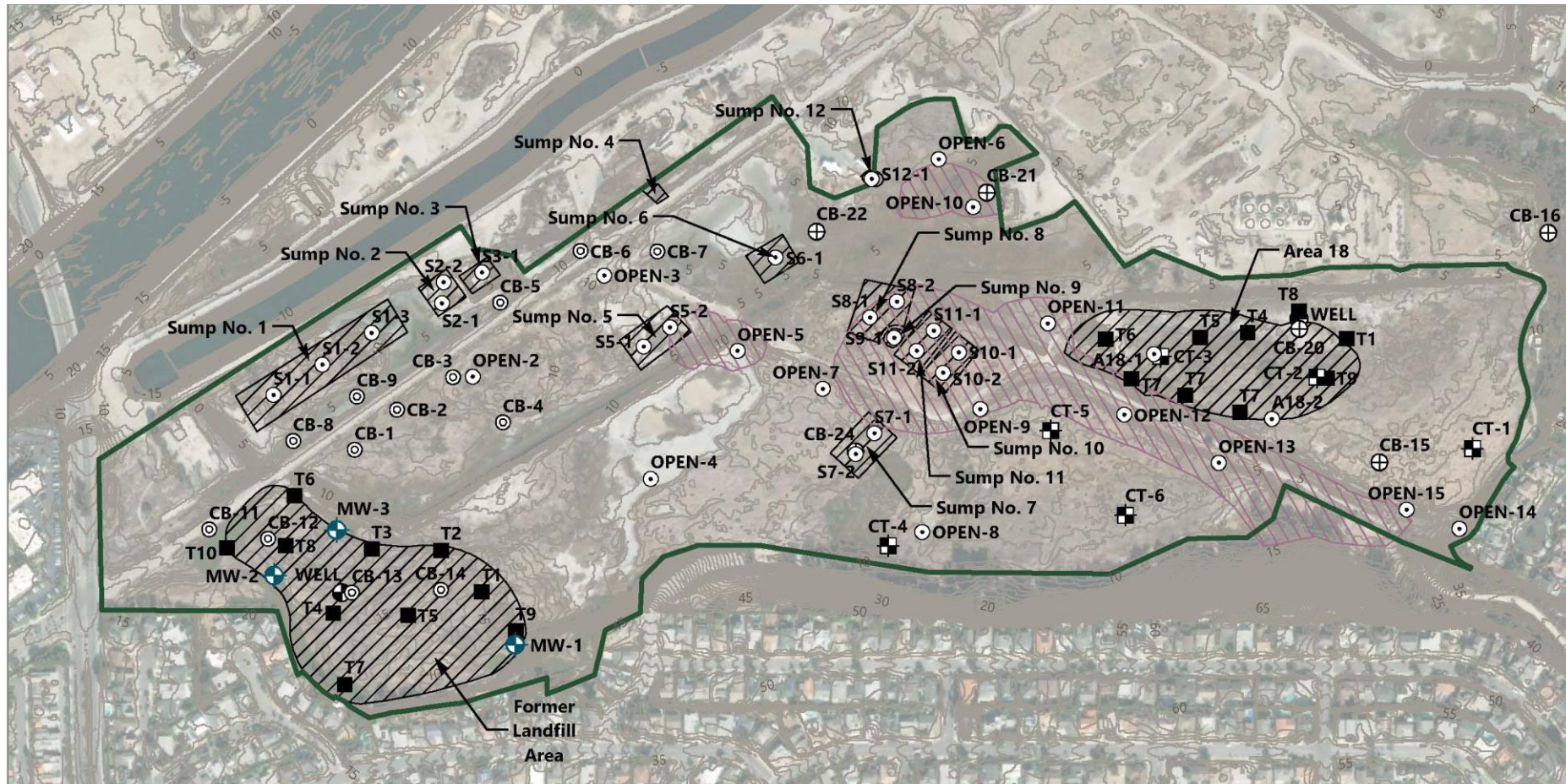
CITY OF SEAL BEACH
DEPT. OF PUBLIC WORKS
SOUTHERN LOS CERRITOS WETLANDS
RESTORATION PROJECT
SITE PLAN

VERT. SCALE: "AS SHOWN"
HORIZ. SCALE: "AS SHOWN"
SHEET VALUE OF XX SHEETS
DWG. NO. G-101

Baseline Data: Geotechnical Investigations

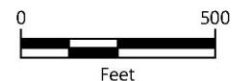


Previously Completed Sampling Locations



LEGEND:

- | | | |
|--|---|--|
| ⊙ Soil Boring for Agronomy Study (Converse 1996) | ⊕ Test Pit for Agronomy Study (Converse 1996) | ⦿ Monitoring Well (Anchor 2004) |
| ■ Trench (Geomatrix Consultants 2001) | ⊕ Monitoring Well (Converse 1996) | ▭ Project Area |
| ⊕ Groundwater Monitoring Well (Geomatrix Consultants 2001) | ⊙ Boring Location (Anchor 2004) | ▨ Other Delineated Areas of Contamination (Geosyntec 2017) |
| | | ▨ Sumps and Former Landfill |
| | | — Topographic Contours (1 foot interval NAVD88) |

