CALIFORNIA ENVIRONMENTAL QUALITY ACT INITIAL STUDY/NEGATIVE DECLARATION

The Department of Toxic Substances Control (DTSC) has completed the following document for this project in accordance with the California Environmental Quality Act (CEQA) [Pub. Resources Code, div. 13, § 21000 et seq] and accompanying Guidelines [Cal. Code Regs., tit. 14, § 15000 et seq].

PROJECT INFORMATION

PROJECT TITLE:		SITE CO	DING:	
Former Union Carbide Corporation Torrance Distribution Facility Remedial 4		400483		
Action Plan				
PROJECT ADDRESS:	CITY:		COUNTY	Y :
19500 Mariner Avenue	Torrance		Los Ange	eles
PROJECT SPONSOR:	CONTACT:		PHONE:	
The Dow Chemical Company	Audrey Sidebotto	om	780-998-	-5767
APPROVAL ACTION UNDER CONSIDERAT	ION BY DTSC:			
□ Initial Permit Issuance □ Permit Re	-Issuance	Permit Mod	ification	Closure Plan
□ Removal Action Workplan ⊠ Remedial	Action Plan	Interim Rem	noval	Regulations
Corrective Measure Study/Statement of Ba	asis	Other (spec	ify):	
STATUTORY AUTHORITY:				
□ California H&SC, Chap. 6.5 □ California	H&SC, Chap. 6.8	⊠ Other	(specify):	Voluntary Cleanup
Agreement, pursuant to H&SC section 25355.	.5(a)(1)(C)		,	
DTSC PROGRAM/ADDRESS:	CONTA	CT:		PHONE:
Site Mitigation and Restoration Program, \$	5796 Joe Hwo	ong		714-484-5449
Corporate Avenue, Cypress, California 90630)	_		

PROJECT DESCRIPTION:

OVERVIEW OF THE PROJECT

The California Department of Toxic Substances Control (DTSC) proposes to implement the Remedial Action Plan (RAP) for the former Union Carbide Corporation (UCC) Torrance Distribution Facility (proposed project). A RAP is a document that details the steps to be taken in the implementation of the selected remedial response actions at a site in order to remediate environmental conditions. The RAP would be implemented under the terms of UCC's Voluntary Cleanup Agreement with DTSC and would include a combination of remedial activities including in-situ geochemical stabilization, soil vapor extraction, shallow soil excavation, and institutional controls in the form of restrictive land use covenants along with natural attenuation processes.

The purpose of the proposed project is to address the identified contaminants of concern concentrations in the soil, soil vapor, and groundwater to levels to protect human health and the environment, consistent with the current and anticipated future commercial/industrial worker uses of the property.

Historical investigations and sampling, along with ongoing groundwater monitoring analytical data have established that hazardous materials such as benzene, naphthalene, dripolene (a dense non-aqueous phase liquid [DNAPL]), and arsenic are impacting soil and/or groundwater at the project site. Based on the results of historical investigations and ongoing groundwater monitoring at the project site, shallow soil and the perched groundwater zone are the focus of remedial actions. Perched groundwater is groundwater occurring in a saturated zone separated from the main body of groundwater by a perching unit comprised of lower permeability silts and clays. The main body of groundwater located deep beneath the project area is the Gardena-Gage aquifer. To date, no groundwater monitoring data has indicated any impacts to the underlying Gardena-Gage aquifer.

PROJECT LOCATION & SETTING

The proposed project would be located in an industrial area in the City of Torrance, in the County of Los Angeles. The existing 37-acre Torrance Distribution Facility is located at 19500 Mariner Avenue (Assessor's Parcel Number: 7352-001-

030) and is owned by the Union Carbide Corporation (UCC), a wholly owned subsidiary of The Dow Chemical Company. The project site consists of a 13.8-acre area within the southeastern portion of the larger facility.

UCC operated the 37-acre Torrance Distribution Facility as a terminal and distribution center. The facility was built in 1956 for polyethylene manufacturing. Also included was ethylene glycol production, blending, canning and distribution operations, and a chemical and plastics receiving and distribution operation. The glycol production unit was demolished in 1969. The facility served predominately as a polyethylene and ethylene glycol (anti-freeze) manufacturing facility from 1956 until 1982 when manufacturing operations were discontinued and much of the facility was decommissioned, sold, and redeveloped. The ethylene glycol blending, canning, and distribution operation was sold and is still in operation by the current owner. The remainder of the facility currently consists of a mostly inactive terminal and distribution center. Portions of the facility are leased to the ethylene glycol blending, canning, and distribution operator for storage of ethylene glycol. This operation also stores pallets of new anti-freeze. Other portions of the facility are leased to a local automotive dealership for storage of dealership inventory.

The 13.8-acre project site is accessed via Mariner Avenue and a private roadway, or the Burlington Northern and Santa Fe (BNSF) Railway Company railroad spur, which is located within the western boundary of the project site. A majority of the project site is covered with impervious surfaces (i.e., paved areas), with a smaller amount of area covered with gravel. The project site is divided into four Areas for the implementation of the RAP (see Figure 1).

The 0.8-acre Area 1 is located in the easternmost corner of the project site. This is the smallest of the four Areas and currently includes a decommissioned Heil Separator formerly used for the separation of oil and water associated with ethylene production, surrounding bushes and other small vegetation, and a segment of BNSF Railway Company railroad spur.

The 4.8-acre Area 2 is located in the central and northern portion of the project site, and includes vehicle storage for local automotive dealerships, small accessory buildings, a large above ground storage tank (Tank 26), and a small above ground storage tank.

The 2.4-acre Area 3 is located in the central and southwestern portion of the project site and includes storage areas and a segment of BNSF Railway Company railroad spur.

The 5.8-acre Area 4 is located in the central and southeastern portion of the project site, and includes two large and one small aboveground storage tanks, vehicle storage for local automotive dealerships, small accessory buildings, storage areas, and a segment of BNSF Railway Company railroad spur.

In addition to the four Areas, the project site is also divided into two large "parcels" (see Figure 1). Parcel B encompasses the northern half of the project site, including all of Area 1 and Area 2, as well as small segments of the northern portions of Area 3 and Area 4. Parcel C encompasses the southern half of the project site, including a majority of Area 3 and Area 4. There are three petroleum pipelines located in an easement running north-south across the western edge of Parcels B and C.

The perched zone groundwater beneath the project site is typically encountered at depths of approximately 50 feet to 60 feet below ground surface (bgs). This perched or separated zone of groundwater is shallower than the deeper underlying Garden-Gage aquifer groundwater, which is typically encountered at depths of approximately 80 feet to 90 feet bgs.

The project site is generally bound by Mariner Avenue, a private roadway, other portions of the distribution facility, and other manufacturing, industrial, and office uses to the west; the BNSF Railway Company railroad right-of-way on the north and northeast; an approximately 50-foot-deep City of Torrance unlined stormwater basin on the east and south; a storage facility and the Pioneer Avenue cul-de-sac on the east; and office buildings and a surface parking lot on the south. Groundwater monitoring has shown the city-owned stormwater basin to have an effect on the perched groundwater beneath the project site and larger facility. The project site is nearly fully fenced off from the public and can be accessed by workers via Mariner Avenue and the private roadway on the west.

According to the Los Angeles County Department of Regional Planning land use map, the existing UCC Torrance facility, including the proposed project site, is designated as Industrial use. Areas adjacent to the proposed project site are designated as Industrial use to the north, east, south, and west, with the exception of one parcel designated as Commercial use to the west.

At a local level, according to the City of Torrance General Plan, the proposed project site is designated as "I-BP" (Business Park); land uses adjacent to the proposed project site are designated I-BP to the north, "I-LT" (Light Industrial) to the east, "PUB" (Public/Quasi-Public/Open Space) to the southeast, and I-BP to the south and west. The proposed project site is zoned as "M2" (Heavy Manufacturing), as are all adjacent parcels. The BNSF railroad right-of-way is immediately north and east of the project site. Also, to the east is the City of Torrance stormwater retention basin, and to the southeast is a storage warehouse and parking lot. To the south and west are various manufacturing and commercial properties.

PROJECT BACKGROUND

Prior investigative work at the project site identified components of Dripolene as the constituents of potential concern associated with the decommissioned Heil Separator (Area 1). Dripolene is a pyrolysis fuel oil-water emulsion liquid (i.e., a waste sludge) that was generated along with quench water during the thermal cracking process to produce ethylene for polyethylene production and during the compression of ethylene gas in the polyethylene manufacturing process. Area 1 was utilized for the separation of the Dripolene from the quench water. Water effluent from this oil-water separator drained continuously to the county sewer trunk line, which discharged to the publicly owned treatment works. Oil (Dripolene) and sludges were recovered, stored in on-site aboveground storage tanks, and periodically pumped out for off-site disposal. Dripolene was produced in Area 1 from 1971 (when the facility upgraded its wastewater collection and treatment system) until 1982 (when manufacturing was discontinued). A subsequent Remedial Investigation (RI) indicated that a release of Dripolene had occurred in Area 1. From the RI, individual constituents of potential concern at the site, which are components of Dripolene, were identified to include select volatile organic compounds (VOCs), semi-volatile organic compounds, and DNAPL within soil and perched groundwater beneath the site. Deeper groundwater located within the Gardena-Gage aquifer has not been impacted by Dripolene but has been found to contain VOCs consistent with regional plume contaminants.

Environmental investigation and remediation activities have been performed at the project site and larger facility since 1972. Activities performed since 2000 are briefly summarized below. Further technical information can be found within the RAP and the DTSC's EnviroStor database report of the project site.

After completion of the RI in 2000 and a Baseline Human Health Risk Assessment (HHRA) in 2002, a Focused Feasibility Study was completed to evaluate potential remedial alternatives for the Heil Separator area (Area 1). The feasibility study recommended selection of a deed restriction, enhanced DNAPL recovery, and monitored natural attenuation (MNA) or other in-situ technologies as the most appropriate remediation approach for the Heil Separator area. Based on the recommendations in the feasibility study, a Remedial Action Work Plan for the Heil Separator area was prepared under the oversight of DTSC and was finalized and approved on July 1, 2004. UCC began implementation of the tasks described in the Remedial Action Work Plan shortly after its approval, including groundwater monitoring, pilot testing of an automated DNAPL recovery system, and cone penetration test borings and installation of an additional perched zone groundwater monitoring well.

UCC completed an *Additional Site Assessment Work Plan* dated November 13, 2008, which included the completion of a soil vapor assessment, membrane interface probe assessments, and a laser-induced fluorescence assessment. The results suggested that possible source areas for VOCs, primarily benzene, are located beneath the project site at a depth from approximately 15 to 22 bgs. Results also showed that subsurface impacts begin at approximately 10 to 12 feet bgs, suggesting a release from a subsurface feature rather than a surface release.

UCC subsequently prepared the *Revised Final - 2011 Additional Site Assessment Work Plan* dated March 31, 2011. UCC completed implementation of the 2011 work plan in January 2013. Soil sampling for background metals analysis (minus arsenic) was conducted and an additional groundwater monitoring well was established.

UCC next prepared the *Revised 2013 Site Assessment Work Plan*. UCC completed implementation of the scope of work outlined in the Work Plan as of March 31, 2015. Results of this work were submitted to DTSC in the *2015 Site Assessment Summary Report and Human Health Risk Assessment (HHRA)*. Nine soil vapor probe sets and thirteen groundwater monitoring wells (ten in the perched zone and three in the Garden-Gage aquifer) were installed.

The HHRA evaluated potential health risk to current and future human receptors at Areas 1, 2, 3, and 4 in Parcels B and C at the project site. Recommendations from the HHRA stated that: 1) Clean-up (remediation) goals be calculated to be protective of commercial/industrial workers for arsenic in Soil; 2) land use and institutional controls (such as landscaping, covering with clean fill, or paving) may cut off the exposure pathways to soil for the future on-site commercial/industrial worker; and 3) require a health and safety plan or similar document to protect construction/excavation worker exposures to soil and soil vapor in the event of site redevelopment or soil intrusive excavations.

In accordance with the recommendations presented in the 2016 Five-Year Review Report two additional perched zone groundwater monitoring wells and a soil vapor probe set were installed.

In 2017, an assessment of the biogeochemical conditions in the saturated zone and the unsaturated zone of the site was completed to determine whether biodegradation was occurring. As a result, vapor monitoring wells and additional groundwater monitoring wells were installed.

UCC has completed a total of 23 additional groundwater sampling events since 2006, and groundwater monitoring continues to be performed on a semi-annual basis. Groundwater samples are analyzed for VOCs, semi-volatile organic compounds, and total petroleum hydrocarbons. The results of each sampling event were reported to DTSC.

The perched zone groundwater is typically encountered at depths of approximately 50 feet to 60 feet bgs. The City of Torrance Stormwater Basin located adjacent to the east and south of the project site affects the groundwater level and flow direction of the perched zone groundwater. The perched zone appears to pinch out to the west of the project site. The primary constituents in the perched zone groundwater are benzene and naphthalene. The naphthalene appears to originate primarily from the DNAPL beneath the Heil Separator, located on the east side of the project site. Analysis of a sample of the DNAPL collected from beneath the Heil Separator area showed it to be 49 percent naphthalene, but only 0.8 percent benzene. The source of the benzene is less clear. The low percentage of benzene in the DNAPL does not appear to be sufficient to account for the benzene plume observed in the perched zone groundwater. Some of the benzene may have originated from the Torrance Refinery located just to the east of the project site, east of the BNSF Railway Company right-of-way. In addition, there are three petroleum pipelines located in an easement running northsouth across the western edge of Parcels B and C, and results of groundwater monitoring appears to indicate two benzene "hot spots" centered on this pipeline easement.

The Garden-Gage aguifer groundwater is typically encountered at depths of approximately 80 feet to 90 feet bgs. The perched zone and Gardena-Gage aquifer are separated by a layer of lower permeability silt and clay. Benzene and naphthalene have not been detected in samples of the Gardena-Gage groundwater collected to date.

PROJECT OBJECTIVES

The objectives of the proposed project are to:

- To develop and implement remediation at the project site to reduce the concentrations of contaminants of concern in soil, soil gas, and groundwater to levels that are protective to human health and the environment; and
- To implement remediation activities that are consistent with the current and anticipated future commercial and/or industrial worker uses of the property.

PROJECT CHARACTERISTICS

The former UCC Torrance Distribution Facility RAP (proposed project) details the steps to be taken in the implementation of the selected remedial response actions at the project site in order to improve environmental conditions. The RAP would be implemented under the terms of UCC's Voluntary Cleanup Agreement with DTSC and would include a combination of various remedial activities in each of the four Areas of the project site, as described below and summarized in Table 1.

Remed	liation Activity Pr	oposed			
	In-Situ	Soil Vapor	Excavation and	Restrictive	Long-Term
Area	Geochemical	Extraction ²	Disposal of	Land Use	Natural
	Stabilization ¹		Soils ³	Covenants ^₄	Attenuation ⁵
1	Х			Х	Х
2		Х	Х	Х	Х
3		Х		Х	Х
4			Х	Х	

Definitions:

¹ In-Situ Geochemical Stabilzation (ISGS): Stabilizing contaminants in place.

² Soil Vapor Extraction (SVE): In-situ (in place) soil venting or vacuum extraction based on the transfer of contaminant from the solid and/or liquid phases the gas phase, with subsequent collection of the gas at extraction wells.

³ Excavation and Disposal of Soils: Digging up contaminated soils and transfering soils off-site to qualified disposal facility via trucks.

⁴ Restrictive Land Use Covenants: Legal agreement recorded on the property to assure that it is not used for residential or other sensitive receptor purposes in the future.

⁵ Long-Term Natural Attenuation: relies on natural processes such as biodegradation, dispersion, dilution, volatilization, hydrolysis, sorption and chemical or biological transformation to attenuate the constituents of potential concern and achieve the established corrective action objectives.

Proposed In-Situ Geochemical Stabilzation to Remediate Dripolene - Area 1

Environmental conditions requiring remediation in Area 1 consist of Dripolene (DNAPL) releases to soil and perched zone groundwater. Dripolene is a pyrolysis fuel oil-water emulsion liquid that was generated along with guench water during the thermal cracking process for ethylene production. Area 1, encompassing the decomissioned Heil Separator, located UCC Torrance RAP Draft IS/ND - July 2021 4

in the eastern portion of the project site was previously utilized for the separation of the dripolene from the quench water. Current soil and groundwater data suggest that DNAPL is present in the subsurface beneath the Area 1 in and around the Heil Separator and that the DNAPL impacts are also likely impacting downgradient groundwater with elevated levels of naphthalene. Therefore, addressing Area 1 would not only mitigate the mobility of DNAPL in the subsurface but serve to reduce downgradient dissolved groundwater impacts and enhance the effectiveness of the ongoing natural attenuation of naphthalene.

The primary remedial action proposed to be implemented in Area1 is in-situ geochemical stabilization (ISGS) in the area of the decomissioned Heil Separator in order to mitigate DNAPL impacts through the immobilization/sequestration of mobile DNAPL and the reduction of mass flux from the DNAPL into the dissolved phase. The implementation of ISGS would involve the emplacement of a permanganate-based amendment designed to promote the development of a mineral coating around the DNAPL in order to 1) immobilize and mitigate the dissolution of contaminants from the DNAPL; 2) reduce the subsurface permeability and subsequent mass flux of dissolved phase groundwater impacts; and 3) provide for ongoing natural attenuation processes to act on the downgradient naphthalene impacts.

The implementation of ISGS would essentially constrain the current observed impacts to the on-site property, potentially enhance the downgradient natural attenuation of naphthalene, and provide for the protection of human health and the environment. Other components of the proposed remediation activities in Area 1 include the establishment of institutional controls in the form of restrictive land use covenants, and incorporation of monitored natural attenuation to evaluate the ongoing natural attenuation processes that have been demonstrated in the subsurface within the perched zone groundwater downgradient of the decommissioned Heil Separator.

Proposed Soil Vapor Extraction to Remediate Benzene - Area 2 and Area 3

Environmental conditions requiring remediation in Area 2 and and Area 3 consist of benzene plumes in the perched zone groundwater centered on monitoring well MW-17 in Area 2 and monitoring well MW-25 in Area 3 (see Figure 2). Although the source of the benzene plumes has not been fully determined, the observed plumes coincide with a petroleum pipeline easement running north-south across the project site.

The primary remedial action proposed to be implemented in Area 3 consists of soil vapor extraction (SVE) in the westerncentral portion of Parcel C to mitigate the potential vapor intrusion and/or off-site dissolved phase benzene groundwater impacts. The implementation of this component would initially be a pilot demonstration using a segmented horizontal well to target focused areas of benzene impacts in the unsaturated and saturated zone. Area 3 was selected as the pilot area because the benzene impacts are more limited than in Area 2. The Area 3 SVE system would also constrain the current observed impacts to the on-site property and enhance the protection of human health and the environment. The proposed SVE in Area 2 would be implemented in the western-central portion of Parcel B. The implementation of this component in Area 2 would be refined based on the pilot demonstration SVE system in Area 3. Area 2 would likely require multiple horizontal wells. As such, the data from the Area 3 pilot demonstration would be used to develop this full-scale application, should it be warranted. The Area 2 SVE system would be designed to essentially constrain the current observed impacts to the on-site property and enhance the protection of human health and the environment. In both Areas 2 and 3, the implemented remedy would also include the establishment of institutional controls, through restrictive land use covenants, and long-term natural attenuation to manage the benzene impacts in the perched zone groundwater downgradient of the project site.

Proposed Excavation and Disposal to Remediate Arsenic Soils and Naphthalene Soils - Area 2 and Area 4 (respectively)

Environmental conditions requiring remediation in Area 2 also consists of arsenic levels above its target cleanup goal in shallow soil. In Area 2, remediation would consist of the excavation and disposal for the arsenic-impacted soils, as well as the establishment of institutional controls, through restrictive land use covenants.

Similar to Area 2, environmental conditions requiring remediation in Area 4 consist of naphthalene levels above its target cleanup goal in shallow soil. In Area 4, remediation would also consist of excavation and disposal for the limited volume of naphthalene-impacted soil and the establishment of institutional controls, through restrictive land use covenants.

Institutional controls, primarily in the form of land use covenants (LUCs), would be a component of the remedial action for the project site. Developed LUCs would be recorded on the property to assure that it is not used for residential or other sensitive receptor purposes in the future. Instituational control in the form of long-term natural attenuation would accompany remediation activities at Area 1, Area 2, and Area 3. This form of control relies on natural processes such as biodegradation, dispersion, dilution, volatilization, hydrolysis, sorption and chemical or biological transformation to UCC Torrance RAP Draft IS/ND – July 2021

attenuate the constituents of potential concern and achieve the established corrective action objectives, and measures the success of the prior in-situ and SVE activities.

Operation and Maintenance Activities

Once remediation activities are completed minor operation and maintenance activities would occur related to the installed SVE system. These activities would require approxiately one technician to visit the project site once per week on average.

CONSTRUCTION SCENARIO

Construction of the entire proposed RAP is expected to last for approximately 16 months, with the activities staggered into approximately 6 phases including initial excavations and installations, ongoing site activity related to operation and maintenance of the pilot system, additional investigations, possible expansions, and work plans associated with the SVE and ISGS remedies that would occur during that time period. The phases and respective anticipated timeframes are described below. The phases and timeframes described are preliminary and are estimated only for purposes of the environmental analysis.

Phase I

The first phase is anticipated to begin in approximately the third quarter 2021. This phase will include shallow soil excavations and pre-design investigations for the SVE pilot system. It is anticipated that this phase will take approximately two weeks to complete. For excavation, approximately five to eight construction workers would be on site each day.

Phase II

This phase would begin in approximately the fourth quarter of 2021 and would include the installation of the SVE pilot system in Area 3. It is anticipated that this phase would take approximately two months to complete. The installation would overlap with developing the implementation workplan for the ISGS component, including additional investigations. For the SVE pilot testing, approximately three to four construction workers per day would be required for well installation, with approximately six to eight workers required for the system installation.

Phase III and Phase IV

Phase III would begin during approximately the first quarter of 2022 and continue into Phase IV during approximately the second quarter of 2022. These phases would involve the operation of the SVE pilot system and the completion of permitting for ISGS. It is anticipated that these phases would take approximately six months to complete.

Phase V

This phase would take place during approximately the third quarter of 2022 and would involve the implementation of the ISGS remedy. Pending results from the pilot tests, this phase could overlap with the potential design of a full SVE system. For the ISGS implementation, approximately five to eight construction workers per day would be required for installation.

Phase VI

The final phase would take place during approximately the fourth quarter of 2022. This phase would include the installation of the SVE system in Area 2. It is anticipated that this phase would take approximately two months to complete and would require approximately three to four construction workers per day for well installation, with approximately six to eight workers required for the system installation.

The anticipated number of equipment is approximately 15 pieces. The anticipated types of equipment would include trackmounted excavator, rubber tire loader, end dump transport truck, vehicle-mounted direct-push drill rig, hollow-stem auger drill rig, cement-mixing truck, fork-lift, and mixing trailer. It is expected that most of the equipment would be mobilized to the project at the start of each phase and would remain on site for most of the project duration, which would minimize daily travel to and from the site.

An estimated 15 to 18 total haul truck trips are anticipated. The estimated total excavation would be approximately 150 cubic yards, with a maximum depth of 3 feet at Area 1 and 7.4 feet at Area 4.

The proposed haul route from the project site to Clean Harbors' Landfill in Buttonwillow is as follows: trucks shall exit the project site from the western gate along Mariner Avenue; travel south on Mariner Avenue toward Del Amo Boulevard; turn left onto Prairie Avenue then turn left onto Redondo Beach Boulevard; turn right to merge onto Interstate 405 (I-405) North and in 32 miles merge onto Interstate 5 (I-5) North; in 98.6 miles take exit 257 and turn right onto Tracy Avenue, then right onto California State Route (CA-58) West, then right onto Lokern Road, then turn right onto Delfern Road to enter the landfill.

Construction activities would occur Monday through Friday between 7:00 a.m. and 5:00 p.m., Monday through Friday. Weekend work is not anticipated. In addition, street closures and tree removal are not anticipated.

Soil Management

If the impacted soils are profiled prior to being excavated, based on existing analytical data, they will be directly loaded into the transport trucks. Otherwise, the impacted soils will be stockpiled on plastic at a designated location on the project site and, once profiled, will then be loaded into the transport trucks for disposal at the selected disposal facility. The contractor will be given the option to propose alternative ways of excavating and handling the impacted soils but will seek concurrence from AECOM before implementation.

If excavated soils are stockpiled, they will be handled as follows:

- The temporary stockpiles will be placed on plastic sheeting (6 millimeters) and kept moist during working hours and covered with plastic sheeting at the end of the day to control dust. Naphthalene-contaminated stockpiles will be placed on plastic sheeting and immediately covered with plastic sheeting. The edges of the plastic will have an overlap of at least 24 inches. The plastic will be secured at the base of the stockpile and along the seams of overlapping plastic sheeting with sandbags or equivalent means. The stockpiles will remain covered until loadout.
- Daily inspection of the stockpiles will be conducted to verify the integrity of stockpile cover. Any gaps, tears, or other deficiencies will be corrected immediately. Daily records will be kept of stockpile inspections and any repairs made.
- During stockpile generation and removal, only the working face of the stockpile will be uncovered.

Trucks may be loaded directly from the excavation or from temporary stockpiles, based on truck availability. When loading trucks, the equipment operator will minimize drop heights and resulting dust generation. Water will be used during loading operations, as necessary, to control fugitive dust emissions.

Trucks will be routed, and the stockpile areas will be located so as to avoid having trucks pass through impacted areas. The transport truck loads will be wetted and tarped prior to exiting the project site. All soil hauled from the site will comply with the following:

- Materials will be transported to an approved treatment/disposal facility.
- No excavated material may extend above the sides or rear of the truck/trailer.
- Prior to covering/tarping, the surface of the loaded impacted soil will be moistened.
- Trucks/trailers carrying impacted soils will be completely tarped/covered to prevent particulate emissions to the atmosphere.
- The exterior of the trucks/trailers shall be inspected and cleaned off, if needed, prior to leaving the project site to eliminate tracking of material offsite.

The contractor will implement a fugitive dust suppression and air monitoring program. The primary purpose of the dust suppression and air monitoring program will be to monitor the level of particulates in the air at and near the project site during remedial activities; and, based on the levels, adjust dust suppression measures to minimize the dust generated during the work. The selected remedy will follow South Coast Air Quality Management District (SCAQMD) regulations for fugitive dust control and be protective of human health and the environment by reducing the potential for exposure to the constituents of potential concern in soil. Potential dust control measures include:

- Dust suppression will be performed by lightly spraying or misting the active work areas and other points of dust generation with water, as needed. Water mist may also be used on soil placed in the transport trucks.
- Temporary soil stockpiles will be kept moist during working hours and covered with plastic sheeting at the end of the day to control dust. The stockpiles will remain covered until loadout.
- Efforts will be made to minimize the soil drop height from the loader bucket into the transport trucks.

- Work will be stopped when wind gusts exceed approximately 25 miles per hour. After the soil is loaded into the transport trucks, the soil will be covered to prevent soil from blowing or spilling out of the truck during transport to the disposal facility.
- While on the property, all vehicles will maintain slow speeds (i.e., less than 5 miles per hour) for safety purposes and for dust control measures.
- Daily wet-sweeping of paved access roads, parking areas, or staging areas.
- Daily wet-sweeping public streets if visible soil material is carried from the project site.
- Limiting traffic speeds on unpaved roads to 15 miles per hour.
- Covering and protecting with wattles loose stockpiled construction materials (including clean soil) that are not being actively used against rain and wind. Active use is defined as materials that are scheduled for use within 14 days.
- Posting a publicly visible sign with the project contact name and telephone number for dust complaints. This
 person shall respond and take corrective action within 48 hours. The SCAQMD phone number shall also be visible
 to ensure compliance with applicable regulations.
- Performing air monitoring as described in this plan.
- Prior to exiting the site, the transport truck drivers will be required to stop and inspect the tires and sides of their trucks for loose soil debris. Extra soil will be removed using a wire brush or broom as deemed appropriate. This cleanup/decontamination area will be setup as close to the loading area as possible to minimize spreading the impacted soil.
- Haul trucks transporting contaminated soils offsite will be tarped before leaving the project site.
- Site runoff generated by application of water for dust control shall be minimized and controlled according to the SWPPP.

In addition to controlling fugitive dust, the measures listed above will assist in controlling vapors and odors potentially emanating from the stockpiles. If necessary, further measures to control odor and vapor may include:

- Adding a non-toxic commercial suppressant (i.e., Simple Green®) to the dust control water spray. Foam suppressant may also be used as necessary to control vapors and odors.
- Minimizing unnecessary movement or agitation of the soil that may cause the uncontrolled evaporation of VOCs into the atmosphere, including the reshaping or relocation of stockpiles.
- At the end of each working day, all stockpiles shall be completely covered and securely anchored to prevent any exposure of soil to the atmosphere. Vapor monitoring, discussed further below, will be conducted in accordance with the Rule 1166 Various Locations Soil Mitigation Plan and the Health and Safety Plan (HASP). Odors will be monitored using worker perception.

Environmental Monitoring

Airborne dust monitoring will be conducted by AECOM to verify dust suppression activities and document that the loading activities are being done in accordance with SCAQMD Rule 403 (fugitive dust). The monitoring will be conducted using a portable hand-held dust monitor. Fugitive dust control measures will be implemented at the site to mitigate offsite dust migration onto neighboring properties through light watering of the active work areas throughout the load-out activities. Air monitoring for dust will be performed in the worker's breathing zone, in the general work area, and at designated areas along the perimeter upwind and downwind of the work area. During soil handling activities, dust monitoring will be conducted in each area approximately every 30 minutes, or more often if visible dust is observed, using a hand-held dust meter.

In addition to dust monitoring, organic vapor monitoring will be conducted in accordance with the RAP, and the sitespecific HASP and SCAQMD Rule 1166 requirements. Upon detection of VOC-contaminated soil (photo ionization detector readings of 50 ppm or greater as hexane), the SCAQMD will be notified by the contractor within 24 hours of the first detection of VOC contamination, as required by Rule 1166. If photo ionization detector readings exceed 1,000 parts per million (ppm) as hexane, the SCAQMD will be notified immediately (within one hour) of the first detection, as required by Rule 1166.

Health and safety monitoring for remediation construction workers will consist of both dust monitoring and organic vapor monitoring in the breathing zone in accordance with the provisions contained in the HASP.

PUBLIC AGENCIES WHOSE APPROVAL IS REQUIRED: (e.g., State Agencies, Counties, Cities, or Air Quality Districts, granting permits, financing approval, or participation agreement.)

- State of California Department of Toxic Substances Control
- State of California Water Resources Control Board
- City of Torrance
- South Coast Air Quality Management District

NATIVE AMERICAN CONSULTATION: Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.

In accordance with Assembly Bill 52, DTSC has contacted potentially interested Native American tribal representatives in the project area in order to inform them of the proposed project and to request input on the potential cultural sensitivity of the project area. A review of the Sacred Lands File search, according to the Native American Heritage Commission (NAHC) (requested November 13, 2020 by DTSC Tribal Affairs) returned *negative* results (December 16, 2020) for the immediate area of the project site. The NAHC also provided a list of eight Native American contacts representing the different Tribal groups historically and culturally affiliated with the geographic area of the site. The Office of Environmental Equity – Tribal Affairs sent Tribal engagement letters (February 3, 2021) to the eight identified contacts providing detailed information on the proposed remedial activities associated with the site. DTSC Tribal Affairs received no response regarding interest or concerns associated with the project.

Note: Please see the Tribal Cultural Resources Section (Section 18) for additional information.

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A AIR QUALITY, GREENHOUSE GAS, AND ENERGY MODELING OUTPUTS

B BIOLOGICAL RESOURCES DATABASE OUTPUT

C CULTURAL RESOURCES RECORDS SEARCH RESULTS (CONFIDENTIAL)

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact," as indicated by the checklist beginning on page 14. Please see the checklist beginning on page 14 for additional information.

Aesthetics	Agriculture and Forestry		Air Quality
Biological Resources	Cultural Resources		<u>Energy</u>
<u>Geology/Soils</u>	Greenhouse Gas Emissions		Hazards and Hazardous Materials
<u>Hydrology/Water</u> Quality	Land Use/Planning		Mineral Resources
Noise	Population/Housing		Public Services
Recreation	<u>Transportation</u>		Tribal Cultural Resources
<u>Utilities/Service</u> <u>Systems</u>	<u>Wildfire</u>		Mandatory Findings of Significance

DETERMINATION

On the basis of this initial evaluation:

\boxtimes	I find that the proposed project COULD NOT have a significant effect on the environment, and
	a NEGATIVE DECLARATION will be prepared.
	I find that although the proposed project could have a significant effect on the environment,
	there will not be a significant effect in this case because revisions in the project have been
	made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will
	be prepared.
	I find that the proposed project MAY have a significant effect on the environment, and an
	ENVIRONMENTAL IMPACT REPORT is required.
	I find that the proposed project MAY have a "potentially significant impact" or "potentially
	significant unless mitigated" impact on the environment, but at least one effect 1) has been
	adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has
	been addressed by mitigation measures based on the earlier analysis as described on attached
	sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the
	effects that remain to be addressed.
	I find that although the proposed project could have a significant effect on the environment,
	because all potentially significant effects (a) have been analyzed adequately in an earlier EIR
	or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided
	or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or
	mitigation measures that are imposed upon the proposed project, nothing further is required.

CERTIFICATION

I hereby certify that the statements furnished above and in the attached documentation, present the data and information required for this initial study evaluation to the best of my ability and that the facts, statements and information presented are true and correct to the best of my knowledge and belief.

Joe Hwong Signature		July 6, 2021 Date	
Joe Hwong, P.G., C.HG.	DTSC Project Manager	714-484-5449	
Name	Title	Phone #	

EVALUATION OF ENVIRONMENTAL IMPACTS

- 1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be crossreferenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analysis Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
 - a) the significance criteria or threshold, if any, used to evaluate each question; and
 - b) the mitigation measure identified, if any, to reduce the impact to less than significance

ENVIRONMENTAL IMPACT ANALYSIS

1. AESTHETICS				
Except as provided in Public Resources Code Section 21099, would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?				\boxtimes
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?				
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				

REGULATORY SETTING (LAWS, ORDINANCES, REGULATIONS, STANDARDS):

State

• Scenic Highways Program: California's Scenic Highway Program was created by the Legislature in 1963. Its purpose is to protect and enhance the natural scenic beauty of California highways and adjacent corridors through special conservation treatment. State laws governing the Scenic Highway Program are found in the Streets and Highways Code, Sections 260 through 263. A highway may be designated scenic depending upon how much of the natural landscape can be seen by travelers, the scenic quality of the landscape, and the extent to which development intrudes upon the traveler's enjoyment of the view. The California Department of Transportation (Caltrans) defines a State Scenic Highway as any freeway, highway, road, or other public right-of-way that traverses an area of exceptional scenic quality.

ENVIRONMENTAL SETTING (BASELINE):

The project site consists of 13.8 acres within the UCC Torrance facility grounds, a level, approximately 37-acre property located at 19500 Mariner Avenue in Torrance, California. The site is accessed via Mariner Avenue and a private roadway, or the BNSF Railway Company rail spur. There are no officially designated State Scenic Highways in the project area.

The project site is within a generally developed, industrial area surrounded by facilities used for manufacturing, distribution, and storage, as well as commercial uses and accessory parking. A large, approximately 50-foot deep, unlined stormwater basin owned by the City of Torrance is also located to the east of the project site, just south of the site's Heil Separator. Collectively, the project site and surrounding properties are industrial in appearance, with minimal landscaping. There are no aesthetic resources within view of the project site.

Approximately 80 percent of the UCC Torrance facility is developed with buildings, roads, and paved areas. The remaining approximately 20 percent is generally covered with gravel. It is comprised of several single-story buildings and a number of aboveground storage tanks (ASTs) located on the property. In addition, there is a decommissioned oil-water separator (the Heil Separator) located on the east side of the facility, along with a concrete-lined stormwater basin. Portions of the facility are owned by an ethylene glycol blending, canning, and distribution operation, with additional space leased to the operation owner for the storage of ethylene glycol. Other portions of the facility are leased to a local automotive dealership for storage of dealership inventory. Remaining portions consist of an inactive terminal and distribution center owned by Hager Pacific Group. The project site is nearly fully fenced off from the public.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

Aesthetics, or visual resources, are the natural and cultural features of the landscape that can be seen and that contribute to the public's appreciative enjoyment of the environment. Visual resource or aesthetic impacts are generally defined in terms of a project's physical characteristics and potential visibility, light, and glare and the extent to which the project's presence would change the perceived visual character and quality of the environment in which it would be located.

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to aesthetic resources if it would:

- Have a substantial change in the overall visual character or quality has an adverse effect on viewer response.
- Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway.
- Conflict with applicable zoning and other regulations governing scenic quality.
- Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

No environmental studies were performed for this resource. Readily available information was reviewed for this assessment. Environmental investigation and remediation activities have been performed since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Have a substantial adverse effect on a scenic vista?

Impact Analysis: With the exception of construction equipment, the presence of which would be short-term, there are no new aboveground elements proposed by the project. New wells affiliated with proposed corrective action technologies, including SVE, would be constructed similar to existing wells and would be underground. Construction activity affiliated with excavation and disposal of soil would be temporary. Operation of the proposed project would be limited to the presence of project personnel for on-site testing and monitoring of various corrective action technologies. The project site is in a level, developed, industrial area and no official or designated scenic vistas or viewpoints are located in the project area. The project site is nearly fully fenced off from the public. The construction and operation of the proposed project would not be a part of a scenic vista.

Conclusion: No Impact.

b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

<u>Impact Analysis</u>: The proposed project is not located within a state scenic highway, and therefore would not damage any scenic resources, including trees, rock outcroppings, historical buildings along such a highway. Any vegetation and/or trees impacted during construction of the proposed project would be replaced as feasible, however tree removal is not anticipated. The proposed project would not substantially damage scenic resources.

Conclusion: No Impact.

c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Impact Analysis: Project activities associated with the proposed RAP do not have the potential to degrade the existing visual character of the site or its surroundings. With the exception of construction equipment, the presence of which would be short-term, there are no new aboveground elements proposed by the project. The existing view in the direction of the project site and the surrounding area is of a developed, industrial area which is not considered of high visual quality. The visual character of the proposed project would be visually compatible with existing environment, as such, viewers would have a low sensitivity to any visual changes resulting from the proposed project. The proposed project would not conflict with applicable zoning and other regulations governing scenic quality or visual character.

Conclusion: No Impact.

d. Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?

<u>Impact Analysis</u>: The proposed project would not create a new source of substantial light or glare that would adversely affect day or nighttime views in the area. Nighttime construction activities are not required with the proposed project, as such, nighttime construction lighting would not occur. The project does not propose to install new sources of light or glare, and operation of the RAP would not require the use of light that exceeds existing conditions. Light-sensitive land uses, such as residential uses, would not be significantly affected as the project site is surrounded by similar industrial and commercial uses.

Conclusion: No Impact.

References Used: 2, 12

2. AGRICULTURE AND FORESTRY RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				\boxtimes
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				\boxtimes
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				
d) Result in the loss of forest land or conversion of forest land to non-forest use?				\boxtimes
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				

REGULATORY SETTING (LAWS, ORDINANCES, REGULATIONS, STANDARDS):

Federal

Farmland Protection Policy Act: The U.S. Department of Agriculture (USDA) administers the Farmland Protection Policy Act of 1981. The act is intended to minimize the extent to which federal programs contribute to the unnecessary conversion of farmland to nonagricultural uses. The act also requires these programs to be compatible with state, local, and private efforts to protect farmland.

State

- California Civil Code Section 3482.5 (Right to Farm Act): The Right to Farm Act is designed to protect commercial agricultural operations from nuisance complaints that may arise when an agricultural operation is conducting business in a "manner consistent with proper and accepted customs." The code specifies that established operations that have been in business for three or more years that were not nuisances at the time they began are not to be considered a nuisance as a result of a new land use.
- California Land Conservation Act (Williamson Act): The Williamson Act of 1965 was designed as an incentive to retain prime agricultural land and open space in agricultural use, thereby slowing its conversion to urban and suburban development. The program requires a 10-year contract between the county and the landowner. While in contract, the land is taxed on the basis of its agricultural use rather than its market value. The land becomes UCC Torrance RAP Draft IS/ND - July 2021 16

subject to certain enforceable restrictions, and certain conditions need to be met prior to approval of an agreement. The goal of the Williamson Act is to protect agriculture and open space. The project site is not covered by Williamson Act or Farmland Security Zone contract. Therefore, no such contract aimed at retaining prime agricultural land and/or open space as agricultural use in order to slow its conversion to urban and suburban development affects the project site.

- California Land Evaluation Site Assessment Model (LESA): The USDA National Resources Conservation Service (NRCS) developed the LESA to assist state and local officials in making sound decisions regarding land use. Combined with forest measures and rangeland parameters, a LESA can provide a technical framework to numerically rank land parcels through local resource evaluation. In determining whether impacts to agricultural resources are significant environmental effects, the CEQA Guidelines reference the California Agricultural LESA Model prepared by the California Department of Conservation (DOC) as an optional methodology that may be used to assess the relative value of agriculture and farmland. The project site does not include existing agriculture or farmland.
- Farmland Mapping and Monitoring Program (FMMP): The FMMP, established in 1982, and implemented by and mapped by the California DOC, produces maps and statistical data used for analyzing impacts to the state's agricultural resources. Agricultural land is rated according to soil quality and irrigation status, with the best quality land called Prime Farmland. Maps are updated every two years, with current land use information gathered from aerial photographs, a computer mapping system, public review, and field reconnaissance. The minimum mapping unit is 10 acres. The DOC Prime Farmlands, Farmlands of Statewide Importance, and Unique Farmlands are referenced in CEQA Guidelines Appendix G as resources to consider in an evaluation of agricultural impacts. The project site does not include existing agriculture or farmland.

ENVIRONMENTAL SETTING (BASELINE):

The project site is within the UCC Torrance facility which is zoned "M2" (Heavy Manufacturing). Areas adjacent to the facility are also zoned M2. At a local level, according to the City of Torrance General Plan Land Use Policy, the project site is designated as "I-BP" (Business Park); land uses adjacent to the facility are designated I-BP to the north, "I-LT" (Light Industrial) to the east, "PUB" (Public/Quasi-Public/Open Space) to the southeast, I-BP to the south, and I-BP to the west. According to the County of Los Angeles land use designations, the project site is designated as Industrial. Areas adjacent to the facility are designated Industrial and Commercial.

The UCC Torrance facility was built in 1956 for polyethylene manufacturing and was originally owned by UCC. The facility occupied approximately 100 acres. It operated until 1982, when the manufacturing operations were discontinued and much of the facility was decommissioned. The project proposes to implement a RAP at the project site in order to improve environmental and human health. Construction of wells and the excavation and hauling of soil comprise the physical components of the project; such activities are a continuation of previously used corrective action technologies and monitoring practices at the project site. The project areas have not been mapped by the FMMP. No Williamson Act contracts exist within Los Angeles County. Neither farmlands nor areas zoned as forest land or timber land occur within the project site. Therefore, there is no impact and this topic is not evaluated further for the proposed project.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to agricultural and forestry resources if it would:

- Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use.
- Conflict with existing zoning for agricultural use, or a Williamson Act contract.
- Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g)).
- Result in the loss of forest land or conversion of forest land to non-forest use.
- Involve other changes in the existing environment which, due to their location or nature, could result in conversion
 of Farmland to nonagricultural use or conversion of forest land to non-forest use.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

No environmental studies were performed for this resource. Readily available information was reviewed for this assessment. Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?

Impact Analysis: Not applicable.

Conclusion: No Impact.

b. Conflict with existing zoning for agricultural use, or a Williamson Act contract?

Impact Analysis: Not applicable.

Conclusion: No Impact.

c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

Impact Analysis: Not applicable.

Conclusion: No Impact.

d. Result in the loss of forest land or conversion of forest land to non-forest use?

Impact Analysis: Not applicable.

Conclusion: No Impact.

e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural uses?

Impact Analysis: Not applicable.

Conclusion: No Impact.

References Used: 2, 7, 17, 18, 27

3. AIR QUALITY

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations.

Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?			\boxtimes	
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard?			\boxtimes	
c) Expose sensitive receptors to substantial pollutant concentrations?			\boxtimes	
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			\boxtimes	

REGULATORY SETTING (LAWS, ORDINANCES, REGULATIONS, STANDARDS):

The project site is located within the South Coast Air Basin (SCAB). The SCAB includes Orange County and portions of Los Angeles, Riverside, and San Bernardino counties. The SCAB is bounded by the Pacific Ocean to the west; the San Gabriel, San Bernardino, and San Jacinto mountains to the north and east; and the San Diego County line to the south. Air quality in the SCAB is regulated at the federal level by U.S. Environmental Protection Agency (USEPA), at the state level by the California Air Resources Board (CARB), and at the local level by the South Coast Air Quality Management District (SCAQMD).

CARB is charged with reducing air pollution and protecting public health from the harmful effects of air pollution. CARB focuses on California's unique air quality challenges by setting the state's own stricter emissions standards for a range of statewide pollution sources including vehicles, fuels, and consumer products. California's 35 local air districts are responsible for regional air quality planning, monitoring, and stationary source and facility permitting. The districts administer air quality improvement grant programs and are CARB's primary partners in efforts to reduce air pollution.

Individual air pollutants at certain concentrations may adversely affect human or animal health, reduce visibility, damage property, and reduce the productivity or vigor of crops and natural vegetation. Six air pollutants have been identified by the USEPA and the CARB as being of concern both on a nationwide and statewide level: ozone; carbon monoxide (CO); nitrogen dioxide (NO₂); sulfur dioxide (SO₂); lead; and particulate matter (PM), which is subdivided into two classes based on particle size: PM equal to or less than 10 micrometers in diameter (PM₁₀) and PM equal to or less than 2.5 micrometers in diameter (PM_{2.5}). Because the air quality standards for these air pollutants are regulated using human health and environmentally based criteria, they are commonly referred to as "criteria air pollutants."

In addition to criteria air pollutants, USEPA and CARB regulate hazardous air pollutants, also known as toxic air contaminants (TACs). TACs collectively refer to a diverse group of air pollutants that are capable of causing chronic (i.e., long-duration) and acute (i.e., severe but short-term) adverse effects on human health, including carcinogenic effects. TAC can be separated into carcinogens and noncarcinogens based on the nature of the effects associated with exposure to the pollutant. For regulatory purposes, carcinogens are assumed to have no safe threshold below which health impacts would not occur. Any exposure to a carcinogen poses some risk of contracting cancer. Noncarcinogens differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis.

Federal

 Federal Clean Air Act and National Ambient Air Quality Standards: National air quality policies are regulated through the Federal Clean Air Act (CAA). Pursuant to the CAA, the USEPA has established National Ambient Air Quality Standards (NAAQS) to protect public health and welfare with an adequate margin of safety. The NAAQS represent safe levels of each criteria pollutant to avoid specific adverse effects to human health and the environment. Two types of NAAQS have been established, primary and secondary standards. Primary standards set limits to protect public health, especially that of sensitive populations such as asthmatics, children, and seniors. Secondary standards set limits to protect public welfare, including protections against decreased visibility and damage to animals, crops, and buildings.

The CAA was amended in 1977 to require each state to maintain a State Implementation Plan (SIP) for achieving compliance with the NAAQS. In 1990, the CAA was amended again to strengthen regulation of both stationary and motor vehicle emission sources. Conformity to the SIP is defined under the 1990 CAA amendments as conformity with the SIP's purpose in eliminating or reducing the severity and number of violations of the NAAQS and achieving expeditious attainment of these standards.

State

- California Clean Air Act and California Ambient Air Quality Standards: In 1988, the state legislature adopted the California CAA, which established a statewide air pollution control program and the California Ambient Air Quality Standards (CAAQS). The California CAA requires all air districts in the state to endeavor to meet CAAQS by the earliest practical date. Unlike the federal CAA, the California CAA does not set precise attainment deadlines. Instead, the California CAA establishes increasingly stringent requirements for areas that will require more time to achieve the standards. CAAQS are generally more stringent than NAAQS and incorporate additional standards for sulfates, hydrogen sulfide, visibility-reducing particles, and vinyl chloride.
- Attainment of Federal and State Air Quality Standards: Areas are classified under the Federal CAA and California CAA as attainment, nonattainment, or maintenance (previously nonattainment and currently attainment) for each criteria pollutant based on whether the federal and state air quality standards have been achieved. With respect to the NAAQS, the SCAB is designated as a nonattainment area for ozone and PM_{2.5}, and as an attainment or unclassified area for all other pollutants. With respect to the CAAQS, the SCAB is designated as a nonattainment area for ozone, PM₁₀, and PM_{2.5}, and as an attainment area for all other pollutants (SCAQMD 2016).

Local

• South Coast Air Quality Management District: In the SCAB, the SCAQMD is the agency responsible for protecting public health and welfare through the administration of federal and state air quality laws and policies. Included in the SCAQMD's tasks are monitoring of air pollution, preparation of air quality plans, and promulgation of rules and regulations. Under the California CAA, the SCAQMD is required to develop an air quality attainment plan for nonattainment criteria pollutants within the air district. The most recent air quality plan developed by the SCAQMD is the 2016 Air Quality Management Plan (AQMP). The 2016 AQMP is the legally enforceable blueprint for how the region will meet and maintain the NAAQS and CAAQS. The 2016 AQMP identifies strategies and control measures needed to achieve attainment of the 8-hour ozone standard and federal annual and 24-hour standard for PM_{2.5} in the SCAQMD 2017).

SCAQMD rules relevant to the proposed project include, but are not limited to:

- Regulation IV: Prohibitions; Rule 401: Visible Emissions. Prohibits the generation of particulate matter emissions that exceed the visible emissions threshold.
- Regulation IV: Prohibitions; Rule 402: Nuisance. Prohibits the discharge, from any source, of such quantities of air contaminants or other materials that cause or have a tendency to cause injury, detriment, nuisance, annoyance to people and/or the public, or damage to any business or property.
- Regulation IV: Prohibitions; Rule 403: Fugitive Dust. Regulates fugitive dust emissions from any commercial construction or demolition activity capable of generating fugitive dust emissions, including active operations, open storage piles, and inactive disturbed areas, as well as track-out and carry-out onto paved roads beyond a project site.
- Regulation XI: Source Specific Standards; Rule 1166: Volatile Organic Compound (VOC) Emissions from Decontamination of Soil. Sets requirements to control the emissions VOCs from excavating, grading, handling and treating VOC-contaminated soil as a result of leakage from storage or transfer operations, accidental spillage, or other deposition.

The proposed project is required to comply with applicable rules, and conformance would be incorporated into project specifications and procedures, such as the Health and Safety Plan (HASP).

ENVIRONMENTAL SETTING (BASELINE):

The proposed project site is located in the City of Torrance within the SCAB. Ambient air pollutant concentrations in the SCAB are measured at air quality monitoring stations operated by CARB and the SCAQMD. The closest air quality monitoring station to the project site is the Long Beach-2425 Webster Street station, located approximately 8 miles southeast of the project site. Air quality monitoring data for ozone, CO, NO₂, and PM₁₀ were obtained from the SCAQMD Historical Data by Year tables for the Southwest Coastal Los Angeles County source receptor area (SRA 3). Data for PM_{2.5} were obtained from South Coastal Los Angeles County 1 source receptor area (SRA 4).

Table 3-1 presents 3 years of the most recent information available, summarizing the exceedances of standards and the highest recorded pollutant. These concentrations represent the existing, or baseline conditions, for the project area, based on the most recent information that is available.

Table 3-1 Ambient Air Quality Summary			
Pollutant Standards	2017	2018	2019
Ozone			
Maximum 1-hour concentration (ppm)	0.086	0.074	0.082
Maximum 8-hour concentration (ppm)	0.070	0.065	0.067
Number of Days Standard Exceeded			
CAAQS 1-hour (>0.09 ppm)	0	0	0
CAAQS 8- hour (>0.070 ppm)/NAAQS 8-hour (>0.070 ppm)	0/0	0/0	0/0
Carbon Monoxide (CO)			
Maximum 8-hour concentration (ppm)	1.6	1.5	1.3
Maximum 1-hour concentration (ppm)	2.1	1.8	1.8
Nitrogen Dioxide (NO ₂)			
Maximum 1-hour concentration (ppb)	72.2	59.6	56.6
Annual Average (ppb)	9.3	9.2	9.5
Number of Days Standard Exceeded			
NAAQS 1-hour	0	0	0
CAAQS 1-hour	0	0	0
Particulate Matter (PM10)			
Maximum 24-hour concentration (μg/m ³)	46	45	62
Annual average concentration (μ g/m ³)	19.8	20.5	19.2
Measured Number of Days Standard Exceeded			
NAAQS 24-hour (>150 μg/m ³)	0	0	0
CAAQS 24-hour (>50 μ g/m ³)	0	0	2
Particulate Matter (PM _{2.5})		•	1
Maximum 24-hour concentration (µg/m ³)	55.30	46.40	28.00
Annual average concentration $(\mu g/m^3)$	10.90	10.99	9.23
Measured Number of Days Standard Exceeded			
NAAQS 24-hour (>35 μ g/m ³)	4	2	0

Notes: µg/m³ = micrograms per cubic meter; CAAQS = California Ambient Air Quality Standards; NAAQS = National Ambient Air Quality Standards; ppb = parts per billion; ppm = parts per million Source: SCAQMD 2020

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to air quality if it would:

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

As stated in Appendix G of the CEQA Guidelines, the significance criteria established by the applicable air quality management board or air pollution control district may be relied on to make the impact determinations for specific program elements. The SCAQMD has established recommended screening level thresholds of significance for regional and localized pollutant emissions. The significance thresholds are shown in Tables 3-2 and 3-3.