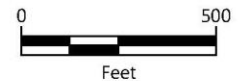


Proposed Sampling Locations w/jurisdictional wetlands

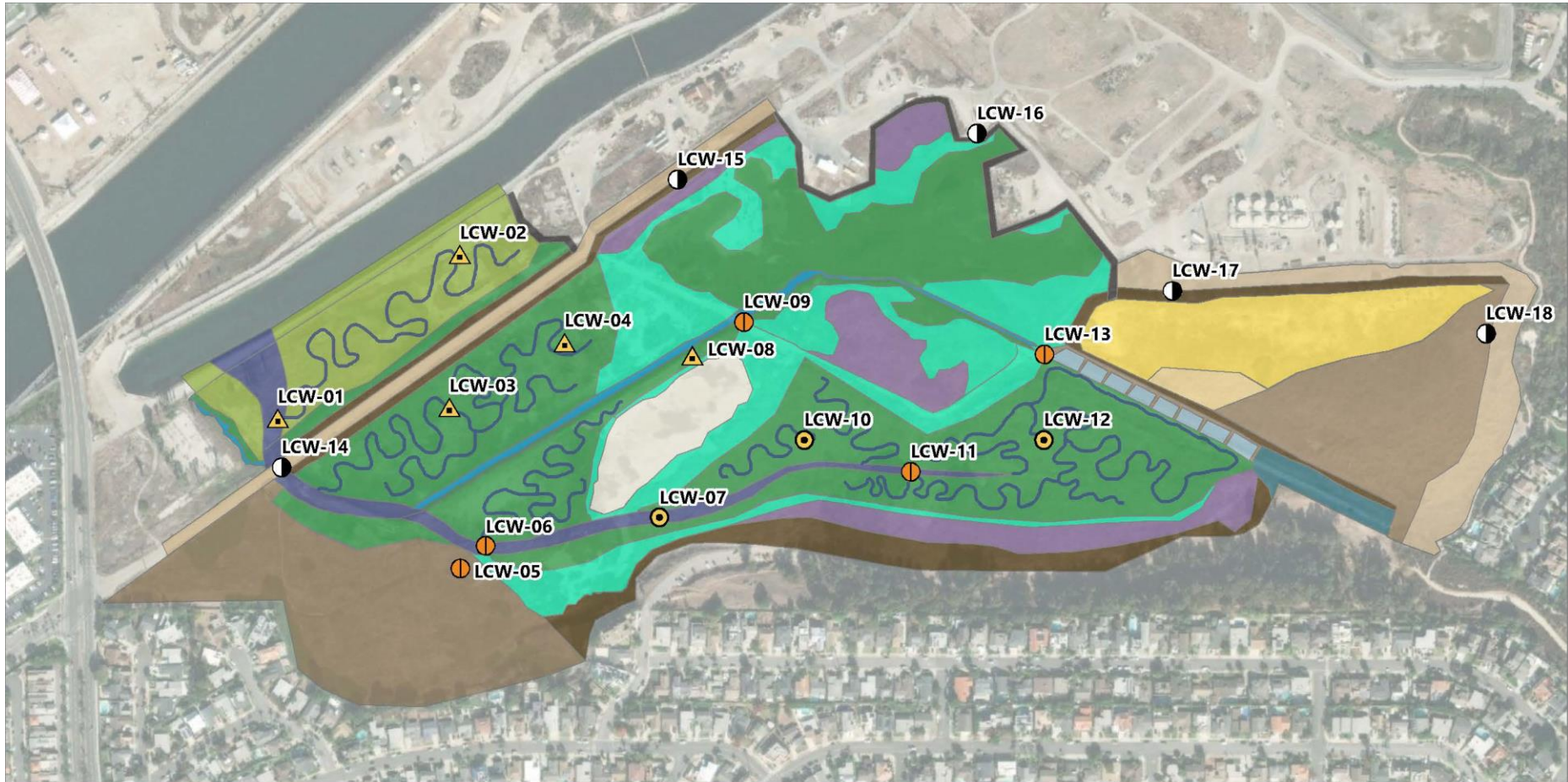


LEGEND:

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> ● Soil Boring: Chemical Sampling Only (HSA Drill Rig) ▲ Soil Boring for Chemical Sampling Only (Hand Auger) ● Soil Boring: Geotechnical Purposes Only (HSA Drill Rig) ● Soil Boring: Geotechnical Purposes with Chemical Sampling (HSA Drill Rig) | <ul style="list-style-type: none"> ▭ Project Area ▨ Other Delineated Areas of Contamination (Geosyntec 2017) ▨ Sumps and Former Landfill — Topographic Contours (1 foot interval NAVD88) | <ul style="list-style-type: none"> ■ Jurisdictional Wetlands of the United States ■ Jurisdictional Waters of the United States ■ California Coastal Commission Wetlands |
|--|--|--|



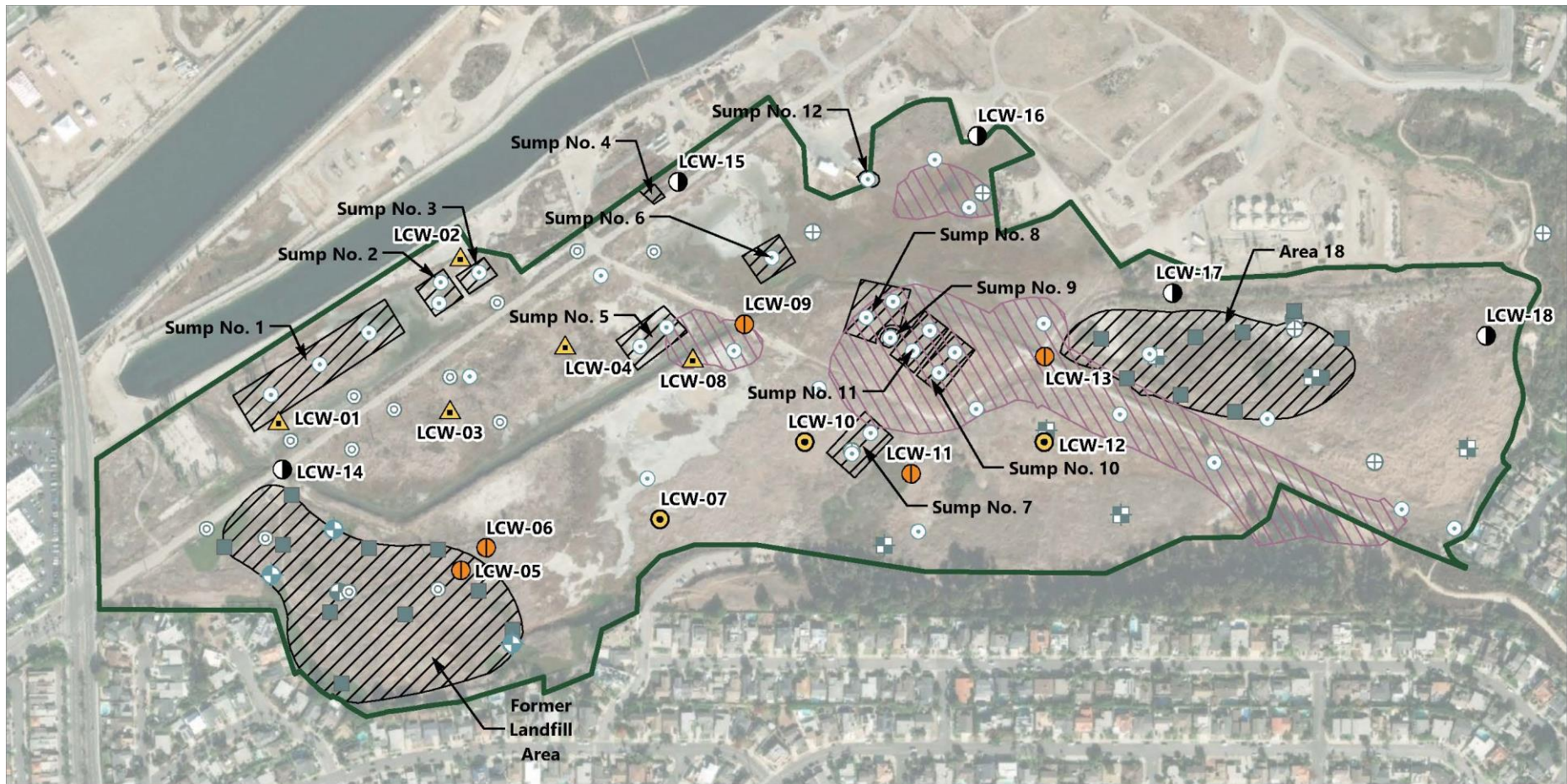
Proposed Sampling Locations w/habitat restoration plan



LEGEND:

- | | | | |
|--|---|---|---|
| <ul style="list-style-type: none"> Soil Boring: Chemical Sampling Only (HSA Drill Rig) Soil Boring for Chemical Sampling Only (Hand Auger) Soil Boring: Geotechnical Purposes Only (HSA Drill Rig) Soil Boring: Geotechnical Purposes with Chemical Sampling (HSA Drill Rig) | <ul style="list-style-type: none"> Bioswale/Riparian Woodland Camissoniopsis Mitigation Site Camissoniopsis Preservation Site Existing Tidal Channel Flood Wall or Berm High Salt Marsh | <ul style="list-style-type: none"> High Salt Marsh - Salt Panne Mid Salt Marsh Raise and Re-align 1st Street on Fill Dirt Restore Upland on Fill Spartina Salt Marsh Subtidal Channel | <ul style="list-style-type: none"> To Be Determined Tidal Mesocosm Transition Zone Upland Upland on Fill |
|--|---|---|---|

Proposed Sampling Locations w/former sampling areas

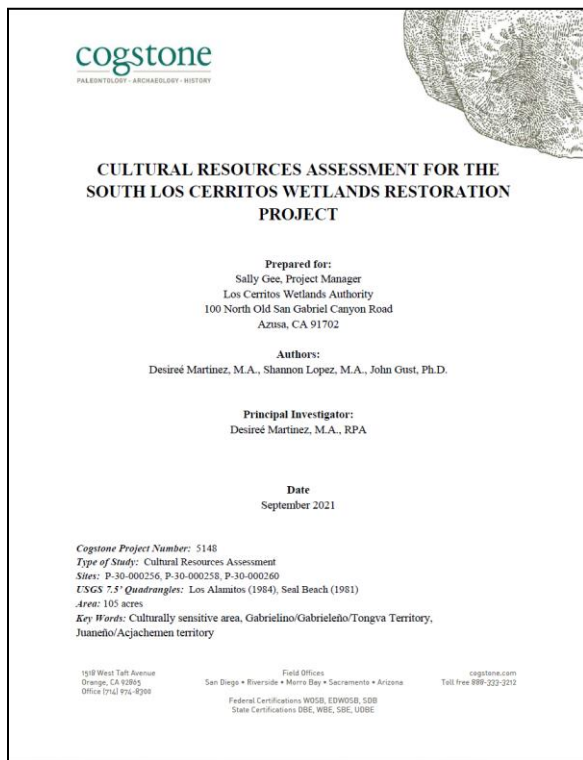


LEGEND:

- | | | | |
|--|---|--|---|
| <ul style="list-style-type: none"> Soil Boring: Chemical Sampling Only (HSA Drill Rig) Soil Boring for Chemical Sampling Only (Hand Auger) Soil Boring: Geotechnical Purposes Only (HSA Drill Rig) Soil Boring: Geotechnical Purposes with Chemical Sampling (HSA Drill Rig) | <ul style="list-style-type: none"> Boring Location (Anchor 2004) Monitoring Well (Anchor 2004) Soil Boring for Agronomy Study (Converse 1996) Trench (Geomatrix Consultants 2001) | <ul style="list-style-type: none"> Groundwater Monitoring Well (Geomatrix Consultants 2001) Test Pit for Agronomy Study (Converse 1996) Monitoring Well (Converse 1996) | <ul style="list-style-type: none"> Project Area Other Delineated Areas of Contamination (Geosyntec 2017) Sumps and Former Landfill |
|--|---|--|---|