Table 3-2

Regional Thresholds

SCAQMD Air Quality Significance Thresholds Mass Daily Thresholds ^a				
Pollutant Construction Operation				
100 lbs/day	55 lbs/day			
75 lbs/day	55 lbs/day			
150 lbs/day	150 lbs/day			
55 lbs/day	55 lbs/day			
150 lbs/day	150 lbs/day			
550 lbs/day	550 lbs/day			
	Mass Daily Thresholds ^a Construction 100 lbs/day 75 lbs/day 150 lbs/day 55 lbs/day 150 lbs/day			

Notes: lbs/day = pounds per day

^a Source: SCAQMD 2019.

¹ Ozone is a secondary pollutant (i.e., ozone is not directly emitted, but results from chemical reactions in atmosphere from precursor pollutants (NOx and VOC). As such, air quality impacts associated with ozone are evaluated using thresholds identified for its precursor pollutants.

The regional thresholds of significance were designed to identify those projects that would result in significant levels of air pollution and to assist the region in attaining the applicable state and federal ambient air quality standards, which were established using health-based criteria to protect the public with a margin of safety from adverse health impacts due to exposure to air pollution. Because regional air quality standards have been established for these criteria pollutants to protect the public with a margin of safety from adverse health impacts due to exposure to air pollution, these thresholds of significance can also be used to assess project emissions and inform the project's impacts to regional air quality and health risks under CEQA.

Localized Thresholds

Localized emissions of criteria air pollutants and precursors were assessed in accordance with SCAQMD's local significance thresholds (LST) guidance (SCAQMD 2008). The LST Methodology provides Look-Up Tables with different thresholds based on the location and size of the project site and distance to the nearest sensitive receptors. The Look-Up Tables provide thresholds for 1, 2, and 5-acre projects sites. The project site is approximately 13.8 acres; however, the 5-acre project site threshold was utilized in order to provide a conservative analysis. The 5-acre project site threshold can be used as a conservative measure because it assumes daily emissions associated with the remediation activities are emitted on a 5-acre site (and therefore concentrated over a smaller area with higher air pollutant concentrations to the surrounding receptors). Thus, if emissions are less than the LSTs developed by SCAQMD for a 5-acre project, then a more detailed evaluation for a larger project site is not required. The project limits are located within Source Receptor Area 3 (Southwest Coastal Los Angeles County).

For the purposes of a CEQA analysis, the SCAQMD considers a sensitive receptor to be a receptor such as a residence, hospital, or convalescent facility where it is possible that an individual could remain for 24 hours. The nearest sensitive receptors are multi-family residences located approximately 388 meters (1,272 feet) south of the project site. However, for conservative purposes the LST analysis was performed for the nearest hotel, located approximately 125 meters (410 feet) southeast of the project site. It should be noted that this is a conservative approach, as hotel stays are typically short in duration. Since workers in the surrounding commercial and industrial land uses could be present for periods of one to eight hours, the LST analysis was also performed for these worker receptors for pollutants with shorter averaging times, such as NO₂ and CO. The LSTs for NO₂ and CO were based on a 5-acre project site and 25-meter (82 feet) receptor distance.

The LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standards. The LSTs are developed based on the ambient concentrations of that pollutant for each source receptor area. Since the LSTs consider the ambient air quality, LSTs can also be used to identify, based on mass emissions, those projects that would result in significant levels of air pollution and impact sensitive receptors. Table 3-3 presents the LSTs applicable to the proposed project.

Threshold	NOx (lbs/day) ¹	CO (lbs/day) ¹	PM ₁₀ (Ibs/day) ²	PM _{2.5} (Ibs/day) ²
Construction	197	1,796	60	19
Operation	197	1,796	15	5

 Table 3-3

 SCAQMD Localized Significance Thresholds

Notes:

¹ Threshold conservatively based on a 5-acre project site for Source Receptor Area 3 (Southwest Coastal Los Angeles County) for a 25-meter receptor distance.

² Threshold conservatively based on a 5-acre project site for Source Receptor Area 3 (Southwest Coastal Los Angeles County) for a 100-meter receptor distance.

NOx = nitrogen oxides; CO = carbon monoxide; PM_{10} = particulate matter less than 10 micrometers in diameter; $PM_{2.5}$ = particulate matter less than 2.5 micrometers in diameter

Source: SCAQMD 2008

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

Construction emissions are short term or temporary but have the potential to result in a significant impact on air quality. Construction remediation activities would generate temporary emissions of precursors to ozone (VOC and NOx), CO, PM₁₀, and PM_{2.5}. VOC, NO_x, and CO emissions are associated primarily with mobile equipment exhaust, including offroad construction equipment and on-road motor vehicles. Fugitive particulate matter dust emissions are associated primarily with site preparation and travel on unpaved roads and vary as a function of parameters such as soil silt content, soil moisture, wind speed, acreage of disturbance area, and miles traveled by construction vehicles.

Emissions generated by construction activities were modeled using the California Emissions Estimator Model (CalEEMod), Version 2016.3.2. This model allows the user to enter project-specific construction information, such as the types, number and horsepower of construction equipment, and the number and length of off-site motor vehicle trips. Construction emissions were estimated for worker commutes, haul trucks, and the use of off-road equipment. Emissions were calculated using the construction schedule, project specific equipment lists, and haul truck trips required by the Remedial Action Plan (RAP) activities.

Construction of the proposed project was assumed to begin in the third quarter of 2021 and involve a soil excavation phase, SVE pilot system construction, ISGS barrier construction, and SVE system expansion. The estimated construction workforce is a maximum of 8 workers per day. In addition, the proposed project anticipates approximately 150 cubic yards (CY) of impacted soil would be exported and approximately 200 CY of clean fill would be imported to the site. Impacted soils excavated from the project site are anticipated to be exported via haul truck to the Clean Harbors' Landfill in Buttonwillow. The analysis assumed an 85-mile truck trip length for the impacted soil haul truck trips based on the distance between the project site and the SCAQMD boundary. Additional modeling details and assumptions are provided in Appendix A.

Once construction remediation activities are complete, minor operation and maintenance activities would occur related to the installed SVE system. These activities would require one technician to visit the project site an average of once per week. Emissions associated with the weekly maintenance trips were estimated using CARB EMFAC2017 using default trip lengths and fleet mix for Los Angeles County. In addition, the SVE system would be housed on a portable skid-mounted frame and equipped with an electric vacuum blower (pump). It is anticipated that the electric blower will be powered using a 35-kilowatt diesel generator, operating 24 hours per day. Emissions associated with the diesel generator were also estimated using CalEEMod version 2016.3.2. Additional modeling details and assumptions are provided in Appendix A.

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Conflict with or obstruct implementation of the applicable air quality plan?

<u>Impact Analysis:</u> Air quality plans describe the air pollution control strategies to be implemented by a city, county, or regional air district. As previously discussed, the 2016 AQMP is the applicable air quality plan in the SCAB. The 2016 AQMP is a regional and multi-agency effort including the SCAQMD, the CARB, the Southern California Association of Governments (SCAG), and the USEPA.

Consistency with the AQMP is determined through evaluation of whether the project would exceed the estimated emissions used as the basis of the AQMP, which are based, in part, on population projections developed by the SCAG. The SCAG forecasts are based on local general plans and other related documents, such as housing elements, that are used to develop population projections and traffic projections.

Implementation of the proposed project activities would involve the use of off-road equipment, haul trucks, and worker commute trips. Assumptions for off-road equipment emissions in air quality plans are developed based on hours of activity and equipment population reported to CARB for rule compliance. The use of construction equipment in the AQMP is estimated for the region on an annual basis, and construction-related emissions are estimated as an aggregate in the AQMP. Since project construction is limited to short-term activities and construction activities would not involve unusual characteristics that would necessitate the use of extensive off-road equipment usage, the proposed project would not increase the assumptions for off-road equipment use in the AQMP. In addition, the proposed project would result in emissions that would be below the SCAQMD regional and localized thresholds during construction (as shown below in Section 3[b]). The thresholds were developed to assist the region in attaining the applicable state and federal ambient air quality standards; therefore, the proposed project would not result in an increase in the frequency or severity of existing air quality violations and would not have the potential to cause or affect a violation of the NAAQS or CAAQS. Furthermore, as described in more detail in the Project Description, per SCAQMD Rules 403 (Fugitive Dust) and 1166 (VOC Emissions from Decontamination of Soil) the contractor will implement a fugitive dust suppression and air monitoring program during excavation activities as well as odor and vapor control during disturbance of naphthalene-impacted soil. As such, the proposed project would also comply with the applicable SCAQMD rules and regulations, which are developed to implement AQMP control measures.

Operation of the proposed project would be limited to minor activities including a weekly maintenance trip to operate the SVE system and operation of a diesel generator. The diesel generator would be permitted per SCAQMD rules and regulations. As shown in Section 3(b) below, operational emissions would also be below the SCAQMD regional and localized thresholds. The purpose of the proposed project is to reduce the identified contaminants of concern concentrations in the soil, soil vapor, and groundwater to levels protective of human health and the environment, consistent with the current and anticipated future commercial/industrial worker uses of the property. As such, the proposed project would not conflict with the goals of the 2016 AQMP to achieve air quality standards and healthful air. Therefore, the proposed project would not conflict with or obstruct implementation of the applicable air quality plan.

Conclusion: Less Than Significant Impact.

b. Result in cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

<u>Impact Analysis:</u> By its very nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development within the SCAB, and this regional impact is cumulative rather than being attributable to any one source. A project's emissions may be individually limited, but cumulatively considerable when taken in combination with past, present, and future development projects. The thresholds identified in Tables 3-2 and 3-3 above are designed to identify those projects that would result in significant levels of air pollution and to assist the region in attaining the applicable state and federal ambient air quality standards. Projects that would not exceed the thresholds of significance would not contribute a considerable amount of criteria air pollutant emissions to the region's emissions profile and would not impede attainment and maintenance of ambient air quality standards.

Table 3-4 shows the maximum daily emissions associated with construction of the proposed project compared to the SCAQMD regional thresholds of significance. Additional modeling assumptions and details are provided in Appendix A.

Maximum Daily Regional Construction-Related Emissions								
Description	VOC (Ibs/day)	NOx (Ibs/day)	CO (Ibs/day)	SOx (Ibs/day)	PM ₁₀ 1 (Ibs/day)	PM _{2.5} 1 (Ibs/day)		
Construction-Related Emissions	4.70	44.00	30.14	0.11	5.23	1.87		
SCAQMD Regional Thresholds ²	75	100	550	150	150	55		
Exceed Regional Threshold?	No	No	No	No	No	No		

Table 3-4 Iaximum Daily Regional Construction-Related Emissions

Notes: Modeled by AECOM in 2021.

¹ Fugitive dust emissions of PM₁₀ and PM_{2.5} include reductions associated with implementation of Best Management Practices per SCAQMD Rule 403.

² SCAQMD 2019

VOC = volatile organic compounds; NOx = nitrogen oxides; CO = carbon monoxide; SOx = sulfur oxides; PM_{10} = particulate matter less than 10 microns in diameter; $PM_{2.5}$ = particulate matter less than 2.5 microns in diameter; lbs/day = pounds per day.

Table 3-5 shows the on-site maximum daily emissions associated with construction of the proposed project compared to the SCAQMD LSTs.

 Table 3-5

 Maximum Daily Localized Construction-Related Emissions

Source/Description	NOx (Ibs/day)	CO (Ibs/day)	PM ₁₀ 1 (Ibs/day)	PM _{2.5} 1 (Ibs/day)
Daily Project On-Site Emissions ²	40.54	28.70	4.78	1.74
SCAQMD Localized Thresholds ³	197	1,796	60	19
Exceed Regional Threshold?	No	No	No	No

Notes: Modeled by AECOM in 2021.

¹ Fugitive dust emissions of PM₁₀ and PM_{2.5} include reductions associated with implementation of Best Management Practices per SCAQMD Rule 403.

² Maximum daily localized emissions account for on-site activities including off-road equipment use, fugitive dust, and on-road vehicle travel on-site and within 500 meters of the nearest receptors. It was assumed that approximately 2%, 18%, and 9% of the total on-road vehicle emissions would occur on-site or within 500 meters of the nearest receptors for the haul, vendor, and worker trips, respectively (estimated portion of vehicle trip lengths [1.25 miles] compared to the total average trip lengths).

³ SCAQMD 2008

NOx = nitrogen oxides; CO = carbon monoxide; PM_{10} = particulate matter less than 10 microns in diameter; $PM_{2.5}$ = particulate matter less than 2.5 microns in diameter; lbs/day = pounds per day.

As shown in Tables 3-4 and 3-5, the peak daily construction emissions would not exceed any of the SCAQMD regional thresholds or LSTs. Therefore, construction of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.

Following construction of the remedial actions, operational activities associated with the proposed project are anticipated to be limited to operation of a diesel generator (24 hours per day) and one weekly visit by a technician. As shown in Table 3-6, operational criteria air pollutant emissions would be minimal.

Source/Description	VOC (Ibs/day	NOx (Ibs/day)	CO (lbs/day)	SOx (Ibs/day)	PM₁₀ (Ibs/day)	PM _{2.5} (Ibs/day)
Daily Project Emissions	1.85	9.66	7.52	0.01	0.82	0.82
SCAQMD Regional Thresholds ¹	55	55	550	150	150	55

 Table 3-6

 Maximum Daily Operational Emissions

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Source/Description	VOC (Ibs/day	NOx (Ibs/day)	CO (lbs/day)	SOx (Ibs/day)	PM₁₀ (Ibs/day)	PM _{2.5} (Ibs/day)
SCAQMD Localized Thresholds ^{2,3}	N/A	197	1,796	N/A	15	5
Exceed Thresholds?	No	No	No	No	No	No

Table 3-6 **Maximum Daily Operational Emissions**

Notes:

Modeled by AECOM in 2021.

¹SCAQMD 2019

²SCAQMD 2008

³No LST threshold available for VOC or SOx emissions.

VOC = volatile organic compounds; NOx = nitrogen oxides; CO = carbon monoxide; SOx = sulfur oxides; PM_{10} = particulate matter less than 10 microns in diameter; PM_{2.5} = particulate matter less than 2.5 microns in diameter; lbs/day = pounds per day.

As shown in Tables 3-4 through 3-6, the maximum daily construction-related and operational emissions would not exceed any of the SCAQMD regional or localized thresholds. Therefore, construction and operation of the proposed project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation.

Conclusion: Less Than Significant Impact.

Expose sensitive receptors to substantial pollutant concentrations? C.

Impact Analysis: Some members of the population are especially sensitive to air pollutant emissions and should be given special consideration when evaluating air quality impacts from projects. For the purposes of a CEQA analysis, the SCAQMD considers a sensitive receptor to be to be a receptor such as a residence, hospital, or convalescent facility where it is possible that an individual could remain for 24 hours (SCAQMD 2008). Sensitive receptors also include facilities that house or attract children, the elderly, and people with illnesses or others who are especially sensitive to the effects of air pollutants. As described above, the nearest sensitive receptors include a hotel approximately 125 meters away and residences approximately 388 meters away from the southern edge of the project site.

As shown in Tables 3-4 through 3-6, construction-related and operational activities would result in emissions of criteria air pollutants, but at levels that would not exceed the SCAQMD regional or localized thresholds of significance. The regional thresholds of significance were designed to identify those projects that would result in significant levels of air pollution and to assist the region in attaining the applicable state and federal ambient air guality standards, which were established using health-based criteria to protect the public with a margin of safety from adverse health impacts due to exposure to air pollution. In addition, the LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standards and are developed based on the ambient concentrations of that pollutant for each source receptor area. As such, the criteria air pollutant emissions associated with the proposed project would not expose sensitive receptors to substantial criteria pollutant concentrations.

The greatest potential for TAC emissions during construction of remedial actions would be related to diesel particulate matter (diesel PM) emissions associated with heavy-duty equipment operations. The Office of Environmental Health Hazard Assessment (OEHHA) developed a Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2015). According to OEHHA methodology, health effects from carcinogenic TACs are usually described in terms of individual cancer risk, which is based on a 30-year lifetime exposure to TACs. Construction activities would be temporary and last approximately 16 months depending on the specific remedial action. In addition, construction activities would span across the entire 13.8-acre project site. Therefore, emissions would be generated at distances from 125 meters (410 feet) to 500 meters (1,640 feet) from the nearest sensitive receptors. Because off-road, heavyduty equipment would be used for a relatively short time period and would not be in the immediate proximity of sensitive receptors, construction activities would not be anticipated to expose sensitive receptors to substantial TAC concentrations.

In addition, in accordance with SCAQMD Rule 1166 and the HASP, the contractor will conduct organic vapor monitoring. Health and safety monitoring for remediation construction workers will consist of both dust monitoring and UCC Torrance RAP Draft IS/ND - July 2021 26

organic vapor monitoring in the breathing zone in accordance with the provisions contained in the HASP. In the event contaminants (VOCs) reach unsafe action levels, a respiratory protection program will be implemented (respirators used). Furthermore, there are a number of measures such as dust control, vapor suppression, modification of soil disturbance tasks, covering stockpiles that could be implemented before contaminant levels reach unsafe levels. As described in the Project Description, these programs will be detailed in the RAP and site-specific HASP.

As discussed previously, operation and maintenance of the proposed project is anticipated to be limited to operation of a diesel generator and a weekly trip by a technician. The diesel generator would be a source of diesel PM emissions. Concentrations of diesel PM emissions are typically reduced by 70 percent at a distance of approximately 500 feet from freeways (ARB 2005). Studies also indicate that diesel PM emissions and the relative health risk can decrease substantially within 300 feet (ARB 2005; Zhu et al. 2002). If the diesel generator were to be placed along the southern edge of the project site, it would be located approximately 410 feet away from the nearest sensitive receptor (hotel). Thus, it is anticipated operation of the generator would not expose receptors to substantial pollutant concentrations. In addition, hotel guests would consist of temporary visitors and would not be exposed to emissions for an extended period. Further, as described in more detail in the RAP, the purpose of the proposed project is to reduce the identified contaminants of concern concentrations in the soil, soil vapor, and groundwater to levels protective of human health and the environment, consistent with the current and anticipated future commercial/industrial worker uses of the property. Thus, implementation of the project through installation of the ISGS barrier, SVE system, excavation and disposal of soils, would constrain the current observed impacts to the on-site property, mitigate the potential vapor intrusion, and provide for the protection of human health and the environment. In addition, the restrictive land use covenants in each area would also ensure that the property is not used for residential or other sensitive receptor purposes in the future. Therefore, the proposed project would not expose sensitive receptors to substantial pollutant concentrations.

Conclusion: Less Than Significant Impact.

d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

<u>Impact Analysis:</u> The occurrence and severity of odor impacts depend on numerous factors, including the nature, frequency, and intensity of the source; wind speed and direction; and the presence of sensitive receptors. While offensive odors rarely cause any physical harm, they still can be very unpleasant, leading to considerable distress and often generating citizen complaints to local governments and regulatory agencies. Projects with the potential to frequently expose individuals to objectionable odors are deemed to have a significant impact. Typical facilities that generate odors include wastewater treatment facilities, sanitary landfills, composting facilities, petroleum refineries, chemical manufacturing plants, and food processing facilities.

Construction activities associated with implementation of the remediation activities could result in short-term odor emissions from diesel exhaust associated with construction equipment. In addition, odorous substances may also be encountered during soil excavation activities. However, the limited shallow soil excavations to address naphthalene will be conducted over a short period (one to two weeks) and will be monitored for odors in accordance with the RAP, site-specific HASP and SCAQMD Rule 1166. As described above, controls such as dust control, vapor suppression, and covering of stockpiles would be used to assist in controlling vapors and odors. In addition, the overall remediation activities would be short-term in nature.

Following construction, operation of the proposed project would not introduce new odors or result in other emissions (such as those leading to odors) that would adversely affect a substantial number of people. On the contrary, implementation of the remedial response actions would reduce the identified contaminants of concern concentrations in the soil, soil vapor, and groundwater. Therefore, the proposed project will not result in other emissions adversely affecting a substantial number of people.

Conclusion: Less Than Significant Impact.

References Used: 13, 37, 42, 55

4. BIOLOGICAL RESOURCES						
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact		
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife, U.S. Fish and Wildlife Service, or NOAA Fisheries?						
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?						
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?						
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?						
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?						
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?						

REGULATORY SETTING (LAWS, ORDINANCES, REGULATIONS, STANDARDS):

Federal

- Federal Endangered Species Act (16 U.S.C. 1531–1543): The U.S. Fish and Wildlife Service (USFWS) and National Oceanic and Atmospheric Administration (NOAA) Fisheries oversee the Federal Endangered Species Act (FESA). The USFWS has jurisdiction over plants, wildlife, and resident fish; NOAA Fisheries has jurisdiction over anadromous fish, marine fish, and marine mammals. The FESA prohibits the take of any fish or wildlife species listed as endangered or threatened; requires that all federal agencies consult with the USFWS and/or NOAA Fisheries to ensure that federal agencies' actions do not jeopardize the continued existence of a listed species or adversely modify critical habitat for listed species; and issues permits to authorize the incidental take of listed species. A federally endangered species is a species of invertebrate, plant, or wildlife formally listed under the FESA as facing extinction throughout all or a significant portion of its geographic range. A federally threatened species is one formally listed by the USFWS as likely to become endangered within the foreseeable future throughout all or a significant portion of its range. A proposed threatened or endangered species is one officially proposed by the USFWS for addition to the federal threatened or endangered species lists. Candidate species and species that are proposed for listing receive no protection under the FESA.
 - Migratory Bird Treaty Act (MBTA): Congress passed the MBTA in 1918 to prohibit the kill or transport of native migratory birds, or any part, nest, or egg of any such bird unless allowed by another regulation adopted in accordance

with the MBTA (U.S.C. Title 16, Chapter 7, Subchapter II, Sections 703–712). All birds, except European starlings, English house sparrows, rock doves (pigeons), and non-migratory game birds such as quail, pheasant, and grouse are protected under the MBTA. Game birds are regulated under state hunting permit programs.

Clean Water Act Sections 404 and 401 (33 U.S.C. 1251-1376): United States Army Corps of Engineers (USACE) and United States Environmental Protection Agency (USEPA) regulate the discharge of dredged or fill material into "waters of the U.S.," including wetlands, under Section 404 of the Clean Water Act (CWA). The USACE has defined the term "wetlands" as follows: "Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstance do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas" (40 CFR 116.3). Some classes of fill activities may be authorized under general permits if specific conditions are met. Projects that would result in the placement of dredged or fill material into waters of the U.S. (WoUS) require a Section 404 permit from the USACE. Section 401 of the CWA requires the issuance of a water quality certification or waiver thereof for all Section 404 nationwide or individual permits issued by the USACE. The USEPA has deferred water quality certification authority to the State Water Resources Control Board (SWRCB). Most projects are regulated by Regional Water Quality Control Boards (RWQCBs). The SWRCB directly regulates multi-regional projects and supports and coordinates the program statewide.

State

- California Fish and Game Code (CFGC), California Endangered Species Act (Section 2050 et seq.): California implemented its own Endangered Species Act (CESA) in 1984. The state act prohibits the take of state-listed endangered and threatened species; however, unlike the federal definition, habitat destruction or modification is not included in the state's definition of take. Section 2090 of CESA requires state agencies to comply with endangered species protection and recovery and to promote conservation of these species. The California Department of Fish and Wildlife (CDFW) administers the CESA and authorizes take through Section 2081 agreements (except for designated "fully protected species"). California Species of Special Concern (SSC) is an informal designation used by the CDFW for specific declining fish, amphibian, reptile, bird, and mammal species that are not listed as endangered, threatened, or rare under CESA. Other species in California for which there is conservation concern are tracked by in the California Natural Diversity Data Base (CNDDB). These designations do not provide legal protection but signifies that these species are recognized as vulnerable by CDFW and may receive special consideration during a CEQA review process. In regards to listed rare and endangered plant species, the CESA defers to the California Native Plant Protection Act (NPPA) of 1977. The NPPA prohibits importing of rare and endangered plants into California, and the taking and selling of rare and endangered plants. The CESA includes an additional listing category for threatened plants which are not regulated under the NPPA. In this case, plants listed as rare or endangered under the NPPA are not protected under CESA, but can be protected under CEQA. In addition, plants that are not state listed but meet the state standards for listing, are also protected under CEQA (Guidelines, Section 15380). In practice, this is generally interpreted to mean that all plant species designated with a California Rare Plant Rank (CRPR) of 1B and 2 by the California Native Plant Society (CNPS), qualify for protection under CEQA, as well as some species of plants with CRPR of 3 and 4. Species are ranked by CNPS in their Inventory of Rare and Endangered Plants of California.
 - CFGC, Bird Protections: CFGC Section 3503, 3503.5, and 3505 set forth limits on take, possession, and destruction of certain avian species, their nests and eggs. Section 3503 of the CFGC prohibits destruction of the nests or eggs of most native resident and migratory bird species. Section 3503.5 specifically prohibits the taking of raptors or destruction of their nests or eggs. CFGC 3511(a)(1) establishes that fully-protected birds may not be taken or possessed at any time with the exception of permits granted for scientific research. Under these sections of the CFCG, the project proponent is not allowed to conduct activities that would result in the taking, possessing, or destroying of any birds-of-prey, taking or possessing of any migratory non-game bird as designated in the MBTA or the taking, possessing, or needlessly destroying of the nest or eggs of any raptors or non-game birds protected by the MBTA, or the taking of any non-game bird pursuant to CFGC Section 3800.
 - Natural Community Conservation Plan/Habitat Conservation Plan Programs: The CDFW's Natural Community Conservation Planning (NCCP) Program promotes collaborative planning efforts designed to provide for the regionwide conservation of plants, animals, and their habitats, while allowing for compatible and appropriate economic activity. Similarly, and generally in parallel, the USFWS implements the Habitat Conservation Plan program which are planning documents required as part of an application for an incidental take permit. These plans describe the anticipated effects of the proposed take; how those impacts will be minimized or mitigated; and how the HCP is to be funded. HCPs can apply to both listed and non-listed species, including those that are candidates or have been

proposed for listing. Conserving species before they are in danger of extinction or are likely to become so can also provide early benefits and prevent the need for listing.

Local

- Significant Ecological Area Program: The primary mechanism used by Los Angeles County to conserve biological diversity is a planning overlay called Significant Ecological Areas (SEAs) designated in the County's General Plan Conservation/Open Space Element. SEAs are ecologically important land and water systems that support valuable habitat for plants and animals, often integral to the preservation of rare, threatened, or endangered species and the conservation of biological diversity in Los Angeles County. While SEAs are not preserves, they are areas where Los Angeles County deems it important to facilitate a balance between development and resource conservation. Development activities in the SEAs are reviewed closely in order to conserve water and biological resources such as streams, oak woodlands, and Threatened or Endangered species and their habitat.
- Los Angeles County Oak Tree Ordinance: The Los Angeles County Oak Tree Ordinance (County of Los Angeles Code of Ordinances Section 22.56.2050) recognizes oak trees as significant historical, aesthetic, and ecological resources. The goal of the ordinance is to create favorable conditions for the preservation and propagation of this unique and threatened plant heritage. By making this part of the development process, healthy oak trees will be preserved and maintained. The Los Angeles County Oak Tree Ordinance applies to all unincorporated areas of the County. Under the ordinance, a person shall not cut, destroy, remove, relocate, inflict damage, or encroach into the protected zone of any tree of the oak tree genus, which is 8 inches or more diameter at breast height (dbh), 4.5 feet above natural grade, or, in the case of oaks with multiple trunks, a combined dbh of 12 inches or more of the two largest trunks, without first obtaining a permit from the Los Angeles County Fire Department.
- The City of Torrance Tree Removal Municipal Code: The City of Torrance Municipal Code (Ordinance 75.1.5) regulates the care and removal of trees on public property and is intended to preserve and protect the community's urban forest and to promote the health and safety of City trees. The City's Municipal Code requires that a municipal permit from the City of Torrance Director of Public Works be obtained prior to the removal of trees on City-owned property.

ENVIRONMENTAL SETTING (BASELINE):

The project site consists of an inactive terminal and distribution center. Approximately 80 percent of the 37-acre facility, including much of the project site, is covered with impervious structures consisting of buildings, roads, or paved areas. The remaining 20 percent is unpaved or grassy. A Department of Fish and Game Rarefind report dated May 3, 2004 for the Torrance quadrant was reviewed during the 2004 Initial Study. Although the report identified several species of concern including the tricolored blackbird and Palos Verde blue butterfly, the habitat needed to support those species (open water, nesting reeds, coastal sage brush, and open space) are not found in disturbed sites such as the project site.

Biological Study Area

The Biological Study Area (BSA) includes the footprint of the 13.8-acre project site plus a 500-foot buffer. A buffer around the project component was evaluated in order to capture potential indirect effects to biological resources from implementation of the project. Indirect effects could include elevated noise and dust levels, soil compaction, and increased human activity within the BSA. A 500-foot buffer is standard for capturing potential indirect impacts from a project on biological resources. It is anticipated that indirect impacts beyond 500 feet would be diffuse and would not significantly impact biological resources.

Vegetation Communities and Plants

Vegetation communities are assemblages of plant species that commonly coexist. The classification of vegetation communities is based on the life form of the dominant species within that community and the associated species. No native plant communities occur within the footprint of the project components and throughout the BSA. The vegetation observed on aerial maps within the BSA are the non-native ornamental shrubs located on the east side of the pond, located in the Heil Separator Area, and the non-native ornamental shrubs located within the 500-foot buffer in the City Stormwater Basin, east of Parcel C.

Special-Status Plant Species

Special-status plant species include those listed as Endangered, Threatened, Rare or those species proposed for listing (Candidates) by the USFWS, CDFW, and the CNPS. A list of regional special-status plant species was obtained to UCC Torrance RAP Draft IS/ND – July 2021 30

evaluate the potential for such species to occur in the BSA of the project components by conducting a review of the CNDDB (CDFW 2021), the CNPS's Inventory of Rare and Endangered Plants (CNPS 2021a), and the USFWS's online IPaC review process (USFWS 2021a). A total of 31 plant species were identified during reviews of the CNDDB and CNPS inventories to have historically been recorded from the Torrance and surrounding eight quadrangles, and from a search of IPaC for the project area, including 9 federally and/or state-listed species, or candidates for listing. Results of the CNDDB, CNPS, and IPaC reviews are included in Appendix B. Special-status plants also include species protected under local regulation or ordinance, such as the Los Angeles County Tree Ordinance and the City of Torrance Tree Removal Municipal Code.

The footprint of the project components consists of paved, and graveled areas which do not provide the specific habitat requirements needed to support special-status plant species. The BSA of the project components also primarily includes industrial developed areas unsuitable for special-status plants.

No vegetation or tree removal is anticipated as part of the project implementation; therefore, no county or city tree ordinances will be impacted.

Special-Status Wildlife Species

Special-status wildlife species include those listed by the USFWS under the FESA and by CDFW under CESA. USFWS and CDFW officially list species as either Threatened, Endangered, or as Candidates for listing. Additional species receive federal protection under the MBTA, and state protection under the CFGC and CEQA Section 15380(d). A list of regional special-status wildlife species was obtained by conducting a review of the CNDDB for the Torrance and surrounding eight quadrangles, and from a search of IPaC for the project area. A total of 30 wildlife species were identified during reviews of the CNDDB on-line inventories to have historically been recorded from the Torrance and surrounding eight guadrangles, and from a search of IPaC for the project area, including 16 federally and/or state-listed species, or candidates for listing. Results of the CNDDB and IPaC reviews are included in Appendix B.

One CNDDB record of a federally and/or state-listed wildlife species occurs within the BSA and three CNDDB records occur within 1 mile of the BSA. These include records of Palos Verdes blue butterfly (within the BSA, federally-listed endangered), Southern California legless lizard (within 0.5 miles of BSA, CDFW species of conservation concern), crotch bumble bee (within a mile of BSA, state-listed candidate), and coast horned lizard (within a mile of the BSA, CDFW species of conservation concern). The potential for these species to occur within the BSA of the project is discussed below.

Palos Verdes Blue Butterfly

The Palos Verdes blue butterfly (Glaucopsyche lyadamus paloverdensis) is a rare butterfly that is only found on coastal sage scrub habitat within the Palos Verdes Peninsula. The butterfly's host plants include the Santa Barbara milkvetch (Astragalus trichopodus var. lonchus) and the common deerweed (Lotus scoparius). Adults are observed from late January to early May and have a short lifespan of 5 days. There is one CNDDB occurrence recorded of the species within the BSA, the location (GPS) information is suppressed, and the occurrence states the species was observed on coastal sage scrub habitat. There is no coastal sage scrub habitat present within the BSA, there is a large parcel of undeveloped land, 965 feet to the southeast of Parcel C that could potentially support the species, however the species is not expected to occur within the BSA because of lack of native habitat.

Southern California Legless Lizard

The southern California legless lizard (Anniella stebbinsi) occurs throughout southern California and Baja California. This underground species is found in sandy or loose loamy soils under sparse vegetation. Disjunct populations occur in the Tehachapi and Piute Mountains of Kern County. The lizard occurs in soils with high moisture content in coastal sand dunes and a variety of interior habitats, including sandy washes and alluvial fans. There is a large population that occurs in the El Segundo Dunes. There is one CNDDB occurrence of the species occurring within half of mile of the BSA in an undeveloped parcel of land that occurs southeast of Parcel C, however no suitable habitat for the species occurs within the BSA.

Crotch Bumble Bee

The crotch bumble bee (Bombus crotchii) is found in coastal California and east towards the Sierra-Cascade crest. The species food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum. There is a CNDDB occurrence of the species within one mile, however the record is from 1938. There is also another occurrence UCC Torrance RAP Draft IS/ND - July 2021 31

of the species from the early 2000's when the crotch bumble bee was observed during surveys for the Palos Verdes blue butterfly on the south slopes of the Palos Verdes peninsula. The peninsula occurs over 5 miles to the west of the BSA and no suitable habitat or food plants for the species occurs within the BSA, therefore the species is not expected to occur within the BSA.

Coast Horned Lizard

The coast horned lizard (*Phrynosoma blainvillii*) is historically found throughout California along the Pacific coast from the Baja California border west of the deserts, and the Sierra Nevadas, north of the Bay Area, and inland as far north as Shasta Reservoir, and south into Baja California. The species frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Occurs in open areas for sunning, shrubs for cover, patches of loose soil for burrowing, and abundant supply of ants and other insects. A 1989 CNDDB record of the species occurs within one mile of the BSA in El Nido Park, however no suitable habitat for the species occurs within the BSA.

Sensitive Natural Communities

Sensitive natural communities are habitats that are designated by CDFW as rare in the region in the CNDDB, support special-status plant or wildlife species, or receive regulatory protection (i.e., Section 404 of the CWA and/or Sections 1600 et seq. of the CFGC). Rare communities are given the highest inventory priority. Local regulatory overlays that protect natural communities are also discussed below.

CDFW Sensitive Natural Communities

A list of regional sensitive natural communities was obtained by conducting a review of the CNDDB for the Torrance and surrounding eight quadrangles. A total of 3 sensitive vegetative communities were identified, Southern California salt marsh, Southern Coastal Bluff Scrub and Southern Dune Scrub. Results of the CNDDB review is included in Appendix B. None of the communities identified during the CNDDB review occur within the BSA. Most are known from five plus miles to the west along the coast in the Palos Verdes Peninsula.

USFWS-Designated Critical Habitats

Critical Habitats designated by USFWS are specific geographic areas that contain features essential to the conservation of an endangered or threatened species and that may require special management and protection. These features, or Primary Constituent Elements (PCE), are the physical and biological features that are essential to the conservation of a species, which the designated Critical Habitat is based upon. A review of USFWS's Critical Habitat Mapper (USFWS 2021c) indicated that there is no critical habitat for endangered or threatened federally species within the BSA.

Wetlands and Other Waters

Reviews of the Torrance quadrangle, aerial imagery of the project areas, and the USFWS National Wetlands Inventory (NWI)11 were conducted to determine if aquatic communities (i.e. wetlands or other waters) under regulatory jurisdiction of the USACE, CDFW, and/or RWQCB occur within proximity of the project components. One such features were determined to occur within the BSA of the Heil Separator Area. The online NWI Mapper indicates that a Freshwater Pond occurs within the BSA which is where the decommissioned Heil Separator Area is located. From aerial imagery, several large shrubs occur on the east side of the pond.

Natural Community Conservation Plan/Habitat Conservation Plan Areas (NCCP/HCP)

A review of adopted HCP and NCCP areas12 occurring in California was conducted to determine if the BSA of the project components fall within the boundary of any such plans. Results of the review indicate that no BSA falls within the boundary of a NCCP/HCP area.

Significant Ecological Areas (SEA)

A review of the Los Angeles County Department of Regional Planning (LADRP) SEA and Coastal Resource Areas Policy Map 13 indicated that none of the project components coincide with a SEA.

Wildlife Corridor

In an urban context, a wildlife migration corridor can be defined as a linear landscape feature of sufficient width and buffer to allow animal movement between two comparatively undisturbed habitat fragments, or between a habitat fragment and some vital resource that encourages population growth and diversity. Habitat fragments are isolated patches of habitat separated by otherwise foreign or inhospitable areas, such as urban tracts or highways. Two types of wildlife migration corridors seen in urban settings are regional corridors, defined as those linking two or more large areas of natural open space, and local corridors, defined as those allowing resident wildlife to access critical resources (food, cover, and water) in a smaller area that might otherwise be isolated by urban development.

The BSA consists of an industrial facility with paved or graveled surfaces, sparse trees and shrubs, and a decommissioned heil separator which contains a concrete lined freshwater pond. The sparse trees and shrubs within and adjacent to the BSA provide some opportunities for cover, resting, foraging, and nesting to localized bird populations; however, they do not provide functions as a significant wildlife movement corridor.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to biological resources if it would:

- Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?
- Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?
- Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?
- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?
- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?
- Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?
- Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

In order to determine the impacts to biological resources, existing data on special-status species and sensitive natural communities were reviewed as part of a literature search. The following agency resources were reviewed to provide a list of regional special-status and sensitive biological resources and are identified in the impact evaluation below:

- CDFW California Natural Diversity Database (CNDDB)
- CDFW Rarefind Report
- CNPS Inventory of Rare and Endangered Plants
- USFWS Information for Planning and Conservation (IPaC)
- USFWS National Wetlands Inventory (NWI)
- USFWS Critical Habitat Mapper
- Los Angeles County Department of Regional Planning's (LADRP) Significant Ecological Areas (SEA)

Biological resources may be either directly or indirectly impacted by a project. Direct and indirect impacts may be either permanent or temporary in nature. These impact categories are defined below:

- Direct: Any alteration, physical disturbance, or destruction of biological resources that would result from projectrelated activities is considered a direct impact. Examples include clearing vegetation, loss of individual species and/or their habitats, and encroaching into wetlands or a river.
- Indirect: As a result of project-related activities, biological resources may also be affected in a manner that is ancillary to physical impacts. Examples include elevated noise and dust levels, soil compaction, increased human activity, decreased water quality, and the introduction of invasive wildlife (domestic cats and dogs) and plants.

- Permanent: All impacts that result in the long-term or irreversible removal of biological resources are considered permanent. Examples include constructing a building or permanent road on an area containing biological resources.
- Temporary: Any impacts considered to have reversible impacts on biological resources can be viewed as temporary. Examples include the generation of fugitive dust during construction, or removing vegetation for the preparation of construction activities, and either allowing the natural vegetation to recolonize or actively revegetating impacted areas. Surface disturbance that removes vegetation and disturbs the soil is considered a long-term temporary impact because of slow natural recovery in arid ecosystems.

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

<u>Impact Analysis:</u> Minor construction activities such as excavation, hauling of materials/soils, installing horizontal wells, and incorporating other minor remediation elements will occur within the developed industrial parcel. Also, no tree removal or tree trimming is expected to occur within the BSA. These site conditions do not provide the habitat requirements to support special-status species. CNDDB occurrences for four special-status species occur within the BSA or within a mile of the BSA, however no suitable habitat for these species occurs within the BSA. As a result, no impacts to special-status plant and wildlife species or their habitats would not occur as such species are not anticipated within the footprints of the project components.

Conclusion: No Impact.

b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?

<u>Impact Analysis:</u> According to the National Wetlands Inventory managed by the United States Fish and Wildlife Service (USFWS), the project site does not contain riparian habitat only a small freshwater pond located in the Heil Separator Area. This pond was used for the separation of oil and water associated with ethylene production, the eastern side is surrounded by large shrubs. These shrubs will not be removed or trimmed during project implementation. There is also a stormwater basin located to the east of the BSA, it is classified as a Freshwater Emergent Wetland/Freshwater Pond (USFWS 2021b). However, no construction will occur within the stormwater basin and it is not part of the project area. Therefore, implementation of the proposed project will have no impact on any riparian habitat or other sensitive natural community.

Conclusion: No Impact.

c. Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

Impact Analysis: A freshwater pond classified as PUSCr is in Parcel B, Heil Separator Area, the northeast corner of the study area. This pond is approximately 0.05 acres and is classified as the Palustrine (P) system, which is a nontidal wetland, lacking vegetation, is less than 8 acres with a water depth of less than 8.2 feet. The pond is under the class Unconsolidated Shore (US), which includes wetlands with the following characteristics; less than 75 percent areal cover of stones, boulders or bedrock and less than 30 percent areal cover of vegetation. This freshwater pond is also under the category of as wetland that is seasonally flooded and is concrete line. The water regime is characterized as seasonally flooded (C), which indicates surface water is present for extended periods generally early in the growing season but is absent by the end of the growing season in most years. The last wetland classification code is an artificial substrate (r), which indicates that the pond is a concrete-lined wetland. This pond is a decommissioned Heil Separator formerly used for the separation of oil and water associated with ethylene production, the northeast side of the pond is lined with shrubs, however this pond is not expected to be removed or back filled during project implementation. Therefore, project implementation would have no impacts with respect to wetlands as defined by Section 404 of the Clean Water Act.

d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Impact Analysis: As stated previously, the project site is a previously developed industrial property in a highly industrial area. Within the vicinity of the project site, there are no large areas of natural habitat that would facilitate wildlife movement or serve as a wildlife corridor. The project would not involve any changes to the existing use of the project site and would not impede movement of any species. Although a few mature trees are present on the project site, implementation of the proposed project would not adversely impact native resident wildlife species potentially occurring on the site. The MBTA and California Fish and Game Code 3503 protect most native bird species from destruction or harm. This protection extends to individuals, as well as any part, nest, or eggs of any bird listed as migratory. Most native North American bird species are on the MBTA list. However, because there is no demolition of structures proposed, project implementation would not result in any adverse impacts to nesting birds potentially occurring on the project site. In addition, approval of the proposed project is considered a planning action and does not include any physical improvements that would result in impacts to wildlife movement corridors. Future individual projects subject to discretionary approval would be subject to separate environmental review on a project-specific basis, in accordance with the provisions of CEQA and the State CEQA Guidelines. Therefore, the proposed project would have no impact on migratory birds on the project site.

Conclusion: No Impact.

e. Conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

<u>Impact Analysis:</u> The City of Torrance Municipal Code (Ordinance 75.1.5) and the Los Angeles County Oak Tree Ordinance (Section 22.56.2050) regulates the care and removal of trees on public property. The parcel is privately owned and there are several shrubs on the east side of the pond in the Heil Separator Area of the study area however, no vegetation/tree removal or trimming is anticipated. Therefore, the proposed project would not conflict with any local policies or ordinances protecting biological resources.

Conclusion: No Impact.

f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

<u>Impact Analysis:</u> There are no adopted Habitat Conservation Plans (HCPs), Natural Communities Conservation Plans (NCCP), or other similar plans within the City. Therefore, the project would not conflict with any plan related to the protection of biological resources.

Conclusion: No Impact.

References Used: 9, 11, 13, 32, 49, 50

5. CULTURAL RESOURCES							
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact			
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in §15064.5?				\boxtimes			
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?				\boxtimes			
c) Disturb any human remains, including those interred outside of dedicated cemeteries?				\boxtimes			

REGULATORY SETTING (LAWS, ORDINANCES, REGULATIONS, STANDARDS):

Cultural resources in California are protected by federal, state, and local regulations, statutes, and ordinances. Cultural resources are defined as buildings, sites, structures, or objects, each of which may have historical, architectural, archaeological, cultural, and/or scientific importance. State and federal laws use different terms for cultural resources. California state law discusses significant cultural resources as "historical resources," whereas federal law uses the terms "historic properties" and "historic resources." In all instances where the term "resource" or "resources" is used, it is intended to convey the sense of both state and federal law.

State:

- California Register of Historical Resources: The California Register of Historical Resources (CRHR) was created to identify resources deemed worthy of preservation on a state level and was modeled closely after the National Register of Historic Places. Resources listed on the National Register are automatically listed on the CRHR. The criteria for eligibility for listing in the CRHR are based on National Register criteria but are identified as 1 through 4 instead of A through D. To be eligible for listing in the CRHR, a property must be at least 50 years of age and possess significance at the local, state, or national level, under one or more of the following four criteria:
 - 1. It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States; or
 - 2. It is associated with the lives of persons important to local, California, or national history; or
 - 3. It embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values; or
 - 4. It has yielded, or has the potential to yield, information important in the prehistory or history of the local area, California, or the nation.

In addition to meeting one or more of the above criteria, historic resources eligible for listing in the CRHR must retain enough of their historic character or appearance to be able to convey the reasons for their significance. Such integrity is evaluated regarding the retention of location, design, setting, materials, workmanship, feeling, and association.

ENVIRONMENTAL SETTING (BASELINE):

The project site is in a completely developed area dominated by industrial uses. The inactive Torrance facility was built in 1956; prior to its construction, the project site was undeveloped sand dunes (U.S. Geological Survey [USGS] 1896, 1951). No watercourses were historically depicted near the project site. Geologically, the project site is mapped as "Qos," which is older Pleistocene stabilized dune and drift sand (Dibblee et al. 1999). Soils in the project site are Urban Land-Marina complex (University of California, Davis 2021). "Urban Land" soils have been heavily modified by development; Marina series soils are well-developed loamy sandy soils that formed in old sand dunes near the coast (National Cooperative Soil Series 2001). As soils in the project site date to the Pleistocene, the potential for buried archaeological resources is low because the soils pre-date human occupation of the area.

Precontact Setting

The first evidence of human occupation in the Los Angeles area dates to at least 9000 years B.P. (McCawley 1996). The broader peopling of the Los Angeles Basin is associated with the Millingstone period, beginning approximately 6500 B.P. (Wallace 1955). Early Millingstone occupations are typically identified by the presence of handstones (manos) and millingstones (metates). By 3500 B.P., a number of socioeconomic changes occurred (Erlandson 1994; Wallace 1955) that are associated with the period known as the Intermediate Horizon (Wallace 1955). Increasing population size necessitated the intensification of existing terrestrial and marine resources (Erlandson 1994). The Intermediate Horizon marks a period in which specialization in labor emerged, trading networks became an increasingly important means by which both utilitarian and nonutilitarian materials were acquired, and travel routes were extended. Archaeological evidence suggests that the margins of numerous rivers, marshes, and swamps in the Los Angeles Basin served as ideal locations for prehistoric settlement during this period.

The Late Prehistoric period spans from approximately 1500 B.P. to the Spanish mission era. A sharp increase in the number of components seems to indicate population growth at this time, and artifact assemblages reflect continued technological improvements.

Ethnographic Setting

The project site is in territory traditionally occupied by the Tribe known to anthropologists and historians as the Gabrielino and which tribal descendants call the Tongva or Kizh. The Gabrielino are estimated to have numbered around 5,000 in the precontact period (Kroeber 1925 [reprinted 1976]). The coast from San Pedro north to Topanga Canyon was inhabited year-round; secondary subsistence villages were concentrated inland near resources such as sage stands or acorn or pine nut groves (Bean and Smith 1978).

Spanish explorers made brief visits to Gabrielino territory in 1542 and 1602, and on both occasions, the two groups exchanged trade items. Sustained contact with Europeans did not begin until after 1769, when Gaspar de Portolá and a small Spanish contingent began their exploratory journey along the California coast from San Diego to Monterey. A string of 21 missions was established in the years that followed the Portolá expedition, including Mission San Gabriel Arcángel in 1771. Gabrielino people remain in their traditional territory, which includes Los Angeles County, and continue to engage in traditional cultural practices.

Historic Period Setting

Rancho San Pedro lands, located between Los Angeles and San Pedro Bay, were essential in the development of commerce and industry in the region. In 1854, Manuel Dominguez sold 2,400 acres to a group of investors who planned to develop a commercial port of entry at the mouth of the Los Angeles River and constructed new docks at San Pedro in 1857. In 1869, the 21-mile-long Los Angeles & San Pedro Railroad, the first in Southern California, was constructed to transport goods from the port to the city through portions of Rancho San Pedro. A second port was established in Redondo Beach in the 1880s and by 1888, the Atchison, Topeka and Santa Fe (AT&SF) Railway had been constructed, terminating in Redondo Beach (McCandless n.d.).

Torrance developed as a model industrial city on former Rancho San Pedro land in 1912 under the auspices of the Dominguez Land Company (City of Torrance n.d.). Several companies, including Union Tool Company and Pacific Electric Railway, built factories in Torrance. Industrial war production, including chemical manufacturing, exponentially expanded during WWII. In the postwar period, the population of Torrance grew rapidly. Other large companies that moved to Torrance included Dow Chemical and Reynolds Metals Company. A total of 78,000 new residents moved to Torrance between 1950 and 1960. By 1970, Torrance, with 134,584 people, was the third-largest city in Los Angeles County and the 11th most populous city in California. Although the population declined after 1970, housing increased. Economic revitalization efforts began during the 1980s, with new residential developments and new manufacturing corporations (City of Torrance n.d.). The extant UCC Torrance facility was built in 1956 for polyethylene manufacturing. It operated until 1982, when the manufacturing operations were discontinued and much of the facility was decommissioned.

Previous Cultural Resource Studies

A records search was conducted on June 19, 2020 at the South Central Coastal Information Center (SCCIC) for a project adjacent to the current project area (Records Search File No. 21343.7477) that included the project site and a 0.25-mile radius (Attachment A). One previous cultural resource study included the current project site:

• LA-10333: McKenna, Jeanette M., 2009. A Brief Historic Context Statement Prepared for the General Plan Update: The City of Torrance, Los Angeles County, California

No resources were identified in the project site as a result of this survey.

Three additional surveys were conducted within a 0.25-mile radius of the project site:

- LA-02904: Stickel, Gary E., 1993. Draft Report: A Phase I Cultural Resources Literature Search for the West Basin Water Reclamation Project.
- LA-04760: Duke, Curt, 1999. Cultural Resource Assessment for Pacific Bell Mobile Services Facility La586-02, County of Los Angeles, California. [copy not provided by SCCIC]
- LA-11150: Maxwell, Pamela, 2003. West Basin Municipal Water District Harbor/South Bay Water Recycling Project.

Previously Recorded Cultural Resources

The SCCIC records search identified one previously recorded cultural resource mapped within 0.25 mile of the proposed project area. This resource, P-19-000100 (CA-LAN-100), was recorded as one of a series of small precontact campsites in Torrance by F.H. Racer in 1939 (Attachment A). Racer states, "The only artifacts I know of being found there was a large metate and a mano stone," i.e., prehistoric stone tools (Racer 1939:5). Racer also notes these artifacts "may have been extraneous" (Racer 1939:5), although he does not explain what he means by extraneous. The precise location where these artifacts was found is not recorded, but the site is documented near the intersection of 190th Street and Hawthorne Boulevard approximately 0.2 miles northwest of the project site. The site appears on the SCCIC's maps as a 500-foot-diameter circle with its midpoint within the intersection. The site was not evaluated for significance at its time of recordation and it has not been relocated.

California Historical Landmarks

California Historical Landmarks are buildings, structures, sites, or places that have been determined to have statewide historical interest. A search of the California Historical Landmarks list revealed no California Historic Landmarks within 0.25 mile of the proposed project area.

Archaeological Survey

An archaeological survey was not completed because the project site is completely developed. Approximately 80 percent of the site is covered with impervious surfaces (i.e., buildings, roads, and paved areas). The remaining approximately 20 percent is generally covered with gravel.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines and Public Resources Code Section 21074, the proposed project would have a significant impact related to cultural resources if it would:

- cause a substantial adverse change in the significance of a unique archaeological resource or a historical resource as defined in Section 21083.2 of the Public Resources Code and Section 15064.5 of the CEQA Guidelines, respectively; or
- disturb any human remains, including those interred outside formal cemeteries.

Section 15064.5 of the CEQA Guidelines defines "substantial adverse change" as physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of the resource would be materially impaired. The significance of a historical resource is materially impaired when a project results in demolition or material alteration in an adverse manner of those physical characteristics of a resource that:

- conveys its historical significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR;
- accounts for its inclusion in a local register of historical resources pursuant to Public Resources Code Section 5020.1(k) or its identification in a historical resources survey meeting the requirements of Public Resources Code Section 5024.1(g), unless the public agency reviewing the effects of the proposed project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
- conveys its historical significance and that justify its eligibility for inclusion in the CRHR, as determined by a lead
 agency for purposes of CEQA.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

No prior cultural resources studies have been performed for the proposed project.

A records search was conducted on June 19, 2020 at the South Central Coastal Information Center (SCCIC) for a project adjacent to the current project area (Records Search File No. 21343.7477) that included the current project site and a 0.25-mile radius. The results of this records search were used for the current project. The inventories of the National Register of Historic Places (NRHP), the CRHR, the California State Historic Resources Inventory (HRI), and the California Historical Landmarks and Points of Interest were also reviewed to identify cultural resources within a 0.25-mile radius of the project site. Supplemental research was conducted to provide contexts for the project area.