Baseline Data: Cultural Resources





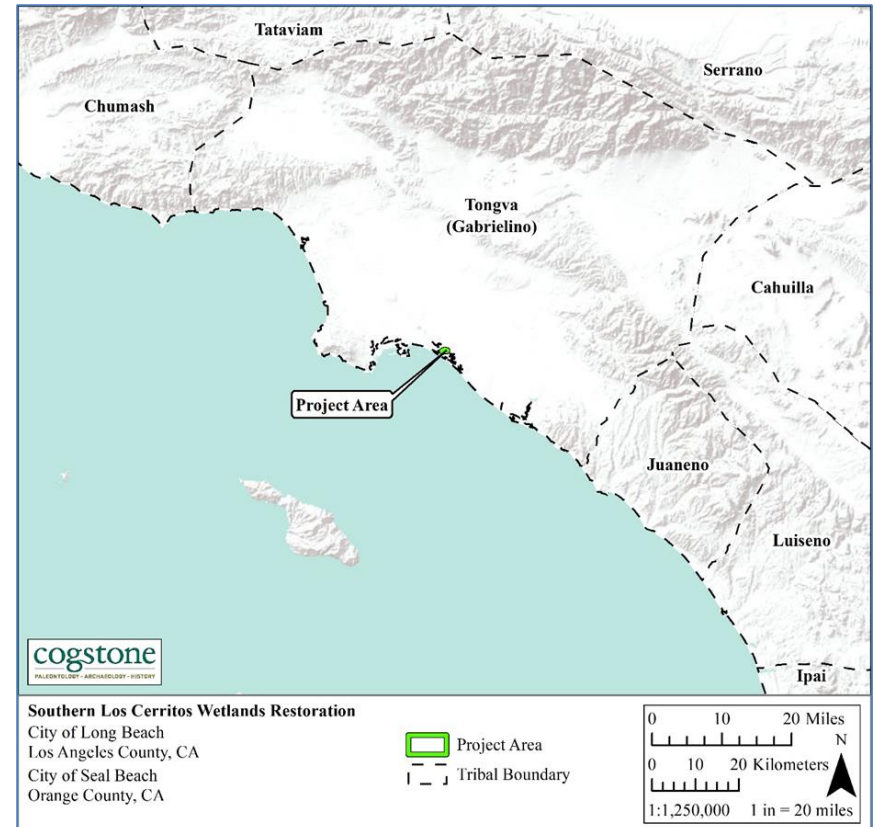
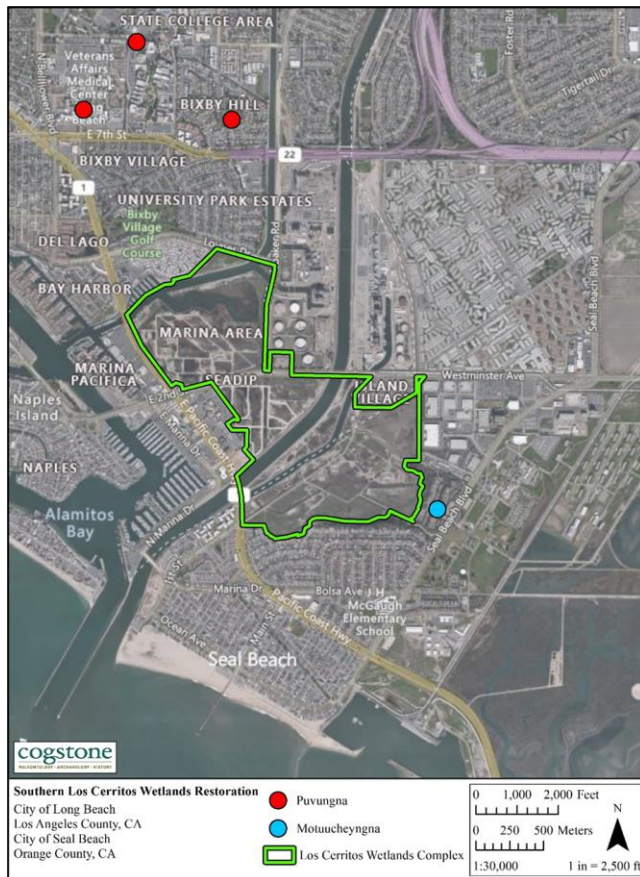
Contents of Cultural Resources Assessment Report

- Geological, Cultural and Historic Settings
- Records Search Results
- Field Survey Results
- Traditional Cultural Landscape Study
- Tribal Advisory Group Interviews



Traditional (Tribal) Cultural Landscape

Any place in which a relationship, past or present, exists between a spatial area, resource, and an associated group of indigenous people whose cultural practices, beliefs, or identity connects them to that place. A tribal cultural landscape is determined by and known to a culturally related group of indigenous people with relationships to that place



Traditional Cultural Landscape Study

The purpose of this study is to evaluate the Los Cerritos Wetlands potential to be a Traditional Cultural Landscape

The LCWA views this as a critical study for the LCW Southern Area Restoration Project based on the California Coastal Commission's tribal consultations as part of a previously proposed project:

- *In 2017, tribal representatives of the Gabrieleno-Tongva San Gabriel Band of Mission Indians, as well as a member of the Acjachemen Tribe described the project site as “sacred lands that are part of a larger area of connected tribal sites that constitute a Tribal Cultural Landscape that may be eligible for listing by the National Register as a Tribal Cultural Property. This Tribal Cultural Landscape includes several significant tribal sites and resources in close proximity to the project site, including the site of Puvungna, the Rancho Los Alamitos (Long Beach area), and the 9-18-0395 (Beach Oil Minerals) Hellman Ranch property (immediately on the other side of the San Gabriel River, in Seal Beach) (CCC 2018: 125).*
- In 2018, representatives of the Gabrieleño Band of Mission Indians - Kizh Nation stated that the Los Cerritos Wetlands area is a sacred land, just as all land, water and animals are sacred (CCC 2018: 125).

LCWA Tribal Advisory Group

- Gabrieleno/Tongva San Gabriel Band of Mission Indians
- Gabrielino-Shoshone Nation
- Gabrielino Tongva Indians of California Tribal Council
- Gabrieleno Band of Mission Indians - Kizh Nation
- Juaneno Band of Mission Indians Acjachemen - Belardes
- Gabrielino-Tongva Tribe
- Gabrielino/Tongva Nation

Additional Tribal Advisors

- Ti'at Society/Traditional Council of Pimu
- Juaneno Band of Mission Indians Acjachemen Nation

Tribal Advisory Group Interviews

"...he said his mother would take him to the shore but only let him--put his hands behind his back so he wouldn't take too much. So he actually had to eat it out of the water with his mouth because it was a means of respecting that you weren't taking too much of what you could consume in that moment."

-Mercedes Dorame, Gabrielino Tongva Indians of California Tribal Council (Speaking about her father)



"I'll give you an example of that, is I grew up with a father who when we got sick we would go to the ocean, he would gather the salt water, the ocean water--we could do that back in the fifties--and we would, like, use a neti pot and we would breathe it in through our nose..."

-Cindi Alvitre, Gabrielino Shoshone Nation

"...I always tell people that the animals and the plants are going to teach us how to be human again because we've lost that. So that's the significance to me of this place is being out here physically on the landscape and just sitting here watching, and they will teach you how to behave as human."

-Craig Torres, Ti'at Society/Traditional Council of Pimu



"So, my mom would talk about the days her uncles used to come out here in a four-man skiff and fish for crab, shrimp, mussels, whatever."

-Nicholas Rocha, Gabrielino Shoshone Nation

Tribal Cultural Resources

Common name	Scientific name	Tribal Uses
Pickleweed	<i>Salicornia pacifica</i>	Food
California sea lavender/ western marsh rosemary	<i>Limonium californicum</i>	Food; medicine
Southern tar plant	<i>Centromadia parryi</i> <i>ssp. australis</i>	
Salt grass	<i>Distichlis spicata</i>	Used to season food
California boxthorn	<i>Lycium californicum</i>	Edible berries
Watercress	<i>Nasturtium officinale</i>	Food, leaves eaten (personal communication; Dorame 2021)
Bladderpod	<i>Peritoma arborea</i>	Food; flowers boiled (Ramirez and Small 2015: 12-17)
Evening primrose	<i>Oenothera elata</i>	Food; medicine
Yerba Mansa	<i>Anemopsis californica</i>	Medicine; tea used for colds and sore throat (Drake in Ramirez and Small 2015); poultice doe cuts and wounds (Mojado in Ramirez and Small 2015)
Shore grass	<i>Distichlis littoralis</i>	
Eelgrass	<i>Zostera marina</i>	Food; use of rhizomes, seeds and leaves

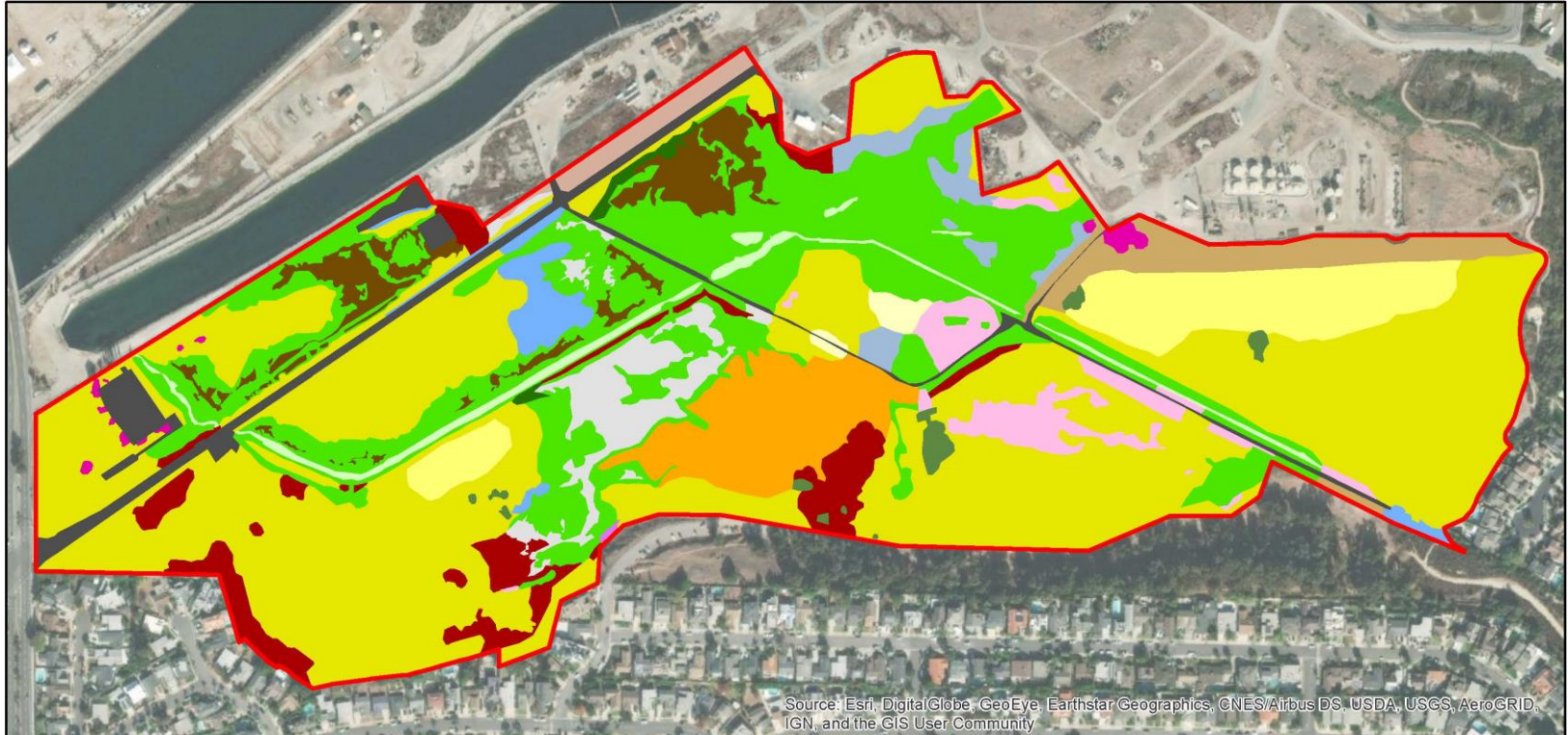
This table lists a few salt marsh plants that have been identified as used by the Gabrielino (Gabrieleño; Tongva; Kizh) and their uses. The interviewees would like to be able to incorporate these plants into their community once again

The Tribal Advisory Group will work with the LCWA design team to incorporate these species and other design aspects into this restoration project

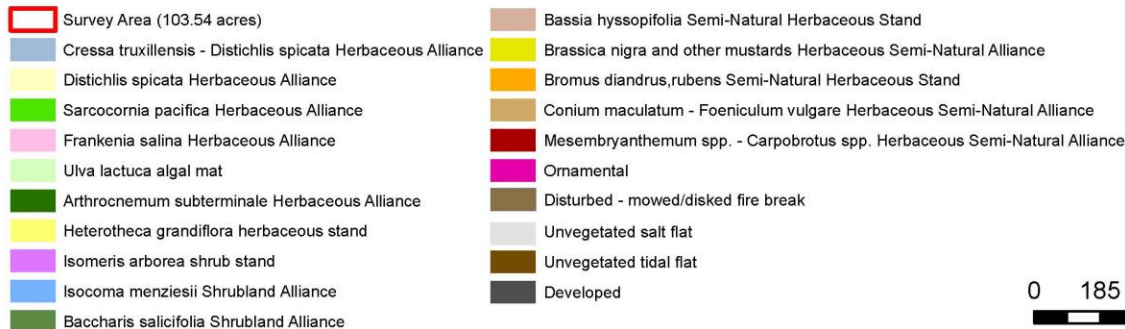
Baseline Data: Biological Resources



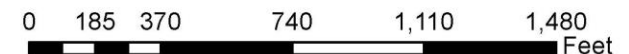
Vegetation Alliances



Vegetation Alliances Southern Los Cerritos Wetlands Area - Seal Beach, CA



Coordinate System: NAD 1983 2011
StatePlane California VI FIPS 0406 ft US
Projection: Lambert Conformal Conic
Datum: NAD 1983 2011
Produced by Hannah Craddock
May 13, 2021
1 inch = 458 feet