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Cause a substantial adverse change in the significance of a historical resource pursuant to in §15064.5?

<u>Impact Analysis:</u> No previously recorded historical resources were identified in the project site. The extant UCC Torrance facility was originally constructed in 1956 for polyethylene manufacturing and has since been modified multiple times to accommodate new uses and its decommission in 1982. The proposed project would not involve the construction or demolition of permanent structures. Project work would include the injection of an aqueous solution into the aquifer (Area 1); excavation to remediate soils (Areas 2 and 4); and the installation of a soil vapor extraction system, including subsurface horizontal vapor extraction wells (Areas 2 and 3). Extensive remedial investigations and sampling have occurred at the facility since 1972; the proposed work would be consistent with these prior activities. The proposed project activities would not cause any adverse change in the significance of a historical resource as defined in §15604.5.

Conclusion: No Impact.

b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5

Impact Analysis: No previously recorded archaeological resources were identified in or adjacent to the project site and the archaeological sensitivity of the project site appears low. One previously recorded precontact site is within 0.25-mile of the project site; however, the site is poorly documented. The project site is not situated near any natural watercourses or springs, suggesting lower sensitivity. Geologically, the project site is underlain by a Pleistocene-age landform and soils in the project site are well-developed, having formed in old sand dunes. If archaeological resources had been present in the project site, they would have been present at the surface (i.e., not buried) due to the age of the landform. Considering the project site has been heavily modified since the precontact era, it is unlikely any archaeological resources would remain present and intact in the project site. Aside from the construction of the original facility, extensive remedial investigations and sampling have occurred at the facility since 1972; the proposed work would be consistent with these prior activities. The proposed project activities would not cause any adverse change in the significance of an archaeological resource as defined in §15604.5.

Conclusion: No Impact.

c. Disturb any human remains, including those interred outside of dedicated cemeteries?

<u>Impact Analysis:</u> No indications of human remains, including those interred outside dedicated cemeteries, were identified during background research for the proposed project. In the unlikely event that human remains are encountered during implementation of the project, those remains would require proper treatment in accordance with applicable laws.

Conclusion: No Impact.

References Used: 1, 3, 19, 24, 26, 33, 35, 40, 51, 52

6. ENERGY				
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?				
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				

The regulatory background of energy plans, policies, regulations, and laws is presented below. Generally, these plans, policies, regulations, and laws do not directly apply to the proposed project, but are presented to provide context to the regulatory setting.

Federal

- Energy Policy and Conservation Act of 1975: The Energy Policy and Conservation Act of 1975 established the first fuel economy standards for on-road motor vehicles sold in the United States. The National Highway Traffic and Safety Administration is responsible for establishing standards for vehicles and revising the existing standards. The Corporate Average Fuel Economy program was created to determine vehicle manufacturers' compliance with the fuel economy standards. The USEPA administers the testing program that generates the fuel economy data. The Energy Policy and Conservation of 1975 has been amended and includes energy efficiency programs for certain commercial and industrial equipment, including pump energy conservation standards.
- National Energy Act of 1978: The National Energy Act of 1978 includes the Public Utility Regulatory Policies Act (Public Law 95-617), Energy Tax Act (Public Law 95-318), National Energy Conservation Policy Act (Public Law 95-619), Power Plant and Industrial Fuel Use Act (Public Law 95-620), and Natural Gas Policy Act (Public Law 95-621). The intent of the National Energy Act was to promote greater use of renewable energy, provide residential consumers with energy conservation audits to encourage slower growth of electricity demand, and promote fuel efficiency. The Public Utility Regulatory Policies Act created a market for nonutility electric power producers to permit independent power producers to connect to their lines and to pay for the electricity that was delivered. The Energy Tax Act promoted fuel efficiency and renewable energy through taxes and tax credits. The National Energy Conservation Policy Act required utilities to provide residential consumers with energy conservation slower growth of electricity demand.
- Energy Policy Acts of 1992 and 2005: The Energy Policy Act of 1992 was enacted to reduce dependence on imported petroleum and improve air quality by addressing all aspects of energy supply and demand, including alternative fuels, renewable energy, and energy efficiency. This law requires certain federal, state, and local government and private fleets to purchase alternative fuel vehicles. The act also defines "alternative fuels" to include fuels such as ethanol, natural gas, propane, hydrogen, electricity, and biodiesel. The Energy Policy Act of 2005 was enacted on August 8, 2005. This law set federal energy management requirements for energy-efficient product procurement, energy savings performance contracts, building performance standards, renewable energy requirements, and use of alternative fuels. The Energy Policy Act of 2005 also amends existing regulations, including fuel economy testing procedures.
- Energy Independence and Security Act of 2007: Signed into law in December 2007, the Energy Independence and Security Act was enacted to increase the production of clean renewable fuels; increase the efficiency of products, buildings, and vehicles; improve the federal government's energy performance; and increase U.S. energy security, develop renewable fuel production, and improve vehicle fuel economy. The Energy Independence and Security Act included the first increase in fuel economy standards for passenger cars since 1975. The act also included a new energy grant program for use by local governments in implementing energy-efficiency initiatives, as well as a variety of green building incentives and programs.

- Renewable Fuel Standard Program: Created by the Energy Policy Act of 2005, which amended the CAA, the Renewable Fuel Standard Program established requirements to replace certain volumes of petroleum-based fuels with renewable fuels. The four renewable fuel types accepted as part of the Renewable Fuel Standard Program are biomass-based diesel, cellulosic biofuel, advanced biofuel, and total renewable fuel. The 2007 Energy Independence and Security Act expanded the program and its requirements to include long-term goals of using 36 billion gallons of renewable fuels and extending annual renewable-fuel volume requirements to year 2022. "Obligated parties" such as refiners and importers of gasoline or diesel fuel must meet specific blending requirements for the four renewable fuel types. USEPA implements the program in consultation with U.S. Departments of Agriculture and Energy. The obligated parties are required to demonstrate their compliance with the Renewable Fuel Standard Program.
- State
 - Senate Bills 1078 and 107, Executive Orders S-14-08 and S-21-09, and Senate Bills 350 and 100: Senate Bill (SB) 1078 (Chapter 516, Statutes of 2002) required retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 20 percent of their supply from renewable sources by 2017. SB 107 (Chapter 464, Statutes of 2006) changed the target date to 2010. Executive Order S-14-08 expanded the state's Renewables Portfolio Standard (RPS) to 33 percent renewable power by 2020. Executive Order S-21-09 directs the CARB, under its AB 32 authority, to enact regulations to help the state meet its RPS goal of 33 percent renewable energy by 2020. The 33 percent-by-2020 goal and requirements were codified in April 2011 with SB X1-2. This new Renewables Portfolio Standard applies to all electricity retailers in the state, including publicly owned utilities, investor-owned utilities, electricity service providers, and community choice aggregators. This was followed by SB 100 in 2018, which further increased the RPS to 60 percent by 2030 and added the requirement that all state's electricity come from carbon-free resources by 2045. These requirements reduce the carbon content of electricity generation and would reduce GHG emissions associated with both existing and new development.

Local

• City of Torrance Energy Efficiency Climate Action Plan: In December 2015, the City of Torrance prepared the City's Energy Efficiency Climate Action Plan (EECAP) to set energy efficiency reduction targets to become more energy efficient. The EECAP provides the framework to implement and monitor energy efficiency strategies in the City that are feasible, cost-effective, and improve the quality of life for its citizens. Further, the EECAP serves as a foundation for developing a comprehensive Climate Action Plan (CAP), which would expand the strategies for reducing GHG emissions to all sectors of the City's economy, including transportation and solid waste.

There are no specific regulations or policies that relate to construction energy consumption or efficiency other than construction waste recycling policies and regulations that are related to the State's Climate Change Scoping Plan that may indirectly reduce energy consumption related to the proposed project's fuel or materials use. Compliance and conformance with these regulations and policies is discussed in Section 8, Greenhouse Gas Emissions.

ENVIRONMENTAL SETTING (BASELINE):

The project site consists of an inactive terminal and distribution center. Approximately 80 percent of the 37-acre UCC Torrance facility, including the project site, is covered with impervious structures consisting of buildings, roads, or paved areas. The UCC Torrance facility was built in 1956 for polyethylene manufacturing and operated until 1982, when the manufacturing operations were discontinued and much of the facility was decommissioned. Electric services in the project area are provided by Southern California Edison (SCE). SCE is one of the largest electric utilities in the United States and serves approximately 15 million people in a 50,000 square-mile area of central, coastal and Southern California.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to geological resources if it would:

- Result in potentially significant impacts due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Result in potentially significant impacts due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

<u>Impact Analysis:</u> Energy efficiency is a possible indicator of environmental impacts. The actual adverse physical environmental effects of energy use and the efficiency of energy use are detailed throughout this Initial Study in the environmental topic–specific sections. For example, the use of energy for electricity consumption leads to greenhouse gas (GHG) emissions, the impacts of which are addressed in Section 8, "Greenhouse Gas Emissions." There is no physical environmental effect associated with energy use that is not addressed in the environmental topic–specific sections of this Initial Study.

Energy consumption during construction of the proposed project would involve energy used by construction equipment, haul trucks, and workers' commute vehicles. Heavy-construction equipment, such as excavators, rubber tired loader, forklifts, and heavy trucks, would primarily use diesel fuel, while work trucks (pickups) and personal vehicles used for commuting would primarily be gasoline-fueled. Based on the anticipated off-road equipment usage, haul truck trips, worker trips, and diesel fuel for the generator, it is estimated that the annual energy demand would be approximately 2,277 million British thermal unit (MMBtu). Additional details are provided in Appendix A. Based on the anticipated phasing of the proposed project, anticipated equipment and construction work staff, temporary nature of construction, and project type, the proposed project would not include unusual characteristics that would necessitate the use of construction equipment that is less energy-efficient than at comparable construction sites.

In addition, contractors are required, in accordance with the CARB Airborne Toxic Control Measure for Diesel-Fueled Commercial Motor Vehicle Idling, to minimize idling time of construction equipment by shutting equipment off when not in use or reducing the time of idling to 5 minutes. These required practices limit wasteful and unnecessary energy consumption. Further, as described in the RAP, prior to subsurface work, utility clearance will be requested to verify potential conflicts to avoid any disruptions. Therefore, it is expected that fuel consumption associated with construction of the proposed project would not be inefficient, wasteful, or unnecessary.

As discussed previously, operation of the proposed project would be limited to operation of a diesel generator to power an electric vacuum blower and a weekly visit by a technician. Therefore, the proposed project is not anticipated to increase electricity demand or affect the existing energy infrastructure in the region.

Conclusion: Less than Significant Impact.

b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

<u>Impact Analysis:</u> The proposed project is not using land that was otherwise slated for renewable energy production and does not otherwise conflict with any state or local renewable energy plans. Therefore, this project's construction would not obstruct any state or local plans for renewable energy and would conform with state and local plans for energy efficiency. In addition, the purpose of the proposed project is to reduce the identified contaminants of concern concentrations in the soil, soil vapor, and groundwater to levels protective of human health and the environment, preventing further off-site migration of the contaminants. Therefore, this project's operation and maintenance would not obstruct any state or local plans for renewable energy and or energy efficiency

Conclusion: No Impact.

References Used: None.

7. GEOLOGY AND SOILS				
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
 Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. 				
ii) Strong seismic ground shaking?				\boxtimes
iii) Seismic-related ground failure, including liquefaction?				\boxtimes
iv) Landslides?				\boxtimes
b) Result in substantial soil erosion or the loss of topsoil?			\boxtimes	
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				X
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?				
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				

The following subsections discuss the various codes, regulations and policies applicable to geology and soils at the federal, state and local levels.

- National Earthquake Hazards Reduction Program Reauthorization Act of 2004: The Earthquake Hazards Reduction Act {(Public Law 95-124, 42 U.S.C. 7701 et. seq.), as amended by Public Laws 101614, 105-47, 106-503, and 108-360.} was enacted in 1977 to "reduce the risks to life and property from future earthquakes in the United States through the establishment and maintenance of an effective earthquake hazards and reduction program." To accomplish this, the Act established the National Earthquake Hazards Reduction Program.
- Alquist-Priolo Earthquake Fault Zoning Act: The Alquist-Priolo Earthquake Fault Zoning Act (Public Resources Code Section 2621-2624, Division 2, Chapter 7.5) was enacted in 1972 to address the hazard of surface faulting to structures for human occupancy. The primary purpose of the Alquist-Priolo Earthquake Fault Zoning Act is to

prevent the construction of buildings intended for human occupancy on the surface traces of active faults. Local agencies must enforce the Alquist-Priolo Earthquake Fault Zoning Act in the development permit process, where applicable, and may be more restrictive than state law requires. A 50-foot building setback from any known trace of an active fault is required. The Alquist-Priolo Earthquake Fault Zoning Act and its regulations are presented in California Department of Conservation, California Geological Survey, Special Publications (SP) 42, Fault-rupture Hazard Zones in California.

• Seismic Hazards Mapping Act: The Seismic Hazards Mapping Act of 1990 (Public Resources Code Section 2690-2699) addresses the effects of strong ground shaking, liquefaction, landslides, and other ground failures due to seismic events. Under the Seismic Hazards Mapping Act, the State Geologist is required to delineate "seismic hazard zones." Under Public Resources Code Section 2697, cities and counties shall require, prior to the approval of a project located in a seismic hazard zone, a geotechnical report defining and delineating any seismic hazard.

ENVIRONMENTAL SETTING (BASELINE):

The UCC Torrance facility lies in the Torrance Plain, a physiographic province within the broad coastal plain of the greater Los Angeles area. The broad coastal plain is bordered on the west and south by the Pacific Ocean, on the north by the Santa Monica Mountains, on the east by the Puente Hills, and on the southeast by the Santa Ana Mountains and the San Joaquin Hills. The Torrance Plain is an older geomorphic surface that is west of and parallel to the belt of hills that occur along the Newport-Inglewood structural zone, and is bounded on the west and southwest by the El Segundo Sand Hills and Palos Verdes Hills. The Newport-Inglewood structural zone is a composite faulted anticlinal belt that transects the coastal plain in a northwest-southeast direction and extends from Beverly Hills in the north to Seal Beach in the south. The belt of hills is the surface expression of deformation along the Newport-Inglewood fault zone and includes, from north to south, the Beverly, Baldwin, Rosecrans, Dominguez, Signal, Bixby Ranch, and Landing Hills. The Torrance Plain is a broad featureless area only slightly dissected by local streams.

The Torrance Plain is located within the West Coast groundwater basin, a northwest-southeast trending sub-basin of the Los Angeles coastal groundwater basin. The physiographic boundaries of the West Coast basin are the Ballona Escarpment on the north; the Baldwin, Rosecrans and Dominguez Hills on the east; and the Pacific Ocean on the south and west. The Palos Verdes Hills bound the southwest corner of the basin.

The site-specific geology and hydrogeology consists of mixed sands, varying amounts of silt and clay, as well as two water bearing zones: the shallow Perched Zone groundwater zone and the deeper Gardena-Gage aquifer. as Detailed discussions of site geology and hydrogeology are provided in the *Phase II RI Report* (Montgomery Watson, 2000) and in the *Phase I Environmental Site Assessment* report for Parcels B and C (URS, 2010).

The Lynwood-Silverado aquifer underlies the Gardena-Gage aquifer; however, this unit has not been encountered through on-site activities. The Lynwood-Silverado aquifer lies at 300 to 600 feet bgs and has been extensively developed for water supply. A series of barrier injection wells is maintained west of the project site vicinity to prevent seawater encroachment into the Silverado aquifer system.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to geological resources if it would:

- Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, strong seismic ground shaking, seismic-related ground failure, including liquefaction, and/or landslides.
- Result in substantial soil erosion or the loss of topsoil.
- Effect a geologic unit or soil unit that is unstable.
- Effect expansive soil.
- Lack ability to support the use of septic tanks.
- Directly or indirectly destroy a unique paleontological resources or site unique geologic feature.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

A Phase II RI Report and Phase I Environmental Site Assessment report for site geology at Parcels B and C was conducted and is included as an appendix to the proposed RAP. Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

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IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

<u>Impact Analysis</u>: The project site is not located within an Alquist-Priolo Earthquake Fault Zone. The closest known active fault that is zoned under the Alquist-Priolo Special Studies Zone Act is the Newport-Inglewood fault zone, located approximately five miles northeast of the project site.

Conclusion: No Impact.

ii) Strong seismic ground shaking?

<u>Impact Analysis</u>: The project is located within southern California, which is considered a seismically active region that can be expected to experience strong seismic shaking from future earthquakes generated by active faults. Earthquakes that will produce strong shaking at the project site may occur on mapped active or potentially active faults in the region, or on faults with little or no surface expression. Proposed construction of the project would be short-term and limited to the excavation and hauling of soil as well as the installation of additional monitoring wells. Operational activity would be limited to the implementation of ISGS, SVE, and controlled and restrictive monitoring activities, requiring the presence of affiliated personnel on site. No buildings are proposed within the RAP. The proposed project would not expose people or structures to the effects of strong seismic ground shaking.

Conclusion: No Impact.

iii) Seismic-related ground failure, including liquefaction?

<u>Impact Analysis</u>: The project site is not located within an area susceptible to liquefaction according to the City of Torrance General Plan. As such, seismic-related ground failure including liquefaction would not occur.

Conclusion: No Impact.

iv) Landslides

<u>Impact Analysis</u>: The project site is not located within an area prone to earthquake-induced landslides. Project activities will not expose people or structures to the effects of landslides.

Conclusion: No Impact.

b. Result in substantial soil erosion or the loss of topsoil?

<u>Impact Analysis</u>: Geologic borings and shallow excavations with a depth up to 10 feet will be conducted; however, these activities are not anticipated to result in soil erosion or loss of topsoil. Prior to conducting field activities, boring/well permits will be obtained from the Los Angeles County of Department of Health Services, Environmental Health, Bureau of Environmental Protection. Shallow soil excavations will be backfilled, compacted and restored to the original grade. Impacts are considered less than significant.

Conclusion: Less Than Significant Impact.

c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

<u>Impact Analysis</u>: Project activities are not located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially results in on or off-site landslide, lateral spreading, subsidence, liquefaction or collapse.

Conclusion: No Impact.

d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Impact Analysis: The site is not located on expansive soils. As such, substantial direct or indirect risks to life or property would not occur.

Conclusion: No Impact.

e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

Impact Analysis: No septic tanks or alternative wastewater disposal systems would be required with this project.

Conclusion: No Impact.

f. Directly or indirectly destroy a unique paleontological resources or site unique feature?

Impact Analysis: Paleontological resources or unique features have not been identified for the site.

Conclusion: No Impact.

References Used: 4, 5, 15, 46, 47,

8. GREENHOUSE GAS EMISSIONS				
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				

The USEPA is the federal agency responsible for implementing the federal CAA. The Supreme Court of the United States ruled on April 2, 2007, that USEPA must consider regulation of motor vehicle emissions, and that the USEPA had the authority to regulate greenhouse gas (GHG) emissions. In California, CARB is the agency responsible for coordination and oversight of state and local air pollution control programs regulating GHG emissions and for implementing the California CAA.

<u>State</u>

- Assembly Bill 32: In 2006, California passed the California Global Warming Solutions Act of 2006 (AB 32; California Health and Safety Code Division 25.5, Sections 38500, et seq.). AB 32 further details and puts into law the mid-term GHG reduction target established in Executive Order S-3-05: reduce GHG emissions to 1990 levels by 2020. AB 32 also identifies CARB as the state agency responsible for the design and implementation of emissions limits, regulations, and other measures to meet the target. AB 32 also established several programs to achieve GHG emission reductions, including the Low Carbon Fuel Standard and the Cap-and-Trade program. As of 2017, the state has reduced emissions below the revised AB 32 limit of 427 MMT CO2e.
- Senate Bill 32: In 2016, the California State Legislature adopted Senate Bill (SB) 32 and its companion bill AB 197, and both were signed by Governor Brown (Office of Governor Edmund G. Brown Jr., 2016). SB 32 establishes a new climate pollution reduction target of 40 percent below 1990 levels by 2030.
- CARB Climate Change Scoping Plans: In December 2008, CARB adopted its Climate Change Scoping Plan. A Framework for Change (Scoping Plan), which contains the main strategies California will implement to achieve the required GHG reductions required by AB 32 (CARB 2008). The Scoping Plan also includes CARB recommended GHG reductions for each emissions sector of California's GHG inventory.

CARB is required to update the Scoping Plan at least once every 5 years to evaluate progress and develop future inventories that may guide this process. CARB approved First Update to the Climate Change Scoping Plan: Building on the Framework in June 2014 (CARB 2014). The Scoping Plan update includes a status of the 2008 Scoping Plan measures and other federal, state, and local efforts to reduce GHG emissions in California, and potential actions to further reduce GHG emissions by 2020.

In November 2017, CARB released the 2017 Climate Change Scoping Plan, which establishes a framework of action for California to reduce statewide emissions by 40 percent by 2030, compared to 1990 levels (CARB 2017). The 2017 Scoping Plan builds upon the framework established by the 2008 Scoping Plan and the 2014 Scoping Plan Update, while also identifying new, technologically feasible and cost-effective strategies to ensure that California meets its GHG reduction targets.

Local

 City of Torrance Climate Action Plan: The City of Torrance prepared a Climate Action Plan (CAP) in December 2017 (City of Torrance 2017). The CAP identifies emissions related to community activities, establishes GHG reduction targets consistent with AB 32 and SB 32. The GHG reduction measures are grouped into five strategy areas: land use and transportation; energy efficiency; solid waste; urban greening; and energy generation & storage.

ENVIRONMENTAL SETTING (BASELINE):

GHG emissions play a critical role in determining the earth's surface temperature. A portion of the solar radiation that enters earth's atmosphere is absorbed by the earth's surface, and a smaller portion of this radiation is reflected back toward space. Infrared radiation (i.e., thermal heat) is absorbed by GHGs; as a result, infrared radiation released from the earth that otherwise would have escaped back into space is instead "trapped," resulting in a warming of the atmosphere. This phenomenon, known as the "greenhouse effect," is responsible for maintaining a habitable climate on Earth.

GHGs are present in the atmosphere naturally, are released by natural sources, and are formed from secondary reactions taking place in the atmosphere. The following are GHGs that are widely seen as the principal contributors to humaninduced global climate change: carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆).

Global warming potential (GWP) is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to CO_2 . The GWP of a GHG is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time (i.e., lifetime) that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2 , the most abundant GHG. GHGs with lower emissions rates than CO_2 may still contribute to climate change because they are more effective at absorbing outgoing infrared radiation than CO_2 (i.e., high GWP). The concept of CO2-equivalents (CO_2e) is used to account for the different GWP potentials of GHGs to absorb infrared radiation.

CARB performs an annual GHG inventory for emissions and sinks of the six major GHGs. California produced 425 million metric tons (MMT) CO₂e in 2018 (CARB 2020). Combustion of fossil fuel in the transportation category was the single largest source of California's GHG emissions in 2018, accounting for 40 percent of total GHG emissions in the state. The transportation category was followed by the industrial and electric power (including in-state and unspecified imports) categories, which account for 21 and 15 percent of the state's total GHG emissions, respectively (CARB 2020).

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

The geographic scope of consideration for GHG emissions is on a global scale as such emissions contribute, on a cumulative basis, to global climate change. Given the nature of environmental consequences from GHGs and global climate change, CEQA requires that lead agencies evaluate the cumulative impacts of GHGs, even relatively small additions, on a global basis. By their nature, GHG evaluations under CEQA are a cumulative study. (See *Center for Biological Diversity v. California Department of Fish and Wildlife* [2015] 62 Cal.4th 204.)

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to greenhouse gas emissions if it would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.
- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

As stated in the CEQA Guidelines, these questions are "intended to encourage thoughtful assessment of impacts and do not necessarily represent thresholds of significance" (Title 14, Division 6, Chapter 3 Guidelines for Implementation of the CEQA, Appendix G, VII Greenhouse Gas Emissions). The CEQA Guidelines encourage but do not require lead agencies to adopt thresholds of significance (CEQA Guidelines, §15064.7). When developing these thresholds, and consistent with the December 2018 CEQA and Climate Change Advisory published by the California Office of Planning and Research (OPR 2018), the Guidelines allow lead agencies to develop their own significance threshold and/or to consider thresholds of significance adopted or recommended by other public agencies, or recommended by experts, provided that the thresholds are supported by substantial evidence. Individual lead agencies may also undertake a case-by-case approach for the use of significance thresholds for projects consistent with available guidance and current CEQA practice (OPR 2018).

As DTSC has not established screening thresholds for GHG emissions, the analysis uses the applicable significance thresholds developed by the SCAQMD. The SCAQMD has adopted a significance threshold of 10,000 MT of CO₂e per year for industrial (stationary source) projects. The GHG CEQA Significance Threshold Stakeholder Working Group also recommended options for evaluating non-industrial projects, including thresholds for residential and commercial projects. These draft thresholds include a threshold 3,000 MT CO₂e per year for residential and commercial projects (SCAQMD 2008).

The proposed project type is closest to an industrial project (i.e., doesn't include residential and commercial land uses); therefore, this analysis compares the construction-related and operational emissions to the SCAQMD threshold of 10,000 MT CO₂e per year. The 10,000 MT CO₂e threshold was developed in 2008 and was intended to ensure at least 90 percent of new GHG emissions would be reviewed and assessed for mitigation, thereby contributing to GHG emissions reduction goals of AB 32. However, the proposed project's remediation activities would begin in 2021; thus, construction-related GHG emissions should also be analyzed in the SB 32 statewide framework (which established a 2030 GHG emissions reduction target of 40 percent below 1990 levels).

However, the SCAQMD has not adopted a threshold of significance consistent with SB 32 goals. To provide this additional information to put the project-generated GHG emissions in the appropriate statewide context, this analysis presumes that a 40 percent reduction in the SCAQMD's existing threshold (resulting in 6,000 MT CO₂e) is necessary to achieve the State's 2030 GHG reduction goal (which is a 40 percent reduction below 1990 GHG emissions levels). This analysis also reviewed guidelines used by other public agencies. For example, the Sacramento Metropolitan Air Quality Management District (SMAQMD) has identified an annual threshold of 1,100 MT CO₂e for the construction phase of projects and a 10,000 MT CO₂e annual threshold for stationary source operational emissions (SMAQMD 2021). Although the SMAQMD recognizes that, although there is no known level of emissions that determines if a single project will substantially impact overall GHG emissions levels in the atmosphere, a threshold must be set to trigger a review and assessment of the need to mitigate project GHG emissions. The threshold set by the SMAQMD was developed to allow lead agencies to assess the consistency of proposed projects with the AB 32 and SB 32 reduction goals. Therefore, this analysis utilizes the 1,100 MT CO₂e threshold developed by SMAQMD for the construction phase of all project types for conservative purposes.

It is not the intent of this CEQA document to cause the adoption of these thresholds as mass emissions limits for this or other projects, but rather to provide this additional information to put the project-generated GHG emissions in the appropriate statewide context.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

Construction-related and operational GHG emissions were estimated using the methodology discussed earlier under Section 3, Air Quality.

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

<u>Impact Analysis:</u> Heavy-duty off-road equipment, materials transport, and worker commutes during construction of the proposed project would result in exhaust-related GHG emissions. Construction of the proposed project would result in the generation of approximately 315 metric tons of CO₂e.

Following construction, operational activities associated with the proposed project are anticipated to be limited to operation of a diesel generator (24 hours per day) to power an electric vacuum blower and one weekly visit by a technician. Table 8-1 summarizes the operational emissions and amortized construction GHG emissions associated with the proposed project.

As shown in Table 8-1, the construction-related and operational emissions of the proposed project would not exceed SCAQMD's adopted significance threshold of 10,000 MT CO₂e per year, the adjusted SB 32 threshold of 6,000 MT CO₂e per year, nor the SMAQMD annual thresholds of 1,100 and 10,000 MT CO₂e. Therefore, the proposed project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.

Emissions Category	Metric Tons CO ₂ e
Construction ¹	315
Annual Operational Emissions – Mobile Sources	<1
Annual Operational Emissions – Diesel Generator	157
Annual Operational Emissions Subtotal	158
Total	473

Table 8-1 Estimated GHG Emissions

Notes: Modeled by AECOM in 2021.

¹ Construction of the remediation activities are a short-term source of emissions. These emissions would cease following installation and completion of the proposed remedial actions. Totals may not add due rounding.

Conclusion: Less Than Significant Impact.

b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

<u>Impact Analysis:</u> As discussed above, in response to AB 32 and SB 32, CARB has approved a series of Climate Change Scoping Plans and Scoping Plan updates. While the Scoping Plan updates do include measures that would indirectly address GHG emissions associated with construction and operational activities, including the phasing in of cleaner technology for diesel engine fleets (including construction equipment) and Low Carbon Fuel Standard, successful implementation of these measures predominantly depends on the development of laws and policies at the state level. As such, none of these statewide plans or policies constitutes a regulation to adopt or implement a regional or local plan for reduction or mitigation of GHG emissions. Thus, it is assumed that any requirements or policies formulated under the mandate of AB 32 and SB 32 that would be applicable to the project, either directly or indirectly, would be implemented consistent with statewide policies and laws.

In December 2017, The City of Torrance adopted the CAP. The CAP includes GHG reduction strategies grouped into five strategy areas: land use and transportation; energy efficiency; solid waste; urban greening; energy generation and storage. The CAP does not include strategies applicable to the remediation activities associated with the proposed project. Thus, the proposed project would not conflict with the City of Torrance CAP, AB 32 and SB 32 Scoping Plan; or any other relevant plans, policies, or regulations for the purpose of reducing GHG emissions. Therefore, the proposed project's contribution to cumulatively significant impacts to global climate change would not be considerable.

Conclusion: Less Than Significant Impact

References Used: 14, 21, 36, 38, 41, 43

9. HAZARDS AND HAZARDOUS MATERIALS				
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one- quarter mile of an existing or proposed school?				
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?				

Federal:

• The U.S. Department of Transportation (DOT): The U.S. DOT regulates the transport of hazardous materials under Title 49 of the Code of Federal Regulations (CFR, Title 49). Title 49 prohibits the release of hazardous materials to the environment and requires all containers to meet strict standards for impact resistance, strength, and packing compatibility. In addition, Title 49 contains specific requirements for the training of drivers in inspection, operation of vehicles, loading and unloading of materials, the properties and hazards of the materials transported, and the use of vehicle controls and equipment, including operation of emergency equipment. The proposed project would be subject to DOT requirements related to the use, generation, storage, and disposal of hazardous wastes.

<u>State:</u>

• **Titles 22, 23, and 27 of the California Code of Regulations**: In California, Titles 22 and 23 of the California Code of Regulations (CCR) address hazardous materials and wastes. Title 22 defines, categorizes, and lists hazardous materials and wastes, including universal wastes. Title 23 addresses public health and safety issues related to hazardous materials and wastes, and it specifies disposal options. Title 27 of the CCR addresses

landfill closure standards and landfill-related public health and safety issues. The proposed RAP would be subject to requirements of this law related to the use, generation, storage, and disposal of hazardous wastes.

Local:

- **Contaminated Soil and Groundwater**: Under Water Code, Division 7, Section 13304 the Los Angeles RWQCB oversees investigation and mitigation of sites contaminated from USTs, wells, or other sources. Oversight by the Los Angeles RWQCB is not limited to specific pollutants or specific media but is focused on determining whether an unauthorized release may result in pollution of regional water bodies. In addition, SCAQMD Rule 1166 sets control requirements for volatile organic compound (VOC) emissions from excavating, grading, handling, or treating contaminated soil and SCAQMD Rule 1150 requires implementation of an approved Excavation Management Plan for excavations of landfill material. Requirements include development and approval of a mitigation plan, notification to SCAQMD, monitoring, and handling requirements for the contaminated soil.
- Regulation 29, CFR, Section 19 10.120, Hazardous Waste Operations and Emergency Response: The Los Angeles Fire Department (LAFD) regulates storage and disposal of hazardous materials through enforcement and education programs. The LAFD manages the Hazardous Waste Generator Inspection Program and California Accidental Risk Prevention (CalARP) Program, which requires facilities with greater than threshold levels of hazardous materials to file a hazardous materials inventory that includes storage locations and emergency contact information for the facility. The LAFD oversees the Hazardous Materials Inspection/Business Plan Program to monitor compliance with hazardous materials storage requirements. The Hazardous Materials Division also works with the LAFD to respond to chemical emergencies to ensure proper containment and clean up. Regulation 29, CFR, Section 19 10.120, Hazardous Waste Operations and Emergency Response, under the authority of the federal Occupational Safety and Health Administration (OSHA) and Cal/OSHA, outlines methods and requirements for workers who handle or are potentially exposed to hazardous wastes and materials.

The transportation of hazardous materials would be regulated by the U.S. Department of Transportation (USDOT), California Department of Transportation (Caltrans), and California Highway Patrol (CHP). Together, federal and state agencies determine driver-training requirements, load labeling procedures, and container specifications designed to minimize the risk of accidental release.

ENVIRONMENTAL SETTING (BASELINE):

Environmental conditions requiring remediation in Area 1 consist of DNAPL releases to soil and Perched Zone groundwater. Dripolene is a pyrolysis fuel oil-water emulsion liquid that was generated along with quench water during the thermal cracking process for ethylene production. The Heil Separator Area located in the eastern portion of the facility was utilized for the separation of the dripolene from the quench water. Since implementation of enhanced DNAPL recovery in 2004 total VOC concentrations in Perched Zone groundwater have declined. Approximately 9 gallons of DNAPL have been removed; however, only limited quantities of DNAPL continue to slowly recover in monitoring wells MW-10 and -10R.

Environmental conditions requiring remediation in Area 2 and 3 consist of benzene plumes in the Perched Zone groundwater centered on monitoring well MW-17 in Area 2 and monitoring well MW-25 in Area 3. Although the source of the benzene plumes has not been fully determined, the observed plumes do coincide with a petroleum pipeline easement running north-south across the project site.

Environmental conditions requiring remediation in Area 2 consist of arsenic above its TCG in shallow soil. In Area 2, the remedy will consist of the implementation of the presumptive remedy of excavation and disposal for the arsenic-impacted soils and the establishment of ICs, through restrictive LUCs. Similar to Area 2, environmental conditions requiring remediation in Area 4 consist of naphthalene above its TCG in shallow soil.

In addition to the above identified contaminants, potential hazardous materials that will be used during construction in order to excavate and remove contaminted soils in Area 4. These materials include gasoline, diesel fuel, motor oil, hydraulic fluid, solvents, and cleaners. No acutely hazardous materials would be used or stored onsite during construction. Remedial activities include ISGS in Area 1, which would involve the emplacement of a permanganate-based amendment designed to promote the development of a mineral coating around the DNAPL, and an SVE system with horizontal wells to mitigate the potential vapor intrusion and/or off-site dissolved phase benzene groundwater impacts located in Area 2 and Area 3. Impacts associated with long-term operation and maintenance of the treatment plant would the same as the current conditions, with the potential to improve conditions based on the success of the proposed remedial activity.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to hazardous and hazardous materials if it would:

- Create an acute or adverse public health hazard through the release of hazardous materials into the environment.
- Expose humans, wildlife, wildlife habitat, and the general environment to hazardous materials.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details). Historical investigations and sampling, along with ongoing groundwater monitoring analytical data have informed the following analysis.

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Create a significant hazard to the public or the environment throughout the routine transport, use, or disposal of hazardous materials?

Impact Analysis: Project activities associated with the routine transport, use or disposal of hazardous materials that could create a hazard to the public include shallow excavation of impacted soil, installation of soil borings/SVE pilot test wells, gauging and sampling of groundwater monitoring wells, , and emplacement of a permanganate-based amendment via ISGS in order to promote the development of a mineral coating around the DNAPL. The remediation activities would be required to comply with numerous hazardous materials regulations designed to ensure that hazardous materials would be transported, used, stored, and disposed of in a safe manner to protect worker safety, and to reduce the potential for a release of construction-related fuels or other hazardous materials into the environment.

The remediation activities would involve the excavation of contaminated soil. The removal of this soil could result in exposing workers, the public, and the environment to hazardous materials. As described in the RAP, the existing site-specific Health and Safety Plan (HASP) will be updated by AECOM prior to initiating the planned investigative and remedial activities. The HASP will be prepared in accordance with current safety standards as defined by the USEPA, the Occupational Safety and Health Association (OSHA), and the National Institute of Occupational Safety and Health (NIOSH), and in accordance with guidelines set forth in Title 8 of the California Code of Regulations (CCR), Section 5192. The HASP will be employed during all remedial activities. The HASP is considered "evergreen" and it is expected to be frequently updated due to changing project site conditions and scope, therefore it was not included as an appendix to the RAP at this time, but will be made available for the DTSC to review prior to implementing a specific scopes of work such as excavation and disposal, or ISGS.

All waste disposal activities will be conducted in accordance with Federal and State waste management laws and regulations. Potential impacts from this process are considered less than significant.

Conclusion: Less Than Significant Impact.

b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

<u>Impact Analysis</u>: Should an accidental spill occur on the highway while transporting excavated soil, all DOT regulations for spills will be complied with. Potential receptors include anyone who comes in direct contact with the waste by way of direct skin contact or by ingesting the waste. If a spill occurs, the driver of the truck will notify the local authorities for implementation of clean-up activities. Since the trucks will be appropriately labeled, any waste spill clean-up workers will be able to adequately use the appropriate protective gear to deal with this waste. Additionally, the proposed SVE system is intended to mitigate the potential vapor intrusion and/or off-site dissolved phase benzene groundwater impacts.

Conclusion: Less Than Significant Impact.

c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances or waste within onequarter mile of an existing or proposed school?

<u>Impact Analysis</u>: No existing or proposed school sites were identified within 0.5 mile of the site. The facility is surrounded by similar industrial uses and various commercial uses.

Conclusion: No Impact.

d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

<u>Impact Analysis</u>: The site is under a Voluntary Cleanup Agreement with the California EPA (Department of Toxic Substances Control Docket No. HAS 95/96-032). Previous studies have shown the Heil Separator Area to be impacted by Dripolene (naphthalene), perched groundwater impacted by benzene, and shallow soils impacted with naphthalene and arsenic. The project site is not located on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5.

Conclusion: No Impact.

e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

Impact Analysis: The site is not located within an airport land use plan or within two miles of an airport.

Conclusion: No Impact.

f. Impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan?

<u>Impact Analysis</u>: A Site Health and Safety Plan has been prepared and will be updated as needed prior to start of field activities. The Health and Safety Plan identifies the location of the nearest hospital where personnel are to be taken for treatment. Project activities will not interfere with or impair the implementation of any emergency response or evacuation plan.

Conclusion: No Impact.

g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

<u>Impact Analysis</u>: The site is not located in or near a wildland area. As such, the project would not expose people or structures to a significant risk related to wildland fires.

Conclusion: No Impact.

References Used: 2, 18

10. HYDROLOGY AND WATER QUALITY				
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			\boxtimes	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such the project may impede sustainable groundwater management of the basin?				
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
(i) result in substantial erosion or siltation on- or off-site;				\boxtimes
 (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; 				
 (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or 				
(iv) impede or redirect flood flows?			\boxtimes	
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				

Federal:

Clean Water Act of 1977 (Including 1987 Amendments): Sections 401, and 402: The Clean Water Act (CWA) establishes the basic structure for regulating discharges of pollutants into the waters of the United States and regulates quality standards for surface waters. Under the CWA, the United States Environmental Protection Agency (USEPA) has implemented many pollution control standards for industries, as well as water quality standards for all contaminants in surface waters. The CWA made it unlawful to discharge any pollutants from a point source into navigable waters, unless a National Pollutant Discharge Elimination System (NPDES) permit is obtained.

State:

• State of California Constitution prohibits the waste or unreasonable use of water, regulates the method of use and method of diversion of water and requires all water users to conserve and reuse available water supplies to the maximum extent possible.

• **Porter-Cologne Water Quality Control Act:** Porter-Cologne is California's comprehensive water quality control law. The Porter-Cologne Act regulates both surface water and groundwater and gives the RWQCB authority to issue Waste Discharge Requirements to recycled water producers. This Act is promulgated in the California Code of Regulations Title 22. Title 22 includes requirements for treatment and reuse tertiary-treated recycled water projects throughout California. The Act also requires the adoption of water quality control plans (basin plans) by the RWQCBs for watersheds within their regions. The basin plans are reviewed triennially and amended as necessary by the RWQCB, subject to the approval of the California Office of Administrative Law, the SWRCB, and ultimately the USEPA. Moreover, pursuant to Porter-Cologne, these basin plans become part of the California Water Plan.

• State Water Resources Control Board Policies:

- Recycled Water Policy (Resolution No. 2009-0011). With Resolution No. 2009-0011, the SWRCB adopted the Recycled Water Policy for the State of California. This policy encourages increased use of recycled water and local stormwater and requires local water. The policy specifically identifies the use of recycled water as having a beneficial impact because it supports the sustainable use of groundwater and/or surface water and substitutes for the use of potable water. It encourages local and regional water agencies to optimize their use of local water sources by emphasizing water recycling, water conservation, and the maintenance of supply infrastructure and use of stormwater (including dry-weather urban runoff). In addition, the policy requires and wastewater entities to develop a Salt and Nutrient Management Plan (SNMP) for the groundwater basins in California.
- o Anti-Degradation Policy (Resolution No. 68-16): Requires the RWQCB, in regulating the discharge of waste, to: (a) maintain existing high quality waters of the State until it is demonstrated that any change in quality will be consistent with maximum benefit to the people of the State, will not unreasonably affect present and anticipated beneficial uses, and will not result in water quality less than that described in State or Regional Water Boards policies; and (b) require that any activity which produces or may produce a waste or increased volume or concentration of waste and which discharges or proposes to discharge to existing high quality waters, must meet waste discharge requirements which will result in the best practicable treatment or control of the discharge necessary to assure that: a) a pollution or nuisance will not occur and b) the highest water quality consistent with maximum benefit to the people of the State will be maintained.
- California Water Code: The use of water in the state is governed by the California Water Code or Title 23 of the California Code of Regulations. Title 23 requires that water resources must be put to beneficial use to the fullest extent of which they are capable, and that the waste, unreasonable use, or unreasonable method of use of water is illegal. The conservation of water is encouraged as a reasonable and beneficial in the interest of the people and for the public welfare.

Local:

- Los Angeles Regional Water Quality Control Board: The SWRCB, with its regional water boards, is the primary agency responsible for implementing the CWA and issuing NPDES permits. The SWRCB carries out its water quality protection authority through the adoption of basin plans. These plans establish water quality standards for particular bodies of water. California water quality standards are composed of three parts: the designation of beneficial uses of water, water quality objectives to protect those uses, and implementation programs designed to achieve and maintain compliance with the water quality objectives. The Los Angeles RWQCB is responsible for enforcing the Los Angeles Basin Plan.
- Los Angeles Basin Plan: The Los Angeles Basin Plan establishes water quality objectives for constituents that could potentially cause an adverse effect or impact on the beneficial uses of water. Specifically, basin plans are designed to accomplish the following:
 - 1. Designate beneficial uses for surface and ground waters,
 - 2. Set the narrative and numerical objectives that must be attained or maintained to protect the designated beneficial uses and conform to California's anti-degradation policy,
 - 3. Describe implementation programs to protect the beneficial uses of all water in the region, and
 - 4. Describe surveillance and monitoring activities to evaluate the effectiveness of the basin plans.

ENVIRONMENTAL SETTING (BASELINE):

The site-specific geology and hydrogeology consists of mixed sands, varying amounts of silt and clay, as well as two water bearing zones: the shallow Perched Zone groundwater zone and the deeper Gardena-Gage aquifer. as Detailed discussions of site geology and hydrogeology are provided in the *Phase II RI Report* (Montgomery Watson, 2000) and in the *Phase I Environmental Site Assessment* report for Parcels B and C (URS, 2010).

The Lynwood-Silverado aquifer lies at 300 to 600 feet bgs and has been extensively developed for water supply. A series of barrier injection wells is maintained west of the project site vicinity to prevent seawater encroachment into the Silverado aquifer system (DWR, 1961).

In February of 2018, the depth to water in the Perched Zone (perched water-bearing zone) wells ranged from 48.64 to 62.26 feet below top of casing (btoc) (groundwater elevation ranged from approximately 33.76 to 39.14 feet mean sea level [msl]). In all cases the observed Perched Zone groundwater fluctuations were generally within historically observed levels.

A review of groundwater monitoring reports from the nearby Torrance refinery to the east of the project site completed during the Phase I Environmental Site Assessment (URS, 2010) indicated that regional horizontal gradients vary widely within the Perched Zone beneath that site, and are influenced by mounding in several areas including near the City of Torrance Storm Water Basin. The Torrance refinery facility has numerous groundwater monitoring wells screened within the Perched Zone. Potentiometric surface maps included in the 2010 report (URS, 2010) show Perched Zone groundwater flow to the west, southwest, and south near the UCC site.

At the project site the top of the perching layer is typically encountered at a depth of about 55 to 60 feet bgs. At the Torrance refinery and the UCC Torrance facility the top of the perching layer is typically encountered at a depth of about 35 to 50 feet bgs. The combined subsurface data from these three sites supports with a high level of confidence that the perching layer is continuous throughout the area.

In February 2018 the depth to groundwater measured in the Gardena-Gage aquifer wells ranged from 82.82 to 92.91 feet btoc (groundwater elevation of 5.23 to 6.77 feet msl); groundwater elevations in February 2018 were approximately 0.41 to 0.81 foot higher relative to elevations measured during the monitoring event in September 2017. Compared to the observed fluctuations in the Perched Zone groundwater levels, the observed Gardena-Gage groundwater levels have generally increased since monitoring records began. Based on groundwater elevation data collected from the project site Gardena-Gage well network, the inferred general direction of groundwater flow in the Gardena-Gage aquifer was to the east. This general flow pattern has been seen in many historical events. The average calculated gradient using the February 2018 data is approximately 0.001 ft/ft.

Review of potentiometric surface maps for the Gardena-Gage well network at the Torrance refinery to the east of the project site show consistent groundwater flow to the east (URS, 2010). The Torrance refinery facility has numerous groundwater monitoring wells screened within the Gage-Gardena aquifer and is a much larger facility, so groundwater flow to the east is probably representative of general conditions for the Gardena-Gage aquifer in this area.

An evaluation of the fate and transport of the DNAPL was performed by MWH (MWH, 2000). The pool height necessary to penetrate the perching unit at the project site was calculated to be 140 to 410 feet (MWH, 2000). The maximum historical thickness of DNAPL measured in wells MW-05, -10, and -10R is 6.37 feet. Based on this analysis it is considered unlikely that DNAPL would penetrate through the perching layer and into the deeper Gardena-Gage aquifer. Since the DNAPL pool height at the project site has never been observed to be more than a few feet thick, DNAPL migration through the perching unit and into the Gardena-Gage aquifer is not likely.

The maximum (or peak) of potential naphthalene concentration in the Gardena-Gage aquifer was modeled to be about 18 micrograms per liter (μ g/L) and was estimated to be reached in about 650 years. This predicted peak naphthalene concentration is approximately equal to the naphthalene notification level or health-based advisory of 17 μ g/L for drinking water as established by the California Division of Drinking Water, indicating that current naphthalene concentrations could persist in unsaturated soils essentially indefinitely, with little to no risk to the underlying Gardena-Gage aquifer.

Groundwater monitoring wells where DNAPL has been observed are limited to MW-05, -10, and -10R. Other LIF soundings and groundwater monitoring wells in the Heil Separator area have not encountered indications of DNAPL. Given the over 20-year history of monitoring in the Heil Separator area, there is a good level of confidence in the estimated lateral extent of DNAPL and ample evidence that the DNAPL is stable.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to hydrology and water quality if it would:

- Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality.
- Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impeded sustainable groundwater management of the basin.
- Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
 - o (i) result in substantial erosion or siltation on- or off-site;
 - (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding onor offsite;
 - (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or
 - o (iv) impede or redirect flood flows.
- In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation.
- Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

A Phase II RI Report and Phase I Environmental Site Assessment report for site geology at Parcels B and C was conducted and is included as an appendix to the proposed RAP. Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Impact Analysis: During construction of the proposed project, soil disturbance associated with grading and excavation would increase the potential for sediment and pollution loading. Accidental discharge of waste products and water could occur during construction and operations. During construction, a Stormwater Pollution Prevention Plan and construction BMPs will be used to address the potential impacts on water quality, in compliance with the Construction General Permit (Order No. 2009- 2009-DWQ). The proposed project will not cause any changes to existing treatment plant operations.

The ISGS component of the remedy includes injection of permanganate into the subsurface to create a barrier and immobilize the Dripolene. While the injection of permanganate is intended to improve groundwater quality rather than further degrade it, the injection will be conducted in accordance with a Waste Discharge Requirements (WDR) permit obtained from the Los Angeles Regional Water Quality Control Board (LARWQCB). The purpose of the WDR permit is to ensure that groundwater water quality will not be negatively affected.

The SVE component of the remedy would mitigate the potential vapor intrusion and/or off-site dissolved phase benzene groundwater impacts. As such, the proposed project would not violate any water quality standards or waste discharge requirements. The proposed components would instead improve surface and ground water quality and mitigate further degradation.

Conclusion: Less than Significant Impact.

b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impeded sustainable groundwater management of the basin?

<u>Impact Analysis</u>: The proposed project is a continuation of previous remedial and monitoring activities. The observed Gardena-Gage groundwater levels have generally increased since monitoring records began. The ISGS component of the proposed project would involve the emplacement of a permanganate-based amendment designed to promote the development of a mineral coating around the DNAPL that is contaminating the project site. The maximum historical thickness of DNAPL measured in wells MW-05, -10, and -10R is 6.37 feet. Based on this analysis it is considered unlikely that DNAPL would penetrate through the perching layer and into the deeper Gardena-Gage aquifer. Since the DNAPL pool height at the project site has never been observed to be more than a few feet thick, DNAPL migration through the perching unit and into the Gardena-Gage aquifer is not likely and thus the ISGS component would not

penetrate the aquifer. Project activities will not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin.

Conclusion: No Impact.

c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

(i) result in substantial erosion or siltation on or off-site;

<u>Impact Analysis:</u> The project will not alter the existing drainage patterns of the site or area in a manner which will result in substantial erosion or siltation on- or off-site. The proposed project is not located on or near a stream or river.

Conclusion: No Impact.

(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on-or offsite;

<u>Impact Analysis</u>: The site is not located within or adjacent to any natural drainage. Project activities will not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite.

Conclusion: No Impact.

(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or

<u>Impact Analysis</u>: The proposed project will not create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems. Construction activities are not expected to generate significant amounts of runoff water. BMPs will be utilized to control excess water during grading and construction. Project activities will not create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.

Conclusion: No Impact.

(iv) impede or redirect flood flows?

<u>Impact Analysis</u>: Project activities will not substantially alter the existing drainage pattern of the site in a manner that would impede or redirect flood flows. Drainage patterns in the immediate vicinity of active work areas may be temporarily altered to minimize work area flooding.

Conclusion: Less Than Significant Impact.

d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

Impact Analysis: The site is not within a flood, tsunami, or seiche zone.

Conclusion: No Impact.

e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Impact Analysis: Project activities will not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan.

Conclusion: No Impact.

References Used: 2, 25

11. LAND USE AND PLANNING				
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Physically divide an established community?				\boxtimes
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				

Land use and planning regulations are provided in the general plans and/or community plans adopted for the City of Torrance and the County of Los Angeles, as well as adopted regional planning documents.

ENVIRONMENTAL SETTING (BASELINE):

The project site is zoned as "M2" (Heavy Manufacturing) and is surrounded by industrial and commercial properties for a radius of approximately 0.25 miles. All areas adjacent to the project are also zoned M2. The Burlington Northern and Santa Fe (BNSF) railroad right-of-way is immediately north of the project site. To the east is the City of Torrance stormwater retention basin and a storage facility with onsite parking lot. To the south are various manufacturing and commercial properties. To the west are various commercial properties as well. At a local level, according to the City of Torrance General Plan Land Use Policy, the project is designated as "I-BP" (Business Park); land uses adjacent to the project site are designated I-BP to the north, "I-LT" (Light Industrial) to the east, "PUB" (Public/Quasi-Public/Open Space) to the southeast, I-BP to the south, and I-BP to the west. According to the County of Los Angeles land use designations, the project site is designated as Industrial. Areas adjacent to the project site are designated Industrial and Commercial. The project site is the location of the UCC Torrance facility and all proposed project activities would occur within the boundaries of this property.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to land use if it would:

- Physically divide an established community.
- Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the proposed project.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

No environmental studies were performed for this resource. Readily available information was reviewed for this assessment. Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Physically divide an established community?

<u>Impact Analysis</u>: Not applicable. The proposed project would be located within the existing UCC Torrance facility within designated areas of concern.

Conclusion: No Impact.

b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

<u>Impact Analysis</u>: The proposed project is a continuation of the existing land use and does not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project, adopted for the purpose of avoiding or mitigating an environmental effect.

Conclusion: No Impact.

References Used: 17. 18, 27

12. MINERAL RESOURCES				
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				

Federal

No federal regulations related to mineral resources would be applicable to the proposed project.

<u>State</u>

- Surface Mining and Reclamation Act of 1975: The State Mining and Reclamation Act of 1975 (SMARA) requires that the State Mining and Geology Board (SMGB) map areas throughout the State of California that contain regionally significant mineral resources. Aggregate mineral resources within the state are classified by the SMGB through application of the Mineral Resource Zone (MRZ) system. The MRZ system is used to map all mineral commodities within identified jurisdictional boundaries. The MRZ system classifies lands that contain mineral deposits and identifies the presence or absence of substantial sand and gravel deposits and crushed rock source areas (i.e., commodities used as, or in the production of, construction materials). The State Geologist classifies MRZs within a region based on the following factors:
 - MRZ-1: Areas where adequate information indicates that no significant mineral deposits are present, or where it is judged that little likelihood exists for their presence.
 - MRZ-2: Areas where adequate information indicates that significant mineral deposits are present, or where it is judged that a high likelihood exists for their presence.
 - MRZ-3: Areas containing mineral deposits for which the significance cannot be determined from available data.
 - o MRZ-4: Areas where available information is inadequate for assignment of any other MRZ category.

Mining operations and mine reclamation activities are required to be performed in accordance with laws and regulations adopted by the SMGB. The State Department of Conservation's Division of Mine Reclamation (DMR) oversees reclamation requirements.

Local

City of Torrance General Plan, Community Resources Element: The Community Resources Element of the City
of Torrance General Plan sets forth goals, objectives, and policies that build on current recreation, social services,
and resource conservation programs. Natural resources within the City of Torrance include mineral resources;
however, majority of the land within Torrance is classified as MRZ-1 and MRZ-3. A small strip of land, south of Pacific
Coast Highway and east of Hawthorne Boulevard, is designated as MRZ-2.

ENVIRONMENTAL SETTING (BASELINE):

The proposed project is located within an MRZ-3 site, meaning an area containing mineral deposits for which the significance cannot be determined from available data. There are no active mines and two closed mines present located within one mile of the proposed project site. In addition, there are no oil wells or oil fields within or near the project area.¹ As discussed, the

majority of land within Torrance is classified as MRZ-1 and MRZ-3, with a small strip of land approximately 3.6 miles south of the project site designated as MRZ-2. No further analysis of mineral resources is deemed necessary.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to mineral resources if it would:

- Result in the loss of availability of a known mineral resource that would be of value to the region and the residents
 of the state.
- Result in the loss of availability of a locally important mineral resources recovery site identified in a general plan, specific plan, or other land use plan.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

<u>Impact Analysis</u>: The proposed project will not result in the loss of availability of a known mineral resource that will be of value to the region and the residents of the State because the project site is not located an MRZ-2 site, meaning an area where significant mineral deposits are present, or where there is a high likelihood for their presence.

Conclusion: No Impact.

b. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

<u>Impact Analysis</u>: There are no known mineral resources at the proposed project site. Project activities will not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state.

Conclusion: No Impact.

References Used: 6, 10, 11, 46, 48

13. NOISE				
Would the project result in:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
b) Generation of excessive groundborne vibration or groundborne noise levels?			\boxtimes	
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				

Any potential noise related to the proposed project would occur during the construction phase or implementation of the remedial actions on the project site. For construction work, the City's Municipal Code limits the use of power construction tools or equipment for construction work adjacent to residential areas. Construction noise sources are regulated within the City's Municipal Code Section 46.3.1 which prohibits construction activities involving the creation of noise beyond 50 decibels (db) as measured at property lines, except between the hours of 7:30 a.m. to 6:00 p.m. Monday through Friday and 9:00 a.m. to 5:00 p.m. on Saturdays. Construction shall be prohibited on Sundays and Holidays observed by City Hall. The code effectively exempts construction noise occurring from 7:30 a.m. to 6:00 p.m. Monday through Friday from the 50 db limit. However, construction noise effects are nonetheless discussed in the document per CEQA.

ENVIRONMENTAL SETTING (BASELINE):

The project site is surrounded by industrial and commercial properties for a radius of approximately 0.25 mile. Nearby industrial properties include the Torrance Oil Refinery, as well as facilities for manufacturing and/or distributing paint, coolants, and compressed air. An existing hotel is located approximately 410 feet away from the project site, and residences are over 1,200 feet away. As such, the project site is not considered to be located adjacent to residential areas or other noise-sensitive uses. The project is located in a highly disturbed and developed, urbanized industrial and commercial area, immediately adjacent the active BNSF railroad. The City of Torrance General Plan Noise Element states that the BNSF railroad is an existing source of transportation-related noise, particularly when trains are actively traveling on the tracks.

A-weighted decibels, abbreviated dBA, are an expression of the relative loudness of sounds in the air as perceived by the human ear. The City's General Plan states that for industrial land uses, noise exposure up to 70 dBA Community Noise Equivalent Level (CNEL) is normally acceptable, with several exceptions for noise that only occurs occasionally or intermittently. Existing noise in the project area primarily includes vehicle traffic, nearby industrial operations, construction projects, and BNSF railroad trains.

Ground-borne vibration consists of oscillatory waves that propagate from the source through the ground to adjacent buildings or other uses. Vibration from construction projects is typically a result of pile driving, soil compacting, and certain demolition activities. The most common source of existing vibration in the project area is truck and vehicle traffic on roadways, trains traveling along the BNSF railroad, major construction projects, and certain existing industrial operations.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

Applicable thresholds include the City of Torrance Municipal Code, which exempts construction activity from noise standards.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

No technical noise study was performed or required for the proposed project.

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would result in:

a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

<u>Impact Analysis:</u> The proposed construction activities would typically occur during the work week, Monday through Friday between the hours of 7:00 a.m. to 5:00 p.m. Project activities may produce temporary short-term increase in ambient noise levels at the project site. Noise levels would fluctuate depending on the type, number and duration of use of various pieces of construction equipment. Workers at the site will wear protective hearing devices. All work will be performed on-site.

The primary source of noise generated from the proposed project would be related to short-term excavation and construction activities. Noise during remedial activities would be consistent with noise levels in an industrial area. The project area is urbanized, industrial, and include an active railroad resulting in higher levels of existing ambient noise. Noise Best Management Practices (e.g., limiting traffic speed, using equipment with mufflers, earplugs, etc.) would ensure that project activities will not expose workers and people in the general vicinity of the proposed project to excessive noise. The City's Municipal Code exempts construction noise from the proposed project from the hours of 7:30 a.m. to 6:00 p.m. Monday through Friday. In addition, there are no noise-sensitive uses located directly adjacent to the project site. Any mobile noise from construction trucks traveling on adjacent roadways would be intermittent and consistent with noise in an existing industrial and commercial area. The hotel located to the southeast is currently exposed to louder mobile noise sources due to its location along the heavily traveled Prairie Avenue. Implementation or construction of the proposed project would not result in a substantial increase in ambient noise levels.

Conclusion: Less Than Significant Impact.

b. Generation of excessive groundborne vibration or groundborne noise levels?

<u>Impact Analysis:</u> Project activities that produce temporary short-term increase in groundborne vibration or groundborne noise levels would be negligible. The types of construction equipment associated with remediation activities include excavators, loaders, and trucks. Workers at the site will wear protective hearing devices. All work will be performed on-site. In addition, there are no vibration-sensitive uses, such as fragile historic buildings or recording studios, located directly adjacent to the project site. Any minor vibration from construction trucks traveling on adjacent roadways would be intermittent and consistent with vibration in an existing industrial and commercial area. The hotel located to the southeast is currently exposed to minor vibration from trucks traveling adjacent along the heavily traveled Prairie Avenue. Implementation or construction of the proposed project would not result in a substantial increase in ambient noise levels.

Conclusion: Less Than Significant Impact.

c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

<u>Impact Analysis</u>: Project activities are not located within the vicinity of a private airstrip or within two miles of a public airport.

Conclusion: No Impact.

14. POPULATION AND HOUSING				
Would the Project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				

Federal

• Executive Order 12898: This order outlines federal actions to address environmental justice in minority populations and low-income populations. Executive Order 12898 states that agencies shall identify and address disproportionately high and adverse human health or environmental effects on minority and low-income populations. A new working group was created to develop strategies for programs and policies regarding minority and low-income populations to: promote enforcement of all health and environmental statutes, improve research and data collection in relation to health and environment, identify different patterns of consumption of natural resources, and ensure greater public participation.

<u>State</u>

No state regulations related to population and housing resources would be applicable to the proposed project.

Local

• **City of Torrance General Plan, Housing Element**: The Housing Element of the City of Torrance General Plan is designed to provide the City with a coordinated and comprehensive strategy for promoting the production of safe, decent, and affordable housing within the community. Residents of Torrance face issues with housing availability and affordability, as Torrance is an older City that is virtually built out, with limited land available for future residential development.

ENVIRONMENTAL SETTING (BASELINE):

The proposed project site is adjacent to industrial and commercial land uses. No residential land uses occur within the project site. The surrounding project area is urban and developed, with residential land uses west and south of the project site (west of Hawthorne Boulevard, south of Del Amo Boulevard).

The proposed project would not create a demand for housing or increase local population. Construction workers, equipment operators, and truck drivers would be from the local labor pool and would maintain their current residences.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to population and housing if it would:

- Induce substantial unplanned population growth in area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure).
- Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Induce substantial unplanned population growth in area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

<u>Impact Analysis</u>: The project would not propose new homes, businesses or infrastructure. The project would consist of remediation activities to address contamination impacts at the project site. Project activities would not directly or indirectly induce substantial unplanned population growth in the area.

Conclusion: No Impact.

b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

<u>Impact Analysis</u>: Project activities will occur on-site in an area designated for industrial land uses. The project would not impact surrounding areas designated for residential use. Therefore, the project would not displace existing people or housing.

Conclusion: No Impact.

References Used: 7, 16 27, 46

15. PUBLIC SERVICES					
Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact	
i. Fire protection?				\boxtimes	
ii. Police protection?				\boxtimes	
iii. Schools?				\boxtimes	
iv. Parks?				\boxtimes	
v. Other public facilities?				\boxtimes	

Public services are provided and public facilities are maintained by the City of Torrance and the County of Los Angeles. Public services and facilities include fire and police protection, refuse collection, and parks and recreation facilities. No regulatory laws, ordinances, regulation, standards area applicable to this resource.

ENVIRONMENTAL SETTING (BASELINE):

All proposed project activities would be performed within four Areas for implementation off the RAP, contained within the UCC Torrance facility. Project activities would include initial excavations and installations, ongoing site activity related to operation and maintenance of the pilot system, additional investigations, possible expansions, and work plans associated with the SVE and ISGS remedies that would occur during that time period. No new habitable structures are proposed and no road closures are anticipated.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to public services if it would:

 Result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for public services.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

No environmental studies were performed for this resource. Readily available information was reviewed for this assessment. Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

Result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the following public services: UCC Torrance RAP Draft IS/ND – July 2021

- i. Fire protection?
- ii. Police protection?
- iii. Schools?
- iv. Parks?
- v. Other public facilities?

<u>Impact Analysis</u>: No road closures are anticipated for construction or operation of the proposed project. Thus, the probability for significant impact on emergency response services is minimal.

As described in Section 14, the proposed project would implement the proposed RAP in order to reduce the identified contaminants of concern concentrations in the soil, soil vapor, and groundwater to levels protective of human health and the environment, consistent with the current and anticipated future commercial/industrial worker uses of the property. No new habitable structures are proposed and the proposed project would not induce population growth. The proposed project would not cause any permanent adverse physical impacts to government facilities and would not cause the need for new or physically altered governmental facilities to maintain acceptable service ratios, response times, or other performance objectives for fire protection, police protection, schools, parks, or other public facilities.

Conclusion: No Impact.

References Used: 2

16. RECREATION				
	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				

Federal

• Quimby Act (AB 1191): The Quimby Act (California Government Code Section 66477) was first established by the California Legislature in 1965. It set forth provisions in the State Subdivision Map Act for the dedication of parkland and/or payment of in-lieu fees as a condition of approval of certain types of residential development projects. The Quimby Act allows local agencies, such as the City of Los Angeles, to establish ordinances that require residential subdivision developers to pay impact fees, which can be used to purchase and develop land and/or recreational facilities.

<u>State</u>

No state regulations related to recreational resources would be applicable to the proposed project.

Local

- Los Angeles County General Plan: Los Angeles County has goals for acquisition and development of additional park land as follows:
 - Goal P/R 3: Acquisition and development of additional parkland:
 - Policy P/R 3.1: Acquire and develop local and regional parkland to meet the following County goals: 4 acres of local parkland per 1,000 residents in the unincorporated areas and 6 acres of regional parkland per 1,000 residents of the total population of Los Angeles County.
 - Policy P/R 3.2: For projects that require zone change approvals, general plan amendments, specific plans, or development agreements, work with developers to provide for local and regional parkland above and beyond their Quimby obligations.
 - Policy P/R 3.3: Provide additional parks in communities with insufficient local parkland as identified through the gap analysis.
 - Policy P/R 3.4: Expand the supply of regional parks by acquiring land that would: 1) provide a buffer from potential threats that would diminish the quality of the recreational experience; 2) protect watersheds; and 3) offer linkages that enhance wildlife movements and biodiversity.
 - Policy P/R 3.6: Pursue a variety of opportunities to secure property for parks and recreational facilities, including purchase, grant funding, private donation, easements, surplus public lands for park use, and dedication of private land as part of the development review process.

ENVIRONMENTAL SETTING (BASELINE):

According to the General Plan Land Use Policy Map created by the City of Torrance, there are two areas designated as Public/Quasi-Public/Open Space land uses within the vicinity of the project site. One area is a concrete-lined stormwater basin that exists on the east side of the project site. According to the Los Angeles County GIS-NET Public Mapper, the second area that exists approximately 0.1 miles north of the project site is labeled as a miscellaneous property. In addition, there are two parks for recreational use in the project vicinity: Columbia Park is approximately 0.3 miles north of the project site and Delthorne Park is approximately 0.2 miles south of the project site. The proposed project would be isolated from these recreational uses in the vicinity.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to recreational if it would result in:

- Permanent removal of substantial recreational areas and critical recreational facilities.
- Increased usage that would result in substantial physical deterioration of the recreational area or facility.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

<u>Impact Analysis</u>: The proposed project's activities would occur within the project site, and there are no recreational uses within the project site. The project would implement a remedial action plan that would not increase the use of existing neighborhood and regional parks or other recreational facilities, or result in substantial physical deterioration of the recreation facilities.

Conclusion: No Impact.

b. Does the project include recreational facilities or require construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

<u>Impact Analysis</u>: The project would not include recreational facilities or require the construction or expansion of recreational facilities. The project would implement a remedial action plan that would consist of remediation work within the project site, which has no recreational uses.

Conclusion: No Impact.

References Used: 17, 27

17. TRANSPORTATION				
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?				
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?				\boxtimes
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
d) Result in inadequate emergency access?				\boxtimes

This section describes the federal, state, and local (City of Torrance and County of Los Angeles) policies and regulations that are pertinent to transportation.

Federal

• **Title 49, Code of Federal Regulations, Parts 171–177:** Title 49, Parts 171-177 governs the transportation of hazardous materials, the types of materials defined as hazardous, and the marking of the transportation vehicles. The administering agencies for the above regulation are the California Highway Patrol (CHP) and the United States Department of Transportation (USDOT).

<u>State</u>

- CEQA Guidelines, § 15064.3, subd. (b) [Criteria for Analyzing Transportation Impacts]: The Office of Planning Research (OPR) proposed, and the California Natural Resources Agency (Agency) has certified and adopted, changes to the CEQA Guidelines that identify vehicle miles traveled (VMT) as the most appropriate metric to evaluate a project's transportation impacts. With the California Natural Resources Agency's certification and adoption of the changes to the CEQA Guidelines, automobile delay, as measured by "level of service" and other similar metrics, generally no longer constitutes a significant environmental effect under CEQA. (Pub. Resources Code, § 21099, subd. (b)(3)
- California Vehicle Code (CVC), Sections 31303-31309: Requires that the transportation of hazardous materials be on the state or interstate highway that offers the shortest overall transit time possible. The administering agency for the above statutes is the CHP.
- The California Streets and Highways Code, Sections 660, 670, 672, 1450, 1460, 1470, 1480 et seq: This code defines highways and encroachments, and requires encroachment permits for projects involving excavation in State Highways and County Roadways. This law is generally enforced at the local level. The administering agencies for this regulation are Caltrans, the Los Angeles County Department of Public Works, and the City of South El Monte. The Project would need to apply for encroachment permits for any excavation in state, county and City roadways prior to construction.
- California Health and Safety Code, Section 25160 et seq: This code addresses the safe transport of hazardous wastes, requires a manifest for hazardous waste shipments, and requires a person who transports hazardous waste in a vehicle to have a valid registration issued by the DTSC in their possession while transporting hazardous waste.

Local

City of Torrance General Plan Circulation and Infrastructure Element: The Circulation and Infrastructure Element sets the direction for the development of a comprehensive, coordinated, and continuing transportation system for the City of Torrance. Mariner Avenue, the roadway within the project study area, is classified as a local street according to the Circulation and Infrastructure Element. A local street provides access to an area but is not

designed for through traffic. The Circulation and Infrastructure Element also addresses walkability and pedestrian facilities, trails, bicycle lanes and paths, and transit service.

- City of Torrance Traffic Impact Assessment Guidelines for Land Use Projects: These guidelines address traffic analyses needed for development projects in the City of Torrance to meet CEQA standards.
- City of Torrance Traffic Circulation Analysis Guidelines: These guidelines provide information on the City of Torrance's traffic circulation analysis (TCA) requirements, adapted from Los Angeles County guidelines. If required, the project proponent would file a Traffic Control Plan with the County of Los Angeles and/or the City of Torrance prior to the start of construction. The Traffic Control Plan would be designed to allow for continued function of the roadway network allowing traffic, transit, bicycle, and pedestrian circulation through the area with minimal disruption. Traffic Control Plans must be designed by a Professional Engineer, and if deemed necessary, a Traffic Engineer, and must be approved by the local jurisdiction prior to implementation during the construction phase of the proposed project.
- Los Angeles County Metro Active Transportation Strategic Plan: This is a county-wide effort by the Los Angeles County Metropolitan Transportation Authority (LACMTA or Metro) to encourage the use of walking, bicycling, and transit through improvements.
- Los Angeles County Metro 2014 Short Range Transportation Plan: This ten-year plan identifies challenges and opportunities for improving public transportation, traffic, and sustainability within LA County.
- Los Angeles County Metro 2020 Long Range Transportation Plan: This comprehensive plan provides the framework for the future of transportation within Los Angeles County, by addressing economic equity and environmental concerns while reducing congestion.
- Los Angeles County Metro Vision 2028 Plan: This plan is an ambitious set of goals for Metro to improve Los Angeles County economically and socially by improving transportation.

ENVIRONMENTAL SETTING (BASELINE):

The project is located in the City of Torrance within a 37-acre area that UCC operated as a terminal and distribution center (the UCC Torrance facility). The 13.8-acre project site is accessed by roadway via Mariner Avenue and internal roadways, or by rail via the BNSF Railway Company's Harbor Subdivision and connecting railroad spurs. The project site is generally bounded by the Harbor Subdivision right-of-way on the north and northeast; freight spurs on the east and west; and office buildings and a surface parking lot on the south.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to recreational if it would:

- Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities.
- Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b).
- Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).
- Result in inadequate emergency access.

This project consists solely of remediation activities and does not have an operational component. Therefore, the City of Torrance Traffic Impact Assessment Guidelines for Land Use Projects is not applicable because this is not a development project.

The City of Torrance also requires a TCA under the City of Torrance Traffic Circulation Analysis Guidelines for projects that generate more than 500 trips per day. As discussed in more detail below, the project generates substantially fewer trips per day; therefore, a TCA is not required.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

The following scenarios were analyzed qualitatively as a part of this study:

- Existing Conditions Establishes the current transportation conditions within the study area.
- Future No Project Conditions Represents future No Project baseline conditions prior to project construction.
- Future Plus Project Construction Conditions Represents the future No Project baseline conditions plus added traffic associated with project construction.

The traffic assessment prepared for this study was performed in context with applicable guidance from the updated Appendix G - CEQA checklist for Transportation. In addition, readily available information was reviewed for this assessment.

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadways, bicycle and pedestrian facilities?

<u>Impact Analysis:</u> The project does not involve the construction of new facilities and consists solely of remediation activities. Table 17-1 summarizes the anticipated average and peak daily vehicle-trips (in passenger car equivalents, or PCEs) associated with each phase of the project. As shown in Table 17-1, the project would generate up to 312 vehicle-trips under fairly conservative assumptions for peaking and overlap, which would still fall well below the City of Torrance's 500-trip threshold for a TCA. During the weekday peak hours, the project would only generate a maximum of approximately 35 trips (weekday AM peak hour) during the peak overlap; vehicle-trips during the weekday PM peak hour would be substantially less.

Project activities would be performed on-site, and given the nature and volume of construction trip activity are not anticipated to conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadways, and bicycle and pedestrian facilities. Short-term lane closures and other temporary traffic control measures may be implemented as part of a Traffic Control Plan, but would be designed to minimize impacts to traffic, transit, bicycle, and pedestrian circulation. Therefore, no impact would occur.

Activities	Const Worke	ber of ruction ers (per ay)	Truck Trips	ber of Round s (per ay)	Way V Tri	One- ehicle- ips Es)	Ho AM	ur Veh	icle-T Es) PM	day, Peak cle-Trips Es) PM Peak Hour	
	Avg.	Peak	Avg.	Peak	Avg.	Peak	In	Out	In	Out	
Excavation											
Workers ¹	5	8	_	_	10	16	2	0	0	2	
Trucks ²	—	_	15	18	90	108	6	6	0	0	
Total	5	8	15	18	100	124	8	6	0	2	
SVE Pilot Testing – Well Ins	stallation	1									
Workers ¹	3	4	_	_	4	8	1	0	0	1	
Trucks ²	—	—	19	24	114	144	8	8	0	0	
Total	3	4	19	24	118	152	9	8	0	1	
SVE Pilot Testing – System	Install										
Workers ¹	6	8		_	8	16	2	0	0	2	
Trucks ²	—	_	19	24	114	144	8	8	0	0	
Total	6	8	19	24	122	160	10	8	0	2	
ISGS Implementation											
Workers ¹	5	8			8	16	2	0	0	2	
Total	5	8			8	16	2	0	0	2	
Peak Overlap	9	12	38	48	240	312	19	16	0	3	

Table 17-1 Project Trip Generation

Notes: The peak overlap is conservatively assumed to take place during the maximum sum of the peaks of any two consecutive phases—in this case, the well installation and system install phases of SVE pilot testing.

PCE = passenger car equivalent

1 All construction workers are conservatively assumed to drive to the site (no reductions for transit, biking, walking, or other modes), with an average vehicle occupancy of 1.00 (i.e., drive alone). Up to 25 percent of worker commute trips are assigned to each of the weekday AM and PM peak hours, with the remainder assumed to arrive before the weekday AM peak hour and depart before the weekday PM peak hour.

2 Truck trips include both haul truck trips (15 vehicles on average and 18 vehicles peak per day) and concrete mixer trucks (four vehicles on average and six vehicles peak per day). A passenger car equivalent (PCE) of 3.0 is applied to convert each truck to an equivalent of approximately three passenger cars. Up to ten percent of the daily truck traffic is assumed to be active during the weekday AM peak hour.

Conclusion: No Impact.

b. Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?

<u>Impact Analysis:</u> Subdivision (b) focuses on specific criteria for determining the significance of transportation impacts. The project does not involve the construction of new facilities and consists solely of remediation activities, and any truck traffic would be temporary. Project activities will be performed on-site and there will be minimal movement to and from the project area each day by construction workers' personal vehicles and trucks. Table 17-1 provides a detailed analysis of trip generation from this project. Any VMT associated with the project would only be in effect during the construction period and would not be recurring.

Conclusion: No Impact.

c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

<u>Impact Analysis:</u> The project does not involve the construction of new facilities and consists solely of remediation activities; there would be no operational impacts. Based on a review of the study area including the project site and truck routes, the proposed project would not introduce any geometric design features other than short-term lane closures and other temporary traffic control measures that may be implemented as part of a Traffic Control Plan, which would be designed to minimize impacts to traffic, transit, bicycle, and pedestrian circulation. The project does not include permanent changes related to geometric design features or incompatible uses that could result in transportation-related hazards. Therefore, no impact would occur.

Conclusion: No Impact.

d. Result in inadequate emergency access?

<u>Impact Analysis:</u> The project does not involve the construction of new facilities and consists solely of remediation activities; there would be no operational impacts. Project activities will be performed on-site, and the temporary increase in traffic from personnel and equipment associated with project activities (as shown in Table 17-1) would be minimal. Based on a review of the study area including the project site and truck routes, the proposed project does not include any features or activities that would disrupt or inhibit emergency access. Short-term lane closures and other temporary traffic control measures may be implemented as part of a Traffic Control Plan, but would be designed to minimize impacts to traffic, transit, bicycle, and pedestrian circulation and would not prevent or substantially impede emergency vehicle access to / from or through the area. Therefore, no impact would occur.

Conclusion: No Impact.

References Used: 20, 22, 23, 28, 29, 30, 31

18. TRIBAL CULTURAL RESOURCES

Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21083.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				\boxtimes
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.				X

REGULATORY SETTING (LAWS, ORDINANCES, REGULATIONS, STANDARDS):

Tribal cultural resources are defined in CEQA as a site, feature, place, cultural landscape, sacred place, or object with cultural value to a California Native American tribe, which may include non-unique archaeological resources previously subject to limited review under CEQA.

State:

- Assembly Bill 52 Native American Consultation: AB 52 requires the lead agency to begin consultation with any California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project prior to the release of a negative declaration or mitigated negative declaration if:
 - 1. The California Native American tribe requested to the lead agency, in writing, to be informed by the lead agency through formal notification of proposed projects in the geographic area that is traditionally and culturally affiliated with the tribe: and
 - 2. The California Native American tribe responds, in writing, within 30 days of receipt of the formal notification and requests the consultation (Public Resources Code Section 21080.3.1[d]).

ENVIRONMENTAL SETTING (BASELINE):

The project site consists of an inactive terminal and distribution center. Approximately 80 percent of the 37-acre facility. including the project site, is covered with impervious structures consisting of buildings, roads, or paved areas. The UCC Torrance facility was built in 1956 for polyethylene manufacturing. The facility occupied approximately 100 acres. It operated until 1982, when the manufacturing operations were discontinued and much of the facility was decommissioned. Currently the facility is operated by UCC as a terminal and distribution center on approximately 37 acres. A review of the Sacred Lands File search, according to the Native American Heritage Commission (NAHC) (requested November 13, 2020 by DTSC Tribal Affairs) returned negative results (December 16, 2020) for the immediate area of the project site. UCC Torrance RAP Draft IS/ND - July 2021 76

The NAHC also provided a list of eight Native American contacts representing the different Tribal groups historically and culturally affiliated with the geographic area of the site. The Office of Environmental Equity – Tribal Affairs sent Tribal engagement letters (February 3, 2021) to the eight identified contacts providing detailed information on the proposed remedial activities associated with the site. DTSC Tribal Affairs received no responses regarding interest or concerns associated with the project.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines and Public Resources Code Section 21074, the proposed project would have a significant impact to tribal cultural resources if it would cause a substantial adverse change in the significance of a tribal cultural resource defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geologically defined in terms the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

- listed or eligible for listed in the California Register of Historical Resources, or in local register of historical resources as defined in Public Resources Code section 5020.1(k); or
- a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1.

Section 15064.5 of the CEQA Guidelines defines "substantial adverse change" as physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of the resource would be materially impaired. The significance of a historical resource is materially impaired when a project results in demolition or material alteration in an adverse manner of those physical characteristics of a resource that:

- conveys its historical significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR;
- accounts for its inclusion in a local register of historical resources pursuant to Public Resources Code Section 5020.1(k) or its identification in a historical resources survey meeting the requirements of Public Resources Code Section 5024.1(g), unless the public agency reviewing the effects of the proposed project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
- conveys its historical significance and that justify its eligibility for inclusion in the CRHR, as determined by a lead
 agency for purposes of CEQA

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details). A Cultural Resources Records Search was conducted by AECOM cultural resources specialists.

On November 13, 2020, DTSC's Office of Environmental Equity submitted a Sacred Lands File search request to the Native American Heritage Commission, as well as a request for the list of project area Native American Tribal contacts. Subsequently, the DTSC Tribal Affairs Coordinator confirmed on April 14, 2021 that no Native American Tribes expressed any interest, concerns or requested further involvement regarding the proposed project.

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

- a. Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
 - i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or

<u>Impact Analysis:</u> The site is not listed or eligible for listing as a historical resource. Project activities will not cause a substantial adverse change in the significance of a tribal cultural resource. A review of the NAHC's Sacred Lands File search indicates that Native American tribal cultural resources are not present in the immediate area of the project site.

Conclusion: No Impact.

ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resource Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

Impact Analysis: No resource has been identified on-site. A review of the NAHC's Sacred Lands File search indicates that Native American tribal cultural resources are not present in the immediate area of the project site.

Conclusion: No Impact.

References Used: None.

19. UTILITIES AND SERVICE SYSTEMS				
Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?				
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?				
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				\boxtimes

REGULATORY SETTING (LAWS, ORDINANCES, REGULATIONS, STANDARDS):

Federal

 <u>Clean Water Act</u>: The federal Clean Water Act (CWA) establishes regulatory requirements for potable water supplies including raw and treated water quality criteria. The City of Los Angeles is required to monitor water quality and conform to the regulatory requirements of the CWA.

State

- <u>Safe Drinking Water Act</u>: California enacted its own Safe Drinking Water Act (SDWA). Department of Health Services (DHS) has been granted primary enforcement responsibility for the SDWA. Title 22 of the California Administrative Code establishes CDHS authority and stipulates drinking water quality and monitoring standards. These standards are equal to or more stringent than the Federal standards.
- Title 22: The California Water Code requires the Department of Health Services (DHS) to establish water reclamation criteria. In 1975, the DHS prepared Title 22 to fulfill this requirement. Title 22 regulates production and use of reclaimed water in California by establishing three categories of reclaimed water: primary effluent, which typically includes grit removal and initial sedimentation or settling tanks; adequately disinfected, oxidized effluent (secondary effluent) which typically involves aeration and additional settling basins; and adequately disinfected, oxidized, coagulated, clarified, filtered effluent (tertiary effluent) which typically involves filtration and chlorination. In addition to defining reclaimed water uses, Title 22 also defines requirements for sampling and analysis of effluent and requires specific design requirements for facilities.
- <u>Urban Water management Planning Act:</u> The Urban Water Management Planning Act (California Water Code Division 6, Part 2.6 Sections 10610- 10656) was developed due to concerns over potential water supply shortages throughout California. It requires information on water supply reliability and water use efficiency measures. Urban water suppliers are required, as part of the Act, to develop and implement Urban Water Management Plans (UWMPs) to describe water supply, service area demand, population trends and efforts to promote efficient use and

management of water resources. An UWMP is intended to serve as a water supply and demand planning document that is updated to reflect changes in the water supplier's service area including water supply trends, and conservation and water use efficiency policies.

Local

- City of Torrance Department of Water and Power UWMP: The Department of Water and Power's UWMP is designed to meet the current requirements of the California Urban Water Management Planning Act, and it also serves as the City's master plan for water supply and resources management. The UWMP helps guide policy makers in the City, as well as provide important information to citizens of Torrance. While serving as a valuable resource for information, the UWMP provides the basic policy principles that will guide the Department of Water and Power's decision-making process to secure a sustainable water supply for the City of Torrance.
- <u>County of Los Angeles UWMP</u>: The County of Los Angeles 2015 UWMP was adopted on February 2017 and presents the county's current supply and demand situation along with an updated presentation of future supplies, demand forecasts and measures to monitor and control future demand. The 2015 UWMP, along with other water resource planning reports is used by County staff to guide the County's water use and management efforts.

ENVIRONMENTAL SETTING (BASELINE):

The project site consists of a terminal and distribution center. Approximately 80 percent of the 37-acre facility, including the project site, is covered with impervious structures consisting of buildings, roads, or paved areas. The UCC Torrance facility was built in 1956 for polyethylene manufacturing. The facility occupied approximately 100 acres. It operated until 1982, when the manufacturing operations were discontinued and much of the facility was decommissioned. Electric power to the facility is provided by Southern California Edison.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to energy and utilities if it would:

• Result in extensive disruptions to public utility services.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

No environmental studies were performed for this resource. Readily available information was reviewed for this assessment. Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities the construction or relocation of which could cause significant environmental effects?

Impact Analysis: Project activities will not require or result in the relocation or construction of utilities and services.

Conclusion: No Impact.

b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Impact Analysis: Water use will be minimal and limited to active project activities. No water will be used after completion of the project.

Conclusion: Less Than Significant Impact.

c. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

<u>Impact Analysis</u>: Waste generated during project activities will be managed and disposed per regulatory requirements. No waste will be generated after completion of the project.

Conclusion: Less Than Significant Impact.

d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Impact Analysis: Waste generated during project activities will be managed and disposed per regulatory requirements. Excavated soils will be transported to and disposed of at the Clean Harbors Buttonwillow Landfill Facility. The Clean Harbors Buttonwillow Landfill Facility is located at 2500 West Lokern Road, Buttonwillow, California. The Buttonwillow Facility (EPA ID No. CAD 980675276) is a CERCLA-approved, RCRA permitted, Class I disposal facility that is permitted to accept the waste generated from the planned remedial excavation activities. No waste will be generated after completion of the project.

Conclusion: Less Than Significant Impact.

e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

<u>Impact Analysis</u>: The proposed project will comply with federal, state, and local statutes and regulations related to solid waste, both during construction and during on-going treatment plant operations. Excavated soils will be transported to and disposed of at the Clean Harbors Buttonwillow Landfill Facility. The Clean Harbors Buttonwillow Landfill Facility is located at 2500 West Lokern Road, Buttonwillow, California. The Buttonwillow Facility (EPA ID No. CAD 980675276) is a CERCLA-approved, RCRA permitted, Class I disposal facility that is permitted to accept the waste generated from the planned remedial excavation activities. No waste will be generated after completion of the project.

Conclusion: No Impact.

References Used: 2, 16

20. WILDFIRE											
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact							
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?				\boxtimes							
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?											
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?											
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?											

REGULATORY SETTING (LAWS, ORDINANCES, REGULATIONS, STANDARDS):

None applicable.

ENVIRONMENTAL SETTING (BASELINE):

The site is located in the City of Torrance within a M2 zone, as are all adjacent parcels. The proposed project is not located in areas that have been mapped within a Fire Hazard Severity Zone. In the event of a fire at the project site, the Torrance Fire Department would provide fire and emergency safety services.

APPLICABLE THRESHOLDS OF SIGNIFICANCE:

According to Appendix G of the State CEQA Guidelines, the proposed project would have a significant impact related to wildfire if it would:

- Substantially impair an adopted emergency response plan or emergency evacuation plan.
- Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire.
- Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment.
- Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.

Impacts are more likely to occur in areas designated as susceptible to wildfires, or for project that would substantially impair an adopted emergency response plan or emergency evacuation plan.

ENVIRONMENTAL STUDIES PERFORMED AND METHODOLOGY:

No environmental studies were performed for this resource. Readily available information was reviewed for this assessment. Environmental investigation and remediation activities have been performed at the project site since 1972 (see Project Background section for additional details).

IMPACT ANALYSES AND CONCLUSIONS:

Analysis as to whether or not project activities would:

a. Substantially impair an adopted emergency response plan or emergency evacuation plan?

<u>Impact Analysis</u>: The site is not located in or near state responsibility areas or lands classified as very high fire hazard severity zones. Project activities would occur within the existing UCC Torrance facility. No road closures are anticipated during construction or operation of the proposed project.

Conclusion: No Impact.

b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

<u>Impact Analysis</u>: Not applicable. The site is not located in or near state responsibility areas or lands classified as very high fire hazard severity zones.

Conclusion: No Impact.

c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

<u>Impact Analysis</u>: Not applicable. The site is not located in or near state responsibility areas or lands classified as very high fire hazard severity zones.

Conclusion: No Impact.

d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

<u>Impact Analysis</u>: The proposed project sites and surrounding areas are relatively flat and are not located in areas that have been mapped as Fire Hazard Severity Zones. Therefore, downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes are unlikely.

Not applicable. The site is not located in or near state responsibility areas or lands classified as very high fire hazard severity zones.

Conclusion: No Impact.

References Used: 2, 4, 46

21. MANDATORY FINDINGS OF SIGNIFICANCE

Based on evidence provided in this Initial Study, DTSC makes the following findings:

- a. The project does not have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory.
- b. The project does not have impacts that are individually limited but cumulatively considerable. ("Cumulatively considerable" means that the incremental effects of an individual project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)
- c. The project does not have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly.

Authority: Public Resources Code 21083, 21094.5.5 Reference: Public Resources Code Sections 21094.5 and 21094.5.5

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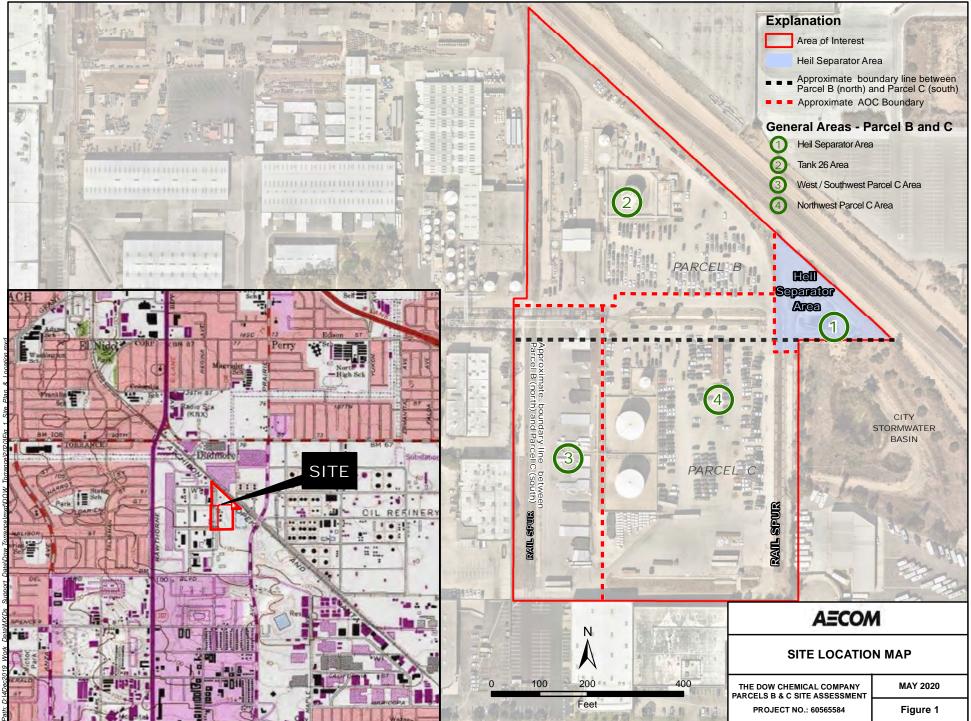
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FIGURES



Source: ESRI USA Topo Maps (National Geographi 2015)



Path: I:\Dow Torrance\mxd\DOW_Torrance\2018\1qt\Fig_2_Site_Plan_1qt_2018.mx

Explanation

Area of Interest

Heil Separator Area

Background Soil Sampling Area

- Approximate boundary line between Parcel B (north) and Parcel C (south)
- Perched Zone Well
- Gardena-Gage Well
- qPCR Soil Sampling Location
- A Previous Soil Boring (Historical)
- 2005 CPT Locations
- 2007 Phase II Soil Sampling Location for metals, VOCs, SVOCs, PCBs, and PAHs
- 2007 Phase II Soil Sampling Location for Metals only
- 2007 Phase II Soil Sampling Location for VOCs and SVOCs only
- 2007 Phase II Groundwater and Soil Sampling Location
- 2007 Phase II Soil Gas Sampling Location
- 2009-2010 Membrane Interface Probe Boring
- 8 2009-2010 Laser-Induced Flourescence Boring
- ▲ 2009 VOC Soil Gas Sampling Location
- P 2013 Hydropunch Boring
- ▼ 2011 Soil Gas Sampling Location
- 2011 Boring with Soil and Groundwater Sampling
- 2012 Groundwater Monitoring/Remediation Well
- 8 2012 Background Soil Sampling Location
- Soil Vapor Monitoring Location
- A Cross Section Index Line

General Areas - Parcel B and C

1 Heil Separator Area

3

(4)

- 2 Tank 26 Area
 - West / Southwest Parcel C Area
 - Northwest Parcel C Area 0 50 100

200



300

Source: ESRI, Aerials, 2017. Feet



2018 SITE PLAN

THE DOW CHEMICAL COMPANY PARCELS B & C SITE ASSESSMENT PROJECT NO.: 60565584 JUNE 2018

FIGURE 2

APPENDIX A Air Quality, Greenhouse Gas, and Energy Modeling Output

DTSC UCC Torrance Torrance Distribution Facility RAP Emissions and Energy Summary - Construction and Operations

Maximum Daily Construction-Related Emissions										
Year/Description	VOC	NO _x	CO	SO _X	PM ₁₀	PM _{2.5}				
pounds per day										
2021	4.70	44.00	30.14	0.11	5.23	1.87				
2022	2.02	16.08	17.89	0.05	0.87	0.62				
Maximum Daily Emissions	4.70	44.00	30.14	0.11	5.23	1.87				
SCAQMD Threshold	75	100	550	150	150	55				
Exceeds Threshold? No No No No No No										
Notes: Fugitve dust emissions (PM10 and PM2.5) include reduction	ns associated with	SCAQMD Rule 403	fugitive dust control	ol measures.						

Maximum Daily Operational Emissions										
G	Criteria Pollutant Emissions									
Source	VOC	NO _X	CO	SO _X	PM ₁₀	PM _{2.5}				
	pounds per day									
Mobile Source Emissions	0.00	0.01	0.07	0.00	0.01	0.00				
Diesel Generator Emissions	1.85	9.65	7.45	0.01	0.81	0.81				
Total	1.85	9.66	7.52	0.01	0.82	0.82				
SCAQMD Threshold	MD Threshold 55 55 550 150 150									
Exceeds Threshold?	No No No No No									

Annual GHG Emissions							
Source	MT CO2e/year						
Construction	314.96						
Mobile	0.48						
Stationary (Diesel Generator)	157.33						
Total	472.77						

157.81

Project Energy Requirements									
Phase	Energy Requirement	Unit	Annual Energy Consumption (MMBtu)						
Construction (Off-Road and On-Road Equipment Fuel Usage)									
Diesel	992	Gallons/yr	137						
Gasoline	43	Gallons/yr	5						
		Subtotal	142						
Operation (Diesel Generator and Weekly Maintenance Trip)									
Diesel	15,410	Gallons/yr	2,128						
Gasoline	55	Gallons/yr	7						
		Subtotal	2,135						
	Total								

Category	Amount	Units
Diesel (heat content)	5.8	MMBtu/barrel
Motor Gasoline	5.25	MMBtu/gallon
Gallons per Barrel	42	gallons/barrel

Source: The Climate Registry (April 2020): 2020 Default Emission Factors: https://www.theclimateregistry.org/wp-content/uploads/2020/04/The-Climate-Registry-2020-Default-Emission-Factor-Document.pdf

Operational - Mobile Sources

						Emissions (lbs/day)					Emissions (MT/year)			MT/year				
Project Operations On-Road Vehicles	Days/Year	Daily Trips	Trip Distance (One-way)	Total Trips/Year	Total VMT/Year	VOC	NOx	СО	SOx	PM ₁₀	PM _{2.5}	CO ₂	CH4	N ₂ O	CO ₂	CH4	N ₂ O	CO ₂ e
Weekly SVE System O&M Trip																		
Workers - Running Exhaust	52	2	14.7	104	1,529	0.0011	0.0042	0.0581	0.0002	0.0098	0.0029	19.9325	0.0003	0.0004	0.47	0.00	0.00	0.473164
Workers - Starting Exhaust	52	2	14.7	104	1,529	0.0012	0.0010	0.0104	0.0000	0.0000	0.0000	0.2693	0.0003	0.0001	0.01	0.00	0.00	0.007369
					Total	0.0023	0.0052	0.0685	0.0002	0.0098	0.0029	20.2019	0.0005	0.0005	0.4765	0.0000	0.0000	0.4805

Notes:

Assumes one technician will be needed to operate the system (one visit per week on average). Trip length based on CalEEMod default for Los Angeles - South Coast H-W Trip Length

	Emissions Factors (g/mi for RunEx, BW, TW and g/trip for StartEx)										
	VOC	VOC NOx CO SOx PM ₁₀ PM _{2.5} CO ₂ CH ₄									
Workers - Running Exhaust	0.0174	0.0648	0.8966	0.0030	0.1506	0.0450	307.5248	0.0042	0.0063		
Workers - Starting Exhaust	0.2755	0.2296	2.3615	0.0006	0.0019	0.0018	61.0848	0.0591	0.0278		

Notes:

PM emission factors include rentrained road dust emissions from travel on paved roads.

Conver	sion Units	
lbs		tons
	2000	1
Ibs		grams
	1	453.592
metric ton		grams
	1	1000000
GWP CO2e		CH4
	25	1
GWP CO2e		N2O
	298	1

Energy - Fuel Consumption

Construction Fuel Consumption, Total and Amortized over 30 Years						
			Factor			
Source	MT CO ₂ e/yr ^a	Fuel Type	(MT CO ₂ /gallon) ^b	Gallons/year		
Offroad Equip	281	Diesel	0.01021	27,520		
Hauling	6	Diesel	0.01021	579		
Vendor	17	Diesel	0.01021	1,649		
Worker	11	Gas	0.00878	1,279		
		Total Gallons	Diesel	29,748		
		TOTAL GALIOUS	Gasoline	1,279		
	Diesel	992				
	Gasoline	43				

Annual Operational Fuel Consumption						
			Factor			
Source	MT CO ₂ e/yr ^a	Fuel Type	(MT CO ₂ /gallon) ^b	Gallons/year		
Diesel Generator	157	Diesel	0.01021	15,410		
Worker	0.48	Gas	0.00878	55		
	Diesel	15,410				
	Gasoline	55				

Notes:

Assumed amortization period is 30 years.