Special Status Plants



Special Status Plants

Southern Los Cerritos Wetlands Restoration Project - Seal Beach, CA



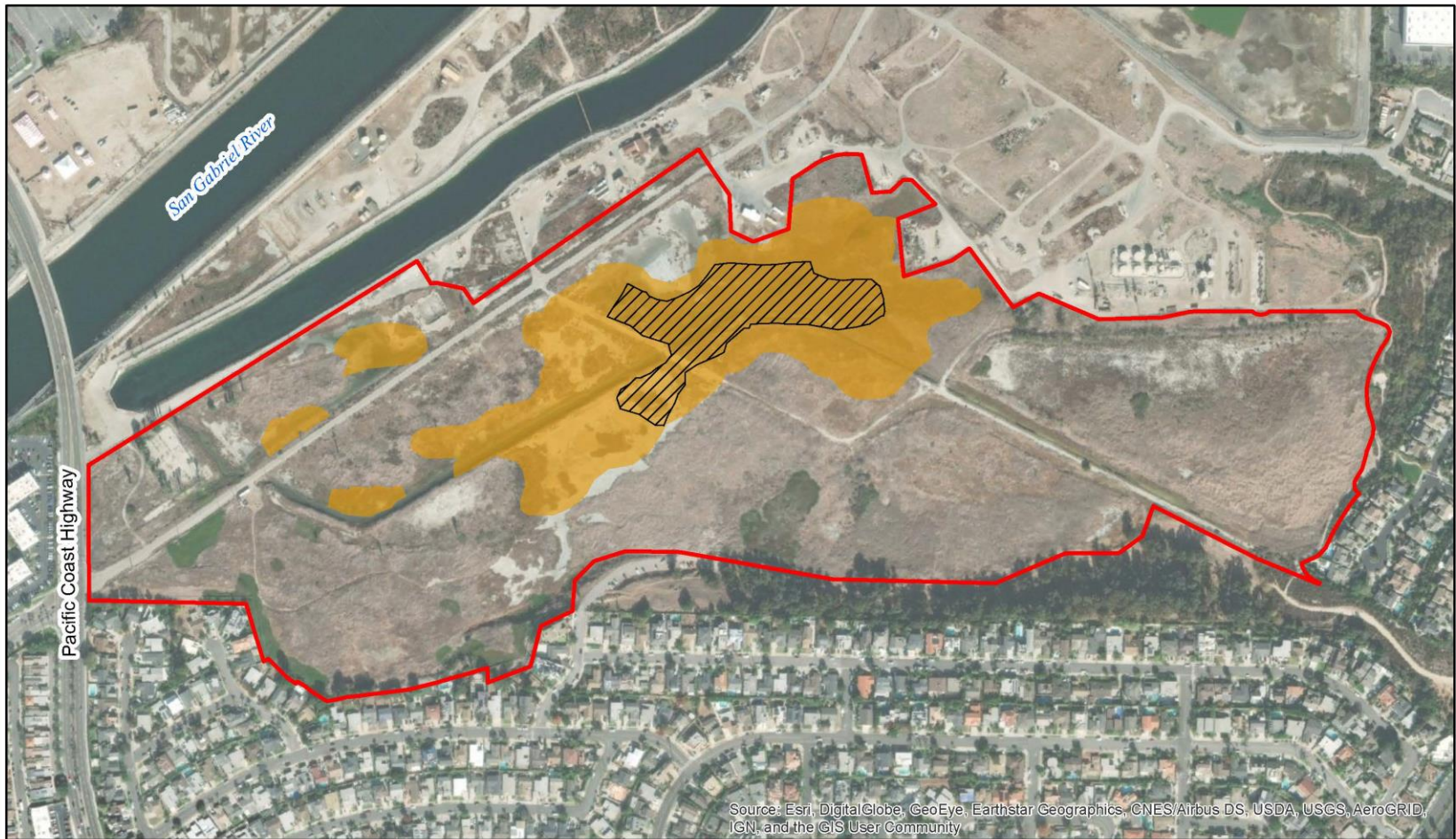
- Project Area (103.54 acres)
- California boxthorn (*Lycium californicum*, 2 Individuals)
- Southern tarplant (*Centromadia parryi australis*, 1.06 acres)
- Lewis' evening primrose (*Camissoniopsis lewisii*, 3.76 acres)






0 190 380 760 1,140 1,520
Feet

Coordinate System: NAD 1983 2011
StatePlane California VI FIPS 0406 ft US
Projection: Lambert Conformal Conic
Datum: NAD 1983 2011
Produced by Hannah Craddock
July 13, 2021
1 inch = 458 feet

Belding's Savannah Sparrow Breeding Habitat



Belding's Savannah Sparrow (*Passerculus sandwichensis beldingi*) Breeding Habitat
Southern Los Cerritos Wetlands Restoration Project - Seal Beach, CA