Sources:

^a Modeled by AECOM in 2021;

^b U.S. Energy Information Administration 2016 (https://www.eia.gov/environment/emissions/co2_vol_mass.php)

EMFAC2017 (v1 0.2) Emission Rates Region Type: County Region LOS ANGELES Calendar Vear: 2022 Sesson: Annual Vehice Classification: EMFAC2011 Categories Vehice Classification: EMFAC2011 Categories Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

		Ca Model Yea Speed Fuel	Populatior VMT	%		ROG_RUNEX					PM2.5_RUNEX, TW, BW			
LOS ANGEL	2022 LDA	Aggregatec Aggregatec GAS	4040505 1543	12636.5	58%	0.012141235	0.041229513	0.740277738	0.002741895	0.046509595	0.0193679	277.0763818	0.003115905	0.004667654
LOS ANGEL	2022 LDA	Aggregatec Aggregatec DSL	35580.71 1405			0.021316202	0.078392403	0.295170252	0.002034089	0.054637338		215.1656295	0.000990097	0.033821041
LOS ANGEL	2022 LDA	Aggregatec Aggregatec ELEC	79346.02 3237	232.352	1%	0	0	0	0	0.044750013	0.017750005	0	0	0
LOS ANGEL	2022 LDT1	Aggregatec Aggregatec GAS	466456.3 1740		7%	0.034885027	0.121934783	1.473879763	0.00317927	0.047434331	0.020218289	321.2743755	0.00785429	0.008943923
LOS ANGEL	2022 LDT1	Aggregatec Aggregatec DSL	276.3593 6755		0%	0.192807307	1.047583179	1.126374272	0.00441052	0.189614934		466.5441636	0.008955531	0.073334246
LOS ANGEL	2022 LDT1	Aggregatec Aggregatec ELEC	3550.873 1466	97.1661	0%	0	0	0	0	0.044750013	0.017750005	0	0	0
LOS ANGEL	2022 LDT2	Aggregatec Aggregatec GAS		1239.49	20%	0.020886913	0.087156018	1.039507011	0.003412169	0.046639737	0.019487593	344.8094676	0.005064174	0.00707987
LOS ANGEL	2022 LDT2	Aggregatec Aggregatec DSL	9029.026 38	4253.17	0%	0.02311105	0.048315096	0.190884192	0.002765441	0.051136603		292.5279299	0.001073464	0.045981317
LOS ANGEL	2022 LDT2	Aggregatec Aggregatec ELEC	14572.88 4765	40.0157	0%	0	0	0	0	0.044750013	0.017750005	0	0	0
LOS ANGEL	2022 MDV	Aggregatec Aggregatec GAS	941584.3 3306		13%	0.029007403	0.116563148	1.254145573	0.004190259	0.046769711	0.019607436	423.437712	0.006765418	0.008950844
LOS ANGEL	2022 MDV	Aggregatec Aggregatec DSL	19913.35 7911	56.8054	0%	0.015821117	0.047434429	0.278117269	0.003579594	0.050104049	0.022872428	378.6489396	0.000734861	0.05951834
LOS ANGEL	2022 MDV	Aggregatec Aggregatec ELEC	7529.633 2545	07.8273	0%	0	0	0	0	0.044750013	0.017750005	0	0	0
			2643	33118.1		0.0173883	0.0647588	0.8966160	0.0030420	0.0466660	0.0195148	307.5247978	0.0042041	0.0062756
Starting Exh	aust													
		Ca Model Yea Speed Fuel	Populatior Trips	%		ROG_STREX	NOx_STREX	CO_STREX	SOx_STREX	PM10_STREX	PM2.5_STREX	CO2_STREX	CH4_STREX	N2O_STREX
		Ca Model Yea Speed Fuel Aggregatec Aggregatec GAS	Populatior Trips 4040505 1906							PM10_STREX 0.001893757			CH4_STREX 0.051329856	
Region C	alendar Y Vehicle C 2022 LDA 2022 LDA		4040505 1906											
Region C LOS ANGEL	alendar YVehicle C 2022 LDA	Aggregatec Aggregatec GAS	4040505 1906	3483.35 45.7609	58%	0.230912513	0.187910244	2.164371988	0.000543132	0.001893757 0 0	0.001741315 0 0	54.88501053 0 0	0.051329856	0.025680827
Region C LOS ANGEL LOS ANGEL	alendar Y Vehicle C 2022 LDA 2022 LDA	Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL	4040505 1906 35580.71 1684	3483.35 45.7609 60.3789	58% 1% 1%	0.230912513	0.187910244 0 0	2.164371988 0 0	0.000543132 0		0.001741315 0 0	54.88501053 0 0	0.051329856 0	0.025680827 0
Region C LOS ANGEL LOS ANGEL LOS ANGEL	alendar Y Vehicle C 2022 LDA 2022 LDA 2022 LDA 2022 LDA	Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC	4040505 1906 35580.71 1684 79346.02 3962	3483.35 45.7609 60.3789 709.822	58% 1% 1%	0.230912513 0 0	0.187910244 0 0	2.164371988 0 0	0.000543132 0 0	0.001893757 0 0	0.001741315 0 0	54.88501053 0 0	0.051329856 0 0	0.025680827 0 0
Region C LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL	alendar Y Vehicle C 2022 LDA 2022 LDA 2022 LDA 2022 LDA 2022 LDT1	Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC Aggregatec Aggregatec GAS	4040505 1906 35580.71 1684 79346.02 3962 466456.3 2155 276.3593 979.1	3483.35 45.7609 60.3789 709.822	58% 1% 1% 7%	0.230912513 0 0 0.359885965	0.187910244 0 0 0.259872502	2.164371988 0 2.292245822	0.000543132 0 0 0.000632046	- 0.001893757 0 0 0.002655673 0 0	0.001741315 0 0 0.002441972 0 0	54.88501053 0 63.87002054 0 0	0.051329856 0 0 0.071790333	0.025680827 0 0 0.028653774
Region C LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL	alendar Y Vehicle C 2022 LDA 2022 LDA 2022 LDA 2022 LDA 2022 LDT1 2022 LDT1	Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL	4040505 1906 35580.71 1684 79346.02 3962 466456.3 2155 276.3593 979.1 3550.873 177	3483.35 45.7609 60.3789 709.822 1709586	58% 1% 1% 7% 0%	0.230912513 0 0.359885965 0 0	0.187910244 0 0.259872502 0 0	2.164371988 0 2.292245822 0	0.000543132 0 0.000632046 0 0	0.001893757 0 0	0.001741315 0 0 0.002441972 0 0	54.88501053 0 63.87002054 0 0	0.051329856 0 0.071790333 0	0.025680827 0 0 0.028653774 0 0
Region C LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL	alendar Y Vehicle C 2022 LDA 2022 LDA 2022 LDA 2022 LDA 2022 LDT1 2022 LDT1 2022 LDT1	Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC	4040505 1906 35580.71 1684 79346.02 3962 466456.3 2155 276.3593 979.1 3550.873 177	3483.35 45.7609 60.3789 709.822 1709586 60.7296 846.129	58% 1% 1% 7% 0% 0%	0.230912513 0 0.359885965 0 0	0.187910244 0 0.259872502 0 0	2.164371988 0 2.292245822 0 0	0.000543132 0 0.000632046 0 0	- 0.001893757 0 0 0.002655673 0 0	0.001741315 0 0 0.002441972 0 0	54.88501053 0 63.87002054 0 0	0.051329856 0 0.071790333 0 0	0.025680827 0 0 0.028653774 0 0
Region C LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI	alendar Y Vehicle C 2022 LDA 2022 LDA 2022 LDA 2022 LDT1 2022 LDT1 2022 LDT1 2022 LDT2 2022 LDT2 2022 LDT2	Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC Aggregatec Aggregatec GAS	4040505 1906 35580.71 1684 79346.02 3962 466456.3 2155 276.3593 979.1 3550.873 177 1395328 6550 9029.026 4454 14572.88 7373	3483.35 45.7609 60.3789 709.822 1709586 60.7296 846.129 4.01587 7.31066	58% 1% 1% 7% 0% 0% 20% 0%	0.230912513 0 0 0.359885965 0 0 0.32052 0 0 0 0	0.187910244 0 0 0.259872502 0 0.286094625 0 0	2.164371988 0 2.292245822 0 2.698532418 0 0	0.000543132 0 0 0.000632046 0 0 0.000688501 0 0 0	- 0.001893757 0 0.002655673 0 0 0.001922184 0 0	0.001741315 0 0.002441972 0 0.001767443 0 0.001767443 0	54.88501053 0 63.87002054 0 69.57498521 0 0	0.051329856 0 0.071790333 0 0.068746375 0 0	0.025680827 0 0 0.028653774 0 0 0.032324224
Region C LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL	alendar Y Vehicle C 2022 LDA 2022 LDA 2022 LDA 2022 LDT1 2022 LDT1 2022 LDT1 2022 LDT1 2022 LDT2 2022 LDT2	Aggregatec Ággregatec GAS Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC Aggregatec Aggregatec GAS Aggregatec Aggregatec CAS Aggregatec Aggregatec ELEC Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL	4040505 1906 35580.71 1684 79346.02 3962 466456.3 2155 276.3593 979.1 3550.873 177 1395328 6550 9029.026 4454 14572.88 7373	3483.35 45.7609 60.3789 709.822 1709586 60.7296 846.129 4.01587	58% 1% 1% 0% 0% 20% 0%	0.230912513 0 0 0.359885965 0 0 0.32052	0.187910244 0 0 0.259872502 0 0.286094625 0 0	2.164371988 0 2.292245822 0 2.698532418 0 0	0.000543132 0 0 0.000632046 0 0 0.000688501 0 0 0	- 0.001893757 0 0 0.002655673 0 0	0.001741315 0 0.002441972 0 0.001767443 0 0.001767443 0	54.88501053 0 63.87002054 0 0	0.051329856 0 0.071790333 0 0.068746375 0 0	0.025680827 0 0 0.028653774 0 0 0.032324224 0
Region C LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI LOS ANGEI	alendar Y Vehicle C 2022 LDA 2022 LDA 2022 LDA 2022 LDT1 2022 LDT1 2022 LDT1 2022 LDT2 2022 LDT2 2022 LDT2	Aggregatec Ággregatec GAS Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC Aggregatec Aggregatec ELEC Aggregatec Aggregatec CSL Aggregatec Aggregatec ELEC Aggregatec Aggregatec CSL Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC	4040505 1906 35580.71 1684 79346.02 3962 466456.3 2155 276.3593 979.1 3550.873 177 1395328 6550 9029.026 4454 14572.88 7373	3483.35 45.7609 60.3789 709.822 1709586 60.7296 846.129 4.01587 7.31066 63838.4	58% 1% 1% 7% 0% 0% 20% 0%	0.230912513 0 0 0.359885965 0 0 0.32052 0 0 0 0	0.187910244 0 0 0.259872502 0 0.286094625 0 0	2.164371988 0 2.292245822 0 2.698532418 0 0	0.000543132 0 0 0.000632046 0 0 0.000688501 0 0 0	- 0.001893757 0 0.002655673 0 0 0.001922184 0 0	0.001741315 0 0.002441972 0 0.001767443 0 0.001767443 0	54.88501053 0 63.87002054 0 69.57498521 0 0	0.051329856 0 0.071790333 0 0.068746375 0 0	0.025680827 0 0.028653774 0 0.032324224 0 0
Region C LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL	alendar Y Vehicle C 2022 LDA 2022 LDA 2022 LDA 2022 LDT1 2022 LDT1 2022 LDT1 2022 LDT2 2022 LDT2 2022 LDT2 2022 LDT2 2022 MDV	Aggregatec Aggregatec GAS Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC Aggregatec Aggregatec ELEC Aggregatec Aggregatec DSL Aggregatec Aggregatec ELEC Aggregatec Aggregatec GAS Aggregatec Aggregatec ELEC Aggregatec Aggregatec ELEC Aggregatec Aggregatec ELEC	4040505 1906 35580.71 1684 79346.02 3962 466456.3 2155 276.3593 979.1 3550.873 177 1395328 6550 9029.026 4454 14572.88 7373 941584.3 43 19913.35 9795 7529.633 3850	3483.35 45.7609 60.3789 709.822 1709586 60.7296 846.129 4.01587 7.31066 63838.4 8.74485 4.20314	58% 1% 7% 0% 0% 20% 0% 0% 13%	0.230912513 0 0.359885965 0 0.32052 0 0.413882515 0 0 0.413882515	0.187910244 0 0.259872502 0 0.259872502 0 0 0.286094625 0 0 0.355959495 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.164371988 0 2.292245822 0 2.698532418 0 3.204228544 0 0 0	0.000543132 0 0.000632046 0 0.000688501 0 0.000888501 0 0.000848865 0 0	- 0.001893757 0 0.002655673 0 0.001922184 0 0.001922184 0 0 0.002122071 0 0 0.002122071 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.001741315 0 0.002441972 0 0.001767443 0 0.001767443 0 0.00195158 0 0	54.88501053 0 63.87002054 0 69.57498521 0 85.78024618 0 0	0.051329856 0 0.071790333 0 0.068746375 0 0.083702607 0 0 0 0 0	0.025680827 0 0.028653774 0 0.032324224 0 0.032519825 0 0
Region C LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL	alendar Y Vehicle C 2022 LDA 2022 LDA 2022 LDA 2022 LDT1 2022 LDT1 2022 LDT1 2022 LDT2 2022 LDT2 2022 LDT2 2022 LDT2 2022 MDV 2022 MDV	Aggregate: Aggregate: CAS Aggregate: Aggregate: DSL Aggregate: Aggregate: ELEC Aggregate: Aggregate: ELEC Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS	4040505 1906 35580.71 1684 79346.02 3962 466456.3 2155 276.3593 979.1 3550.873 177 1395328 6550 9029.026 4454 14572.88 7373 941584.3 43 19913.35 9795 7529.633 3850	3483.35 45.7609 60.3789 709.822 1709586 60.7296 846.129 4.01587 7.31066 63838.4 8.74485	58% 1% 1% 0% 0% 20% 0% 13% 0%	0.230912513 0 0 0.359885965 0 0.32052 0 0.32052 0 0.413882515 0	0.187910244 0 0.259872502 0 0.286094625 0 0.355959495 0	2.164371988 0 2.292245822 0 2.698532418 0 3.204228544 0	0.000543132 0 0.000632046 0 0.000688501 0 0.000688505 0 0.000848865 0	- 0.001893757 0 0 0.002655673 0 0 0 0.001922184 0 0 0.001922184 0 0 0 0.002122071	0.001741315 0 0.002441972 0 0 0.001767443 0 0 0.0017675158 0.00195158	54.88501053 0 63.87002054 0 69.57498521 0 0 85.78024618 0	0.051329856 0 0.071790333 0 0.068746375 0 0.068702607 0	0.028653774 0 0.028653774 0 0.032324224 0 0.035519825 0
Region C LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL LOS ANGEL	alendar Y Vehicle C 2022 LDA 2022 LDA 2022 LDA 2022 LDT1 2022 LDT1 2022 LDT1 2022 LDT2 2022 LDT2 2022 LDT2 2022 LDT2 2022 MDV 2022 MDV	Aggregate: Aggregate: CAS Aggregate: Aggregate: DSL Aggregate: Aggregate: ELEC Aggregate: Aggregate: ELEC Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS Aggregate: Aggregate: CAS	4040505 1906 35580.71 1684 79346.02 3962 466456.3 2155 276.3593 979.1 3550.873 177 1395328 6550 9029.026 4454 14572.88 7373 941584.3 43 19913.35 9795 7529.633 3850	3483.35 45.7609 60.3789 709.822 1709586 60.7296 846.129 4.01587 7.31066 63838.4 8.74485 4.20314	58% 1% 1% 0% 0% 20% 0% 13% 0%	0.230912513 0 0.359885965 0 0.32052 0 0.413882515 0 0 0.413882515	0.187910244 0 0.259872502 0 0.259872502 0 0 0.286094625 0 0 0.355959495 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.164371988 0 2.292245822 0 2.698532418 0 3.204228544 0 0 0	0.000543132 0 0.000632046 0 0.000688501 0 0.000888501 0 0.000848865 0 0	- 0.001893757 0 0.002655673 0 0.001922184 0 0.001922184 0 0 0.002122071 0 0 0.002122071 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.001741315 0 0.002441972 0 0.001767443 0 0.001767443 0 0.00195158 0 0	54.88501053 0 63.87002054 0 69.57498521 0 85.78024618 0 0	0.051329856 0 0.071790333 0 0.068746375 0 0.083702607 0 0 0 0 0	0.025680827 0 0.028653774 0 0.032324224 0 0.032519825 0 0

Paved Roads Fugitive Dust Emissions

Paved Roads 100%

 $\label{eq:product} \begin{array}{ll} \mbox{Paved Road Dust} & \mbox{EF}_{\mbox{Dust}} = [(k(sL)^{0.91}\,x\,(W)^{1.02}](1-P/4N)) \\ \mbox{Source: AP-42 Section 13.2.1 (Paved Roads) - http://www.epa.gov/ttnchie1/ap42/ch13/final/c13s0201.pdf \\ \end{array}$

Variable	Value	Description
k (PM10)	0.0022	particle size multiplier for particle size range and units of interest (lb/VMT)
k (PM2.5)	0.00054	particle size multiplier for particle size range and units of interest (lb/VMT)
sL	0.032	road surface silt loading (g/m²) based on EPA 2011 default for collector streets (https://ww3.arb.ca.gov/ei/areasrc/fullpdf/full7-9_2016.pdf)
W	2.40	average weight of personal, light-duty vehicle
Р	33	number of "wet" days with at least 0.254 mm of precipitation during the averaging period (CalEEMod Appendix D)
N	365	number of days in averaging period

All Vehicle Trip Typ	bes
EF (PM10)	0.103910906 g/mi
EF (PM2.5)	0.025505404 g/mi

Conversion Units				
lbs		tons		
	2000		1	
lbs		grams		
	1		453.592	

Former UCC Torrance Distribution Facility Remediation Project

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	13.80	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edisc	n			
CO2 Intensity (Ib/MWhr)	534	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Update CO2 intensity per SCE 2019 Sustainability Report.

Land Use - Based on 13.8 site acreage.

Construction Phase - Based on project specific construction schedule.

Off-road Equipment - Project specific equipment. Off-highway trucks to account for end dump transport truck.

Off-road Equipment - Project specific equipment. Off-highway trucks to account for cement mixing truck, truck mounted drill rig, and hollow-stem auger drill rig CME-85.

Off-road Equipment - Project specific equipment. Other material handling equip to account for mixing trailer. Off-highway truck to account for truck mounted drill rig.

Off-road Equipment - Project specific equipment. Off-highway trucks to account for truck mounted drill rig, hollow-stem CME 85, and cement mixing truck.

Grading - Assumes approximately 150 CY material export and 200 CY material import.

Off-road Equipment - Equipment accounted for other Soil Excvations phase. Placeholder phase to account for export trips.

Trips and VMT - Vendor trucks to account for use of water truck throughout construction and equipment deliveries/removal from site at the beginning/end of each phase. Vendor trips also include well installation and concrete pour trips. Trip length for export haul truck trips based on proposed haul truck route to Buttonwillow to edge of SCAQMD air district boundary.

Vehicle Trips - Assumes one visit, on average, per week.

Energy Use -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps - SVE system equipped with an electric vacuum blower. Electric blower will be powered using a diesel generator (35 KW), 24 hrs/day.

Construction Off-road Equipment Mitigation - Assumes implementation of Rule 403 Fugitive Dust Control.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	PhaseEndDate	7/23/2021	5/17/2021
tblConstructionPhase	PhaseEndDate	6/11/2021	9/1/2021

tblConstructionPhase	PhaseStartDate	6/12/2021	5/3/2021
tblConstructionPhase	PhaseStartDate	5/29/2021	7/1/2021
tblGrading	AcresOfGrading	0.00	75.00
tblGrading	MaterialExported	0.00	150.00
tblGrading	MaterialImported	0.00	200.00
tblLandUse	LotAcreage	0.00	13.80
tblOffRoadEquipment	HorsePower	402.00	164.00
tblOffRoadEquipment	HorsePower	402.00	164.00
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Other Material Handling Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Former UCC Torrance Distribution Facilit	v Remediation Project	- Los Angeles-South	Coast County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534

Former UCC Torrance Distribution Facilit	v Remediation Proied	ct - Los Anaeles-South	Coast County, Winter

tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	CO_EF	4.10	4.10
tblStationaryGeneratorsPumpsEF	NOX_EF	5.32	5.32
tblStationaryGeneratorsPumpsEF	PM10_EF	0.45	0.45
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.45	0.45
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	47.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	24.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	8,760.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	85.00
tblTripsAndVMT	HaulingTripNumber	25.00	40.00
tblTripsAndVMT	HaulingTripNumber	19.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblVehicleTrips	WD_TR	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/e	day							lb/c	lay		
2021	4.6990	44.0036	30.1377	0.1099	7.6920	1.5124	9.2044	0.9053	1.3919	2.2972	0.0000	10,775.82 08	10,775.82 08	3.1147	0.0000	10,853.68 86
2022	2.0185	16.0798	17.8922	0.0513	0.2685	0.5967	0.8652	0.0732	0.5490	0.6223	0.0000	5,004.963 7	5,004.963 7	1.4731	0.0000	5,041.790 4
Maximum	4.6990	44.0036	30.1377	0.1099	7.6920	1.5124	9.2044	0.9053	1.3919	2.2972	0.0000	10,775.82 08	10,775.82 08	3.1147	0.0000	10,853.68 86

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/	day							lb/	day		
2021	4.6990	44.0036	30.1377	0.1099	3.7131	1.5124	5.2255	0.4756	1.3919	1.8675	0.0000	10,775.82 08	10,775.82 08	3.1147	0.0000	10,853.68 86
2022	2.0185	16.0798	17.8922	0.0513	0.2685	0.5967	0.8652	0.0732	0.5490	0.6223	0.0000	5,004.963 7	5,004.963 7	1.4731	0.0000	5,041.790 4
Maximum	4.6990	44.0036	30.1377	0.1099	3.7131	1.5124	5.2255	0.4756	1.3919	1.8675	0.0000	10,775.82 08	10,775.82 08	3.1147	0.0000	10,853.68 86
	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	49.98	0.00	39.51	43.91	0.00	14.72	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/d	lay		
Area	1.0000e- 005	0.0000	1.0000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000	-	2.2000e- 004	2.2000e- 004	0.0000		2.3000e- 004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	1.8509	9.6526	7.4512	8.9000e- 003		0.8129	0.8129		0.8129	0.8129		946.9719	946.9719	0.1328		950.2911
Total	1.8509	9.6526	7.4513	8.9000e- 003	0.0000	0.8129	0.8129	0.0000	0.8129	0.8129		946.9722	946.9722	0.1328	0.0000	950.2913

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	СО	SO2	Fugiti PM ²		haust M10	PM10 Total	Fugit PM2		khaust M2.5	PM2.5 Total	Bio	- CO2 N	IBio- CO2	Total C	D2 C	CH4	N2O	CO2e
Category						lb/day											lb/day			
Area	1.0000e- 005	0.0000	1.0000e- 004	0.0000		0.	0000	0.0000		C	.0000	0.0000			2.2000e- 004	2.2000 004	ə- 0.(0000		2.3000e- 004
Energy	0.0000	0.0000	0.0000	0.0000		0.	0000	0.0000		C	.0000	0.0000			0.0000	0.000) 0.(0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.00	00 0.	0000	0.0000	0.00	00 C	.0000	0.0000			0.0000	0.000) 0.(0000		0.0000
Stationary	1.8509	9.6526	7.4512	8.9000e- 003		0.	8129	0.8129		C	.8129	0.8129		(946.9719	946.97	19 0. ⁻	1328		950.2911
Total	1.8509	9.6526	7.4513	8.9000e- 003	0.00	00 0.	8129	0.8129	0.00	00 0	.8129	0.8129		ę	946.9722	946.97	22 0.′	1328	0.0000	950.2913
	ROG		NOx	:0 :	602	Fugitive PM10	Exha PM		VI10 otal	Fugitive PM2.5			M2.5 Total	Bio- CC	02 NBio-	-CO2 To	tal CO2	CH4	N	20 CO
Percent Reduction	0.00		0.00 0	.00 (.00	0.00	0.0	00 0	.00	0.00	0.	00	0.00	0.00	0.0	00	0.00	0.00	0.0	0.0

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Soil Excavations	Grading	5/3/2021	5/17/2021	5	11	
2	SVE Pilot System Construction	Site Preparation	7/1/2021	9/1/2021	5	45	
3	ISGS Barrier Construction	Site Preparation	4/1/2022	6/1/2022	5	44	
4	Expansion of SVE System	Site Preparation	7/1/2022	9/1/2022	5	45	
5	Soil Excavations Export Trips	Grading	5/3/2021	5/17/2021	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
ISGS Barrier Construction	Rubber Tired Dozers	0	0.00	247	0.40
Expansion of SVE System	Rubber Tired Dozers	0	0.00	247	0.40
ISGS Barrier Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Soil Excavations	Excavators	1	10.00	158	0.38
Expansion of SVE System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Soil Excavations	Rubber Tired Loaders	1	10.00	203	0.36
Soil Excavations	Off-Highway Trucks	5	10.00	402	0.38
SVE Pilot System Construction	Off-Highway Trucks	1	10.00	402	0.38
SVE Pilot System Construction	Off-Highway Trucks	1	10.00	164	0.38
SVE Pilot System Construction	Excavators	1	10.00	158	0.38
Soil Excavations	Rubber Tired Dozers	0	0.00	247	0.40

Former UCC Torrance Distribution Facility	v Remediation Project	- Los Angeles-South	Coast County, Winter

SVE Pilot System Construction	Off-Highway Trucks	1	10.00	402	0.38
Soil Excavations	Graders	0	0.00	187	0.41
Soil Excavations	Tractors/Loaders/Backhoes	0	0.00	97	0.37
ISGS Barrier Construction	Off-Highway Trucks	1	10.00	402	0.38
SVE Pilot System Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
SVE Pilot System Construction	Rubber Tired Dozers	0	0.00	247	0.40
Soil Excavations	Scrapers	0	0.00	367	0.48
ISGS Barrier Construction	Forklifts	1	10.00	89	0.20
ISGS Barrier Construction	Other Material Handling Equipment	1	10.00	168	0.40
Expansion of SVE System	Off-Highway Trucks	1	10.00	402	0.38
Expansion of SVE System	Off-Highway Trucks	1	10.00	164	0.38
Expansion of SVE System	Excavators	1	10.00	158	0.38
Expansion of SVE System	Off-Highway Trucks	1	10.00	402	0.38
Soil Excavations Export Trips	Excavators	0	0.00	158	0.38
Soil Excavations Export Trips	Graders	0	0.00	187	0.41
Soil Excavations Export Trips	Rubber Tired Dozers	0	0.00	247	0.40
Soil Excavations Export Trips	Scrapers	0	0.00	367	0.48
Soil Excavations Export Trips	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Soil Excavations Export Trips		0	0.00		

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
ISGS Barrier	3	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
SVE Pilot System	4	16.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Soil Excavations	7	16.00	2.00	40.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Expansion of SVE	4	16.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Soil Excavations	0	0.00	0.00	30.00	14.70	6.90	85.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Soil Excavations - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					7.2327	0.0000	7.2327	0.7811	0.0000	0.7811			0.0000			0.0000
Off-Road	4.5021	40.4175	28.6153	0.0968		1.4982	1.4982		1.3784	1.3784		9,372.541 5	9,372.541 5	3.0313		9,448.323 2
Total	4.5021	40.4175	28.6153	0.0968	7.2327	1.4982	8.7310	0.7811	1.3784	2.1594		9,372.541 5	9,372.541 5	3.0313		9,448.323 2

3.2 Soil Excavations - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	day		
Hauling	0.0311	0.9874	0.2425	2.7900e- 003	0.0636	3.0400e- 003	0.0666	0.0174	2.9100e- 003	0.0203		302.4666	302.4666	0.0216		303.0072
Vendor	6.3800e- 003	0.1938	0.0562	5.0000e- 004	0.0128	4.1000e- 004	0.0132	3.6900e- 003	3.9000e- 004	4.0800e- 003		53.4691	53.4691	3.4500e- 003		53.5554
Worker	0.0763	0.0522	0.5892	1.7200e- 003	0.1788	1.4500e- 003	0.1803	0.0474	1.3300e- 003	0.0488		171.5602	171.5602	5.0500e- 003		171.6864
Total	0.1137	1.2333	0.8879	5.0100e- 003	0.2552	4.9000e- 003	0.2601	0.0686	4.6300e- 003	0.0732		527.4959	527.4959	0.0301		528.2490

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/o	day							lb/c	lay		
Fugitive Dust					3.2547	0.0000	3.2547	0.3515	0.0000	0.3515			0.0000			0.0000
Off-Road	4.5021	40.4175	28.6153	0.0968		1.4982	1.4982		1.3784	1.3784	0.0000	9,372.541 5	9,372.541 5	3.0313		9,448.323 2
Total	4.5021	40.4175	28.6153	0.0968	3.2547	1.4982	4.7530	0.3515	1.3784	1.7298	0.0000	9,372.541 5	9,372.541 5	3.0313		9,448.323 2

3.2 Soil Excavations - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	day		
Hauling	0.0311	0.9874	0.2425	2.7900e- 003	0.0636	3.0400e- 003	0.0666	0.0174	2.9100e- 003	0.0203		302.4666	302.4666	0.0216		303.0072
Vendor	6.3800e- 003	0.1938	0.0562	5.0000e- 004	0.0128	4.1000e- 004	0.0132	3.6900e- 003	3.9000e- 004	4.0800e- 003		53.4691	53.4691	3.4500e- 003		53.5554
Worker	0.0763	0.0522	0.5892	1.7200e- 003	0.1788	1.4500e- 003	0.1803	0.0474	1.3300e- 003	0.0488		171.5602	171.5602	5.0500e- 003		171.6864
Total	0.1137	1.2333	0.8879	5.0100e- 003	0.2552	4.9000e- 003	0.2601	0.0686	4.6300e- 003	0.0732		527.4959	527.4959	0.0301		528.2490

3.3 SVE Pilot System Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1838	18.9364	17.6676	0.0462		0.7686	0.7686		0.7071	0.7071		4,467.688 4	4,467.688 4	1.4449		4,503.812 0
Total	2.1838	18.9364	17.6676	0.0462	0.0000	0.7686	0.7686	0.0000	0.7071	0.7071		4,467.688 4	4,467.688 4	1.4449		4,503.812 0

3.3 SVE Pilot System Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0447	1.3564	0.3931	3.5000e- 003	0.0896	2.8700e- 003	0.0925	0.0258	2.7400e- 003	0.0286		374.2837	374.2837	0.0242		374.8878
Worker	0.0763	0.0522	0.5892	1.7200e- 003	0.1788	1.4500e- 003	0.1803	0.0474	1.3300e- 003	0.0488		171.5602	171.5602	5.0500e- 003		171.6864
Total	0.1210	1.4086	0.9823	5.2200e- 003	0.2685	4.3200e- 003	0.2728	0.0732	4.0700e- 003	0.0773		545.8439	545.8439	0.0292		546.5742

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1838	18.9364	17.6676	0.0462		0.7686	0.7686		0.7071	0.7071	0.0000	4,467.688 4	4,467.688 4	1.4449		4,503.812 0
Total	2.1838	18.9364	17.6676	0.0462	0.0000	0.7686	0.7686	0.0000	0.7071	0.7071	0.0000	4,467.688 4	4,467.688 4	1.4449		4,503.812 0

3.3 SVE Pilot System Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0447	1.3564	0.3931	3.5000e- 003	0.0896	2.8700e- 003	0.0925	0.0258	2.7400e- 003	0.0286		374.2837	374.2837	0.0242		374.8878
Worker	0.0763	0.0522	0.5892	1.7200e- 003	0.1788	1.4500e- 003	0.1803	0.0474	1.3300e- 003	0.0488		171.5602	171.5602	5.0500e- 003		171.6864
Total	0.1210	1.4086	0.9823	5.2200e- 003	0.2685	4.3200e- 003	0.2728	0.0732	4.0700e- 003	0.0773		545.8439	545.8439	0.0292		546.5742

3.4 ISGS Barrier Construction - 2022

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.1368	9.1415	10.3460	0.0257		0.4220	0.4220		0.3883	0.3883		2,483.366 1	2,483.366 1	0.8032		2,503.445 4
Total	1.1368	9.1415	10.3460	0.0257	0.0000	0.4220	0.4220	0.0000	0.3883	0.3883		2,483.366 1	2,483.366 1	0.8032		2,503.445 4

3.4 ISGS Barrier Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e- 003	0.1842	0.0532	5.0000e- 004	0.0128	3.6000e- 004	0.0132	3.6900e- 003	3.4000e- 004	4.0300e- 003		52.9941	52.9941	3.3300e- 003		53.0773
Worker	0.0717	0.0471	0.5427	1.6600e- 003	0.1788	1.4000e- 003	0.1802	0.0474	1.2900e- 003	0.0487		165.5311	165.5311	4.5600e- 003		165.6451
Total	0.0776	0.2313	0.5958	2.1600e- 003	0.1916	1.7600e- 003	0.1934	0.0511	1.6300e- 003	0.0528		218.5252	218.5252	7.8900e- 003		218.7224

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.1368	9.1415	10.3460	0.0257		0.4220	0.4220		0.3883	0.3883	0.0000	2,483.366 1	2,483.366 1	0.8032		2,503.445 4
Total	1.1368	9.1415	10.3460	0.0257	0.0000	0.4220	0.4220	0.0000	0.3883	0.3883	0.0000	2,483.366 1	2,483.366 1	0.8032		2,503.445 4

3.4 ISGS Barrier Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.9900e- 003	0.1842	0.0532	5.0000e- 004	0.0128	3.6000e- 004	0.0132	3.6900e- 003	3.4000e- 004	4.0300e- 003		52.9941	52.9941	3.3300e- 003		53.0773
Worker	0.0717	0.0471	0.5427	1.6600e- 003	0.1788	1.4000e- 003	0.1802	0.0474	1.2900e- 003	0.0487		165.5311	165.5311	4.5600e- 003		165.6451
Total	0.0776	0.2313	0.5958	2.1600e- 003	0.1916	1.7600e- 003	0.1934	0.0511	1.6300e- 003	0.0528		218.5252	218.5252	7.8900e- 003		218.7224

3.5 Expansion of SVE System - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.9049	14.7436	16.9775	0.0462		0.5928	0.5928		0.5454	0.5454		4,468.474 2	4,468.474 2	1.4452		4,504.604 1
Total	1.9049	14.7436	16.9775	0.0462	0.0000	0.5928	0.5928	0.0000	0.5454	0.5454		4,468.474 2	4,468.474 2	1.4452		4,504.604 1

3.5 Expansion of SVE System - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/d	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0419	1.2891	0.3721	3.4700e- 003	0.0896	2.5100e- 003	0.0921	0.0258	2.4000e- 003	0.0282		370.9584	370.9584	0.0233		371.5412
Worker	0.0717	0.0471	0.5427	1.6600e- 003	0.1788	1.4000e- 003	0.1802	0.0474	1.2900e- 003	0.0487		165.5311	165.5311	4.5600e- 003		165.6451
Total	0.1136	1.3362	0.9148	5.1300e- 003	0.2685	3.9100e- 003	0.2724	0.0732	3.6900e- 003	0.0769		536.4895	536.4895	0.0279		537.1863

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/d	day		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.9049	14.7436	16.9775	0.0462		0.5928	0.5928		0.5454	0.5454	0.0000	4,468.474 2	4,468.474 2	1.4452		4,504.604 1
Total	1.9049	14.7436	16.9775	0.0462	0.0000	0.5928	0.5928	0.0000	0.5454	0.5454	0.0000	4,468.474 2	4,468.474 2	1.4452		4,504.604 1

3.5 Expansion of SVE System - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	day		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0419	1.2891	0.3721	3.4700e- 003	0.0896	2.5100e- 003	0.0921	0.0258	2.4000e- 003	0.0282		370.9584	370.9584	0.0233		371.5412
Worker	0.0717	0.0471	0.5427	1.6600e- 003	0.1788	1.4000e- 003	0.1802	0.0474	1.2900e- 003	0.0487		165.5311	165.5311	4.5600e- 003		165.6451
Total	0.1136	1.3362	0.9148	5.1300e- 003	0.2685	3.9100e- 003	0.2724	0.0732	3.6900e- 003	0.0769		536.4895	536.4895	0.0279		537.1863

3.6 Soil Excavations Export Trips - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	lay		
Fugitive Dust					1.5400e- 003	0.0000	1.5400e- 003	2.3000e- 004	0.0000	2.3000e- 004			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	1.5400e- 003	0.0000	1.5400e- 003	2.3000e- 004	0.0000	2.3000e- 004		0.0000	0.0000	0.0000		0.0000

3.6 Soil Excavations Export Trips - 2021

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	lay		
Hauling	0.0831	2.3528	0.6345	8.0700e- 003	0.2025	9.2600e- 003	0.2117	0.0555	8.8600e- 003	0.0644		875.7835	875.7835	0.0533		877.1165
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0831	2.3528	0.6345	8.0700e- 003	0.2025	9.2600e- 003	0.2117	0.0555	8.8600e- 003	0.0644		875.7835	875.7835	0.0533		877.1165

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	day							lb/c	day		
Fugitive Dust					6.9000e- 004	0.0000	6.9000e- 004	1.1000e- 004	0.0000	1.1000e- 004			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	 - - - -	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	6.9000e- 004	0.0000	6.9000e- 004	1.1000e- 004	0.0000	1.1000e- 004	0.0000	0.0000	0.0000	0.0000		0.0000

3.6 Soil Excavations Export Trips - 2021

Mitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	lay		
Hauling	0.0831	2.3528	0.6345	8.0700e- 003	0.2025	9.2600e- 003	0.2117	0.0555	8.8600e- 003	0.0644		875.7835	875.7835	0.0533		877.1165
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0831	2.3528	0.6345	8.0700e- 003	0.2025	9.2600e- 003	0.2117	0.0555	8.8600e- 003	0.0644		875.7835	875.7835	0.0533		877.1165

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/e	day							lb/c	lay		
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/o	day							lb/c	lay		
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					lb/e	day							lb/c	day		
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/	day							lb/c	lay		
Mitigated	1.0000e- 005	0.0000	1.0000e- 004	0.0000	1 1 1	0.0000	0.0000		0.0000	0.0000		2.2000e- 004	2.2000e- 004	0.0000		2.3000e- 004
Unmitigated	1.0000e- 005	0.0000	1.0000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e- 004	2.2000e- 004	0.0000		2.3000e- 004

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/e	day							lb/d	day		
	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e- 005	0.0000	1.0000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e- 004	2.2000e- 004	0.0000		2.3000e- 004
Total	1.0000e- 005	0.0000	1.0000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e- 004	2.2000e- 004	0.0000		2.3000e- 004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					lb/d	day							lb/d	lay		
	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
	0.0000					0.0000	0.0000	1 1 1 1 1	0.0000	0.0000			0.0000			0.0000
Landscaping	1.0000e- 005	0.0000	1.0000e- 004	0.0000		0.0000	0.0000	1 1 1 1 1	0.0000	0.0000		2.2000e- 004	2.2000e- 004	0.0000		2.3000e- 004
Total	1.0000e- 005	0.0000	1.0000e- 004	0.0000		0.0000	0.0000		0.0000	0.0000		2.2000e- 004	2.2000e- 004	0.0000		2.3000e- 004

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	24	8760	47	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type					lb/o	day							lb/c	lay		
Diesel (25 - 50	1.8509	9.6526	7.4512	8.9000e- 003		0.8129	0.8129		0.8129	0.8129		946.9719	946.9719	0.1328		950.2911
Total	1.8509	9.6526	7.4512	8.9000e- 003		0.8129	0.8129		0.8129	0.8129		946.9719	946.9719	0.1328		950.2911

11.0 Vegetation

Former UCC Torrance Distribution Facility Remediation Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	13.80	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edisc	n			
CO2 Intensity (Ib/MWhr)	534	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Update CO2 intensity per SCE 2019 Sustainability Report.

Land Use - Based on 13.8 site acreage.

Construction Phase - Based on project specific construction schedule.

Off-road Equipment - Project specific equipment. Off-highway trucks to account for end dump transport truck.

Off-road Equipment - Project specific equipment. Off-highway trucks to account for cement mixing truck, truck mounted drill rig, and hollow-stem auger drill rig CME-85.

Off-road Equipment - Project specific equipment. Other material handling equip to account for mixing trailer. Off-highway truck to account for truck mounted drill rig.

Off-road Equipment - Project specific equipment. Off-highway trucks to account for truck mounted drill rig, hollow-stem CME 85, and cement mixing truck.

Grading - Assumes approximately 150 CY material export and 200 CY material import.

Off-road Equipment - Equipment accounted for other Soil Excvations phase. Placeholder phase to account for export trips.

Trips and VMT - Vendor trucks to account for use of water truck throughout construction and equipment deliveries/removal from site at the beginning/end of each phase. Vendor trips also include well installation and concrete pour trips. Trip length for export haul truck trips based on proposed haul truck route to Buttonwillow to edge of SCAQMD air district boundary.

Vehicle Trips - Assumes one visit, on average, per week.

Energy Use -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps - SVE system equipped with an electric vacuum blower. Electric blower will be powered using a diesel generator (35 KW), 24 hrs/day.

Construction Off-road Equipment Mitigation - Assumes implementation of Rule 403 Fugitive Dust Control.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	30.00	11.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	PhaseEndDate	7/23/2021	5/17/2021
tblConstructionPhase	PhaseEndDate	6/11/2021	9/1/2021

tblConstructionPhase	PhaseStartDate	6/12/2021	5/3/2021
tblConstructionPhase	PhaseStartDate	5/29/2021	7/1/2021
tblGrading	AcresOfGrading	0.00	75.00
tblGrading	MaterialExported	0.00	150.00
tblGrading	MaterialImported	0.00	200.00
tblLandUse	LotAcreage	0.00	13.80
tblOffRoadEquipment	HorsePower	402.00	164.00
tblOffRoadEquipment	HorsePower	402.00	164.00
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Other Material Handling Equipmer
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Former UCC Torrance Distribution Facilit	v Remediation Project	- Los Angeles-South	Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
		· · · · · · · · · · · · · · · · · · ·	

Former UCC Torrance Distribution Facility	/ Remediation Project	- Los Angeles-South	Coast County, Annual

tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	CO_EF	4.10	4.10
tblStationaryGeneratorsPumpsEF	NOX_EF	5.32	5.32
tblStationaryGeneratorsPumpsEF	PM10_EF	0.45	0.45
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.45	0.45
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	47.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	24.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	8,760.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	85.00
tblTripsAndVMT	HaulingTripNumber	25.00	40.00
tblTripsAndVMT	HaulingTripNumber	19.00	30.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblTripsAndVMT	WorkerTripNumber	18.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	10.00	16.00
tblVehicleTrips	WD_TR	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					ton	s/yr							MT	/yr		
2021	0.0775	0.7008	0.5853	1.7600e- 003	0.0482	0.0257	0.0739	6.5900e- 003	0.0237	0.0302	0.0000	156.3294	156.3294	0.0456	0.0000	157.4697
2022	0.0718	0.5687	0.6435	1.7700e- 003	0.0101	0.0228	0.0328	2.7200e- 003	0.0209	0.0237	0.0000	156.3372	156.3372	0.0462	0.0000	157.4932
Maximum	0.0775	0.7008	0.6435	1.7700e- 003	0.0482	0.0257	0.0739	6.5900e- 003	0.0237	0.0302	0.0000	156.3372	156.3372	0.0462	0.0000	157.4932

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	tons/yr											MT/yr					
2021	0.0775	0.7008	0.5853	1.7600e- 003	0.0263	0.0257	0.0520	4.2300e- 003	0.0237	0.0279	0.0000	156.3292	156.3292	0.0456	0.0000	157.4695	
2022	0.0718	0.5687	0.6435	1.7700e- 003	0.0101	0.0228	0.0328	2.7200e- 003	0.0209	0.0237	0.0000	156.3371	156.3371	0.0462	0.0000	157.4931	
Maximum	0.0775	0.7008	0.6435	1.7700e- 003	0.0263	0.0257	0.0520	4.2300e- 003	0.0237	0.0279	0.0000	156.3371	156.3371	0.0462	0.0000	157.4931	
	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e	
Percent Reduction	0.00	0.00	0.00	0.00	37.56	0.00	20.51	25.35	0.00	4.38	0.00	0.00	0.00	0.00	0.00	0.00	

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-3-2021	8-2-2021	0.5399	0.5399
2	8-3-2021	11-2-2021	0.2425	0.2425
4	2-3-2022	5-2-2022	0.1209	0.1209
5	5-3-2022	8-2-2022	0.3265	0.3265
6	8-3-2022	9-30-2022	0.1938	0.1938
		Highest	0.5399	0.5399

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category		tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e- 005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e- 005	2.0000e- 005	0.0000	0.0000	3.0000e- 005	
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Stationary	0.3378	1.7616	1.3598	1.6200e- 003		0.1484	0.1484	y	0.1484	0.1484	0.0000	156.7818	156.7818	0.0220	0.0000	157.3314	
Waste						0.0000	0.0000	y	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Water						0.0000	0.0000	y	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	0.3378	1.7616	1.3599	1.6200e- 003	0.0000	0.1484	0.1484	0.0000	0.1484	0.1484	0.0000	156.7818	156.7818	0.0220	0.0000	157.3314	

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugiti PM2		aust 12.5	PM2.5 Total	Bio- C	O2 NB	io- CO2	Total CO	2 Cł	-14	N2O	CO2e
Category					tc	ons/yr									Ν	1T/yr			
Area	0.0000	0.0000	1.0000e- 005	0.0000		0.0000	0.0000		0.0	0000	0.0000	0.00		0000e- 005	2.0000e- 005	0.0	000	0.0000	3.0000e- 005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	 - - - -	0.0	0000	0.0000	0.00	0 00	.0000	0.0000	0.0	000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00	00 0.0	0000	0.0000	0.00	0 00	.0000	0.0000	0.0	000	0.0000	0.0000
Stationary	0.3378	1.7616	1.3598	1.6200e- 003		0.1484	0.1484	 1 1 1	0.1	484	0.1484	0.00	00 15	6.7818	156.7818	0.0	220	0.0000	157.3314
Waste	,				 - - -	0.0000	0.0000	 1 1 1	0.0	0000	0.0000	0.00	0 00	.0000	0.0000	0.0	000	0.0000	0.0000
Water	,					0.0000	0.0000	 1 1 1	0.0	000	0.0000	0.00	0 00	.0000	0.0000	0.0	000	0.0000	0.0000
Total	0.3378	1.7616	1.3599	1.6200e- 003	0.0000	0.1484	0.1484	0.00	00 0.1	484	0.1484	0.00	00 15	6.7818	156.7818	0.0	220	0.0000	157.3314
	ROG	1	NOx (co s				l10 otal	Fugitive PM2.5	Exha PM		12.5 I otal	Bio- CO2	NBio-	CO2 Tota	I CO2	CH4	1 N	20 CO20
Percent Reduction	0.00	().00 ().00 0	.00	0.00 0	.00 0	.00	0.00	0.0	00 0.	00	0.00	0.0	0 0	.00	0.00) 0.	00 0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Soil Excavations	Grading	5/3/2021	5/17/2021	5	11	
2	SVE Pilot System Construction	Site Preparation	7/1/2021	9/1/2021	5	45	
3	ISGS Barrier Construction	Site Preparation	4/1/2022	6/1/2022	5	44	
4	Expansion of SVE System	Site Preparation	7/1/2022	9/1/2022	5	45	
5	Soil Excavations Export Trips	Grading	5/3/2021	5/17/2021	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
ISGS Barrier Construction	Rubber Tired Dozers	0	0.00	247	0.40
Expansion of SVE System	Rubber Tired Dozers	0	0.00	247	0.40
ISGS Barrier Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Soil Excavations	Excavators	1	10.00	158	0.38
Expansion of SVE System	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Soil Excavations	Rubber Tired Loaders	1	10.00	203	0.36
Soil Excavations	Off-Highway Trucks	5	10.00	402	0.38
SVE Pilot System Construction	Off-Highway Trucks	1	10.00	402	0.38
SVE Pilot System Construction	Off-Highway Trucks	1	10.00	164	0.38
SVE Pilot System Construction	Excavators	1	10.00	158	0.38
Soil Excavations	Rubber Tired Dozers	0	0.00	247	0.40

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SVE Pilot System Construction	Off-Highway Trucks	1	10.00	402	0.38
Soil Excavations	Graders	0	0.00	187	0.41
Soil Excavations	Tractors/Loaders/Backhoes	0	0.00	97	0.37
ISGS Barrier Construction	Off-Highway Trucks	1	10.00	402	0.38
SVE Pilot System Construction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
SVE Pilot System Construction	Rubber Tired Dozers	0	0.00	247	0.40
Soil Excavations	Scrapers	0	0.00	367	0.48
ISGS Barrier Construction	Forklifts	1	10.00	89	0.20
ISGS Barrier Construction	Other Material Handling Equipment	 1	10.00	168	0.40
Expansion of SVE System	Off-Highway Trucks	1	10.00	402	0.38
Expansion of SVE System	Off-Highway Trucks	1	10.00	164	0.38
Expansion of SVE System	Excavators	1	10.00	158	0.38
Expansion of SVE System	Off-Highway Trucks	F1	10.00	402	0.38
Soil Excavations Export Trips	Excavators	0	0.00	158	0.38
Soil Excavations Export Trips	Graders	0	0.00	187	0.41
Soil Excavations Export Trips	Rubber Tired Dozers	0	0.00	247	0.40
Soil Excavations Export Trips	Scrapers	0	0.00	367	0.48
Soil Excavations Export Trips	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Soil Excavations Export Trips		0	0.00		

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
ISGS Barrier	3	16.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
SVE Pilot System	4	16.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Soil Excavations	7	16.00	2.00	40.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Expansion of SVE	4	16.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Soil Excavations	0	0.00	0.00	30.00	14.70	6.90	85.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Soil Excavations - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust					0.0398	0.0000	0.0398	4.3000e- 003	0.0000	4.3000e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2223	0.1574	5.3000e- 004		8.2400e- 003	8.2400e- 003		7.5800e- 003	7.5800e- 003	0.0000	46.7645	46.7645	0.0151	0.0000	47.1426
Total	0.0248	0.2223	0.1574	5.3000e- 004	0.0398	8.2400e- 003	0.0480	4.3000e- 003	7.5800e- 003	0.0119	0.0000	46.7645	46.7645	0.0151	0.0000	47.1426

3.2 Soil Excavations - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr					MT	/yr				
Hauling	1.7000e- 004	5.5400e- 003	1.2900e- 003	2.0000e- 005	3.4000e- 004	2.0000e- 005	3.6000e- 004	9.0000e- 005	2.0000e- 005	1.1000e- 004	0.0000	1.5246	1.5246	1.1000e- 004	0.0000	1.5272
Vendor	3.0000e- 005	1.0900e- 003	2.9000e- 004	0.0000	7.0000e- 005	0.0000	7.0000e- 005	2.0000e- 005	0.0000	2.0000e- 005	0.0000	0.2712	0.2712	2.0000e- 005	0.0000	0.2716
Worker	3.8000e- 004	2.9000e- 004	3.3300e- 003	1.0000e- 005	9.6000e- 004	1.0000e- 005	9.7000e- 004	2.6000e- 004	1.0000e- 005	2.6000e- 004	0.0000	0.8703	0.8703	3.0000e- 005	0.0000	0.8709
Total	5.8000e- 004	6.9200e- 003	4.9100e- 003	3.0000e- 005	1.3700e- 003	3.0000e- 005	1.4000e- 003	3.7000e- 004	3.0000e- 005	3.9000e- 004	0.0000	2.6660	2.6660	1.6000e- 004	0.0000	2.6697

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	∵/yr		
Fugitive Dust					0.0179	0.0000	0.0179	1.9300e- 003	0.0000	1.9300e- 003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2223	0.1574	5.3000e- 004		8.2400e- 003	8.2400e- 003		7.5800e- 003	7.5800e- 003	0.0000	46.7644	46.7644	0.0151	0.0000	47.1425
Total	0.0248	0.2223	0.1574	5.3000e- 004	0.0179	8.2400e- 003	0.0261	1.9300e- 003	7.5800e- 003	9.5100e- 003	0.0000	46.7644	46.7644	0.0151	0.0000	47.1425

3.2 Soil Excavations - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	1.7000e- 004	5.5400e- 003	1.2900e- 003	2.0000e- 005	3.4000e- 004	2.0000e- 005	3.6000e- 004	9.0000e- 005	2.0000e- 005	1.1000e- 004	0.0000	1.5246	1.5246	1.1000e- 004	0.0000	1.5272
Vendor	3.0000e- 005	1.0900e- 003	2.9000e- 004	0.0000	7.0000e- 005	0.0000	7.0000e- 005	2.0000e- 005	0.0000	2.0000e- 005	0.0000	0.2712	0.2712	2.0000e- 005	0.0000	0.2716
Worker	3.8000e- 004	2.9000e- 004	3.3300e- 003	1.0000e- 005	9.6000e- 004	1.0000e- 005	9.7000e- 004	2.6000e- 004	1.0000e- 005	2.6000e- 004	0.0000	0.8703	0.8703	3.0000e- 005	0.0000	0.8709
Total	5.8000e- 004	6.9200e- 003	4.9100e- 003	3.0000e- 005	1.3700e- 003	3.0000e- 005	1.4000e- 003	3.7000e- 004	3.0000e- 005	3.9000e- 004	0.0000	2.6660	2.6660	1.6000e- 004	0.0000	2.6697

3.3 SVE Pilot System Construction - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0491	0.4261	0.3975	1.0400e- 003		0.0173	0.0173		0.0159	0.0159	0.0000	91.1929	91.1929	0.0295	0.0000	91.9303
Total	0.0491	0.4261	0.3975	1.0400e- 003	0.0000	0.0173	0.0173	0.0000	0.0159	0.0159	0.0000	91.1929	91.1929	0.0295	0.0000	91.9303

3.3 SVE Pilot System Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e- 004	0.0311	8.4300e- 003	8.0000e- 005	1.9800e- 003	6.0000e- 005	2.0500e- 003	5.7000e- 004	6.0000e- 005	6.3000e- 004	0.0000	7.7646	7.7646	4.8000e- 004	0.0000	7.7766
Worker	1.5500e- 003	1.2100e- 003	0.0136	4.0000e- 005	3.9400e- 003	3.0000e- 005	3.9800e- 003	1.0500e- 003	3.0000e- 005	1.0800e- 003	0.0000	3.5601	3.5601	1.0000e- 004	0.0000	3.5627
Total	2.5300e- 003	0.0323	0.0220	1.2000e- 004	5.9200e- 003	9.0000e- 005	6.0300e- 003	1.6200e- 003	9.0000e- 005	1.7100e- 003	0.0000	11.3247	11.3247	5.8000e- 004	0.0000	11.3393

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0491	0.4261	0.3975	1.0400e- 003		0.0173	0.0173		0.0159	0.0159	0.0000	91.1928	91.1928	0.0295	0.0000	91.9302
Total	0.0491	0.4261	0.3975	1.0400e- 003	0.0000	0.0173	0.0173	0.0000	0.0159	0.0159	0.0000	91.1928	91.1928	0.0295	0.0000	91.9302

3.3 SVE Pilot System Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e- 004	0.0311	8.4300e- 003	8.0000e- 005	1.9800e- 003	6.0000e- 005	2.0500e- 003	5.7000e- 004	6.0000e- 005	6.3000e- 004	0.0000	7.7646	7.7646	4.8000e- 004	0.0000	7.7766
Worker	1.5500e- 003	1.2100e- 003	0.0136	4.0000e- 005	3.9400e- 003	3.0000e- 005	3.9800e- 003	1.0500e- 003	3.0000e- 005	1.0800e- 003	0.0000	3.5601	3.5601	1.0000e- 004	0.0000	3.5627
Total	2.5300e- 003	0.0323	0.0220	1.2000e- 004	5.9200e- 003	9.0000e- 005	6.0300e- 003	1.6200e- 003	9.0000e- 005	1.7100e- 003	0.0000	11.3247	11.3247	5.8000e- 004	0.0000	11.3393

3.4 ISGS Barrier Construction - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0250	0.2011	0.2276	5.6000e- 004		9.2800e- 003	9.2800e- 003		8.5400e- 003	8.5400e- 003	0.0000	49.5632	49.5632	0.0160	0.0000	49.9639
Total	0.0250	0.2011	0.2276	5.6000e- 004	0.0000	9.2800e- 003	9.2800e- 003	0.0000	8.5400e- 003	8.5400e- 003	0.0000	49.5632	49.5632	0.0160	0.0000	49.9639

3.4 ISGS Barrier Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e- 004	4.1300e- 003	1.1100e- 003	1.0000e- 005	2.8000e- 004	1.0000e- 005	2.8000e- 004	8.0000e- 005	1.0000e- 005	9.0000e- 005	0.0000	1.0751	1.0751	6.0000e- 005	0.0000	1.0767
Worker	1.4200e- 003	1.0700e- 003	0.0123	4.0000e- 005	3.8600e- 003	3.0000e- 005	3.8900e- 003	1.0200e- 003	3.0000e- 005	1.0500e- 003	0.0000	3.3586	3.3586	9.0000e- 005	0.0000	3.3609
Total	1.5500e- 003	5.2000e- 003	0.0134	5.0000e- 005	4.1400e- 003	4.0000e- 005	4.1700e- 003	1.1000e- 003	4.0000e- 005	1.1400e- 003	0.0000	4.4337	4.4337	1.5000e- 004	0.0000	4.4376

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0250	0.2011	0.2276	5.6000e- 004		9.2800e- 003	9.2800e- 003		8.5400e- 003	8.5400e- 003	0.0000	49.5631	49.5631	0.0160	0.0000	49.9639
Total	0.0250	0.2011	0.2276	5.6000e- 004	0.0000	9.2800e- 003	9.2800e- 003	0.0000	8.5400e- 003	8.5400e- 003	0.0000	49.5631	49.5631	0.0160	0.0000	49.9639

3.4 ISGS Barrier Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e- 004	4.1300e- 003	1.1100e- 003	1.0000e- 005	2.8000e- 004	1.0000e- 005	2.8000e- 004	8.0000e- 005	1.0000e- 005	9.0000e- 005	0.0000	1.0751	1.0751	6.0000e- 005	0.0000	1.0767
Worker	1.4200e- 003	1.0700e- 003	0.0123	4.0000e- 005	3.8600e- 003	3.0000e- 005	3.8900e- 003	1.0200e- 003	3.0000e- 005	1.0500e- 003	0.0000	3.3586	3.3586	9.0000e- 005	0.0000	3.3609
Total	1.5500e- 003	5.2000e- 003	0.0134	5.0000e- 005	4.1400e- 003	4.0000e- 005	4.1700e- 003	1.1000e- 003	4.0000e- 005	1.1400e- 003	0.0000	4.4337	4.4337	1.5000e- 004	0.0000	4.4376

3.5 Expansion of SVE System - 2022

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	∵/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0429	0.3317	0.3820	1.0400e- 003		0.0133	0.0133		0.0123	0.0123	0.0000	91.2090	91.2090	0.0295	0.0000	91.9464
Total	0.0429	0.3317	0.3820	1.0400e- 003	0.0000	0.0133	0.0133	0.0000	0.0123	0.0123	0.0000	91.2090	91.2090	0.0295	0.0000	91.9464

3.5 Expansion of SVE System - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2000e- 004	0.0295	7.9700e- 003	8.0000e- 005	1.9800e- 003	6.0000e- 005	2.0400e- 003	5.7000e- 004	5.0000e- 005	6.3000e- 004	0.0000	7.6964	7.6964	4.6000e- 004	0.0000	7.7079
Worker	1.4500e- 003	1.0900e- 003	0.0125	4.0000e- 005	3.9400e- 003	3.0000e- 005	3.9800e- 003	1.0500e- 003	3.0000e- 005	1.0800e- 003	0.0000	3.4350	3.4350	9.0000e- 005	0.0000	3.4373
Total	2.3700e- 003	0.0306	0.0205	1.2000e- 004	5.9200e- 003	9.0000e- 005	6.0200e- 003	1.6200e- 003	8.0000e- 005	1.7100e- 003	0.0000	11.1314	11.1314	5.5000e- 004	0.0000	11.1453

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	∵/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0429	0.3317	0.3820	1.0400e- 003		0.0133	0.0133		0.0123	0.0123	0.0000	91.2089	91.2089	0.0295	0.0000	91.9463
Total	0.0429	0.3317	0.3820	1.0400e- 003	0.0000	0.0133	0.0133	0.0000	0.0123	0.0123	0.0000	91.2089	91.2089	0.0295	0.0000	91.9463

3.5 Expansion of SVE System - 2022

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	'/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2000e- 004	0.0295	7.9700e- 003	8.0000e- 005	1.9800e- 003	6.0000e- 005	2.0400e- 003	5.7000e- 004	5.0000e- 005	6.3000e- 004	0.0000	7.6964	7.6964	4.6000e- 004	0.0000	7.7079
Worker	1.4500e- 003	1.0900e- 003	0.0125	4.0000e- 005	3.9400e- 003	3.0000e- 005	3.9800e- 003	1.0500e- 003	3.0000e- 005	1.0800e- 003	0.0000	3.4350	3.4350	9.0000e- 005	0.0000	3.4373
Total	2.3700e- 003	0.0306	0.0205	1.2000e- 004	5.9200e- 003	9.0000e- 005	6.0200e- 003	1.6200e- 003	8.0000e- 005	1.7100e- 003	0.0000	11.1314	11.1314	5.5000e- 004	0.0000	11.1453

3.6 Soil Excavations Export Trips - 2021

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Fugitive Dust					1.0000e- 005	0.0000	1.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	1.0000e- 005	0.0000	1.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Soil Excavations Export Trips - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	/yr		
Hauling	4.6000e- 004	0.0132	3.4600e- 003	4.0000e- 005	1.0900e- 003	5.0000e- 005	1.1500e- 003	3.0000e- 004	5.0000e- 005	3.5000e- 004	0.0000	4.3813	4.3813	2.6000e- 004	0.0000	4.3879
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.6000e- 004	0.0132	3.4600e- 003	4.0000e- 005	1.0900e- 003	5.0000e- 005	1.1500e- 003	3.0000e- 004	5.0000e- 005	3.5000e- 004	0.0000	4.3813	4.3813	2.6000e- 004	0.0000	4.3879

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							MT	∵/yr		
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Soil Excavations Export Trips - 2021

Mitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Hauling	4.6000e- 004	0.0132	3.4600e- 003	4.0000e- 005	1.0900e- 003	5.0000e- 005	1.1500e- 003	3.0000e- 004	5.0000e- 005	3.5000e- 004	0.0000	4.3813	4.3813	2.6000e- 004	0.0000	4.3879
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.6000e- 004	0.0132	3.4600e- 003	4.0000e- 005	1.0900e- 003	5.0000e- 005	1.1500e- 003	3.0000e- 004	5.0000e- 005	3.5000e- 004	0.0000	4.3813	4.3813	2.6000e- 004	0.0000	4.3879

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Ave	rage Daily Trip Ra	ate	Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

		Miles			Trip %			Trip Purpos	e %
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	, , , ,	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

<u>Unmitigated</u>

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGa s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr					ton	s/yr							MT	/yr		
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	/yr	
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

CalEEMod Version: CalEEMod.2016.3.2

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr		МТ	/yr	
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					ton	s/yr							МТ	/yr		
Mitigated	0.0000	0.0000	1.0000e- 005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e- 005	2.0000e- 005	0.0000	0.0000	3.0000e- 005
Unmitigated	0.0000	0.0000	1.0000e- 005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e- 005	2.0000e- 005	0.0000	0.0000	3.0000e- 005

6.2 Area by SubCategory

<u>Unmitigated</u>

	ROG	NOx	со	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							МТ	/yr		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e- 005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e- 005	2.0000e- 005	0.0000	0.0000	3.0000e- 005
Total	0.0000	0.0000	1.0000e- 005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e- 005	2.0000e- 005	0.0000	0.0000	3.0000e- 005

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory					ton	s/yr							МТ	7/yr		
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e- 005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e- 005	2.0000e- 005	0.0000	0.0000	3.0000e- 005
Total	0.0000	0.0000	1.0000e- 005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e- 005	2.0000e- 005	0.0000	0.0000	3.0000e- 005

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e					
Category	MT/yr								
Intigatoa	0.0000	0.0000	0.0000	0.0000					
oniningatou	0.0000	0.0000	0.0000	0.0000					

7.2 Water by Land Use

<u>Unmitigated</u>

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e		
Land Use	Mgal	MT/yr					
User Defined Industrial	0/0	0.0000	0.0000	0.0000	0.0000		
Total		0.0000	0.0000	0.0000	0.0000		

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7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e		
Land Use	Mgal	MT/yr					
User Defined Industrial	0/0	0.0000	0.0000	0.0000	0.0000		
Total		0.0000	0.0000	0.0000	0.0000		

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e					
	MT/yr								
iningenea	0.0000	0.0000	0.0000	0.0000					
Unmitigated	0.0000	0.0000	0.0000	0.0000					

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8.2 Waste by Land Use

<u>Unmitigated</u>

	Waste Disposed	Total CO2	CH4	N2O	CO2e			
Land Use	tons	MT/yr						
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000			
Total		0.0000	0.0000	0.0000	0.0000			

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e		
Land Use	tons	MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		
Total		0.0000	0.0000	0.0000	0.0000		

9.0 Operational Offroad

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number Hours,		Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	24	8760	47	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type

Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	ype tons/yr								MT/yr							
Generator - Diesel (25 - 50	0.3378	1.7616	1.3598	1.6200e- 003		0.1484	0.1484		0.1484	0.1484	0.0000	156.7818	156.7818	0.0220	0.0000	157.3314
Total	0.3378	1.7616	1.3598	1.6200e- 003		0.1484	0.1484		0.1484	0.1484	0.0000	156.7818	156.7818	0.0220	0.0000	157.3314

11.0 Vegetation

APPENDIX B Biological Resources Database Output

Table 1. Potential for Special Status Species–Plants

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
Aphanisma blitoides	aphanisma	-	-	1B.2	Coastal bluff scrub, coastal dunes, coastal scrub. On bluffs and slopes near the ocean in sandy or clay soils. Blooms February to June at elevations from 0- 1,000 feet.	No potential to occur; no suitable habitat (dunes) is present in the BSA.
Astragalus hornii var. hornii	Horn's milk-vetch	-	-	1B.1	Found in Lake margins, alkaline sites. Meadows and seeps, playas throughout California and Nevada. Blooms from May to October at elevations from 196-2,788 feet.	No potential to occur; no suitable habitat is present in the BSA.
Astragalus pycnostachyus var. lanosissimus	Ventura Marsh milk-vetch	FE	SE	1B.1	Marshes and swamps, coastal dunes, coastal scrub. Within reach of high tide or protected by barrier beaches, more rarely near seeps on sandy bluffs. Blooms from April to May at elevations ranging from 3-196 feet.	No potential to occur; no suitable habitat is present in the BSA.
Astragalus tener var. titi	coastal dunes milk-vetch	FE	SE	1B.1	Coastal bluff scrub, coastal dunes, coastal prairie. Moist, sandy depressions of bluffs or dunes along and near the Pacific Ocean; one site on a clay terrace. Blooms from March to May at elevations ranging from 0-165 feet.	-
Atriplex coulteri	Coulter's saltbush	-	-	1B.2	Coastal bluff scrub, coastal dunes, coastal scrub, valley, and foothill grassland. Ocean bluffs, ridgetops, as well as alkaline low places. Alkaline or clay soils. Blooms from March to October at elevations ranging from 5-1,550 feet.	No potential to occur; no suitable habitat is present in the BSA.
Atriplex pacifica	south coast saltscale	-	-	18.2	Coastal scrub, coastal bluff scrub, playas, and coastal dunes. Blooms from March to October at elevations ranging from 0-460 feet.	No potential to occur; no suitable habitat is present in the BSA.

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
Atriplex parishii	Parish's brittlescale	-	-	1B.1	Chenopod scrub, Playas, Vernal pools. Alkaline. Blooms from June to October at elevations ranging from 80-6,235 feet.	No potential to occur; no suitable habitat is present in the BSA.
Atriplex serenana var. davidsonii	Davidson's saltscale	-	-	18.2	Coastal bluff scrub, coastal scrub. Alkaline soil. Blooms from April to October at elevations ranging from 30- 655 feet.	No potential to occur; no suitable habitat is present in the BSA.
Centromadia parryi ssp. australis	southern tarplant	-	-	1B.1	Marshes and swamps (margins), valley and foothill grassland, vernal pools. Often in disturbed sites near the coast at marsh edges; also, in alkaline soils sometimes with saltgrass. Sometimes on vernal pool margins. Blooms from May to November at elevations ranging from 0-1,575 feet.	No potential to occur; no suitable habitat is present in the BSA.
Centromadia pungens ssp. laevis	smooth tarplant	-	-	1B.1	Valley and foothill grassland, chenopod scrub, meadows and seeps, playas, riparian woodland. Alkali meadow, alkali scrub and disturbed places. Blooms from April to September at elevations ranging from 0-2,100 feet.	No potential to occur; no suitable habitat is present in the BSA.
Chaenactis glabriuscula var. orcuttiana	Orcutt's pincushion	-	-	1B.1	Coastal bluff scrub, coastal dunes. Sandy sites. Blooms from January to August at elevations ranging from 0-330 feet.	No potential to occur; no suitable habitat is present in the BSA.
Chenopodium littoreum	coastal goosefoot	-	-	1B.2	Coastal dunes. Generally, on sandy soils, and on dunes. Blooms from April to August at elevations ranging from 30-100 feet.	No potential to occur; no suitable habitat is present in the BSA.
Chloropyron maritimum ssp. maritimum	salt marsh bird's-beak	FE	SE	1B.2	Marshes and swamps, coastal dunes. Limited to the higher zones of salt marsh habitat. Blooms from May to October at elevations ranging from 0-100 feet.	No potential to occur; no suitable habitat is present in the BSA.

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	-	SE	1B.1	Coastal scrub, valley, and foothill grassland. Blooms from April to July at elevations ranging from 490-4,005 feet.	No potential to occur; no suitable habitat is present in the BSA.
Crossosoma californicum	Catalina crossosoma	-	-	1B.2	Chaparral, coastal scrub. On rocky sea bluffs, wooded canyons, and dry, open sunny spots on rocky clay. Blooms from February to May at elevations ranging from 0-1,640 feet.	No potential to occur; no suitable habitat is present in the BSA.
Dithyrea maritima	beach spectaclepod	-	ST	1B.1	Coastal dunes, coastal scrub. Sea shores, on sand dunes, and sandy places near the shore. Blooms from March to May at elevations ranging from 5-165 feet.	No potential to occur; no suitable habitat is present in the BSA.
Dudleya multicaulis	many-stemmed dudleya	-	-	1B.2	Chaparral, Coastal scrub, Valley and foothill grassland. Often in clay soils. Blooms form April to July at elevations ranging from 45-2,590.	No potential to occur; no suitable habitat is present in the BSA.
Dudleya virens ssp. insularis	island green dudleya	-	-	1B.2	Coastal bluff scrub, coastal scrub. Rocky soils. Blooms form April to July at elevations ranging from 15-985.	No potential to occur; no suitable habitat is present in the BSA.
Eryngium aristulatum var. parishii	San Diego button-celery	FE	SE	18.1	Vernal pools, coastal scrub, valley and foothill grassland. San Diego mesa hardpan & claypan vernal pools & southern interior basalt flow vernal pools; usually surrounded by scrub. Blooms form April to June at elevations ranging from 65-2,035.	No potential to occur; no suitable habitat is present in the BSA.
Horkelia cuneata var. puberula	mesa horkelia	-	-	18.1	Chaparral, cismontane woodland, coastal scrub. Sandy or gravelly sites. Blooms form February to July at elevations ranging from 225-2,655.	No potential to occur; no suitable habitat is present in the BSA.

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
Isocoma menziesii var. decumbens	decumbent goldenbush	-	-	18.2	Coastal scrub, chaparral. Sandy soils; often in disturbed sites. Blooms form April to November at elevations ranging from 30-445 feet.	No potential to occur; no suitable habitat is present in the BSA.
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	-	-	1B.1	Coastal salt marshes, playas, vernal pools. Usually found on alkaline soils in playas, sinks, and grasslands. Blooms form February to June at elevations ranging from 0-4,005 feet.	No potential to occur; no suitable habitat is present in the BSA.
Navarretia fossalis	spreading navarretia	FT	-	1B.1	Vernal pools, chenopod scrub, marshes and swamps, playas. San Diego hardpan and San Diego claypan vernal pools; in swales & vernal pools, often surrounded by other habitat types. Blooms form April to June at elevations ranging from 95-2,150 feet.	No potential to occur; no suitable habitat is present in the BSA.
Navarretia prostrata	prostrate vernal pool navarretia	-	-	1B.2	Coastal scrub, valley and foothill grassland, vernal pools, meadows, and seeps. Alkaline soils in grassland, or in vernal pools. Mesic, alkaline sites. Blooms form April to July at elevations ranging from 5-3,970 feet.	No potential to occur; no suitable habitat is present in the BSA.
Nemacaulis denudata var. denudata	coast woolly-heads	-	-	1B.2	Coastal dunes. Blooms from April to September. Found in elevation from 100- 330 feet.	No potential to occur; no suitable habitat is present in the BSA.
Orcuttia californica	California Orcutt grass	FE	SE	1B.1	Vernal pools. Blooms form April to August at elevations ranging from 45- 2,165 feet.	No potential to occur; no suitable habitat is present in the BSA.
Pentachaeta lyonii	Lyon's pentachaeta	FE	SE	1B.1	Chaparral, valley and foothill grassland, coastal scrub. Edges of clearings in chaparral, usually at the ecotone between grassland and chaparral or	No potential to occur; no suitable habitat is present in the BSA.

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
					edges of firebreaks. Blooms form March to August at elevations ranging from 95- 2,265 feet.	
Phacelia stellaris	Brand's star phacelia	-	-	1B.1	Coastal scrub, coastal dunes. Open areas. Blooms form March to June at elevations ranging from 0-1,310 feet.	No potential to occur; no suitable habitat is present in the BSA.
Potentilla multijuga	Ballona cinquefoil	-	-	1A	Meadows and seeps (brackish). Blooms from June to August. Found in elevation from 2-5 feet.	No potential to occur; no suitable habitat is present in the BSA.
Suaeda esteroa	estuary seablite	-	-	1B.2	Marshes and swamps. Coastal salt marshes in clay, silt, and sand substrates. Blooms form May to October at elevations ranging from 0-15 feet.	No potential to occur; no suitable habitat is present in the BSA.
Symphyotrichum defoliatum	San Bernardino aster	-	-	1B.2	Meadows and seeps, cismontane woodland, coastal scrub, lower montane coniferous forest, marshes and swamps, valley and foothill grassland. Vernally mesic grassland or near ditches, streams and springs; disturbed areas. Blooms form July to November at elevations ranging from 5-6,695 feet.	No potential to occur; no suitable habitat is present in the BSA.

Table 2. Potential for Special Status Species-Invertebrates

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
Bombus crotchii	Crotch bumble bee	-	SC		Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum. Coastal California east to the Sierra-Cascade crest	No potential to occur; there is a CNDDB occurrence within a mile of the BSA, however there is no suitable native habitat in or near the BSA.

Species Scientific Name Euphilotes battoides allyni	Species Common Name El Segundo blue butterfly	Status ¹ Federal FE	Status ¹ State -	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution Restricted to remnant coastal dune habitat in Southern California.	Potential for Occurrence ² No potential to occur; there is no suitable dune habitat in or near the
					Host plant is <i>Eriogonum parvifolium;</i> larvae feed only on the flowers and seeds; used by adults as major nectar source.	BSA.
Glaucopsyche lygdamus palosverdesensis	Palos Verdes blue butterfly	FE	-	-	Restricted to the cool, fog-shrouded, seaward side of Palos Verdes Hills, Los Angeles County. Host plant is <i>Astragalus</i> <i>trichopodus</i> var. <i>lonchus</i> (locoweed).	No potential to occur; a CNDDB record of the species occurs within the BSA. However, the occurrence information (GPS) is suppressed but states the species was observed on coastal sage scrub habitat which is not present in the project area. There is a large parcel of undeveloped land (965 feet away) to the southeast of the project area that from aerial imagery indicates coastal sage scrub could be found here, however it is located outside the 500-foot buffer of the BSA.
Streptocephalus woottoni	Riverside fairy shrimp	FE	-	-	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub. Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	No potential to occur; there is no suitable vernal habitat in or near the BSA.

Table 3. Potential for Special Status Species–Fish

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
Siphateles bicolor mohavensis	Mohave tui chub	FE	SE		adapted to alkaline, mineralized waters. Needs deep pools, ponds, or slough-like areas. Needs vegetation for spawning.	No potential to occur; the study area is outside the species' known range and there is no suitable aquatic habitat (reservoirs or small lakes) present in the BSA.

Table 4. Potential for Special Status Species–Amphibians and Reptiles

Species	Species	Status ¹	Status ¹	Status ¹ CDFW ³ or		
Scientific Name	Common Name	Federal	State	CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
Anniella stebbinsi	Southern California legless lizard	_	-	SSC	Generally, south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County. Variety of habitats; generally, in moist, loose soil. They prefer soils with a high moisture content.	area is composed of developed
Emys marmorata	western pond turtle	_	-	SSC	Closely associated with permanent or nearly permanent water in a variety of aquatic habitats. For foraging, ponds, marshes, slow-moving streams, sloughs, and irrigation/drainage ditches; for nesting, soils in nearby uplands with low, sparse vegetation. Basking sites are required for thermoregulation, such as partially submerged logs, rocks, mats of floating vegetation, or open mud banks. Hibernation may occur in aquatic habitats or in burrows of adjacent uplands, often with duff. Throughout California west of	No potential to occur; the study area is composed of developed industrial land or disturbed gravel lots. There is a small pond, known as the decommissioned Heil Separator, on the northeast side of the study area, however no suitable habitat for western pond turtle is present here.

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution the Sierra-Cascade crest and absent from desert regions, except in the Mojave Desert along the Mojave River and its tributaries. Elevation range extends from near sea level to 4,690 ft.	Potential for Occurrence ²
Phrynosoma blainvillii	coast horned lizard	-	-	SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	No potential to occur; a 1989 CNDDB record of the species occurs within one mile of the BSA in El Nido Park however no suitable habitat for the species occurs within the BSA.
Spea hammondii	western spadefoot toad	-	-	SSC	Occurs primarily in grassland habitats but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying. Found throughout the Central Valley, adjacent foothills, and in the Coast Ranges.	aquatic breeding habitat (vernal

Table 5. Potential for Special Status Species–Birds

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
Agelaius tricolor	tricolored blackbird	-	ST	SSC	Individuals forage in agricultural lands and grasslands, and nest in marshes, riparian scrub, and other areas that support cattails or dense thickets of shrubs or herbs. Breeding range includes the Central Valley and other lowland areas of California west of the Cascade– Sierra Nevada axis.	No potential to occur; there is no suitable nesting habitat (e.g., emergent marsh, riparian, or blackberry/thistle thickets) present in or within 500 feet of the BSA. The two nearby records of the species are historic records dating back to 1940 and the 1980s.
Athene cunicularia	burrowing owl	-	-	SSC	For nesting and foraging requires grasslands, agricultural fields, and low	No potential to occur; no suitable habitat is present in the BSA.

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution scrub habitats, especially where ground squirrel burrows are present; occasionally inhabit artificial structures and small patches of disturbed habitat. Broadly distributed in western North America; year-round resident throughout much of California.	Potential for Occurrence ²
Charadrius nivosus nivosus	western snowy plover	FT	-	SSC	Sandy beaches, salt pond levees & shores of large alkali lakes. Needs sandy, gravelly or friable soils for nesting.	-
Coccyzus americanus occidentalis	western yellow-billed cuckoo	FT	SE	-	Nests in large blocks of deciduous riparian thickets or forests with dense, low-level or understory foliage adjacent to slow-moving watercourses, backwaters along broad, lower floodplains of larger river systems. Willow and cottonwood are almost always a component of the vegetation. In the Sacramento Valley, also utilizes adjacent walnut orchards. In California, the western yellow-billed cuckoo's breeding distribution is restricted to isolated sites in the Sacramento, Amargosa, Kern, Santa Ana, and Colorado River Valleys.	No potential to occur; there is no suitable riparian habitat in or near the BSA.
Coturnicops noveboracensis	yellow rail	-	-	SSC	Summer resident in eastern Sierra Nevada in Mono County. Freshwater marshlands.	No potential to occur; no suitable habitat is present in the BSA.
Laterallus jamaicensis coturniculus	California black rail	-	ST	FP	Freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. Needs water depths of about 1 inch that do not fluctuate during the year and dense	No potential to occur; no suitable habitat (marsh) present in the BSA.

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
					vegetation for nesting habitat. Range includes the San Francisco Bay area, Sacramento-San Joaquin Delta, coastal southern California at Morro Bay and a few other locations, the Salton Sea, and lower Colorado River area.	
Passerculus sandwichensis beldingi	Belding's savannah sparrow	-	SE		Inhabits coastal salt marshes, from Santa Barbara south through San Diego County. Nests in Salicornia on and about margins of tidal flats.	No potential to occur; no suitable habitat is present in the BSA.
Pelecanus occidentalis californicus	California brown pelican	DL	DL	FP	Colonial nester on coastal islands just outside the surf line. Nests on coastal islands of small to moderate size which afford immunity from attack by ground- dwelling predators. Roosts communally.	No potential to occur; no suitable habitat is present in the BSA.
Polioptila californica californica	coastal California gnatcatcher	FT	-	SSC	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California. Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	No potential to occur; no suitable habitat is present in the BSA. The species occurs in coastal sage scrub habitat along the Palos Verdes Peninsula.
<i>Riparia riparia</i> (nesting)	bank swallow	-	ST	-	Nests in colonies in unvegetated vertical banks or cliffs with fine-textured, sandy soils, typically next to streams, rivers, or lakes, but also can be found in gravel pits and highway cuts.	No potential to occur; no suitable ocean bluff/banks or cliff habitat is present in the BSA.
Sternula antillarum browni	California least tern	FE	SE	FP	Nests along the coast from San Francisco Bay south to northern Baja California. Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, landfills, or paved areas.	No potential to occur; no suitable habitat is present in the BSA.

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
<i>Vireo bellii pusillus</i> (nesting)	least Bell's vireo	FE	SE	-		No potential to occur; no suitable habitat (riparian) present in the BSA.

Table 6. Potential for Special Status Species-Mammals

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
Eumops perotis californicus	western mastiff bat	-	-	SSC, WBWG-H	Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, and chapparal. Roosts in crevices in cliff faces, high buildings, trees, and tunnels.	No potential to occur; no suitable habitat is present in the BSA.
Lasionycteris noctivagans	silver-haired bat	-	-	WBWG- M	Primarily a coastal and montane forest dweller, feeding over streams, ponds & open brushy areas. Roosts in hollow trees, beneath exfoliating bark, abandoned woodpecker holes, and rarely under rocks. Needs drinking water.	No potential to occur; no suitable habitat is present in the BSA.
Microtus californicus stephensi	south coast marsh vole	-	-	SSC	Found in tidal marshes in Los Angeles, Orange and southern Ventura counties.	No potential to occur; no suitable habitat is present in the BSA.
Neotoma lepida intermedia	San Diego desert woodrat	-	-	SSC	Found in coastal scrub of Southern California from San Diego County to San Luis Obispo County. Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	No potential to occur; no suitable habitat is present in the BSA.

Species Scientific Name	Species Common Name	Status ¹ Federal	Status ¹ State	Status ¹ CDFW ³ or CRPR ⁴	Habitat & Distribution	Potential for Occurrence ²
Nyctinomops femorosaccus	pocketed free-tailed bat	-	-	SSC, WBWG- M	Found in variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc. Rocky areas with high cliffs.	No potential to occur; no suitable habitat is present in the BSA.
Nyctinomops macrotis	big free-tailed bat	-	-	SSC, WBWG- M	Found in low-lying arid areas in Southern California. Need high cliffs or rocky outcrops for roosting sites. Feeds principally on large moths.	No potential to occur; no suitable habitat is present in the BSA.
Perognathus Iongimembris pacificus	Pacific pocket mouse	FE	-	SSC	Inhabits the narrow coastal plains from the Mexican border north to El Segundo, Los Angeles County. Seems to prefer soils of fine alluvial sands near the ocean, but much remains to be learned.	No potential to occur; no suitable habitat is present in the BSA.
Sorex ornatus salicornicus	southern California saltmarsh shrew	-	-	SSC	Found in coastal marshes in Los Angeles, Orange and Ventura counties. Requires dense vegetation and woody debris for cover.	No potential to occur; no suitable habitat is present in the BSA.
Taxidea taxus	American badger	-	-	SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs enough food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows. Uncommon, permanent resident found throughout most of the state.	No potential to occur; no suitable habitat is present in the BSA.

Notes:

Quad Search: Torrance, Venice, Inglewood, S Gate, Long Beach, Long Beach OE S, San Pedro, Redondo Bch OES, Redondo Beach (USGS 2018a-i).

¹Listing Status (CDFW 2021b): Federal Endangered Species Act: FE = endangered FT = threatened FC = candidate

FD = delisted

– = no status

State Endangered Species Act:

SE = endangered

- SCE = candidate endangered
- ST = threatened
- SCT = candidate threatened
- SD = delisted

SR = rare

– = no status

² California Department of Fish and Wildlife (CDFW):

- SSC = species of special concern
- FP = fully protected
- WL = watch listed

– = no status

³California Rare Plant Rank (CRPR) (CNPS 2021b):

1A: Plants presumed extirpated in California and either rare or extinct elsewhere.

1B: Plants rare, threatened, or endangered in California and elsewhere

2A: Plants presumed extirpated in California but common elsewhere.

2B: Plants rare, threatened, or endangered in California but more common elsewhere

In addition, ranks at each level also include a threat rank and are determined as follows:

0.1-Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)

0.2-Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)

0.3-Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

⁴ Potential for Occurrence:

No Potential to Occur: The study area is outside the species' range or suitable habitat for the species is absent from the study area and adjacent areas.

Not Likely to Occur: Habitat for the species is marginal, and no occurrences of the species have been recorded within three miles of the study area.

Could Occur: The study area is within the species' range, suitable habitat for the species is present, and recorded occurrences of the species are generally present in the vicinity.

Known to Occur: The study area is within the species' range, suitable habitat for the species is present, and the species has been recorded from within the project site.

⁵ Western Bat Working Group (WBWG): The WBWG is composed of agencies, organizations, and individuals interested in bat research, management, and conservation from 13 western states and provinces. Species are ranked as High, Medium, or Low Priority in each of 10 regions in western North America. The CNDDB tracks bat species that are at least Low-Medium Priority in California (CDFW 2021b).

Sources: CNPS 2021a and 2021b; CDFW 2021a and 2021b; and USFWS 2021a. Compiled by AECOM in March of 2021.





California Natural Diversity Database

Query Criteria: Quad IS (Torrance (3311873) OR Venice (3311884) OR Inglewood (3311883) OR South Gate (3311882) OR Long Beach (3311872) OR San Pedro (3311863) OR Redondo Beach (3311874))

Spea hammone	dii				Element Code: AAAE	3F02020
western spadefor	ot					
Listing Status:	Federal:	None		CNDDB Element Ranl	ks: Global: G2G3	
	State:	None			State: S3	
	Other:	BLM_S-Sensitive, CDFW_	SSC-Species of S	Special Concern, IUCN_NT-Near	Threatened	
Habitat:	General:	OCCURS PRIMARILY IN OWOODLANDS.	GRASSLAND HA	BITATS, BUT CAN BE FOUND I	N VALLEY-FOOTHILL HARD	WOOD
	Micro:	VERNAL POOLS ARE ES	SENTIAL FOR B	REEDING AND EGG-LAYING.		
Occurrence No.	1046	Map Index: B3948	EO Index:	116862	Element Last Seen:	1966-04-25
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1966-04-25
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2019-09-16
Quad Summary:	Torrance	(3311873), Redondo Beach (3311874)			
County Summary:	Los Angel	es				
Lat/Long:	33.84837	/ -118.37753		Accuracy:	1/5 mile	
UTM:	Zone-11 N	N3746197 E372558		Elevation (ft):	145	
PLSS:	T04S, R14	4W, Sec. 8, NW (S)		Acres:	70.0	
		4W, Sec. 8, NW (S) PECT AVE AT DEL ALMO BL	VD INTERSECTI		70.0	
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Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	N PROSP GIVEN LC ELECTRIC TORRANG AREA HA 1 COLLEG UNKNOW 1047 None Natural/Na	CECT AVE AT DEL ALMO BL' DCATION: REDONDO BEACI C RAILWAY WHICH INTERS CE USGS TOPO. S BEEN COMPLETELY URE CTED ON 25 APR 1966. /N Map Index: B3949	H (PROSPECT A ECTED PROSPE BANIZED FROM ⁻ BO Index: Presence:	ON, REDONDO BEACH. ND P.E. ROAD BED). P. E. MOS ECT AVE AT PRESENT DAY DE TIME OF COLLECTION, LIKELY 116863 Possibly Extirpated	ST LIKELY ABBREVIATION F L AMO BLVD; REFERENCE EXTIRPATED. Element Last Seen: Site Last Seen:	1924 1958-04-15 1958-04-15
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	N PROSP GIVEN LC ELECTRIC TORRANG AREA HA 1 COLLEG UNKNOW 1047 None Natural/Na	PECT AVE AT DEL ALMO BL' DECATION: REDONDO BEAC C RAILWAY WHICH INTERS CE USGS TOPO. S BEEN COMPLETELY URE CTED ON 25 APR 1966. /N Map Index: B3949 ative occurrence	H (PROSPECT A ECTED PROSPE BANIZED FROM ⁻ BO Index: Presence:	ON, REDONDO BEACH. ND P.E. ROAD BED). P. E. MOS ECT AVE AT PRESENT DAY DE TIME OF COLLECTION, LIKELY 116863 Possibly Extirpated	ST LIKELY ABBREVIATION F L AMO BLVD; REFERENCE EXTIRPATED. Element Last Seen: Site Last Seen:	1924 1958-04-15 1958-04-15
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	N PROSP GIVEN LC ELECTRIC TORRANG AREA HA 1 COLLEG UNKNOW 1047 None Natural/Na Inglewood Los Angel	PECT AVE AT DEL ALMO BL' DECATION: REDONDO BEAC C RAILWAY WHICH INTERS CE USGS TOPO. S BEEN COMPLETELY URE CTED ON 25 APR 1966. /N Map Index: B3949 ative occurrence	H (PROSPECT A ECTED PROSPE BANIZED FROM ⁻ BO Index: Presence:	ON, REDONDO BEACH. ND P.E. ROAD BED). P. E. MOS ECT AVE AT PRESENT DAY DE TIME OF COLLECTION, LIKELY 116863 Possibly Extirpated	ST LIKELY ABBREVIATION F L AMO BLVD; REFERENCE EXTIRPATED. Element Last Seen: Site Last Seen:	1924 1958-04-15 1958-04-15
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	N PROSP GIVEN LC ELECTRI TORRANG AREA HA 1 COLLEG UNKNOW 1047 None Natural/Na Inglewood Los Angel 33.91872	PECT AVE AT DEL ALMO BL' DCATION: REDONDO BEAC C RAILWAY WHICH INTERS CE USGS TOPO. S BEEN COMPLETELY URE CTED ON 25 APR 1966. /N Map Index: B3949 ative occurrence	H (PROSPECT A ECTED PROSPE BANIZED FROM ⁻ BO Index: Presence:	ON, REDONDO BEACH. ND P.E. ROAD BED). P. E. MOS ECT AVE AT PRESENT DAY DE TIME OF COLLECTION, LIKELY 116863 Possibly Extirpated Unknown	ST LIKELY ABBREVIATION F L AMO BLVD; REFERENCE EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated:	1924 1958-04-15 1958-04-15
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	N PROSP GIVEN LC ELECTRIC TORRANG AREA HA 1 COLLEG UNKNOW 1047 None Natural/Na Inglewood Los Angel 33.91872 Zone-11 N	PECT AVE AT DEL ALMO BL' DECATION: REDONDO BEAC C RAILWAY WHICH INTERS CE USGS TOPO. S BEEN COMPLETELY URE CTED ON 25 APR 1966. //N Map Index: B3949 ative occurrence d (3311883) les / -118.35075	H (PROSPECT A ECTED PROSPE BANIZED FROM ⁻ BO Index: Presence:	ON, REDONDO BEACH. ND P.E. ROAD BED). P. E. MOS ECT AVE AT PRESENT DAY DE TIME OF COLLECTION, LIKELY 116863 Possibly Extirpated Unknown	ST LIKELY ABBREVIATION F L AMO BLVD; REFERENCE EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	1924 1958-04-15 1958-04-15
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	N PROSP GIVEN LC ELECTRIC TORRANG AREA HA 1 COLLEG UNKNOW 1047 None Natural/Na Inglewood Los Angel 33.91872 Zone-11 N T03S, R14	PECT AVE AT DEL ALMO BL' DECT AVE AT DEL ALMO BL' DECATION: REDONDO BEAC C RAILWAY WHICH INTERS CE USGS TOPO. S BEEN COMPLETELY URE CTED ON 25 APR 1966. /N Map Index: B3949 ative occurrence (3311883) les / -118.35075 J3753965 E375138	H (PROSPECT A ECTED PROSPE BANIZED FROM ⁻ BO Index: Presence:	ON, REDONDO BEACH. ND P.E. ROAD BED). P. E. MOS ECT AVE AT PRESENT DAY DE TIME OF COLLECTION, LIKELY 116863 Possibly Extirpated Unknown Accuracy: Elevation (ft):	ST LIKELY ABBREVIATION F L AMO BLVD; REFERENCE EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 72	1924 1958-04-15 1958-04-15
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	N PROSP GIVEN LC ELECTRIC TORRANG AREA HA 1 COLLEG UNKNOW 1047 None Natural/Na Inglewood Los Angel 33.91872 Zone-11 N T03S, R14	PECT AVE AT DEL ALMO BL' DECT AVE AT DEL ALMO BL' DECATION: REDONDO BEACI C RAILWAY WHICH INTERS CE USGS TOPO. S BEEN COMPLETELY URE CTED ON 25 APR 1966. (N Map Index: B3949 ative occurrence (3311883) les / -118.35075 N3753965 E375138 4W, Sec. 9 (S) OF HAWTHORNE	H (PROSPECT A ECTED PROSPE BANIZED FROM ⁻ EO Index: Presence: Trend:	ON, REDONDO BEACH. ND P.E. ROAD BED). P. E. MOS ECT AVE AT PRESENT DAY DE TIME OF COLLECTION, LIKELY 116863 Possibly Extirpated Unknown Accuracy: Elevation (ft):	ST LIKELY ABBREVIATION F L AMO BLVD; REFERENCE EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 72 1987.0	1924 1958-04-15 1958-04-15
Location: Detailed Location: Ecological:	N PROSP GIVEN LC ELECTRIC TORRANG AREA HA 1 COLLEG UNKNOW 1047 None Natural/Na Inglewood Los Angel 33.91872 Zone-11 N T03S, R14 VICINITY GIVEN LC THIS ARE	PECT AVE AT DEL ALMO BL' DCATION: REDONDO BEAC C RAILWAY WHICH INTERS CE USGS TOPO. S BEEN COMPLETELY URE CTED ON 25 APR 1966. /N Map Index: B3949 ative occurrence 4 (3311883) les / -118.35075 V3753965 E375138 4W, Sec. 9 (S) OF HAWTHORNE DCALITY: "HAWTHORN," MA	H (PROSPECT A ECTED PROSPE BANIZED FROM ⁻ BANIZED FROM ⁻ EO Index: Presence: Trend: VPPED TO THE V WELL DEVELOP	ON, REDONDO BEACH. IND P.E. ROAD BED). P. E. MOS ECT AVE AT PRESENT DAY DE TIME OF COLLECTION, LIKELY 116863 Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	ST LIKELY ABBREVIATION F L AMO BLVD; REFERENCE EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 72 1987.0 ACT LOCATION UNKNOWN.	1924 1958-04-15 1958-04-15 2019-09-16
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	N PROSP GIVEN LC ELECTRI TORRANG AREA HA 1 COLLEG UNKNOW 1047 None Natural/Na Inglewood Los Angel 33.91872 Zone-11 N T03S, R14 VICINITY GIVEN LC THIS ARE BEEN CO	PECT AVE AT DEL ALMO BL' DCATION: REDONDO BEAC C RAILWAY WHICH INTERS CE USGS TOPO. S BEEN COMPLETELY URE CTED ON 25 APR 1966. /N Map Index: B3949 ative occurrence 4 (3311883) les / -118.35075 V3753965 E375138 4W, Sec. 9 (S) OF HAWTHORNE DCALITY: "HAWTHORN," MA	H (PROSPECT A ECTED PROSPE BANIZED FROM ⁻ BANIZED FROM ⁻ EO Index: Presence: Trend: WELL DEVELOP OMPLETELY UR	ON, REDONDO BEACH. ND P.E. ROAD BED). P. E. MOS ECT AVE AT PRESENT DAY DE TIME OF COLLECTION, LIKELY 116863 Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: //ICINITY OF HAWTHORNE; EXA PED SINCE THE LATE 1940S. IT	ST LIKELY ABBREVIATION F L AMO BLVD; REFERENCE EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 72 1987.0 ACT LOCATION UNKNOWN.	1924 1958-04-15 1958-04-15 2019-09-16



California Department of Fish and Wildlife



VERSIT							
Occurrence No.	1048	Map Index: B3951	EO Index:	116865		Element Last Seen:	1938-02-03
Dcc. Rank:	None		Presence:	Possibly Ext	irpated	Site Last Seen:	1938-02-03
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	2019-09-16
Quad Summary:	Inglewood (3	3311883)					
County Summary:	Los Angeles	3					
_at/Long:	33.94543 / -				Accuracy:	1/5 mile	
JTM:	Zone-11 N3 [·]	756877 E379029			Elevation (ft):	239	
PLSS:	T03S, R14W	V, Sec. 2, NE (S)			Acres:	70.0	
ocation:	CENTURY E	BLVD AND WESTERN AVE		N. WESTMON	T. SOUTH LOS AN	NGELES.	
Detailed Location:	02			.,	.,		
Ecological:		BEEN COMPLETELY URB ED FROM THE VICINITY.	ANIZED SINCE	TIME OF COL	LECTION (SEE 19	38 AERIAL); SPECIES LIKEL	Y
General:	1 COLLECT	ED ON 3 FEB 1938.					
Owner/Manager:	UNKNOWN						
Occurrence No.	1049	Map Index: B3953	EO Index:	116866		Element Last Seen:	1956-05-02
Dcc. Rank:	None		Presence:	Possibly Exti	irpated	Site Last Seen:	1956-05-02
Dcc. Type:		ve occurrence	Trend:	Unknown	npatoa	Record Last Updated:	2019-09-16
		s (3311871), Whittier (3311)					
Quad Summary: County Summary:	Los Angeles		561), South Gale	(3311002)			
_at/Long:	33.88792 / -				Accuracy:	1 mile	
JTM:		750290 E396745			Elevation (ft):	76	
PLSS:	103S, R12W	V, Sec. 27 (S)			Acres:	1987.0	
ocation:	VICINITY OF	F BELLFLOWER					
Detailed Location:							
Ecological:		VILY DEVELOPED, SPECIE	ES LIKELY EXTI	RPATED FRO	M VICINITY.		
General:		ED ON 2 MAY 1956.					
		ED ON 2 MAY 1956.					
Owner/Manager:	1 COLLECT	ED ON 2 MAY 1956.	EO Index:	116931		Element Last Seen:	19XX-XX-X>
Dwner/Manager: Dccurrence No.	1 COLLECT UNKNOWN	ED ON 2 MAY 1956.	EO Index: Presence:	116931 Extirpated		Element Last Seen: Site Last Seen:	
Owner/Manager: Occurrence No. Occ. Rank:	1 COLLECT UNKNOWN 1082 None	ED ON 2 MAY 1956.					19XX-XX-XX 19XX-XX-XX 2019-10-22
Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type:	1 COLLECT UNKNOWN 1082 None	ED ON 2 MAY 1956. Map Index: B4015 ve occurrence	Presence:	Extirpated		Site Last Seen:	19XX-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	1 COLLECT UNKNOWN 1082 None Natural/Nativ	TED ON 2 MAY 1956. Map Index: B4015 ve occurrence 311873)	Presence:	Extirpated		Site Last Seen:	19XX-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	1 COLLECT UNKNOWN 1082 None Natural/Nativ Torrance (33	TED ON 2 MAY 1956. Map Index: B4015 ve occurrence 311873) s	Presence:	Extirpated	Accuracy:	Site Last Seen:	19XX-XX-XX
Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long:	1 COLLECT UNKNOWN 1082 None Natural/Nativ Torrance (33 Los Angeles 33.82188 /	TED ON 2 MAY 1956. Map Index: B4015 ve occurrence 311873) s	Presence:	Extirpated	Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated:	19XX-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	1 COLLECT UNKNOWN 1082 None Natural/Nation Torrance (33 Los Angeles 33.82188 / - Zone-11 N3	TED ON 2 MAY 1956. Map Index: B4015 ve occurrence 311873) s -118.29037	Presence:	Extirpated	•	Site Last Seen: Record Last Updated: 2/5 mile	19XX-XX-X
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: JTM: PLSS:	1 COLLECT UNKNOWN 1082 None Natural/Nativ Torrance (33 Los Angeles 33.82188 / - Zone-11 N3 T04S, R13W	ED ON 2 MAY 1956. Map Index: B4015 ve occurrence 311873) 5 -118.29037 743156 E380585 V, Sec. 18, SW (S)	Presence: Trend:	Extirpated Unknown	Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 2/5 mile 42 280.0	19XX-XX-X
Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long: JTM:	1 COLLECT UNKNOWN 1082 None Natural/Nation Torrance (33 Los Angeles 33.82188 / - Zone-11 N3 T04S, R13W VERMONT / GIVEN LOC ALONG VER	ED ON 2 MAY 1956. Map Index: B4015 ve occurrence 311873) 5 118.29037 743156 E380585 V, Sec. 18, SW (S) AVE, SOUTH OF ITS INTE CATION: "GARDENA, 226TH	Presence: Trend: RSECTION WITH H ST AND VERM	Extirpated Unknown H W 223RD ST	Elevation (ft): Acres: T AND NORTH OF HESE ROAD DO N	Site Last Seen: Record Last Updated: 2/5 mile 42	19XX-XX-XX 2019-10-22
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: County Summary: Lat/Long: JTM: PLSS: Location: Detailed Location:	1 COLLECT UNKNOWN 1082 None Natural/Natin Torrance (33 Los Angeles 33.82188 / - Zone-11 N3 T04S, R13W VERMONT / GIVEN LOC ALONG VER LIMIT.	ED ON 2 MAY 1956. Map Index: B4015 ve occurrence 311873) 5 118.29037 743156 E380585 V, Sec. 18, SW (S) AVE, SOUTH OF ITS INTE CATION: "GARDENA, 226TH	Presence: Trend: RSECTION WITH H ST AND VERM 23RD ST AND 22	Extirpated Unknown H W 223RD ST IONT AVE." TH 8TH ST, LOCA	Elevation (ft): Acres: T AND NORTH OF HESE ROAD DO N ATED ABOUT 2 M	Site Last Seen: Record Last Updated: 2/5 mile 42 280.0 W 228TH ST, TORRANCE. IOT CURRENTLY INTERSEC ILES SOUTH OF THE GARD	19XX-XX-XX 2019-10-22
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: JTM: PLSS: Location:	1 COLLECT UNKNOWN 1082 None Natural/Nativ Torrance (33 Los Angeles 33.82188 / -: Zone-11 N3 T04S, R13W VERMONT / GIVEN LOC ALONG VEF LIMIT. AREA HAS I	Map Index: B4015 We occurrence 311873) 5 -118.29037 -743156 E380585 V, Sec. 18, SW (S) AVE, SOUTH OF ITS INTE CATION: "GARDENA, 226TH RMONT AVE BETWEEN 22	Presence: Trend: RSECTION WITH H ST AND VERM 23RD ST AND 22 PED SINCE TIME	Extirpated Unknown H W 223RD ST ONT AVE." TH 8TH ST, LOC/ OF COLLECT	Elevation (ft): Acres: T AND NORTH OF HESE ROAD DO N ATED ABOUT 2 M	Site Last Seen: Record Last Updated: 2/5 mile 42 280.0 T W 228TH ST, TORRANCE. NOT CURRENTLY INTERSECTILES SOUTH OF THE GARD SUMED EXTIRPATED.	19XX-XX-X 2019-10-22



California Department of Fish and Wildlife



Occurrence No.	1083	Map Index: B4016	EO Index:	116932	Element Last Seen:	1959-03-XX
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1959-03-XX
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown	Record Last Updated:	2019-10-22
Quad Summary:	San Pedro	(3311863), Torrance (33118	73), Redondo Be	each (3311874)		
County Summary:	Los Angele	es				
Lat/Long:	33.75948 /	-118.36297		Accuracy	y: 1 mile	
UTM:	Zone-11 N	3736322 E373775		Elevation	n (ft): 1190	
PLSS:	T05S, R14	W, Sec. 9 (S)		Acres:	1987.0	
Location:	VICINITY	OF PALOS VERDES HILLS.				
Detailed Location:	GIVEN LO	CATION, "PALOS VERDES H	HILLS," EXACT	LOCATION UNKNOWN.		
Ecological:						
General:	1 COLLEC	CTED IN MAR 1959.				
Owner/Manager:	UNKNOWI	N				





Pelecanus occ		alitornicus			Element Code: ABN	IFC01021
Listing Status:		Delisted		CNDDB Element Ran	ks: Global: G4T3T4	
Listing Status.	State:	Delisted		CNDDB Element Ran	State: S3	
	Other:	BLM_S-Sensitive, CDFW_F	D Fully Drotooto	d LICES S Sonaitivo	State. 33	
Habitat:	General:		•	DS JUST OUTSIDE THE SURF		
	Micro:			L TO MODERATE SIZE WHICH		ΔΤΤΔΟΚ ΒΥ
	Micro.	GROUND-DWELLING PRE				
Occurrence No.	14	Map Index: 63544	EO Index:	63649	Element Last Seen:	2000-XX-X
Occ. Rank:	Excellent		Presence:	Presumed Extant	Site Last Seen:	2000-XX-XX
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown	Record Last Updated:	2005-12-29
Quad Summary:	Long Beac	ch (3311872)				
County Summary:	Los Angele	es				
Lat/Long:	33.72344 /	′ -118.19059		Accuracy:	specific area	
UTM:	Zone-11 N	3732128 E389693		Elevation (ft):	0	
PLSS:	T99X R99	X, Sec. UN (X)		Acres:	397.7	
200.	100/0,100	, , , ,				
		AND MIDDLE LONG BEACH	I HARBOR BRE	AKWATERS.		
Location:	EASTERN	AND MIDDLE LONG BEACH	-	AKWATERS. LA 2.0 (MIDDLE BREAKWATER	R).	
Location: Detailed Location:	EASTERN ROOST N	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK	(WATER) AND	-	,	/INTER SURF
Location: Detailed Location: Ecological:	EASTERN ROOST N COMBINE DAY & NIC COUNTED	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK D BREAKWATERS ARE 9.4 K GHT ROOST. THIS IS LARGE	WATER) AND M IN LENGTH ST & HIGHEST MARY OF 198	LA 2.0 (MIDDLE BREAKWATER	/ HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5	584 BIRDS
Location: Detailed Location: Ecological: General:	EASTERN ROOST N COMBINE DAY & NIC COUNTED 53-690 BIF	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAF D BREAKWATERS ARE 9.4 F GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUM	WATER) AND M IN LENGTH ST & HIGHEST MARY OF 198	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE	/ HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5	584 BIRDS
Location: Detailed Location: Ecological: General: Owner/Manager:	EASTERN ROOST N COMBINE DAY & NIC COUNTED 53-690 BIF	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAH D BREAKWATERS ARE 9.4 H GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUM RDS (EAST) BREAKWATERS	WATER) AND M IN LENGTH ST & HIGHEST MARY OF 198	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE	/ HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5	584 BIRDS
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	EASTERN ROOST N COMBINE DAY & NIC COUNTEL 53-690 BIF LONG BE/	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAF D BREAKWATERS ARE 9.4 F GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE	(WATER) AND (M IN LENGTH ST & HIGHEST MMARY OF 198 5.	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU	/HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5 RNAL COUNTS: 31-650 BIR	584 BIRDS DS (MIDDLE) 2000-07-09
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	EASTERN ROOST N COMBINE DAY & NIC COUNTEL 53-690 BIF LONG BE/ 16 Excellent	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAF D BREAKWATERS ARE 9.4 F GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE	WATER) AND MIN LENGTH ST & HIGHEST MARY OF 198 C	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU 63663	HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5 RNAL COUNTS: 31-650 BIR Element Last Seen:	584 BIRDS DS (MIDDLE) 2000-07-09 2000-07-09
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	EASTERN ROOST NI COMBINE DAY & NIC COUNTED 53-690 BIF LONG BE/ 16 Excellent Natural/Na	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK D BREAKWATERS ARE 9.4 K GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE Map Index: 63568	(WATER) AND (M IN LENGTH (MARY OF 198). EO Index: Presence:	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU 63663 Presumed Extant	HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5 RNAL COUNTS: 31-650 BIR Element Last Seen: Site Last Seen:	584 BIRDS DS (MIDDLE) 2000-07-09 2000-07-09
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	EASTERN ROOST N COMBINE DAY & NIC COUNTEL 53-690 BIF LONG BE/ 16 Excellent	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK D BREAKWATERS ARE 9.4 K BHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE Map Index: 63568 tive occurrence	(WATER) AND (M IN LENGTH (MARY OF 198). EO Index: Presence:	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU 63663 Presumed Extant	HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5 RNAL COUNTS: 31-650 BIR Element Last Seen: Site Last Seen:	584 BIRDS DS (MIDDLE) 2000-07-09 2000-07-09
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	EASTERN ROOST NI COMBINE DAY & NIC COUNTEE 53-690 BIF LONG BE/ 16 Excellent Natural/Na Venice (33 Los Angele	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK D BREAKWATERS ARE 9.4 K BHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE Map Index: 63568 tive occurrence	(WATER) AND (M IN LENGTH (MARY OF 198). EO Index: Presence:	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU 63663 Presumed Extant	HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5 RNAL COUNTS: 31-650 BIR Element Last Seen: Site Last Seen:	584 BIRDS DS (MIDDLE) 2000-07-09 2000-07-09
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	EASTERN ROOST N COMBINE DAY & NIC COUNTEL 53-690 BIF LONG BE/ 16 Excellent Natural/Na Venice (33 Los Angele 33.96092 /	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK D BREAKWATERS ARE 9.4 K GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE Map Index: 63568 Map Index: 63568	(WATER) AND (M IN LENGTH (MARY OF 198). EO Index: Presence:	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU 63663 Presumed Extant Unknown	HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5 RNAL COUNTS: 31-650 BIR Element Last Seen: Site Last Seen: Record Last Updated:	584 BIRDS DS (MIDDLE) 2000-07-09 2000-07-09
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	EASTERN ROOST NI COMBINE DAY & NIC COUNTED 53-690 BIF LONG BE/ 16 Excellent Natural/Na Venice (33 Los Angele 33.96092 / Zone-11 N	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK D BREAKWATERS ARE 9.4 K GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE Map Index: 63568 Map Index: 63568	(WATER) AND (M IN LENGTH (MARY OF 198). EO Index: Presence:	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU 63663 Presumed Extant Unknown	HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5 RNAL COUNTS: 31-650 BIR Element Last Seen: Site Last Seen: Record Last Updated: specific area	584 BIRDS DS (MIDDLE) 2000-07-09 2000-07-09
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	EASTERN ROOST N COMBINE DAY & NIC COUNTED 53-690 BIF LONG BE/ 16 Excellent Natural/Na Venice (33 Los Angele 33.96092 / Zone-11 N T99X, R99	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK D BREAKWATERS ARE 9.4 K GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE Map Index: 63568 Map Index: 63568 (11884) es	(WATER) AND (M IN LENGTH (MARY OF 198). EO Index: Presence:	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU 63663 Presumed Extant Unknown Accuracy: Elevation (ft):	HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5 RNAL COUNTS: 31-650 BIR Element Last Seen: Site Last Seen: Record Last Updated: specific area 0	584 BIRDS DS (MIDDLE) 2000-07-09 2000-07-09
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	EASTERN ROOST NI COMBINE DAY & NIC COUNTED 53-690 BIF LONG BE/ 16 Excellent Natural/Na Venice (33 Los Angele 33.96092 / Zone-11 N T99X, R99 MARINA D	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK D BREAKWATERS ARE 9.4 K GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE Map Index: 63568 (11884) es (-118.46304 (3758787 E364823 (X, Sec. UN (X)	(WATER) AND (M IN LENGTH (MARY OF 198). EO Index: Presence:	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU 63663 Presumed Extant Unknown Accuracy: Elevation (ft):	HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5 RNAL COUNTS: 31-650 BIR Element Last Seen: Site Last Seen: Record Last Updated: specific area 0	584 BIRDS DS (MIDDLE) 2000-07-09 2000-07-09
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological:	EASTERN ROOST N COMBINE DAY & NIC COUNTEL 53-690 BIF LONG BE/ 16 Excellent Natural/Na Venice (33 Los Angele 33.96092 / Zone-11 N T99X, R99 MARINA D ROOST N	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK D BREAKWATERS ARE 9.4 K GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE Map Index: 63568 (11884) (118.46304 (3758787 E364823 (X, Sec. UN (X)) DEL REY BREAKWATER.	(WATER) AND (M IN LENGTH (MARY OF 198). EO Index: Presence:	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU 63663 Presumed Extant Unknown Accuracy: Elevation (ft):	HAT PROTECTED FROM W ERN CALIFORNIA COAST. 5 RNAL COUNTS: 31-650 BIR Element Last Seen: Site Last Seen: Record Last Updated: specific area 0	2000-07-09
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	EASTERN ROOST NI COMBINE DAY & NIC COUNTED 53-690 BIF LONG BE/ 16 Excellent Natural/Na Venice (33 Los Angele 33.96092 / Zone-11 N T99X, R99 MARINA D ROOST NI BREAKW/ MAJOR D/ 1992-93 &	AND MIDDLE LONG BEACH UMBER LA 1.0 (EAST BREAK D BREAKWATERS ARE 9.4 H GHT ROOST. THIS IS LARGE O AT DAWN 5 NOV 1986. SUN RDS (EAST) BREAKWATERS ACH HARBOR, DOD-COE Map Index: 63568 (11884) es (-118.46304 (3758787 E364823 (X, Sec. UN (X)) DEL REY BREAKWATER. UMBER LA 12.0. ATER IS 0.8 KM LONG. AY & NIGHT ROOST. THIS IS	(WATER) AND (M IN LENGTH ST & HIGHEST MMARY OF 198 EO Index: Presence: Trend:	LA 2.0 (MIDDLE BREAKWATER . THEY ARE BROAD & SOMEW QUALITY ROOST ON SOUTHE 66-87, 1992-93 & 1998-2000 DIU 63663 Presumed Extant Unknown Accuracy: Elevation (ft):	HAT PROTECTED FROM W ERN CALIFORNIA COAST. & RNAL COUNTS: 31-650 BIR Element Last Seen: Site Last Seen: Record Last Updated: specific area 0 32.2	584 BIRDS DS (MIDDLE) 2000-07-09 2000-07-09 2006-01-04