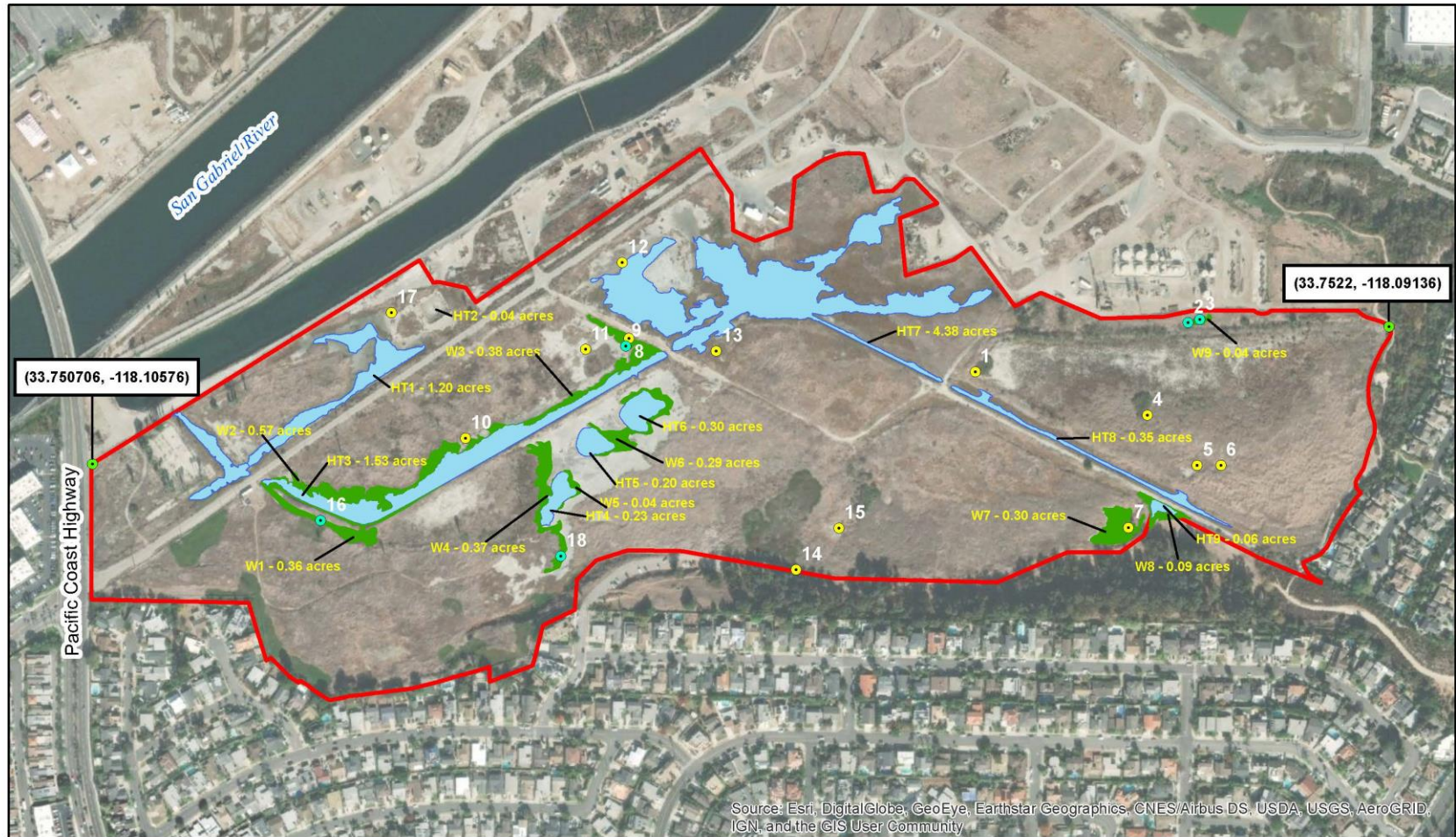
-  Project Area (103.54 acres)
-  Observed Habitat Extent (21.10 acres)
-  Core Breeding Habitat (4.73 acres)



0 187.5 375 750 1,125 1,500
Feet

Coordinate System: NAD 1983 2011
StatePlane California VI FIPS 0406 ft US
Projection: Lambert Conformal Conic
Datum: NAD 1983 2011
Produced by Hannah Craddock
August 18, 2021
1 inch = 458 feet

Jurisdictional Wetland Delineation Map



Jurisdictional Wetland Delineation Southern Los Cerritos Wetlands Area - Seal Beach, CA

0 180 360 720 1,080 1,440 Feet



- Survey Area (103.54 acres)
- Jurisdictional Waters of the U.S. (8.29 acres)
- Jurisdictional Wetland Waters of the U.S. (2.44 acres)
- Control Points
- Wetland Sampling Point
- Upland Sampling Point





Coordinate System: NAD 1983 2011
StatePlane California VI FIPS 0406 ft US
Projection: Lambert Conformal Conic
Datum: NAD 1983 2011
Produced by Hannah Craddock
June 17, 2021
1 inch = 458 feet

Potential CDFW Jurisdictional Wetland



Potential California Department of Fish and Wildlife Jurisdictional Wetlands Southern Los Cerritos Wetlands Area - Seal Beach, CA

-  Survey Area (103.54 acres)
-  Potential CDFW Jurisdictional Wetlands (1.42 acres)

0 185 370 740 1,110 1,480
Feet





Coordinate System: NAD 1983 2011
StatePlane California VI FIPS 0406 ft US
Projection: Lambert Conformal Conic
Datum: NAD 1983 2011
Produced by Hannah Craddock
June 17, 2021
1 inch = 458 feet

CCC Jurisdictional Wetland



California Coastal Commission Jurisdictional Wetlands Southern Los Cerritos Wetlands Area - Seal Beach, CA

-  Survey Area (103.54 acres)
-  CCC Jurisdictional Wetlands (27.19 acres)

0 185 370 740 1,110 1,480
Feet



Coordinate System: NAD 1983 2011
StatePlane California VI FIPS 0406 ft US
Projection: Lambert Conformal Conic
Datum: NAD 1983 2011
Produced by Hannah Craddock
June 17, 2021
1 inch = 458 feet

Questions?



Design Considerations



Design Considerations

- Habitats and Sea Level Rise
- Special Status Species and Plant Communities
- Jurisdictional Waters and ESHA
- Cultural Resources
- Tribal Cultural Resources
- Soils
- Hydrology/Tidal Connection
- Contamination
- Easements/Utilities
- Public Access



Public Access

1. Connector Trail Alternative
2. Loop Trail Alternative
3. Multi-Loop Trail Alternative
4. No Trail Alternative



1. Connector Trail Alternative



- Sub-tidal
- Tidal Channel
- Cordgrass Marsh
- Mid Marsh
- High Marsh
- Transition Zone
- Salt Panne

- Legend**
- Potential Trail
 - Upland
 - Infrastructure
 - C. lewisii Preservation
 - C. lewisii Mitigation
 - Upland on Fill
 - Bioswale/Riparian
 - Experimental Plot

Refined Restoration Plan for the LCWA South Site

Los Cerritos Wetlands Habitat Restoration Plan

Figure 8-1

750 feet



Photo Source: Google Earth May 2019



2. Loop Trail Alternative



- Sub-tidal
- Tidal Channel
- Cordgrass Marsh
- Mid Marsh
- High Marsh
- Transition Zone
- Salt Panne

Legend

- Potential Trail
- Upland
- Infrastructure
- C. lewisii Preservation
- C. lewisii Mitigation
- Upland on Fill
- Bioswale/Riparian
- Experimental Plot

Refined Restoration Plan for the LCWA South Site

Los Cerritos Wetlands Habitat Restoration Plan

Figure 8-1

750 feet



Photo Source: Google Earth May 2019



3. Multi-Loop Trail Alternative



- Sub-tidal
- Tidal Channel
- Cordgrass Marsh
- Mid Marsh
- High Marsh
- Transition Zone
- Salt Panne

Legend



Potential Trail

- Upland
- Infrastructure
- C. lewisii Preservation
- C. lewisii Mitigation
- Upland on Fill
- Bioswale/Riparian
- Experimental Plot

Refined Restoration Plan for the LCWA South Site

Los Cerritos Wetlands Habitat Restoration Plan

Figure 8-1

750 feet



Photo Source: Google Earth May 2019



4. No Trail Alternative



- Sub-tidal
- Tidal Channel
- Cordgrass Marsh
- Mid Marsh
- High Marsh
- Transition Zone
- Salt Panne

Legend

- Upland
- Infrastructure
- C. lewisii Preservation
- C. lewisii Mitigation
- Upland on Fill
- Bioswale/Riparian
- Experimental Plot

Refined Restoration Plan for the LCWA South Site

Los Cerritos Wetlands Habitat Restoration Plan

Figure 8-1

750 feet



Photo Source: Google Earth May 2019



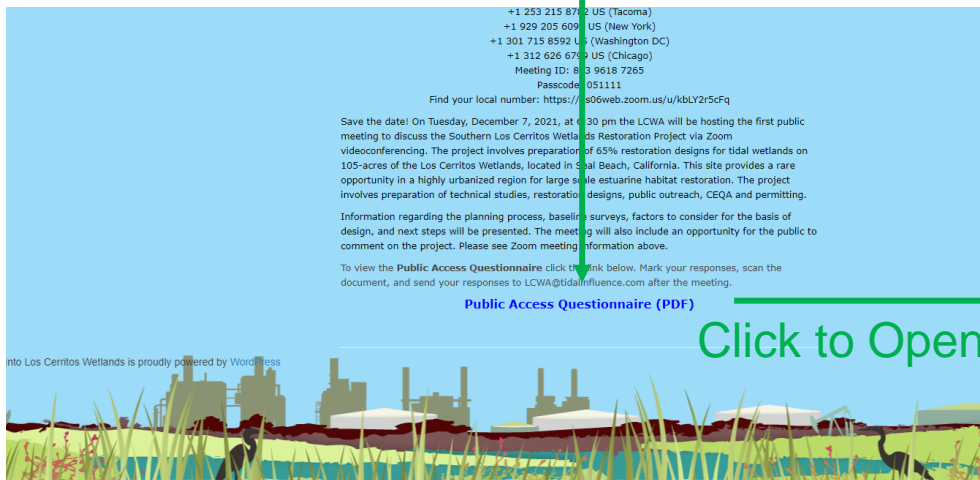
Post-Workshop Survey

- A multiple-choice questionnaire has been posted on the LCWA's website
- The questionnaire is focused on public access and asks responders to rank the 4 trail alternatives just presented
- Survey can be accessed via the web:
 - <https://intoloscerritoswetlands.org/southern-los-cerritos-wetlands-restoration-project/>
- Completed surveys can be submitted to:
 - lcwa@tidalinfluence.com

The Questionnaire



Scroll Down to This Link



Southern Los Cerritos Wetlands Restoration Project

Public Access Questionnaire
Public Meeting #1
December 7, 2021

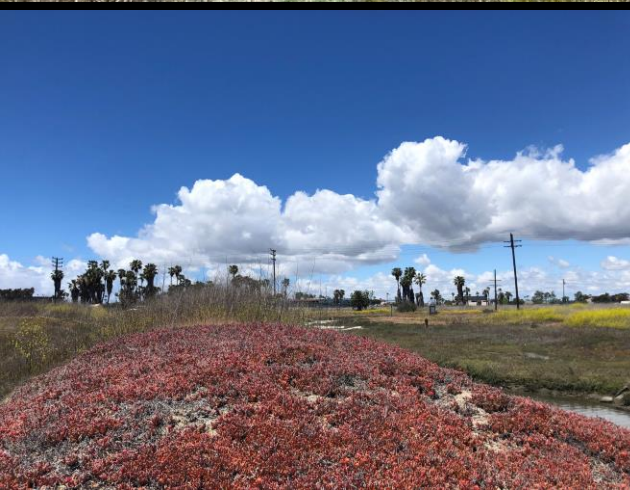


1. What open space areas in the Alamitos Bay and/or Seal Beach areas do you most frequent (choose up to 3)?
 - a. Los Cerritos Wetlands
 - b. Colorado Lagoon
 - c. Marine Stadium
 - d. Jack Dunster Marine Reserve
 - e. Beaches
 - f. Gum Grove Park
 - g. Heron Pointe Cultural Trail
 - h. San Gabriel River bike trail
 - i. Other
2. How frequently do you recreate in the open spaces of the Alamitos Bay and/or Seal Beach areas?
 - a. 0-5 times per year
 - b. 6-10 times per year
 - c. Once a month
 - d. Several times a month
3. When you are enjoying the open space areas in the Alamitos Bay and/or Seal Beach areas, what are your top three favorite activities (choose 3).
 - a. Bird watching
 - b. Walking/hiking
 - c. Dog walking
 - d. Bicycling
 - e. Photography/art
 - f. Meditation
 - g. Cultural ceremonies
 - h. Prayer
 - i. Reading
 - j. Swimming
 - k. Running
 - l. Yoga
 - m. Sports (like a pick-up game or similar)
 - n. Clean-ups/restoration events
 - o. Other


Questions?



Next Steps



Next Steps

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- Post-meeting questionnaire
 - Ongoing Tribal consultation
 - Additional baseline data acquisition
 - Production of 30% level design drawings
 - Ongoing public outreach & agency coordination

Additional information:
www.intoloscerritoswetlands.org