Coturnicops no yellow rail	oveborace	nsis					Eleme	nt Code: ABNN	ME01010
Listing Status:	Federal:	None			CND	DB Element Rank	s: Global:	G4	
	State:	None					State:	S1S2	
	Other:	CDFW_SSC-Sp USFWS_BCC-E				Concern, NABCI_F	RWL-Red Wa	tch List, USFS_	_S-Sensitive,
Habitat:	General:	SUMMER RES	IDENT IN EAS	TERN SIERR	A NEVADA IN	MONO COUNTY.			
	Micro:	FRESHWATER		DS.					
Occurrence No.	23	Map Index:	A5268	EO Index:	106991		Element	Last Seen:	1998-10-20
Occ. Rank:	Unknown			Presence:	Presumed E	xtant	Site Last	Seen:	1998-10-20
Осс. Туре:	Natural/Na	ative occurrence		Trend:	Unknown		Record L	ast Updated:	2017-07-12
Quad Summary:	Venice (33	311884)							
County Summary:	Los Angele	es							
Lat/Long:	33.8924 / -	-118.4154				Accuracy:	1 mile		
UTM:	Zone-11 N	I3751127 E36912	:1			Elevation (ft):	53		
PLSS:	T03S, R15	5W, Sec. 24 (S)				Acres:	1987.0		
Location:	THE STRA	AND, MANHATTA	N BEACH.						
Detailed Location:	MAPPED	GENERALLY, BA	SED ON SPE	CIMEN LOCA	LITY. EXACT (COLLECTION LOC	ATION UNK	NOWN.	
Ecological:									
General:	INJURED	BIRD FOUND ON	N 20 OCT 1998	3; DIED IN RE	HAB.				
Owner/Manager:	UNKNOW	N							





Laterallus jama	icensis co	oturniculus			Element Code: ABN	ME03041
California black ra	ail					
Listing Status:	Federal:	None		CNDDB Element Ran	ks: Global: G3G4T1	
	State:	Threatened			State: S1	
	Other:	BLM_S-Sensitive, CDFW_FP Birds of Conservation Concer		d, IUCN_NT-Near Threatened, N	IABCI_RWL-Red Watch List,	USFWS_BCC-
Habitat:	General:	INHABITS FRESHWATER M BORDERING LARGER BAY	,	T MEADOWS AND SHALLOW M	IARGINS OF SALTWATER M	IARSHES
	Micro:	NEEDS WATER DEPTHS OF VEGETATION FOR NESTIN		CH THAT DO NOT FLUCTUATE	DURING THE YEAR AND DE	ENSE
Occurrence No.	68	Map Index: 23785	EO Index:	17538	Element Last Seen:	1928-02-25
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1928-02-25
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown	Record Last Updated:	2017-07-26
Quad Summary:	Venice (33	11884)				
County Summary:	Los Angele	es, Pacific Ocean				
Lat/Long:	33.97291 /	-118.44837		Accuracy:	1 mile	
UTM:	Zone-11 N	3760097 E366198		Elevation (ft):	5	
PLSS:	T02S, R15	W, Sec. 28 (S)		Acres:	0.0	
Location:	VICINITY	OF MARINA DEL REY, NEAR	MOUTH OF BA	ALLONA CREEK, PLAYA DEL R	EY, S OF VENICE.	
Detailed Location:				D 1928 LOCATION STATED AS DWING BALLONA LAGOON ANI		
Ecological:				ES) DEPICTED IN HISTORIC US 'LY DEVELOPED; GENERAL AF		
General:				OUND DEAD (IMPALED ON A B IGHT) ON 25 FEB 1928. 1 EGG		
Owner/Manager:	DPR-DOC	KWEILER SB				





Charadrius niv		sus				Element Code: ABNN	NB03031
western snowy p	lover						
Listing Status:	Federal:	Threatened		CND	DB Element Ran	ks: Global: G3T3	
	State:	None				State: S2	
	Other:	CDFW_SSC-Species of Sp	ecial Concern, N	IABCI_RWL-R	ed Watch List, USF	FWS_BCC-Birds of Conserva	tion Concern
Habitat:	General:	SANDY BEACHES, SALT	POND LEVEES 8	& SHORES OF	LARGE ALKALI L	LAKES.	
	Micro:	NEEDS SANDY, GRAVELI	Y OR FRIABLE	SOILS FOR N	ESTING.		
Occurrence No.	36	Map Index: 01488	EO Index:	7920		Element Last Seen:	1914-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1914-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2007-12-07
Quad Summary:	Venice (3	311884)					
County Summary:	Los Angel	les, Pacific Ocean					
Lat/Long:	33.95266	/ -118.44858			Accuracy:	non-specific area	
UTM:	Zone-11 N	N3757852 E366147			Elevation (ft):	10	
PLSS:	T02S, R1	5W, Sec. 33 (S)			Acres:	154.1	
Location:	PLAYA D	EL REY.					
Location: Detailed Location:	PLAYA D	EL REY.					
	PLAYA D	EL REY.					
Detailed Location:		EL REY.	BY U.S. NATION	IAL MUSEUM.			
Detailed Location: Ecological:	ONE EGG		BY U.S. NATION	IAL MUSEUM.			
Detailed Location: Ecological: General:	ONE EGG	SET COLLECTED IN 1914	BY U.S. NATION	IAL MUSEUM. 21223		Element Last Seen:	1904-XX-XX
Detailed Location: Ecological: General: Owner/Manager:	ONE EGG DPR-DOO	G SET COLLECTED IN 1914 CKWEILER SB				Element Last Seen: Site Last Seen:	1904-XX-XX 1904-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	ONE EGO DPR-DOO 37 None	G SET COLLECTED IN 1914 CKWEILER SB	EO Index:	21223			
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	ONE EGO DPR-DOO 37 None	S SET COLLECTED IN 1914 CKWEILER SB Map Index: 36797 ative occurrence	EO Index: Presence:	21223 Extirpated		Site Last Seen:	1904-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	ONE EGO DPR-DOO 37 None Natural/Na Venice (33	S SET COLLECTED IN 1914 CKWEILER SB Map Index: 36797 ative occurrence	EO Index: Presence:	21223 Extirpated		Site Last Seen:	1904-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	ONE EGO DPR-DOO 37 None Natural/Na Venice (3: Los Angel	S SET COLLECTED IN 1914 CKWEILER SB Map Index: 36797 ative occurrence 311884)	EO Index: Presence:	21223 Extirpated	Accuracy:	Site Last Seen:	1904-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	ONE EGO DPR-DOO 37 None Natural/Na Venice (3 Los Angel 33.96645	S SET COLLECTED IN 1914 CKWEILER SB Map Index: 36797 ative occurrence 311884) les, Pacific Ocean	EO Index: Presence:	21223 Extirpated	Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated:	1904-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	ONE EGO DPR-DOO 37 None Natural/Na Venice (33 Los Angel 33.96645 Zone-11 N	S SET COLLECTED IN 1914 CKWEILER SB Map Index: 36797 ative occurrence 311884) les, Pacific Ocean / -118.45814	EO Index: Presence:	21223 Extirpated	-	Site Last Seen: Record Last Updated: non-specific area	1904-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	ONE EGO DPR-DOO 37 None Natural/Na Venice (3 Los Angel 33.96645 Zone-11 N T02S, R1	S SET COLLECTED IN 1914 CKWEILER SB Map Index: 36797 ative occurrence 311884) les, Pacific Ocean / -118.45814 N3759393 E365285	EO Index: Presence: Trend:	21223 Extirpated	Elevation (ft):	Site Last Seen: Record Last Updated: non-specific area 10	1904-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	ONE EGG DPR-DOO 37 None Natural/Na Venice (33 Los Angel 33.96645 Zone-11 N T02S, R1 BALLONA	S SET COLLECTED IN 1914 CKWEILER SB Map Index: 36797 ative occurrence 311884) les, Pacific Ocean / -118.45814 N3759393 E365285 5W, Sec. 28 (S)	EO Index: Presence: Trend:	21223 Extirpated Unknown	Elevation (ft):	Site Last Seen: Record Last Updated: non-specific area 10	1904-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	ONE EGG DPR-DOO 37 None Natural/Na Venice (33 Los Angel 33.96645 Zone-11 N T02S, R1 BALLONA	S SET COLLECTED IN 1914 I CKWEILER SB Map Index: 36797 ative occurrence 311884) les, Pacific Ocean / -118.45814 N3759393 E365285 5W, Sec. 28 (S) A BEACH (DOCKWEILER ST)	EO Index: Presence: Trend:	21223 Extirpated Unknown	Elevation (ft):	Site Last Seen: Record Last Updated: non-specific area 10	1904-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	ONE EGO DPR-DOO 37 None Natural/Na Venice (33 Los Angel 33.96645 Zone-11 N T02S, R1 BALLONA MAPPED	A BEACH (DOCKWEILER ST AT THE BEACH NORTH OF	EO Index: Presence: Trend: ATE BEACH). BALLONA CREE	21223 Extirpated Unknown	Elevation (ft): Acres:	Site Last Seen: Record Last Updated: non-specific area 10	1904-XX-XX 2007-12-07

California least te	ərn				
Listing Status:	Federal:	Endangered	CNDDB Element Ranks:	Global:	G4T2T3Q
	State:	Endangered		State:	S2
	Other:	CDFW_FP-Fully Protected, NABCI_RWL-Red Watch	n List		
Habitat:	General:	NESTS ALONG THE COAST FROM SAN FRANCIS	CO BAY SOUTH TO NORT	HERN BA	JA CALIFORNIA.
	Micro:	COLONIAL BREEDER ON BARE OR SPARSELY V FLATS, LAND FILLS, OR PAVED AREAS.	EGETATED, FLAT SUBSTR	RATES: SA	ND BEACHES, ALKALI



California Department of Fish and Wildlife



Occurrence No.	12	Map Index: 01439	EO Index:	25699		Element Last Seen:	1996-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed E	xtant	Site Last Seen:	1996-XX-XX
Осс. Туре:	Natural/Nativ	/e occurrence	Trend:	Stable		Record Last Updated:	1998-10-21
Quad Summary:	Venice (331	1884)					
County Summary:	Los Angeles						
Lat/Long:	33.96777 / -	118.45888			Accuracy:	non-specific area	
UTM:	Zone-11 N37	759541 E365219			Elevation (ft):	10	
PLSS:	T02S, R15W	/, Sec. 28 (S)			Acres:	4.6	
Location:	VENICE BE/ BEACH.	ACH SITE. SOUTHERN END	OF VENICE E	BEACH, NORT	'H OF BALLONA C	REEK, PART OF DOCKWEI	LER STATE
Detailed Location:	AND "DEL R					FROM "DEL REY", "MARINA #32595. NESTING RECORI	
Ecological:	PRIOR TO T AND DISTU		ITE WAS ENL	ARGED, AND	A NEW FENCE EL	IMINATED MUCH OF THE P	REDATION
General:						1987: 109 PR, 82 FLEDGED PR, 245 FLEDGED. 1996: 2	
Owner/Manager:	DPR-DOCK	WEILER SB					
Occurrence No.	13	Map Index: 01562	EO Index:	25698		Element Last Seen:	1977-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1978-XX-XX
Occ. Type:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	1998-10-21
Quad Summary:	Venice (331	1884)					
County Summary:	Los Angeles						
Lat/Long:	33.97988 / -′	118.42637			Accuracy:	non-specific area	
UTM:	Zone-11 N37	760842 E368241			Elevation (ft):	10	
PLSS:							
	102S, R15W	/, Sec. 23 (S)			Acres:	3.5	
Location:	-	N ST FILL. BALLONA CR.			Acres:	3.5	
Location: Detailed Location:	-				Acres:	3.5	
	BEETHOVE	N ST FILL. BALLONA CR.			4, FLOOD CONTR	OL CHANNEL, AND A FENC	E.
Detailed Location:	BEETHOVE NESTING A SUBSTRATI	N ST FILL. BALLONA CR. REA TRIANGULARLY BORE E IS LIGHT COLORED, SAN R OF CONFIRMED NESTING	DY DREDGE I G HERE; POTE	MATERIAL WI ENTIAL GOOD	K, FLOOD CONTR TH SPARSE VEGE , EVEN THOUGH	OL CHANNEL, AND A FENC	LARGE



California Department of Fish and Wildlife



Occurrence No.	14	Map Index: 01492	EO Index:	13026		Element Last Seen:	1981-XX-XX
Occ. Rank:	None		Presence:	Possibly Extir	pated	Site Last Seen:	1987-XX-XX
Осс. Туре:	Natural/Nati	ve occurrence	Trend:	Unknown		Record Last Updated:	2012-12-10
Quad Summary:	Venice (331	1884)					
County Summary:	Los Angeles	3					
Lat/Long:	33.96411 / -	118.44601			Accuracy:	non-specific area	
UTM:	Zone-11 N3	759118 E366401			Elevation (ft):	3	
PLSS:	T02S, R15V	V, Sec. 27, SW (S)			Acres:	108.0	
Location:	MOUTH OF	BALLONA CREEK, BETWE	EN MARINA D	EL REY ON TH	E NORTH & DEL	REY BLUFFS ON THE SOU	ТН.
Detailed Location:	SALT/MUD	RVATION FROM MARINA D FLATS WITHIN MARSH. BR URING BREEDING SEASON	EEDING AREA				
Ecological:		ST AND ROOST ON SALT/M THE AREA.	UD FLATS; FE	ED IN THE MAI	RINA, BALLONA	CREEK, BALLONA LAGOON	I, AND
General:	FLEDGED.	S OBS. 1973-75 & 79-84: ME 1981-82: BREEDING AREA AFTER 1987.					
Owner/Manager:	DFG-BALLC	ONA WETLANDS ER					
Occurrence No.	16	Map Index: 02005	EO Index:	25695		Element Last Seen:	1985-07-31
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1987-XX-XX
Осс. Туре:	Natural/Nati	ve occurrence	Trend:	Unknown		Record Last Updated:	1998-10-20
Quad Summary:	San Pedro (3311863), Torrance (331187	3)				
County Summary:	Los Angeles	3					
Lat/Long:	33.75057 / -	118.25508			Accuracy:	1/5 mile	
UTM:	Zone-11 N3	735207 E383754			Elevation (ft):	5	
PLSS:	T05S, R13V	V, Sec. 09 (S)			Acres:	0.0	
Location:	REEVES FI	ELD ON TERMINAL ISLAND	. TAKE TERMI	NAL ISLAND FF	REEWAY TO SEA	SIDE BLVD.	
Detailed Location:							
Ecological:	SITE NOW	A PARKING AREA FOR IMP	ORTED CARS				
General:		PR; 1975: 24 PR; 1976: 60 P 46 NESTS IN 1983, GOOD F					
Owner/Manager:	PVT	, -					



California Department of Fish and Wildlife

California Natural Diversity Database



OVERSTTY							
Occurrence No.	20	Map Index: 02190	EO Index:	25690		Element Last Seen:	1977-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed Ex	xtant	Site Last Seen:	1977-XX-XX
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	1998-10-20
Quad Summary:	Long Beach	(3311872)					
County Summary:	Los Angeles,	, Pacific Ocean					
Lat/Long:	33.75511 / -1	18.13792			Accuracy:	80 meters	
UTM:	Zone-11 N37	35585 E394612			Elevation (ft):	10	
PLSS:	T05S, R12W	, Sec. 09, N (S)			Acres:	0.0	
Location:	BELMONT S	HORE BEACH AT FOOT	OF CORONA AV	'E, LONG BEA	CH.		
Detailed Location:							
Ecological:	SITE SERVE	S AS A NIGHT ROOST F	OR UP TO 280 T	ERNS, BEFOR	RE AND AFTER N	ESTING.	
General:	MANY FLED	GLINGS PRESENT (UP T	O 25%) AFTER I	NESTING.			
Owner/Manager:	UNKNOWN						
Occurrence No.	63	Map Index: 02008	EO Index:	25657		Element Last Seen:	1996-08-01
Occ. Rank:	Unknown		Presence:	Presumed Ex	xtant	Site Last Seen:	1996-08-01
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Increasing		Record Last Updated:	1998-10-20
Quad Summary:	San Pedro (3	3311863), Long Beach (33 ²	11872)				
County Summary:	Los Angeles		,				
Lat/Long:	33.73862 / -1	18.25258			Accuracy:	1/5 mile	
UTM:	Zone-11 N37	33879 E383970			Elevation (ft):		
PLSS:	T99X, R99X,	Sec. UN (X)			Acres:	0.0	
Location:	TERMINAL I	SLAND LANDFILL SITE S	OUTH OF FERR	Y STREET & E	EAST OF EARLE	STREET (AKA FERRY STRE	ET SITE).
Detailed Location:							
Ecological:	SITE CREAT	ED BY INTRODUCTION	OF NEW LANDFI	ILL IN ABOUT	1980.		
General:						LDGNG; 1985: 76 NESTS, G 991: 2 PR. 1992: 0 PR. 1996:	
Owner/Manager:	DOD-NAVY						
Occurrence No.	78	Map Index: 01942	EO Index:	14719		Element Last Seen:	1977-08-03
Occ. Rank:	Unknown		Presence:	Presumed Ex	xtant	Site Last Seen:	1977-08-03
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	1998-10-20
Quad Summary:	Torrance (33	11873)					
County Summary:	Los Angeles						
Lat/Long:	33.78585 / -1	18.29271			Accuracy:	specific area	
UTM:	Zone-11 N37	39162 E380318			Elevation (ft):	30	
PLSS:	T04S, R13W	, Sec. 31 (S)			Acres:	55.0	
	HARBORIA	KE IN HARBOR PARK.					
Location:				_			
Location: Detailed Location:		THE MUDFLATS ALONG	THE SHORELIN	E.			
	BIRDS USE A MAJOR PO		NG AREA FOR T	HE BIRDS FR	OM THE TERMIN	AL ISLAND COLONY, WHICH	HAPPEAR TO
Detailed Location:	BIRDS USE A MAJOR PO MOVE HERE TERNS OBS	OST-BREEDING FORAGIN E AS SOON AS THE YOUN SERVED HERE IN AUG 19	NG AREA FOR T NG ARE ABLE T 75. 100-125 TER	HE BIRDS FR		AL ISLAND COLONY, WHICH 6) OBSERVED 22 JULY 1976	
Detailed Location: Ecological:	BIRDS USE A MAJOR PO MOVE HERE TERNS OBS 25 JUVENILI	OST-BREEDING FORAGIN AS SOON AS THE YOUN	NG AREA FOR T NG ARE ABLE T 75. 100-125 TER	HE BIRDS FR			

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Coccyzus ame	ricanus oc	cidentalis				Element Code: ABNI	RB02022
western yellow-b	illed cuckoo						
Listing Status:	Federal:	Threatened		CNI	DDB Element Ranl	ks: Global: G5T2T3	
	State:	Endangered				State: S1	
	Other:	BLM_S-Sensitive, NABCI_	RWL-Red Watch	List, USFS_S	-Sensitive, USFWS	BCC-Birds of Conservation	Concern
Habitat:	General:	RIPARIAN FOREST NEST	ER, ALONG THE	E BROAD, LO	WER FLOOD-BOT	TOMS OF LARGER RIVER S	SYSTEMS.
	Micro:	NESTS IN RIPARIAN JUN BLACKBERRY, NETTLES			IXED WITH COTTO	ONWOODS, WITH LOWER S	STORY OF
Occurrence No.	201	Map Index: 95877	EO Index:	97015		Element Last Seen:	1921-06-15
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1921-06-15
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2015-04-13
Quad Summary:	Long Bead	ch (3311872)					
County Summary:	Los Angel	es					
Lat/Long:	33.83475	/ -118.21869			Accuracy:	1 mile	
UTM:	Zone-11 N	J3744502 E387235			Elevation (ft):	30	
PLSS:	T04S, R13	3W, Sec. 14 (S)			Acres:	0.0	
Location:	DOMING	JEZ.					
Location: Detailed Location:		JEZ. GENERALLY TO GIVEN LO	CALITY; EXACT	COLLECTION	I LOCATION UNKN	NOWN.	
	MAPPED ORIGINAL WILLOW.	GENERALLY TO GIVEN LO	DS, "NEST SITUA WIGS, SKELETC	TED 12 FEET	T UP IN WILD GRA	NOWN. PE VINE, OVERGROWING / FUZZY BARK. VERY FRAIL,	
Detailed Location:	MAPPED ORIGINAL WILLOW. MERELY	GENERALLY TO GIVEN LO L COLLECTION CARD REAL COMPOSED OF STICKS, T	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH."	ATED 12 FEET NIZED LEAVI	T UP IN WILD GRA ES AND BITS OF F	PE VINE, OVERGROWING FUZZY BARK. VERY FRAIL,	
Detailed Location: Ecological:	MAPPED ORIGINAL WILLOW. MERELY	GENERALLY TO GIVEN LO L COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH."	ATED 12 FEET NIZED LEAVI	T UP IN WILD GRA ES AND BITS OF F	PE VINE, OVERGROWING FUZZY BARK. VERY FRAIL,	
Detailed Location: Ecological: General:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3	GENERALLY TO GIVEN LO L COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH."	ATED 12 FEET NIZED LEAVI	T UP IN WILD GRA ES AND BITS OF F	PE VINE, OVERGROWING FUZZY BARK. VERY FRAIL,	
Detailed Location: Ecological: General: Owner/Manager:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW	GENERALLY TO GIVEN LO L COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR	ATED 12 FEET DNIZED LEAVI	T UP IN WILD GRA ES AND BITS OF F	PE VINE, OVERGROWING UZZY BARK. VERY FRAIL, AT THE NEST.	IN FACT
Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW 202 None	GENERALLY TO GIVEN LO L COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR EO Index:	ATED 12 FEET INIZED LEAVI D (PRESUME 97020	T UP IN WILD GRA ES AND BITS OF F	PE VINE, OVERGROWING A FUZZY BARK. VERY FRAIL, AT THE NEST. Element Last Seen:	IN FACT 1915-05-31
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW 202 None Natural/Na	GENERALLY TO GIVEN LO L COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15 N Map Index: 95887	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR EO Index: Presence: Trend:	ATED 12 FEET NIZED LEAVI D (PRESUME 97020 Extirpated	T UP IN WILD GRA ES AND BITS OF F	PE VINE, OVERGROWING A FUZZY BARK. VERY FRAIL, AT THE NEST. Element Last Seen: Site Last Seen:	IN FACT 1915-05-31 1915-05-31
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW 202 None Natural/Na	GENERALLY TO GIVEN LO L COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15 /N Map Index: 95887 ative occurrence ch (3311872), Torrance (331	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR EO Index: Presence: Trend:	ATED 12 FEET NIZED LEAVI D (PRESUME 97020 Extirpated	T UP IN WILD GRA ES AND BITS OF F	PE VINE, OVERGROWING A FUZZY BARK. VERY FRAIL, AT THE NEST. Element Last Seen: Site Last Seen:	IN FACT 1915-05-31 1915-05-31
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW 202 None Natural/Na Long Beac Los Angel	GENERALLY TO GIVEN LO L COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15 /N Map Index: 95887 ative occurrence ch (3311872), Torrance (331	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR EO Index: Presence: Trend:	ATED 12 FEET NIZED LEAVI D (PRESUME 97020 Extirpated	T UP IN WILD GRA ES AND BITS OF F	PE VINE, OVERGROWING A FUZZY BARK. VERY FRAIL, AT THE NEST. Element Last Seen: Site Last Seen:	IN FACT 1915-05-31 1915-05-31
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW 202 None Natural/Na Long Bead Los Angel 33.79760	GENERALLY TO GIVEN LO L COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15 /N Map Index: 95887 ative occurrence ch (3311872), Torrance (3317 es	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR EO Index: Presence: Trend:	ATED 12 FEET NIZED LEAVI D (PRESUME 97020 Extirpated	T UP IN WILD GRA ES AND BITS OF F ED FEMALE) WAS	PE VINE, OVERGROWING A FUZZY BARK. VERY FRAIL, AT THE NEST. Element Last Seen: Site Last Seen: Record Last Updated:	IN FACT 1915-05-31 1915-05-31
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW 202 None Natural/Na Long Bead Los Angel 33.79760 Zone-11 N	GENERALLY TO GIVEN LO L COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15 /N Map Index: 95887 ative occurrence ch (3311872), Torrance (331 es / -118.23940	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR EO Index: Presence: Trend:	ATED 12 FEET NIZED LEAVI D (PRESUME 97020 Extirpated	T UP IN WILD GRA ES AND BITS OF F ED FEMALE) WAS	PE VINE, OVERGROWING A FUZZY BARK. VERY FRAIL, AT THE NEST. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	IN FACT 1915-05-31 1915-05-31
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW 202 None Natural/Na Long Bead Los Angel 33.79760 Zone-11 N T04S, R13	GENERALLY TO GIVEN LO COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15 'N Map Index: 95887 ative occurrence ch (3311872), Torrance (3317 es / -118.23940 J3740405 E385269	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR EO Index: Presence: Trend: 1873)	ATED 12 FEET NIZED LEAVE 97020 Extirpated Unknown	T UP IN WILD GRA ES AND BITS OF F ED FEMALE) WAS Accuracy: Elevation (ft): Acres:	PE VINE, OVERGROWING A FUZZY BARK. VERY FRAIL, AT THE NEST. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 30 0.0	IN FACT 1915-05-31 1915-05-31
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW 202 None Natural/Na Long Bead Los Angel 33.79760 Zone-11 N T04S, R13 VICINITY JAY SPEC ARTICLE	GENERALLY TO GIVEN LO COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15 'N Map Index: 95887 ative occurrence ch (3311872), Torrance (3317 es / -118.23940 J3740405 E385269 3W, Sec. 28 (S) OF WATSON, WATSON JUI CIMENS (1902-1910) WITH L	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR EO Index: Presence: Trend: 1873)	ATED 12 FEET NIZED LEAVI D (PRESUME 97020 Extirpated Unknown	T UP IN WILD GRA ES AND BITS OF F ED FEMALE) WAS Accuracy: Elevation (ft): Acres: DOMINGUEZ CHA D "WATSON'S PAS	PE VINE, OVERGROWING A FUZZY BARK. VERY FRAIL, AT THE NEST. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 30 0.0	IN FACT 1915-05-31 1915-05-31 2015-05-08 JAY'S 1911
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW 202 None Natural/Na Long Bead Los Angel 33.79760 Zone-11 N T04S, R13 VICINITY JAY SPEC ARTICLE COLLECT NESTS IN GROWTH	GENERALLY TO GIVEN LO COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15 'N Map Index: 95887 ative occurrence ch (3311872), Torrance (3317 es / -118.23940 J3740405 E385269 3W, Sec. 28 (S) OF WATSON, WATSON JUI CIMENS (1902-1910) WITH L PLACES THE MOST PRODI 'ION FROM "DOMINGUEZ S I WILLOWS, MADE OF SMA	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR EO Index: Presence: Trend: 1873) NCTION, WILMIN OCALITIES "WA UCTIVE HABITA" LOUGH." LL STICKS & LIN RIVER BOTTOMS	ATED 12 FEET NIZED LEAVI DOUZED LEAVI 97020 Extirpated Unknown IGTON, AND I TSON'S" ANE T "NEAR THE IED W/ WILLC S WITHIN A FE	T UP IN WILD GRA ES AND BITS OF F ED FEMALE) WAS Accuracy: Elevation (ft): Acres: DOMINGUEZ CHA D "WATSON'S PAS OLD TOWN OF W	PE VINE, OVERGROWING A FUZZY BARK. VERY FRAIL, AT THE NEST. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 30 0.0 NNEL. TURE" ATTRIBUTED HERE.	IN FACT 1915-05-31 1915-05-31 2015-05-08 JAY'S 1911) LY 2ND-
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	MAPPED ORIGINAL WILLOW. MERELY SET OF 3 UNKNOW 202 None Natural/Na Long Bead Los Angel 33.79760 Zone-11 N T04S, R13 VICINITY JAY SPEC ARTICLE COLLECT NESTS IN GROWTH THOUGH 2 EGG SE	GENERALLY TO GIVEN LO COLLECTION CARD REAL COMPOSED OF STICKS, T A COLLECTION OF RUBBIS EGGS COLLECTED ON 15 'N Map Index: 95887 ative occurrence ch (3311872), Torrance (331 es / -118.23940 J3740405 E385269 3W, Sec. 28 (S) OF WATSON, WATSON JUI CIMENS (1902-1910) WITH L PLACES THE MOST PRODI TON FROM "DOMINGUEZ S I WILLOWS, MADE OF SMA I WILLOWS IN SWAMPS & F JAY FOUND NESTS 10 MAY ETS (6 EGGS) COLLECTED	DS, "NEST SITUA WIGS, SKELETC SH IN CROTCH." JUN 1921; A BIR EO Index: Presence: Trend: 1873) NCTION, WILMIN OCALITIES "WA UCTIVE HABITA" LOUGH." LL STICKS & LIN RIVER BOTTOMS Y 1901 & 7 AUG 1902. 2 SETS (6	ATED 12 FEET INIZED LEAVI DOUZED LEAVI 97020 Extirpated Unknown IGTON, AND I TSON'S" AND TSON'S" AND T "NEAR THE IED W/ WILLC S WITHIN A FE 1910. EGGS) COLL	T UP IN WILD GRA ES AND BITS OF F ED FEMALE) WAS Accuracy: Elevation (ft): Acres: DOMINGUEZ CHA D "WATSON'S PAS OLD TOWN OF W DW LEAVES &/OR EW MILES OF THE ECTED 1903. 2 SE	PE VINE, OVERGROWING A FUZZY BARK. VERY FRAIL, AT THE NEST. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 30 0.0 NNEL. TURE" ATTRIBUTED HERE. ILMINGTON." MILLER (1915)	IN FACT 1915-05-31 1915-05-31 2015-05-08 JAY'S 1911 LY 2ND- JN-JUL, (6 EGGS),



California Department of Fish and Wildlife



	203	Map Index: 95888	EO Index:	97028		Element Last Seen:	1923-06-23
Occurrence No. Occ. Rank:	None	Map maex. 93000	Presence:	Extirpated		Site Last Seen:	1923-06-23
Occ. Type:		ative occurrence	Trend:	Unknown		Record Last Updated:	2015-04-13
			frend.	Onknown			2010 04 10
Quad Summary:	-	ch (3311872)					
County Summary:	Los Angele	es					
Lat/Long:	33.79604 /	/ -118.20500			Accuracy:	non-specific area	
UTM:	Zone-11 N	I3740194 E388452			Elevation (ft):	10	
PLSS:	T04S, R13	3W, Sec. 26 (S)			Acres:	916.0	
Location:	LOS ANG	ELES RIVER NEAR LONG BE	EACH.				
Detailed Location:	ANGELES	DCATION UNKNOWN. MAPP S RIVER NEAR LONG BEACH R HAD ALREADY BEEN COI	I. HISTORICAL				
Ecological:	NEST DES	SCRIBED AS A THIN PLATFO	ORM OF SMALL	STICKS, 12 F	FEET UP IN A WIL	LOW TREE.	
General:	BIRD FLU	SHED FROM NEST, 4 EGGS	COLLECTED C	ON 23 JUN 192	23.		
Owner/Manager:	UNKNOW	Ν					
Occurrence No.	204	Map Index: 01965	EO Index:	97029		Element Last Seen:	1910-07-24
Occurrence No. Occ. Rank:	204 None	Map Index: 01965	EO Index: Presence:	97029 Extirpated		Element Last Seen: Site Last Seen:	1910-07-24 1910-07-24
	None	Map Index: 01965					
Occ. Rank:	None Natural/Na		Presence:	Extirpated		Site Last Seen:	1910-07-24
Occ. Rank: Occ. Type:	None Natural/Na	ative occurrence e (3311882)	Presence:	Extirpated		Site Last Seen:	1910-07-24
Occ. Rank: Occ. Type: Quad Summary:	None Natural/Na South Gate Los Angele	ative occurrence e (3311882)	Presence:	Extirpated	Accuracy:	Site Last Seen:	1910-07-24
Occ. Rank: Occ. Type: Quad Summary: County Summary:	None Natural/Na South Gate Los Angele	tive occurrence e (3311882) es	Presence:	Extirpated	Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated:	1910-07-24
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	None Natural/Na South Gate Los Angele 33.90327 / Zone-11 N	ative occurrence e (3311882) es / -118.22273	Presence:	Extirpated	•	Site Last Seen: Record Last Updated: 1 mile	1910-07-24
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	None Natural/Na South Gate Los Angele 33.90327 / Zone-11 N T03S, R13	ative occurrence e (3311882) es / -118.22273 I3752103 E386952	Presence:	Extirpated	Elevation (ft):	Site Last Seen: Record Last Updated: 1 mile 70	1910-07-24
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	None Natural/Na South Gate Los Angele 33.90327 / Zone-11 N T03S, R13 VICINITY (ative occurrence e (3311882) es / -118.22273 13752103 E386952 3W, Sec. 15 (S)	Presence: Trend:	Extirpated Unknown	Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1 mile 70 0.0	1910-07-24 2015-06-03
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	None Natural/Na South Gate Los Angele 33.90327 / Zone-11 N T03S, R13 VICINITY (EXACT CO	ative occurrence e (3311882) es / -118.22273 I3752103 E386952 3W, Sec. 15 (S) OF COMPTON.	Presence: Trend:	Extirpated Unknown	Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1 mile 70 0.0	1910-07-24 2015-06-03
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	None Natural/Na South Gate Los Angele 33.90327 / Zone-11 N T03S, R13 VICINITY (EXACT CO NEST MAI	ative occurrence e (3311882) es / -118.22273 I3752103 E386952 3W, Sec. 15 (S) OF COMPTON. DLLECTION LOCATIONS UN	Presence: Trend: KNOWN, MAPF WITH ROOTLE	Extirpated Unknown PED GENERA ETS," FOUND	Elevation (ft): Acres: LLY TO GIVEN LO	Site Last Seen: Record Last Updated: 1 mile 70 0.0	1910-07-24 2015-06-03



California Natural Diversity Database



Element Code: ABNSB10010

Athene cunicularia

burrowing owl						
Listing Status:	Federal:	None		CNDDB Element Ran	ks: Global: G4	
	State:	None			State: S3	
	Other:	BLM_S-Sensitive, CDFW_S	SSC-Species of S	Special Concern, IUCN_LC-Leas	t Concern, USFWS_BCC-Bird	ls of
Habitat:	General:	OPEN, DRY ANNUAL OR GROWING VEGETATION.		ASSLANDS, DESERTS, AND S	CRUBLANDS CHARACTERIZ	ED BY LOW-
	Micro:	SUBTERRANEAN NESTE GROUND SQUIRREL.	R, DEPENDENT	UPON BURROWING MAMMAL	S, MOST NOTABLY, THE CA	LIFORNIA
Occurrence No.	67	Map Index: 85090	EO Index:	25454	Element Last Seen:	2010-10-XX
Occ. Rank:	Poor		Presence:	Presumed Extant	Site Last Seen:	2011-XX-XX
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Decreasing	Record Last Updated:	2012-12-14
Quad Summary:	Venice (33	311884)				
County Summary:	Los Angele	es				
Lat/Long:	33.96964	/ -118.43652		Accuracy:	non-specific area	
UTM:	Zone-11 N	3759720 E367287		Elevation (ft):	5	
PLSS:	T02S, R15	5W, Sec. 27 (S)		Acres:	609.0	
Location:	BALLONA	WETLANDS ECOLOGICAL	RESERVE, NEA	AR PLAYA DEL REY, LOS ANGE	ELES.	
					ER EAST BY LMU AND THE	
Detailed Location:		- , ,		LETELY OVER-WINTERING IN 2		05-2006.
Detailed Location: Ecological:	WESTCHE PAIRS NE NEST ON	ESTER BLUFFS. FIRST IND ST IN BANKS ON NORTH S	IVIDUAL COMPL SIDE OF BALLON GRICULTURAL I		20 YEARS DOCUMENTED 20 BLVD; ADDITIONAL OWLS F	ROBABLY
	WESTCHE PAIRS NE NEST ON OF LAST POP STAE	ESTER BLUFFS. FIRST IND ST IN BANKS ON NORTH S BLUFFS SOUTH OF THE A PLACES IN LA CO FOR SPE BLE & BREEDING UNTIL 194 W EXTIRPATED AS BREEDI	IVIDUAL COMPL SIDE OF BALLON GRICULTURAL I ECIES. 81 (SCH81R01)	LETELY OVER-WINTERING IN 2 NA CREEK, WEST OF CULVER	20 YEARS DOCUMENTED 20 BLVD; ADDITIONAL OWLS F DF BALLONA CREEK (SCH81 IN MAR 1981, JUL 1982, MA	PROBABLY R0001). ONE R 1983, OCT
Ecological:	WESTCHE PAIRS NE NEST ON OF LAST I POP STAE 1983. NOV 2008, 2009	ESTER BLUFFS. FIRST IND ST IN BANKS ON NORTH S BLUFFS SOUTH OF THE A PLACES IN LA CO FOR SPE BLE & BREEDING UNTIL 194 W EXTIRPATED AS BREEDI	IVIDUAL COMPL SIDE OF BALLON GRICULTURAL I ECIES. 81 (SCH81R01)	ETELY OVER-WINTERING IN 2 IA CREEK, WEST OF CULVER LANDS ON THE SOUTH SIDE C SUPPORTED BY DETECTIONS	20 YEARS DOCUMENTED 20 BLVD; ADDITIONAL OWLS F DF BALLONA CREEK (SCH81 IN MAR 1981, JUL 1982, MA	PROBABLY R0001). ONE R 1983, OCT
Ecological: General:	WESTCHE PAIRS NE NEST ON OF LAST I POP STAE 1983. NOV 2008, 2009	ESTER BLUFFS. FIRST IND ST IN BANKS ON NORTH S BLUFFS SOUTH OF THE A PLACES IN LA CO FOR SPE BLE & BREEDING UNTIL 19 W EXTIRPATED AS BREEDI 9 & 2010.	IVIDUAL COMPL SIDE OF BALLON GRICULTURAL I ECIES. 81 (SCH81R01)	ETELY OVER-WINTERING IN 2 IA CREEK, WEST OF CULVER LANDS ON THE SOUTH SIDE C SUPPORTED BY DETECTIONS	20 YEARS DOCUMENTED 20 BLVD; ADDITIONAL OWLS F DF BALLONA CREEK (SCH81 IN MAR 1981, JUL 1982, MA	PROBABLY R0001). ONE R 1983, OCT
Ecological: General: Owner/Manager:	WESTCHE PAIRS NE NEST ON OF LAST I POP STAE 1983. NOV 2008, 2009 DFG-BALL	ESTER BLUFFS. FIRST IND ST IN BANKS ON NORTH S BLUFFS SOUTH OF THE A PLACES IN LA CO FOR SPE BLE & BREEDING UNTIL 19 W EXTIRPATED AS BREEDI 9 & 2010. LONA WETLANDS ER	IVIDUAL COMPL SIDE OF BALLON GRICULTURAL I ECIES. 81 (SCH81R01) ER, BUT DETEC	ETELY OVER-WINTERING IN 2 VA CREEK, WEST OF CULVER LANDS ON THE SOUTH SIDE C SUPPORTED BY DETECTIONS TIONS OF OWLS, FEWER & IN	20 YEARS DOCUMENTED 20 BLVD; ADDITIONAL OWLS F DF BALLONA CREEK (SCH81 IN MAR 1981, JUL 1982, MA WINTER, IN 2003, 2004, 200	ROBABLY R0001). ONE R 1983, OCT 5, 2006, 2007,
Ecological: General: Owner/Manager: Occurrence No.	WESTCHE PAIRS NE NEST ON OF LAST I POP STAE 1983. NOV 2008, 2009 DFG-BALI 571 Unknown	ESTER BLUFFS. FIRST IND ST IN BANKS ON NORTH S BLUFFS SOUTH OF THE A PLACES IN LA CO FOR SPE BLE & BREEDING UNTIL 19 W EXTIRPATED AS BREEDI 9 & 2010. LONA WETLANDS ER	IVIDUAL COMPL SIDE OF BALLON GRICULTURAL I ECIES. 81 (SCH81R01) ER, BUT DETEC EO Index:	ETELY OVER-WINTERING IN 2 VA CREEK, WEST OF CULVER LANDS ON THE SOUTH SIDE C SUPPORTED BY DETECTIONS TIONS OF OWLS, FEWER & IN	20 YEARS DOCUMENTED 20 BLVD; ADDITIONAL OWLS F DF BALLONA CREEK (SCH81 IN MAR 1981, JUL 1982, MA WINTER, IN 2003, 2004, 200 Element Last Seen:	PROBABLY R0001). ONE R 1983, OCT 5, 2006, 2007, 1921-05-05
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	WESTCHE PAIRS NE NEST ON OF LAST I POP STAE 1983. NOV 2008, 2009 DFG-BALL 571 Unknown Natural/Na	ESTER BLUFFS. FIRST IND ST IN BANKS ON NORTH S BLUFFS SOUTH OF THE A PLACES IN LA CO FOR SPE BLE & BREEDING UNTIL 199 W EXTIRPATED AS BREEDI 9 & 2010. ONA WETLANDS ER Map Index: 51258 Ative occurrence e (3311882), Inglewood (331	IVIDUAL COMPL SIDE OF BALLON GRICULTURAL I ECIES. 81 (SCH81R01) ER, BUT DETEC EO Index: Presence: Trend:	ETELY OVER-WINTERING IN 2 VA CREEK, WEST OF CULVER LANDS ON THE SOUTH SIDE C SUPPORTED BY DETECTIONS TIONS OF OWLS, FEWER & IN 51258 Presumed Extant	20 YEARS DOCUMENTED 20 BLVD; ADDITIONAL OWLS F OF BALLONA CREEK (SCH81 IN MAR 1981, JUL 1982, MA WINTER, IN 2003, 2004, 200 Element Last Seen: Site Last Seen: Record Last Updated:	PROBABLY R0001). ONE R 1983, OCT 5, 2006, 2007, 1921-05-05 1921-05-05 2003-05-09
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	WESTCHE PAIRS NE NEST ON OF LAST I POP STAE 1983. NOV 2008, 2009 DFG-BALI 571 Unknown Natural/Na South Gat	ESTER BLUFFS. FIRST IND ST IN BANKS ON NORTH S BLUFFS SOUTH OF THE A PLACES IN LA CO FOR SPE BLE & BREEDING UNTIL 19 WEXTIRPATED AS BREEDI 9 & 2010. ONA WETLANDS ER Map Index: 51258 htive occurrence e (3311882), Inglewood (331	IVIDUAL COMPL SIDE OF BALLON GRICULTURAL I ECIES. 81 (SCH81R01) ER, BUT DETEC EO Index: Presence: Trend:	ETELY OVER-WINTERING IN 2 VA CREEK, WEST OF CULVER LANDS ON THE SOUTH SIDE C SUPPORTED BY DETECTIONS TIONS OF OWLS, FEWER & IN 51258 Presumed Extant Unknown	20 YEARS DOCUMENTED 20 BLVD; ADDITIONAL OWLS F OF BALLONA CREEK (SCH81 IN MAR 1981, JUL 1982, MA WINTER, IN 2003, 2004, 200 Element Last Seen: Site Last Seen: Record Last Updated:	PROBABLY R0001). ONE R 1983, OCT 5, 2006, 2007, 1921-05-05 1921-05-05 2003-05-09
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	WESTCHE PAIRS NE NEST ON OF LAST I POP STAE 1983. NOV 2008, 2009 DFG-BALL 571 Unknown Natural/Na South Gate (3411823) Los Angele	ESTER BLUFFS. FIRST IND ST IN BANKS ON NORTH S BLUFFS SOUTH OF THE A PLACES IN LA CO FOR SPE BLE & BREEDING UNTIL 19 WEXTIRPATED AS BREEDI 9 & 2010. ONA WETLANDS ER Map Index: 51258 htive occurrence e (3311882), Inglewood (331	IVIDUAL COMPL SIDE OF BALLON GRICULTURAL I ECIES. 81 (SCH81R01) ER, BUT DETEC EO Index: Presence: Trend:	ETELY OVER-WINTERING IN 2 VA CREEK, WEST OF CULVER LANDS ON THE SOUTH SIDE C SUPPORTED BY DETECTIONS TIONS OF OWLS, FEWER & IN 51258 Presumed Extant Unknown	20 YEARS DOCUMENTED 20 BLVD; ADDITIONAL OWLS F OF BALLONA CREEK (SCH81 IN MAR 1981, JUL 1982, MA WINTER, IN 2003, 2004, 200 Element Last Seen: Site Last Seen: Record Last Updated:	PROBABLY R0001). ONE R 1983, OCT 5, 2006, 2007, 1921-05-05 1921-05-05 2003-05-09
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Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	WESTCHE PAIRS NE NEST ON OF LAST I POP STAE 1983. NOV 2008, 2009 DFG-BALI 571 Unknown Natural/Na South Gat (3411823) Los Angele 34.05366 / Zone-11 N T01S, R13	ESTER BLUFFS. FIRST IND ST IN BANKS ON NORTH S BLUFFS SOUTH OF THE A PLACES IN LA CO FOR SPE BLE & BREEDING UNTIL 194 WEXTIRPATED AS BREEDI 9 & 2010. -ONA WETLANDS ER Map Index: 51258 	IVIDUAL COMPL SIDE OF BALLON GRICULTURAL I ECIES. 81 (SCH81R01) ER, BUT DETEC EO Index: Presence: Trend:	ETELY OVER-WINTERING IN 2 VA CREEK, WEST OF CULVER LANDS ON THE SOUTH SIDE C SUPPORTED BY DETECTIONS TIONS OF OWLS, FEWER & IN 51258 Presumed Extant Unknown les (3411812), Hollywood (34118 Accuracy: Elevation (ft):	20 YEARS DOCUMENTED 20 BLVD; ADDITIONAL OWLS F DF BALLONA CREEK (SCH81 IN MAR 1981, JUL 1982, MA WINTER, IN 2003, 2004, 200 Element Last Seen: Site Last Seen: Record Last Updated: 313), Pasadena (3411822), Bu 5 miles 280	PROBABLY R0001). ONE R 1983, OCT 5, 2006, 2007, 1921-05-05 1921-05-05 2003-05-09
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Empidonax tra		S			Element Code: ABPA	AE33043
southwestern will						
Listing Status:		Endangered		CNDDB Element Ran		
	State:	Endangered			State: S1	
	Other:	NABCI_RWL-Red Watch L				
Habitat:	General:	RIPARIAN WOODLANDS	IN SOUTHERN (CALIFORNIA.		
	Micro:					
Occurrence No.	42	Map Index: 01965	EO Index:	59152	Element Last Seen:	1895-06-29
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1895-06-29
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown	Record Last Updated:	2005-01-04
Quad Summary:	South Gate	e (3311882)				
County Summary:	Los Angele	es				
_at/Long:	33.90327 /	-118.22273		Accuracy:	1 mile	
JTM:	Zone-11 N	3752103 E386952		Elevation (ft):		
	T03S, R13	W, Sec. 15 (S)		Acres:	0.0	
255: 	-					
	COMPTON	۱.				
Location:	NO OTHEI	R LOCATION INFORMATIO		ED IN THE GENERAL VICINITY	OF COMPTON & THE LAT-L	ONG
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Location: Detailed Location: Ecological: General:	NO OTHEI COORDIN	R LOCATION INFORMATIO ATES GIVEN BY MVZ. LOC , NEST PLUS EGGS, COLLI	ATION UNCERT	AINTY GIVEN AS 1.5 MILES.	OF COMPTON & THE LAT-L	ONG
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	NO OTHEI COORDIN MVZ #649	R LOCATION INFORMATIO ATES GIVEN BY MVZ. LOC , NEST PLUS EGGS, COLLI	ATION UNCERT	AINTY GIVEN AS 1.5 MILES.	OF COMPTON & THE LAT-L	_ONG 1894-05-20
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No.	NO OTHEI COORDIN MVZ #649 UNKNOWI	R LOCATION INFORMATIO ATES GIVEN BY MVZ. LOC , NEST PLUS EGGS, COLLI N	ECTED 29 JUN 1	AINTY GIVEN AS 1.5 MILES. 895 BY W. B. JUDSON.		1894-05-20
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank:	NO OTHEI COORDIN MVZ #649 UNKNOWI 43 Unknown	R LOCATION INFORMATIO ATES GIVEN BY MVZ. LOC , NEST PLUS EGGS, COLLI N	ECTED 29 JUN 1	AINTY GIVEN AS 1.5 MILES. 895 BY W. B. JUDSON. 59153	Element Last Seen:	1894-05-20 1894-05-20
Location: Detailed Location: Ecological: General: Dwner/Manager:	NO OTHEI COORDIN MVZ #649 UNKNOWI 43 Unknown Natural/Na	R LOCATION INFORMATIO ATES GIVEN BY MVZ. LOC , NEST PLUS EGGS, COLLI N Map Index: 51258 tive occurrence	ECTED 29 JUN 1 ECTED 29 JUN 1 EO Index: Presence: Trend:	AINTY GIVEN AS 1.5 MILES. 895 BY W. B. JUDSON. 59153 Presumed Extant	Element Last Seen: Site Last Seen: Record Last Updated:	1894-05-20 1894-05-20 2005-01-05
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary:	NO OTHEI COORDIN MVZ #649 UNKNOWI 43 Unknown Natural/Na South Gate	R LOCATION INFORMATIO ATES GIVEN BY MVZ. LOC , NEST PLUS EGGS, COLLI N Map Index: 51258 tive occurrence e (3311882), Inglewood (331	ECTED 29 JUN 1 ECTED 29 JUN 1 EO Index: Presence: Trend:	AINTY GIVEN AS 1.5 MILES. 895 BY W. B. JUDSON. 59153 Presumed Extant Unknown	Element Last Seen: Site Last Seen: Record Last Updated:	1894-05-20 1894-05-20 2005-01-05
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary:	NO OTHEI COORDIN MVZ #649 UNKNOWI 43 Unknown Natural/Na South Gate (3411823) Los Angele	R LOCATION INFORMATIO ATES GIVEN BY MVZ. LOC , NEST PLUS EGGS, COLLI N Map Index: 51258 tive occurrence e (3311882), Inglewood (331	ECTED 29 JUN 1 ECTED 29 JUN 1 EO Index: Presence: Trend:	AINTY GIVEN AS 1.5 MILES. 895 BY W. B. JUDSON. 59153 Presumed Extant Unknown	Element Last Seen: Site Last Seen: Record Last Updated:	1894-05-20 1894-05-20 2005-01-05
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long:	NO OTHEI COORDIN MVZ #649 UNKNOWN 43 Unknown Natural/Na South Gate (3411823) Los Angele 34.05366 /	R LOCATION INFORMATIO ATES GIVEN BY MVZ. LOC , NEST PLUS EGGS, COLLI N Map Index: 51258 tive occurrence e (3311882), Inglewood (331	ECTED 29 JUN 1 ECTED 29 JUN 1 EO Index: Presence: Trend:	AINTY GIVEN AS 1.5 MILES. 895 BY W. B. JUDSON. 59153 Presumed Extant Unknown les (3411812), Hollywood (34118	Element Last Seen: Site Last Seen: Record Last Updated: 113), Pasadena (3411822), Bu	1894-05-20 1894-05-20 2005-01-05
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California Natural Diversity Database



Riparia riparia bank swallow						Element Code: ABP/	AU08010
Listing Status:	Federal:	None		CND	DB Element Ranl	ks: Global: G5	
0	State:	Threatened				State: S2	
	Other:	BLM S-Sensitive, IUCN LC-	Least Concern				
Habitat:	General:	_			AND OTHER I OW	LAND HABITATS WEST OF	THE DESERT.
	Micro:					DILS NEAR STREAMS, RIVE	
		OCEAN TO DIG NESTING H				,	
Occurrence No.	3	Map Index: 84452	EO Index:	85481		Element Last Seen:	1919-06-29
Occ. Rank:	Unknown		Presence:	Presumed E	xtant	Site Last Seen:	1919-06-29
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2011-12-06
Quad Summary:	Long Bead	ch (3311872)					
County Summary:	Los Angele	es					
Lat/Long:	33.76402	/ -118.16737			Accuracy:	1 mile	
UTM:	Zone-11 N	I3736603 E391895			Elevation (ft):	60	
PLSS:	T05S, R12	2W, Sec. 07 (S)			Acres:	0.0	
Location:	OCEAN B	LUFF NEAR BIXBY PARK, LO	NG BEACH.				
Detailed Location:	LOCATIO	N STATED AS "LONG BEACH	, LOS ANGELE	S CO" AND "C	OCEAN BLUFF NE	AR BIXBY PARK."	
Ecological:		S LOCATED IN THE BACK OF /ITH A HEAVY LINING OF WH					
General:		TH 4 EGGS COLLECTED ON 2 S NEW NESTS TO SOME NES			NG COLONY; STA	GE OF NESTING AT THE T	IME WAS
Owner/Manager:	CITY OF L	ONG BEACH, UNKNOWN					
Occurrence No.	102	Map Index: 84233	EO Index:	85259		Element Last Seen:	1921-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1921-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2011-12-02
Quad Summary:	San Pedro) (3311863)					
County Summary:	Los Angele	es					
Lat/Long:	33.72983	/ -118.27637			Accuracy:	1 mile	
UTM:	Zone-11 N	I3732933 E381753			Elevation (ft):	20	
PLSS:	T99X, R99	9X, Sec. UN (X)			Acres:	0.0	
Location:	AREA OF	SAN PEDRO AND DEAD MAN	NS ISLAND (RE	SERVATION	POINT), LOS ANG	ELES COUNTY.	
Detailed Location:		G SETS: "L.A. AND SAN PED DSON: "LARGE COLONY WAS RO."					
Ecological:	AERIAL IN RESERVA	AGE (2010) SHOWS THAT T TION POINT AND THE EAST ORTIONS OF SAN PEDRO BA	SIDE OF MAIN				
General:	SNYDER	COLONIES OBS BY SHEPAR (1909), 2 TAKEN BY NOKES (NIA BREEDER (SCH92).					
Owner/Manager:	UNKNOW	N					
Polioptila califo	ornica cali	fornica				Element Code: ABPI	BJ08081
coastal California							
Listing Status:	0	Threatened		CND	DB Element Ranl	ks: Global: G4G5T3Q	

None

State:

State:

S2



California Department of Fish and Wildlife



	Other:	CDFW SSC-Species of Sp	ecial Concern, N	ABCI YWL-Yellow Watc	h List		
Habitat:	General:	OBLIGATE, PERMANENT		—		2500 FT IN SOUTHERN C	ALIFORNIA.
	Micro:	LOW, COASTAL SAGE SC COASTAL SAGE SCRUB	RUB IN ARID W	ASHES, ON MESAS AN			
Occurrence No.	30	Map Index: 01686	EO Index:	29840		Element Last Seen:	2018-06-18
Occ. Rank:	Good		Presence:	Presumed Extant		Site Last Seen:	2018-06-18
Осс. Туре:	Natural/N	ative occurrence	Trend:	Decreasing		Record Last Updated:	2021-01-29
Quad Summary:	San Pedr	o (3311863), Torrance (33118	73), Redondo Be	each (3311874)			
County Summary:	Los Ange	les					
Lat/Long:	33.74530	/ -118.39689		Accurac	y:	non-specific area	
UTM:	Zone-11 I	N3734792 E370611		Elevatio	n (ft):	350	
PLSS:	T05S, R1	4W, Sec. 18 (S)		Acres:		865.0	
Location:	PALOS V PALOS V	'ERDES PENINSULA NEAR F 'ERDES.	PT VINCENTE &	LONG PT, NE TO CRES	T RD (INC	CLUDING MCCARRELLS C	YN), RANCHO
Detailed Location:		(ERDES DR W, PALOS VERD ('98 & 06), PENINSULA POIN					/CIVIC
Ecological:	CALIFOR	DUND IN AREAS OF SAGEBR NICA, ERIOGONUM FASCIC	ULATUM, & SAL				-
	1000/ 000	RELL'S CYN (BARKENTINE) S	SIG HABITAT.				
General:	1980: 5PI	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04:	93:13PRS. '95: 8				
General: Owner/Manager:	1980: 5PI '01:7PRS	RS. '90: 24BRDS. '91: 2PRS. '	93:13PRS. '95: 8				
	1980: 5PI '01:7PRS	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04:	93:13PRS. '95: 8				
Owner/Manager:	1980: 5PI '01:7PRS CITY OF	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES	93:13PRS. '95: 8 13 BRDS. '06: 67	' OBS. '09: 2PRS. '11: 1F		OBS. '16: 1PR. '18: 4PRS.	
Owner/Manager: Occurrence No.	1980: 5PI '01:7PRS CITY OF 31 Fair	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES	93:13PRS. '95: 8 13 BRDS. '06: 67 EO Index:	7 OBS. '09: 2PRS. '11: 1F 29841		OBS. '16: 1PR. '18: 4PRS. Element Last Seen:	2012-06-05
Owner/Manager: Occurrence No. Occ. Rank:	1980: 5PI '01:7PRS CITY OF 31 Fair Natural/N	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES Map Index: 15982	93:13PRS. '95: 8 13 BRDS. '06: 67 EO Index: Presence:	7 OBS. '09: 2PRS. '11: 1F 29841 Presumed Extant		OBS. '16: 1PR. '18: 4PRS. Element Last Seen: Site Last Seen:	2012-06-05 2012-06-05
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	1980: 5PI '01:7PRS CITY OF 31 Fair Natural/N	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES Map Index: 15982 lative occurrence Beach (3311874)	93:13PRS. '95: 8 13 BRDS. '06: 67 EO Index: Presence:	7 OBS. '09: 2PRS. '11: 1F 29841 Presumed Extant		OBS. '16: 1PR. '18: 4PRS. Element Last Seen: Site Last Seen:	2012-06-05 2012-06-05
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	1980: 5PI '01:7PRS CITY OF 31 Fair Natural/N Redondo Los Ange	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES Map Index: 15982 lative occurrence Beach (3311874)	93:13PRS. '95: 8 13 BRDS. '06: 67 EO Index: Presence:	7 OBS. '09: 2PRS. '11: 1F 29841 Presumed Extant	PR. '12: 34	OBS. '16: 1PR. '18: 4PRS. Element Last Seen: Site Last Seen:	2012-06-05 2012-06-05
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	1980: 5PI '01:7PRS CITY OF 31 Fair Natural/N Redondo Los Ange 33.76465	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES Map Index: 15982 lative occurrence Beach (3311874)	93:13PRS. '95: 8 13 BRDS. '06: 67 EO Index: Presence:	OBS. '09: 2PRS. '11: 1F 29841 Presumed Extant Unknown	PR. '12: 34	OBS. '16: 1PR. '18: 4PRS. Element Last Seen: Site Last Seen: Record Last Updated:	2012-06-05 2012-06-05
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	1980: 5PI '01:7PRS CITY OF 31 Fair Natural/N Redondo Los Ange 33.76465 Zone-11 I	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES Map Index: 15982 lative occurrence Beach (3311874) les / -118.39907	93:13PRS. '95: 8 13 BRDS. '06: 67 EO Index: Presence:	7 OBS. '09: 2PRS. '11: 1F 29841 Presumed Extant Unknown Accurac	PR. '12: 34	OBS. '16: 1PR. '18: 4PRS. Element Last Seen: Site Last Seen: Record Last Updated: non-specific area	2012-06-05 2012-06-05
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	1980: 5PI '01:7PRS CITY OF 31 Fair Natural/N Redondo Los Ange 33.76465 Zone-11 I T05S, R1	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES Map Index: 15982 ative occurrence Beach (3311874) des / -118.39907 N3736941 E370438	93:13PRS. '95: 8 13 BRDS. '06: 67 EO Index: Presence: Trend:	7 OBS. '09: 2PRS. '11: 1F 29841 Presumed Extant Unknown Accurac Elevatio Acres:	PR. '12: 34	OBS. '16: 1PR. '18: 4PRS. Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 600 160.0	2012-06-05 2012-06-05 2021-02-12
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	1980: 5PI '01:7PRS CITY OF 31 Fair Natural/N Redondo Los Ange 33.76465 Zone-11 I T05S, R1 AGUA AM 1993-95 S BREEDIN	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES Map Index: 15982 lative occurrence Beach (3311874) les / -118.39907 N3736941 E370438 5W, Sec. 12 (S)	93:13PRS. '95: 8 13 BRDS. '06: 67 EO Index: Presence: Trend: RDES PENINSU	29841 Presumed Extant Unknown Accurac Elevatio Acres: PLA, PALOS VERDES ES YN'S THAT SUPPORTEE	PR. '12: 34	OBS. '16: 1PR. '18: 4PRS. Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 600 160.0 RANCHO PALOS VERDE: PF THE PALOS VERDES P	2012-06-05 2012-06-05 2021-02-12 S. ENINSULA
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	1980: 5PI '01:7PRS CITY OF 31 Fair Natural/N Redondo Los Ange 33.76465 Zone-11 I T05S, R1 AGUA AM 1993-95 S BREEDIN 29941 HA HABITAT SALVIA M	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES Map Index: 15982 lative occurrence Beach (3311874) les / -118.39907 N3736941 E370438 5W, Sec. 12 (S) MARGA CANYON, PALOS VE STUDY: AGUA AMARGA CYN NG POPULATION. FWS DIGIT	93:13PRS. '95: 8 13 BRDS. '06: 67 EO Index: Presence: Trend: RDES PENINSU WAS 1 OF 3 C FAL DATA: 9 AU UB, DOMINATEE RITICAL TO THE	29841 Presumed Extant Unknown Accurac Elevatio Acres: PLA, PALOS VERDES ES YN'S THAT SUPPORTED 3 06 SITE NAME PORTU D BY ARTEMISIA CALIFO	PR. '12: 34	OBS. '16: 1PR. '18: 4PRS. Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 600 160.0 RANCHO PALOS VERDE PF THE PALOS VERDES P BEND NATURE PRESERV ERIOGONUM FASCICULA	2012-06-05 2012-06-05 2021-02-12 S. ENINSULA E; 9 APR 06 AT TUM, AND
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	1980: 5PI '01:7PRS CITY OF 31 Fair Natural/N Redondo Los Ange 33.76465 Zone-11 I T05S, R1 AGUA AM 1993-95 S BREEDIN 29941 HA HABITAT SALVIA M MUCH N 1980: 3 P	RS. '90: 24BRDS. '91: 2PRS. ' . '02: 7TERR. '03: 7PRS. '04: RANCHO PALOS VERDES Map Index: 15982 ative occurrence Beach (3311874) des / -118.39907 N3736941 E370438 5W, Sec. 12 (S) MARGA CANYON, PALOS VE STUDY: AGUA AMARGA CYN NG POPULATION. FWS DIGIT WTHORNE BLVD. 'WAS COASTAL SAGE SCRU	93:13PRS. '95: 8 13 BRDS. '06: 67 EO Index: Presence: Trend: RDES PENINSU WAS 1 OF 3 C AL DATA: 9 AU UB, DOMINATED RITICAL TO THE RVES IN 2008. 3: 8 PRS OBS. 1	29841 Presumed Extant Unknown Accurac Elevatio Acres: PLA, PALOS VERDES ES YN'S THAT SUPPORTED 3 06 SITE NAME PORTU D BY ARTEMISIA CALIFO 5 SURVIVAL OF GNATC 995: 4 PRS OBS. POOR	PR. '12: 34 PR. '	OBS. '16: 1PR. '18: 4PRS. Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 600 160.0 RANCHO PALOS VERDES F THE PALOS VERDES SEND NATURE PRESERV ERIOGONUM FASCICULAT S ON THE PALOS VERDES AL OF ADULTS & JUV'S DU	2012-06-05 2012-06-05 2021-02-12 S. ENINSULA E; 9 APR 06 AT TUM, AND S PENINSULA. JRING



California Department of Fish and Wildlife



Occurrence No.	33	Map Index: 01805	EO Index:	25114		Element Last Seen:	1980-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed Ex	ktant	Site Last Seen:	1980-XX-XX
Occ. Type:	Natural/Native	occurrence	Trend:	Unknown		Record Last Updated:	2008-05-19
Quad Summary:	Torrance (331	1873)					
County Summary:	Los Angeles						
Lat/Long:	33.76757 / -11	8.35841			Accuracy:	non-specific area	
UTM:	Zone-11 N373	7214 E374208			Elevation (ft):	750	
PLSS:	T05S, R14W, S	Sec. 09 (S)			Acres:	152.0	
Location:	SUNNYRIDGE	RD, AGUA MAGNA CAN	YON NEAR RC	LLING HILLS,	VICINITY OF PAL	OS VERDES.	
Detailed Location:	MAPPED TO F	PROVIDED MAP & 1994 A	ERIAL IMAGE	S.			
	HABITAT IS C SALVIA MELL		OMINATED B	Y ARTEMISIA	CALIFORNICA, E	RIOGONUM FASCICULATUI	M, AND
General:	1-2 PAIRS OB	SERVED; 5-10 PAIRS EST	IMATED.				
Owner/Manager:	UNKNOWN						
Occurrence No.	34	Map Index: 01865	EO Index:	21796		Element Last Seen:	2012-05-14
Occ. Rank:	Good		Presence:	Presumed Ex	tant	Site Last Seen:	2012-05-14
Occ. Type:	Natural/Native	occurrence	Trend:	Unknown		Record Last Updated:	2021-02-02
Quad Summary:	San Pedro (33	11863)					
County Summary:	Los Angeles						
Lat/Long:	33.72940 / -11	8.33958			Accuracy:	non-specific area	
UTM: 2	Zone-11 N373	2958 E375896			Elevation (ft):	200	
PLSS:	T05S, R14W, 3	Sec. 22 (S)			Acres:	522.0	
	BETWEEN MA PALOS VERD		THE N, THE O	CEAN TO THE	S & W, & THE CI	TY/CORP BOUNDRY TO TH	E E, RANCHO
I	POLYGONS, S		ILS HCP ('97-9			KLOS. UPDATED W/ 61 FWS ARK ('04), TRUMP NAT'L GC	
	VENETA, ENC		VIA MELLIFER	A; LESSER A		RIOGONUM FASCICULATUI DGONUM CINEREUM, MALO	
						85. '95: 3 PRS. POOR SURVI 5PRS. '06: 88 OBS. '12: 4 O	
		CHO PALOS VERDES					



California Department of Fish and Wildlife



Occurrence No. 55 Map Index: 01722 EO Index: 25112 Element Last Seen: 1980-XX-XX Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen:: 1980-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1980-XX-XX Quad Summary: Los Angeles Accuracy: 1 mile 1 1980-XX-XX Lat/Long: 33.99055 / -118.38285 Accuracy: 1 mile 1 1 UTN: Zone-11 N3761970 E372277 Elevation (ft): 200 1 1 Detailed Location: BALDWIN HILLS, VICINITY CULVER CITY. Elevation (ft): 200 1 1 Detailed Location: BALDWIN HILLS, VICINITY CULVER CITY. Elevation (ft): 2018-05-18 2018-05-18 Occurrence No. 108 Map Index: 01741 E0 Index: 29842 Element Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2018-05-18 Occ. Rank: Excellent Presence:								
Occ. Type: Natural/Native occurrence Tred: Unknown Record Last Updated: 1989-08-10 Quad Summary: Inglewood (3311883), Venice (3311884), Hollywood (3411813), Beverly Hills (3411814)	Occurrence No.	35	Map Index: 01722	EO Index:	25112		Element Last Seen:	1980-XX-XX
Oud Summary: Inglewood (3311883), Venice (3311884), Hollywood (3411813), Beverly Hills (3411814) County Summary: Los Angeles Lat/Long: 33.99055 / -118.38285 Accuracy: 1 mile UTM: Zone-11 N3761970 E372277 Elevation (ft): 200 PLSS: T02S, R14W, Sec. 18, SE (S) Acres: 0.0 Location: BALDWIN HILLS, VICINITY CULVER CITY. Detailed Location: Ecological: HABITAT IS COASTAL SAGE SCRUB, DOMINATED BY ARTEMISIA CALIFRONICA, ERIOGONUM FASCICULATUM, AND SALVIA MELLIFERA. General: ONE INDIVIDUAL OBSERVED; 1-3 PAIRS ESTIMATED. Owmer/Manager: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Tend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area UTM: Location: BOUNDED BY ABLONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. Suo SITE NAME PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA C	Occ. Rank:	Unknown		Presence:	Presumed Extai	nt	Site Last Seen:	1980-XX-XX
County Summary: Los Angeles Lat/Long: 33.99055 / -118.38285 Accuracy: 1 mile UTM: Zone-11 N3761970 E372277 Elevation (ft): 200 PLSS: T02S, R14W, Sec. 18, SE (S) Acres: 0.0 Location: BALDWIN HILLS, VICINITY CULVER CITY. Detailed Location: Ecological: HABITAT IS COASTAL SAGE SCRUB, DOMINATED BY ARTEMISIA CALIFRONICA, ERIOGONUM FASCICULATUM, AND SALVIA MELLIFERA. General: ONE INDIVIDUAL OBSERVED; 1-3 PAIRS ESTIMATED. Owner/Manager: UNKNOWN Occurrence No. 108 Map Index: 01741 EO Index: 29842 Element Last Seen: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 202-102-02 Quad Summary: Los Angeles Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area UTM: Zone-11 N3734739 E374504 Elevation (ft): 800 PLSS: T05S, R14W, Sec. 16 (S) Acres: 97.70 Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLI	Осс. Туре:	Natural/Nati	ve occurrence	Trend:	Unknown		Record Last Updated:	1989-08-10
Lat/Long: 33.99055 / -118.38285 Accuracy: 1 mile UTM: Zone-11 N3761970 E372277 Elevation (ft): 200 PLSS: T02S, R14W, Sec. 18, SE (S) Acres: 0.0 Location: BALDWIN HILLS, VICINITY CULVER CITY. Detailed Location: Ecological: HABITAT IS COASTAL SAGE SCRUB, DOMINATED BY ARTEMISIA CALIFRONICA, ERIOGONUM FASCICULATUM, AND SALVIA MELLIFERA. General: ONE INDIVIDUAL OBSERVED; 1-3 PAIRS ESTIMATED. Owner/Manager: UNKNOWN Occurrence No. 108 Map Index: 01741 EO Index: 29842 Element Last Seen: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: Los Angeles Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area UTM: Zone-11 N3734739 E374504 Elevation (ft): 800 PLSS: T05S, R14W, Sec. 16 (S) Acres: 87.0 Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. 2000 SITE N	Quad Summary:	Inglewood (3	3311883), Venice (3311884),	, Hollywood (34	11813), Beverly H	lills (3411814)		
UTM: Zone-11 N3761970 E372277 Elevation (ft): 200 PLSS: T02S, R14W, Sec. 18, SE (S) Acres: 0.0 Location: BALDWIN HILLS, VICINITY CULVER CITY. Detailed Location: Ecological: HABITAT IS COASTAL SAGE SCRUB, DOMINATED BY ARTEMISIA CALIFRONICA, ERIOGONUM FASCICULATUM, AND SALVIA MELLIFERA. General: OVE INDIVIDUAL OBSERVED; 1-3 PAIRS ESTIMATED. Owmer/Manager: UNKNOWN Occurrence No. 108 Map Index: 01741 EO Index: 29842 Element Last Seen: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Mative occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area UTM: Los Angeles Elevation (ft): 800 PLSS: T05S, R14W, Sec. 16 (S) Acres: 877.0 Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILORUM. 2006 SITE NAME PORTUG	County Summary:	Los Angeles	3					
PLSS: T02S, R14W, Sec. 18, SE (S) Acres: 0.0 Location: BALDWIN HILLS, VICINITY CULVER CITY. Detailed Location: Ecological: HABITAT IS COASTAL SAGE SCRUB, DOMINATED BY ARTEMISIA CALIFRONICA, ERIOGONUM FASCICULATUM, AND SALVIA MELLIFERA. General: ONE INDIVIDUAL OBSERVED; 1-3 PAIRS ESTIMATED. Owner/Manager: UNKNOWN Occurrence No. 108 Map Index: 01741 EO Index: 29842 Element Last Seen: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles Lat/Long: 33.74529 / -118.35486 Acres: 877.0 Record Last Updated: 2021-02-02 UTM: Zone-11 N3734739 E374504 Elevation (ft): 800 PLSS: Acres: 877.0 Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. Could SUIR DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOL	Lat/Long:	33.99055 / -	118.38285		A	ccuracy:	1 mile	
Location: BALDWIN HILLS, VICINITY CULVER CITY. Detailed Location: Ecological: HABITAT IS COASTAL SAGE SCRUB, DOMINATED BY ARTEMISIA CALIFRONICA, ERIOGONUM FASCICULATUM, AND SALVIA MELLIFERA. General: ONE INDIVIDUAL OBSERVED; 1-3 PAIRS ESTIMATED. Owner/Manager: UNKNOWN Occurrence No. 108 Map Index: 01741 EO Index: 29842 Element Last Seen: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area UTM: Zone-11 N3734739 E374504 Elevation (ft): 800 PLSS: TOSS, R14W, Sec. 16 (S) Acres: 877.0 Location: BOUNDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. Detailed Location: KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME PORTUGUESE	UTM:	Zone-11 N3	761970 E372277		E	levation (ft):	200	
Detailed Location: HABITAT IS COASTAL SAGE SCRUB, DOMINATED BY ARTEMISIA CALIFRONICA, ERIOGONUM FASCICULATUM, AND SALVIA MELLIFERA. General: ONE INDIVIDUAL OBSERVED; 1-3 PAIRS ESTIMATED. Owner/Manager: UNKNOWN Occurrence No. 108 Map Index: 01741 EO Index: 29842 Element Last Seen: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area Ilevation (ft): 800 PLSS: ToSS, R14W, Sec. 16 (S) Acres: 877.0 Ilevation (ft): 800 Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. VERDES PENINSULA. Detailed Location: KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. Doog SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE. Ecological: HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA.	PLSS:	T02S, R14V	V, Sec. 18, SE (S)		А	cres:	0.0	
Ecological: HABITAT IS COASTAL SAGE SCRUB, DOMINATED BY ARTEMISIA CALIFRONICA, ERIOGONUM FASCICULATUM, AND SALVIA MELLIFERA. General: ONE INDIVIDUAL OBSERVED; 1-3 PAIRS ESTIMATED. Owner/Manager: UNKNOWN Occurrence No. 108 Map Index: 01741 EO Index: 29842 Element Last Seen: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area UTM: Zone-11 N374739 E374504 Elevation (ft): 800 PLSS: TO5S, R14W, Sec. 16 (S) Acres: 877.0 Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE. Ecological: KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE. Ecological: KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCA	Location:	BALDWIN H	IILLS, VICINITY CULVER CI	TY.				
SALVIA MELLIFERA. General: ONE INDIVIDUAL OBSERVED; 1-3 PAIRS ESTIMATED. Owner/Manager: UNKNOWN Occurrence No. 108 Map Index: 01741 EO Index: 29842 Element Last Seen: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles Accuracy: non-specific area Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area Tots UTM: Zone-11 N3734739 E374504 Elevation (ft): 800 PLSS: Acres: 877.0 Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. Preserve: Ecological: HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG). General: HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX	Detailed Location:							
Owner/Manager: UNKNOWN Occurrence No. 108 Map Index: 01741 EO Index: 29842 Element Last Seen: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) Accuracy: non-specific area Image: Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area Image: Site Last Seen: Site Second Last Updated: Site	Ecological:			DOMINATED B	Y ARTEMISIA CA	LIFRONICA, E	RIOGONUM FASCICULATUI	M, AND
Occurrence No. 108 Map Index: 01741 EO Index: 29842 Element Last Seen: 2018-05-18 Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) Elevation (ft): 800 County Summary: Los Angeles Accuracy: non-specific area Tested (ft): 800 Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area Tested (ft): 800 PLSS: ToSS, R14W, Sec. 16 (S) Acres: 877.0 Second Verico V	General:	ONE INDIVI	DUAL OBSERVED; 1-3 PAIR	RS ESTIMATED	D.			
Occ. Rank: Excellent Presence: Presumed Extant Site Last Seen: 2018-05-18 Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) Record Last Updated: 2021-02-02 Quad Summary: Los Angeles Accuracy: non-specific area Image: Non-specific area Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area Image: Non-specific area UTM: Zone-11 N3734739 E374504 Elevation (ft): 800 PLSS: T05S, R14W, Sec. 16 (S) Acres: 877.0 Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. Zoon SITE NAME Detailed Location: KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE. Ecological: HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX OPEN SPACE PRESERVES (PVPLC.ORG). General: 1972: 2UNK. 80: 5PRS & 3INDIV, EST 15-25PRS. '90: 21INDIV, 5 TER.'91: 1PR.'92: 4INDIV. '93: 18PRS.'95: 11PRS.'96: 14PRS.'00: 2PRS. '06: 121INDIV. '09: 7PRS.'10: 11PRS.'11: 11PRS. '12: 12 INDIV.' 15: 5PRS. '18: 3INDIV.	Owner/Manager:	UNKNOWN						
Occ. Type: Natural/Native occurrence Trend: Stable Record Last Updated: 2021-02-02 Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles Lat/Long: 33.74529 / -118.35486 Accuracy: non-specific area UTM: Zone-11 N3734739 E374504 Elevation (ft): 800 PLSS: T05S, R14W, Sec. 16 (S) Acres: 877.0 Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. Detailed Location: KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE. Ecological: HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFICIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG). General: 1972: 2UNK. '80: 5PRS & 3INDIV, EST 15-25PRS. '90: 21INDIV, 5 TERR. '91: 1PR. '92: 4INDIV. '93: 18PRS. '95: 11PRS. '96: 14PRS. '00: 2PRS. '16: 121INDIV. '09: 7PRS. '10: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	Occurrence No.	108	Map Index: 01741	EO Index:	29842		Element Last Seen:	2018-05-18
Quad Summary: San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles Lat/Long: 33.74529 / -118.35486 Zone-11 N3734739 E374504 Accuracy: non-specific area UTM: Zone-11 N3734739 E374504 Elevation (ft): 800 PLSS: T05S, R14W, Sec. 16 (S) Acres: 877.0 Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. Detailed Location: KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE. Ecological: HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG). General: 1972: 2UNK. '80: 5PRS & 3INDIV, EST 15-25PRS. '90: 21INDIV, 5 TERR. '91: 1PR. '92: 4INDIV. '93: 18PRS. '95: 11PRS. '96: 14PRS. '00: 2PRS. '06: 121INDIV. '09: 7PRS. '10: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	Occ. Rank:	Excellent		Presence:	Presumed Exta	nt	Site Last Seen:	2018-05-18
County Summary:Los AngelesLat/Long:33.74529 / -118.35486Accuracy:non-specific areaUTM:Zone-11 N3734739 E374504Elevation (ft):800PLSS:T05S, R14W, Sec. 16 (S)Acres:877.0Location:BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA.BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA.Detailed Location:KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE.Secological:HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG).90: 21INDIV, 5 TERR. '91: 1PR. '92: 4INDIV. '93: 18PRS. '95: 11PRS. '96: 14PRS. '00: 2PRS. '06: 121INDIV. '09: 7PRS. '10: 11PRS. '11: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Stable		Record Last Updated:	2021-02-02
Lat/Long:33.74529 / -118.35486Accuracy:non-specific areaUTM:Zone-11 N3734739 E374504Elevation (ft):800PLSS:T05S, R14W, Sec. 16 (S)Acres:877.0Location:BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA.Detailed Location:KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE.Ecological:HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG).General:1972: 2UNK. '80: 5PRS & 3INDIV, EST 15-25PRS. '90: 21INDIV, 5 TERR. '91: 1PR. '92: 4INDIV. '93: 18PRS. '95: 11PRS. '96: 14PRS. '00: 2PRS. '06: 121INDIV. '09: 7PRS. '10: 11PRS. '11: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	Quad Summary:	San Pedro (3311863), Torrance (331187	3), Redondo Be	each (3311874)			
UTM:Zone-11 N3734739 E374504Elevation (ft):800PLSS:T05S, R14W, Sec. 16 (S)Acres:877.0Location:BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA.Detailed Location:KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE.Ecological:HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG).General:1972: 2UNK. '80: 5PRS & 3INDIV, EST 15-25PRS. '90: 21INDIV, 5 TERR. '91: 1PR. '92: 4INDIV. '93: 18PRS. '95: 11PRS. '96: 14PRS. '00: 2PRS. '06: 121INDIV. '09: 7PRS. '10: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	County Summary:	Los Angeles	3					
PLSS:T05S, R14W, Sec. 16 (S)Acres:877.0Location:BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA.Detailed Location:KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE.Ecological:HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG).General:1972: 2UNK. '80: 5PRS & 3INDIV, EST 15-25PRS. '90: 21INDIV, 5 TERR. '91: 1PR. '92: 4INDIV. '93: 18PRS. '95: 11PRS. '96: 14PRS. '00: 2PRS. '06: 121INDIV. '09: 7PRS. '10: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	Lat/Long:	33.74529 / -	118.35486		A	ccuracy:	non-specific area	
Location: BOUNDED BY ABALONE COVE, PORTUGUESE BEND, SAN PEDRO HILL, ROLLING HILLS, & ALTAMIRA CYN ON PALOS VERDES PENINSULA. Detailed Location: KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE. Ecological: HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG). General: 1972: 2UNK. '80: 5PRS & 3INDIV, EST 15-25PRS. '90: 21INDIV, 5 TERR. '91: 1PR. '92: 4INDIV. '93: 18PRS. '95: 11PRS. '96: 14PRS. '00: 2PRS. '06: 121INDIV. '09: 7PRS. '10: 11PRS. '11: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	UTM:	Zone-11 N3	734739 E374504		E	levation (ft):	800	
VERDES PENINSULA.Detailed Location:KLONDIKE CANYON IS CRITICAL TO SURVIVAL OF GNATCATCHERS ON PALOS VERDES PENINSULA. 2000 SITE NAME UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE.Ecological:HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG).General:1972: 2UNK. '80: 5PRS & 3INDIV, EST 15-25PRS. '90: 21INDIV, 5 TERR. '91: 1PR. '92: 4INDIV. '93: 18PRS. '95: 11PRS. '96: 14PRS. '00: 2PRS. '06: 121INDIV. '09: 7PRS. '10: 11PRS. '11: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	PLSS:	T05S, R14V	V, Sec. 16 (S)		А	cres:	877.0	
UPPER FILIORUM. 2006 SITE NAME PORTUGUESE BEND NATURE PRESERVE.Ecological:HABITAT: COASTAL SAGE SCRUB DOMINATED BY ARTEMISIA CALIFORNICA, ERIOGONUM FASCICULATUM, ATRIPLEX LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG).General:1972: 2UNK. '80: 5PRS & 3INDIV, EST 15-25PRS. '90: 21INDIV, 5 TERR. '91: 1PR. '92: 4INDIV. '93: 18PRS. '95: 11PRS. '96: 14PRS. '00: 2PRS. '06: 121INDIV. '09: 7PRS. '10: 11PRS. '11: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	Location:			UGUESE BENI	D, SAN PEDRO H	IILL, ROLLING	HILLS, & ALTAMIRA CYN OI	N PALOS
LENTIFORMIS, ENCELIA CALIFORNICA, RHUS INTEGRIFOLIA, AND SALVIA MELLIFERA. MANY AREAS NOW NATURE & OPEN SPACE PRESERVES (PVPLC.ORG).General:1972: 2UNK. '80: 5PRS & 3INDIV, EST 15-25PRS. '90: 21INDIV, 5 TERR. '91: 1PR. '92: 4INDIV. '93: 18PRS. '95: 11PRS. '96: 14PRS. '00: 2PRS. '06: 121INDIV. '09: 7PRS. '10: 11PRS. '11: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	Detailed Location:						ERDES PENINSULA. 2000 S	ITE NAME
14PRS. '00: 2PRS. '06: 121INDIV. '09: 7PRS. '10: 11PRS. '11: 11PRS. '12: 12 INDIV. '15: 5PRS. '18: 3INDIV.	Ecological:							
Owner/Manager: CITY OF RANCHO PALOS VERDES				RG).				
	General:	OPEN SPAC 1972: 2UNK	CE PRESERVES (PVPLC.OI ('80: 5PRS & 3INDIV, EST 1	15-25PRS. '90: 2	21INDIV, 5 TERR	. '91: 1PR. '92:		RS. '96:



California Department of Fish and Wildlife



Occurrence No.	450	Map Index: 24341	EO Index:	6520	Element Last Seen:	2020-01-28
Occ. Rank:	Good	•	Presence:	Presumed Extant	Site Last Seen:	2020-01-28
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Stable	Record Last Updated:	2020-12-10
Quad Summary:	Torrance (33	311873)				
County Summary:	Los Angeles	,				
Lat/Long:	33.77287 / -	118.30204		Accuracy:	non-specific area	
UTM:	Zone-11 N3	737734 E379435		Elevation (ft):	150	
PLSS:	T05S, R14W	/, Sec. 01 (S)		Acres:	274.0	
Location:	DEFENSE F	UEL SUPPLY POINT. SOU	TH OF PALOS	VERDES DRIVE N, & WEST OF	GAFFEY STREET. SAN PEL	DRO.
Detailed Location:	MAPPED TO ESTIMATED	D FWS DIGITAL POLYS, HI	STORICAL DAT PALOS VERDI	FA, & AVAIL. HABITAT IN AERIA ES PENINSULA POPULATION.	L IMAGES ('94, '07). IN 1993	SITE WAS
Ecological:	DISTURBED		HUMAN DISTU	TCH TO THE SOUTH IS DOMIN RBANCE. LAND USE INCLUDES		
General:				G, 2 ADULTS(?) OBS. 2003: MAY 1 JUV OBS. 2019: 1 PR W/ 3 JL		
Owner/Manager:	DOD-NAVY					
	DODINI					
Occurrence No.	891	Map Index: 71336	EO Index:	72239	Element Last Seen:	2006-04-21
		Map Index: 71336	EO Index: Presence:	72239 Presumed Extant	Element Last Seen: Site Last Seen:	2006-04-21 2012-05-22
Occurrence No.	891 Unknown	Map Index: 71336				
Occurrence No. Occ. Rank:	891 Unknown	ve occurrence	Presence:	Presumed Extant	Site Last Seen:	2012-05-22
Occurrence No. Occ. Rank: Occ. Type:	891 Unknown Natural/Nativ	ve occurrence 311873)	Presence:	Presumed Extant	Site Last Seen:	2012-05-22
Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	891 Unknown Natural/Nativ Torrance (33	ve occurrence 311873)	Presence:	Presumed Extant	Site Last Seen:	2012-05-22
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	891 Unknown Natural/Nativ Torrance (33 Los Angeles 33.76937 / -	ve occurrence 311873)	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	2012-05-22
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	891 Unknown Natural/Nation Torrance (33 Los Angeles 33.76937 / - Zone-11 N3	ve occurrence 311873) 118.37214	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: non-specific area	2012-05-22
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	891 Unknown Natural/Nation Torrance (33 Los Angeles 33.76937 / - Zone-11 N3 T05S, R14W ALONG IND	ve occurrence 311873) 118.37214 737431 E372940 V, Sec. 5, SE (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: non-specific area 1050 9.0	2012-05-22 2020-12-10
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	891 Unknown Natural/Nativ Torrance (33 Los Angeles 33.76937 / - Zone-11 N3 T05S, R14W ALONG IND RANCHO P	ve occurrence 311873) 5 118.37214 737431 E372940 V, Sec. 5, SE (S) NAN PEAK RD NORTHWES ALOS VERDES.	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: non-specific area 1050 9.0 RESERVE, PALOS VERDES	2012-05-22 2020-12-10
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	891 Unknown Natural/Natin Torrance (33 Los Angeles 33.76937 / - Zone-11 N3 T05S, R14W ALONG IND RANCHO P/ MAPPED AG CAGN OBSI TRAILS AND	ve occurrence 311873) 118.37214 737431 E372940 V, Sec. 5, SE (S) NAN PEAK RD NORTHWES ALOS VERDES. CCORDING TO MAP PROV ERVED IN STRIP OF COAS	Presence: Trend: T OF CRENSH IDED. SITE NA	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: AW BLVD, VISTA DEL NORTE F	Site Last Seen: Record Last Updated: non-specific area 1050 9.0 RESERVE, PALOS VERDES ROJECT SITE. OPEN SPACE PRESERVE V	2012-05-22 2020-12-10 HILLS,
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	891 Unknown Natural/Natin Torrance (33 Los Angeles 33.76937 / - Zone-11 N3 T05S, R14W ALONG IND RANCHO P, MAPPED AG CAGN OBSI TRAILS AND DEVELOPE 2 INDIVIDU/	ve occurrence 311873) 118.37214 737431 E372940 V, Sec. 5, SE (S) NAN PEAK RD NORTHWES ALOS VERDES. CCORDING TO MAP PROV ERVED IN STRIP OF COAS D SURROUNDED BY RESID D IN 2013-2015.	Presence: Trend: T OF CRENSH IDED. SITE NA IDED. SITE NA ITAL SAGE SCI DENTIAL AND O R 2006. 1 INDIV	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: AW BLVD, VISTA DEL NORTE F ME: CRESTRIDGE ESTATES PI RUB ALONG INDIAN PEAK RD. COMMERCIAL DEVELOPMENT.	Site Last Seen: Record Last Updated: non-specific area 1050 9.0 RESERVE, PALOS VERDES ROJECT SITE. OPEN SPACE PRESERVE V ADJACENT AREA SOUTH O	2012-05-22 2020-12-10 HILLS, VITH HIKING DF SITE WAS



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Occurrence No.	892	Map Index: 71337	EO Index:	72240		Element Last Seen:	1993-11-XX
Occ. Rank:	Unknown	·	Presence:	Presumed Extant		Site Last Seen:	1993-11-XX
Осс. Туре:	Natural/Nati	ve occurrence	Trend:	Unknown		Record Last Updated:	2021-02-16
Quad Summary:	Redondo Be	each (3311874)					
County Summary:	Los Angeles	3					
Lat/Long:	33.78269 / -	118.40507		Accu	iracy:	non-specific area	
UTM:	Zone-11 N3	738949 E369909		Eleva	ation (ft):	650	
PLSS:	T04S, R15V	V, Sec. 36 (S)		Acre	s:	15.0	
Location:	BETWEEN	VIA ZURITA & VIA CORONE	L, CORONEL	CANYON, PALOS VE	RDES PEN	INSULA.	
Detailed Location:	MAPPED TO	O PROVIDED MAP. LOCALI	TY: CORONEL	CANYON; REFEREN	NCE # 357.		
Ecological:	FROM 2007 CITY PARK		TO BE A REM	NANT PATCH (APPF	ROX. 10 AC	RES) OF COASTAL SAGE S	CRUB, NOW
General:	1 PAIR DET DETECTED	ECTED DURING FIELD WO BETWEEN FEB AND NOV	RK CONDUCT 1993. NEEDS N	ED BETWEEN DEC MODERN FIELD INVE	1979 - DEC ESTIGATIO	1980 IN WINTER, SPRING & N AND REPORTING.	& FALL. 1 PAIR
Owner/Manager:	CITY OF PA	ALOS VERDES ESTATES					
Occurrence No.	1031	Map Index: B6262	EO Index:	119312		Element Last Seen:	2011-02-14
Occ. Rank:	Good		Presence:	Presumed Extant		Site Last Seen:	2011-02-14
Осс. Туре:	Natural/Nati	ve occurrence	Trend:	Unknown		Record Last Updated:	2020-11-09
Quad Summary:	Venice (331	1884)					
County Summary:	Los Angeles	3					
Lat/Long:	33.97821 / -	118.4337		Accu	iracy:	80 meters	
UTM:	Zone-11 N3	760666 E367562		Eleva	ation (ft):	16	
PLSS:	T02S, R15V	V, Sec. 22, SE (S)		Acre	s:	5.0	
Location:	JUST NORT	TH OF LINCOLN BLVD AT C	LUVER BLVD,	BALLONA WETLAN	DS ECOLO	GICL RESERVE, MARINA DE	L REY.
Detailed Location:	ATTRIBUTE	D 1888 SPECIMEN COLLE	CTED FROM P	ORT BALLONA.			
Ecological:	BALLONA C		NG 1930S AND	HAS SINCE GROWI		IT. AREA RECIEVED FILL S COASTAL SCRUB. HOMEL	
General:	COLLECTE 2011.	D FROM THE VICINITY IN 1	888. 2 INDIVID	UALS OBSERVED A	ND HEARD	BETWEEN 23 OCT 2010 AM	ID 14 FEB
Owner/Manager:	DFG-BALLC	ONA WETLANDS ER					



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Occurrence No.	1032	Map Index: B6263	EO Index:	119313	Element Last Seen:	2011-03-18
Occ. Rank:	Good		Presence:	Presumed Extant	Site Last Seen:	2011-03-18
Осс. Туре:	Natural/Nati	ive occurrence	Trend:	Unknown	Record Last Updated:	2020-11-09
Quad Summary:	Venice (331	1884)				
County Summary:	Los Angeles	8				
Lat/Long:	33.97389 / -	-118.43598		Accuracy:	80 meters	
UTM:	Zone-11 N3	760190 E367345		Elevation (ft):	14	
PLSS:	T02S, R15V	V, Sec. 27, NE (S)		Acres:	5.0	
Location:	JUST SOUT	THWEST OF LINCOLN BLVD	O AT CLUVER E	BLVD, BALLONA WETLANDS E	COLOGICL RESERVE, MARI	NA DEL REY.
Detailed Location:	ATTRIBUTE	ED 1888 SPECIMEN COLLEC	CTED FROM P	ORT BALLONA.		
Ecological:	MARINA/CO			GEBRUSH. OPEN SPACE PRES ORICALLY RECIEVED FILL DUI		ONA CREEK
General:	COLLECTE	D FROM THE VICINITY IN 1	888. 1 INDIVID	UAL OBSERVED ON 18 MAR 2	011.	
Owner/Manager:	DFG-BALLC	ONA WETLANDS ER				
Occurrence No.	1022	Man Index: DC2C4	EO Index:	119314		
	1033	Map Index: B6264	EO Index:	119314	Element Last Seen:	2013-05-22
Occ. Rank:	Fair	Map Index: Do204	Presence:	Presumed Extant	Element Last Seen: Site Last Seen:	2013-05-22 2013-05-22
Occ. Rank: Occ. Type:	Fair	ive occurrence				
	Fair	ve occurrence	Presence:	Presumed Extant	Site Last Seen:	2013-05-22
Осс. Туре:	Fair Natural/Nati	ive occurrence 1884)	Presence:	Presumed Extant	Site Last Seen:	2013-05-22
Occ. Type: Quad Summary:	Fair Natural/Nati Venice (331	ve occurrence 1884) s	Presence:	Presumed Extant	Site Last Seen:	2013-05-22
Occ. Type: Quad Summary: County Summary:	Fair Natural/Nati Venice (331 Los Angeles 33.93889 / -	ve occurrence 1884) s	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	2013-05-22
Occ. Type: Quad Summary: County Summary: Lat/Long:	Fair Natural/Nati Venice (331 Los Angeles 33.93889 / - Zone-11 N3	ive occurrence 1884) s -118.43566	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: non-specific area	2013-05-22
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Fair Natural/Nati Venice (331 Los Angeles 33.93889 / - Zone-11 N3 T03S, R15V	ve occurrence 1884) s 118.43566 1756308 E367320 V, Sec. 3, E (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: non-specific area 151 93.0	2013-05-22
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Fair Natural/Nati Venice (331 Los Angeles 33.93889 / - Zone-11 N3 T03S, R15V	ve occurrence 1884) s 118.43566 1756308 E367320 V, Sec. 3, E (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: non-specific area 151 93.0	2013-05-22
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Fair Natural/Nati Venice (331 Los Angeles 33.93889 / - Zone-11 N3 T03S, R15V EL SEGUNI COASTAL E FOURWING	ive occurrence 1884) s -118.43566 756308 E367320 V, Sec. 3, E (S) DO DUNES ESHA, JUST WE	Presence: Trend: EST OF THE LO RED DUNE LUP RED BY AIRPO	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: DS ANGELES INTERNATIONAL INE, MOCK HEATHER, BLADDI RT, THE OCEAN, RESIDENTIA	Site Last Seen: Record Last Updated: non-specific area 151 93.0 AIRPORT. ERPOD, BUSH SUNFLOWER	2013-05-22 2020-10-13
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Fair Natural/Nati Venice (331 Los Angeles 33.93889 / - Zone-11 N3 T03S, R15V EL SEGUNI COASTAL D FOURWING COMPLEX. 3 MALES A	ive occurrence 1884) 5 118.43566 1756308 E367320 V, Sec. 3, E (S) DO DUNES ESHA, JUST WE DUNE DOMINATED BY SILV 5 SALTBUSH. SITE BORDEF NETWORK OF ROADS FRA	Presence: Trend: EST OF THE LO RED DUNE LUP RED BY AIRPO AGMENTS DUN	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: DS ANGELES INTERNATIONAL INE, MOCK HEATHER, BLADDI RT, THE OCEAN, RESIDENTIA	Site Last Seen: Record Last Updated: non-specific area 151 93.0 AIRPORT. ERPOD, BUSH SUNFLOWER L DEVELOPMENT, AND IND	2013-05-22 2020-10-13 R, AND USTRIAL



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Occurrence No.	1037	Map Index: B6682	EO Index:	119742	Element Last Seen:	2019-03-01
Occ. Rank:	Fair		Presence:	Presumed Extant	Site Last Seen:	2019-03-01
Осс. Туре:	Natural/Nat	ive occurrence	Trend:	Unknown	Record Last Updated:	2020-12-10
Quad Summary:	Torrance (3	311873)				
County Summary:	Los Angeles	S				
Lat/Long:	33.7796 / -1	18.33624		Accuracy:	specific area	
UTM:	Zone-11 N3	3738521 E376279		Elevation (ft):	389	
PLSS:	T05S, R14V	N, Sec. 3, NW (S)		Acres:	8.0	
Location:	LINDEN H.	CHANDLER PRESERVE, B	ENT SPRINGS	CANYON, ROLLING HILLS EST	ATES.	
Detailed Location:						
Ecological:				AL SAGE SCRUB. OPEN SPAC DBY RESIDENTIAL DEVELOPM		/HORSE
General:				MALE OBSERVED TOGETHER ARD CALLING AND THEN SEE		CALLING ON
0		OLLING HILLS ESTATES				
Owner/Manager:		OLLING TILLS ESTATES				
Owner/Manager: Occurrence No.	1038	Map Index: B6698	EO Index:	119755	Element Last Seen:	2019-07-08
-			EO Index: Presence:	119755 Presumed Extant	Element Last Seen: Site Last Seen:	2019-07-08 2019-07-08
Occurrence No.	1038 Excellent					
Occurrence No. Occ. Rank:	1038 Excellent	Map Index: B6698	Presence:	Presumed Extant	Site Last Seen:	2019-07-08
Occurrence No. Occ. Rank: Occ. Type:	1038 Excellent Natural/Nati	Map Index: B6698 ive occurrence (3311863)	Presence:	Presumed Extant	Site Last Seen:	2019-07-08
Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	1038 Excellent Natural/Nati	Map Index: B6698 ive occurrence (3311863) s	Presence:	Presumed Extant	Site Last Seen:	2019-07-08
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	1038 Excellent Natural/Nati San Pedro (Los Angeles 33.71801 / -	Map Index: B6698 ive occurrence (3311863) s	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	2019-07-08
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	1038 Excellent Natural/Nati San Pedro Los Angeles 33.71801 / - Zone-11 N3	Map Index: B6698 ive occurrence (3311863) s -118.31483	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: non-specific area	2019-07-08
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	1038 Excellent Natural/Nati San Pedro Los Angeles 33.71801 / - Zone-11 N3 T05S, R14V	Map Index: B6698 ive occurrence (3311863) s -118.31483 3731666 E378175 N, Sec. 26, E (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: non-specific area 165 95.0	2019-07-08 2020-12-11
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	1038 Excellent Natural/Nati San Pedro Los Angeles 33.71801 / - Zone-11 N3 T05S, R14V	Map Index: B6698 ive occurrence (3311863) s -118.31483 3731666 E378175 N, Sec. 26, E (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: non-specific area 165 95.0	2019-07-08 2020-12-11
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	1038 Excellent Natural/Nati San Pedro (Los Angeles 33.71801 / - Zone-11 N3 T05S, R14V WHITE POI COASTAL S	Map Index: B6698 ive occurrence (3311863) s -118.31483 3731666 E378175 N, Sec. 26, E (S) INT NATURE RESERVE, S N SAGE SCRUB AND NON-NA 0.005 ACRES OF RESTOR	Presence: Trend: WESTERN AVE	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: non-specific area 165 95.0 SECTION, SOUTH OF SAN F	2019-07-08 2020-12-11 PEDRO. DEL MAR AND
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	1038 Excellent Natural/Nati San Pedro (Los Angeles 33.71801 / - Zone-11 N3 T05S, R14W WHITE POI COASTAL S IMPACTED IN 2013-20 2 PAIRS OF	Map Index: B6698 ive occurrence (3311863) s -118.31483 3731666 E378175 N, Sec. 26, E (S) INT NATURE RESERVE, S N SAGE SCRUB AND NON-NA 0.005 ACRES OF RESTOR 15. 3SERVED IN 2013; 1 PAIR F EDGLINGS. 2 PAIRS (1 WITH	Presence: Trend: WESTERN AVE ATIVE GRASSL ED COASTAL S FLEDGED 4 CH	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: AT W PASEO DEL MAR INTER AND. LANDSLIDE IN 2011 COLI	Site Last Seen: Record Last Updated: non-specific area 165 95.0 SECTION, SOUTH OF SAN F LAPSED ADJACENT PASEO REPAIR AND DE-WATERING	2019-07-08 2020-12-11 PEDRO. DEL MAR AND OCCURRED AIR OBS WITH



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Occurrence No.	1045	Map Index: 01700	EO Index:	119808		Element Last Seen:	1904-10-15
Occ. Rank:	None		Presence:	Possibly Exti	irpated	Site Last Seen:	1904-10-15
Осс. Туре:	Natural/Nat	tive occurrence	Trend:	Unknown		Record Last Updated:	2020-12-17
Quad Summary:	Torrance (3	3311873), Redondo Beach (3	311874)				
County Summary:	Los Angele	s, Pacific Ocean					
Lat/Long:	33.82921 /	-118.39056			Accuracy:	1 mile	
UTM:	Zone-11 N	3744088 E371323			Elevation (ft):	50	
PLSS:	T04S, R14	W, Sec. 18 (S)			Acres:	0.0	
Location:	VICINITY C	OF REDONDO BEACH					
Detailed Location:	GIVEN LO	CATIONS "REDONDO" AND	"REDONDO BE	ACH VIC", EX	ACT LOCATIONS	UNKNOWN.	
Ecological:							
General:	===	OULT COLLECTED ON 17 DI DEVELOPED, LIKELY EXTRI		E AND 1 FEM	ALE COLLECTED	ON 15 OCT 1904. AREA HA	S BEEN
Owner/Manager:	UNKNOWN	١					



California Department of Fish and Wildlife



Vireo bellii pus least Bell's vireo	sillus					Elemer	nt Code: ABPE	3W01114
Listing Status:	Federal:	Endangered		CNDD	DB Element Ranks	s: Global:	G5T2	
	State:	Endangered				State:	S2	
	Other:	IUCN_NT-Near Threatened	I, NABCI_YWL-Y	ellow Watch Lis	it			
Habitat:	General:	SUMMER RESIDENT OF S BOTTOMS; BELOW 2000 F		IFORNIA IN LO	W RIPARIAN IN V	ICINITY OF	WATER OR IN	DRY RIVER
	Micro:	NESTS PLACED ALONG N WILLOW, BACCHARIS, ME		JSHES OR ON 1	TWIGS PROJECT	ING INTO PA	ATHWAYS, USI	UALLY
Occurrence No.	561	Map Index: 91988	EO Index:	93062		Element	Last Seen:	1895-05-23
Occ. Rank:	None		Presence:	Possibly Extirp	pated	Site Last	Seen:	1895-05-23
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record L	ast Updated:	2014-04-07
Quad Summary:	South Gat	e (3311882), Inglewood (331	1883)					
County Summary:	Los Angele	es						
Lat/Long:	33.97502	/ -118.25006			Accuracy:	1 mile		
UTM:	Zone-11 N	3760090 E384522			Elevation (ft):	150		
PLSS:	T02S, R13	3W, Sec. 21 (S)			Acres:	0.0		
Location:	FLORENC	E, WEST OF HUNTINGTON	PARK.					
Detailed Leastion.	EVACTIC			Y AS BEST GUE	ESS TO PROVIDE			ON OF
Detailed Location:		CE" IN LOS ANGELES COUN			APPED TO FLORE	INCE POST	OFFICE.	
Ecological:	"FLOREN	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEVI	NTY. MORE SPE	ECIFICALLY, MA				Y LOCALLY
	"FLOREN MAJORIT` EXTIRPAT	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEVI	NTY. MORE SPE ELOPED (AERIA	ECIFICALLY, MA AL PHOTOS 199	94-2013), LEAST E	BELL'S VIRE		Y LOCALLY
Ecological:	"FLOREN MAJORIT` EXTIRPAT	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEV TED. N NUMBER OF EGGS COLL	NTY. MORE SPE ELOPED (AERIA	ECIFICALLY, MA AL PHOTOS 199	94-2013), LEAST E	BELL'S VIRE		Y LOCALLY
Ecological: General:	"FLOREN(MAJORIT EXTIRPAT UNKNOW	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEV TED. N NUMBER OF EGGS COLL	NTY. MORE SPE ELOPED (AERIA	ECIFICALLY, MA AL PHOTOS 199	94-2013), LEAST E	BELL'S VIRE(2 #115592).		Y LOCALLY 2010-10-16
Ecological: General: Owner/Manager:	"FLOREN(MAJORIT" EXTIRPAT UNKNOW UNKNOW	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEV IED. N NUMBER OF EGGS COLL N	NTY. MORE SPE ELOPED (AERI/ ECTED ON 23 N	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V.	94-2013), LEAST E .W. OWEN (WFVZ	BELL'S VIRE(2 #115592).	O IS PROBABL	
Ecological: General: Owner/Manager: Occurrence No.	"FLORENG MAJORIT" EXTIRPAT UNKNOW UNKNOW 563 Good	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEV IED. N NUMBER OF EGGS COLL N	NTY. MORE SPE ELOPED (AERIA ECTED ON 23 N EO Index:	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V. 93076	94-2013), LEAST E .W. OWEN (WFVZ	BELL'S VIRE(#115592). Element Site Last	O IS PROBABL	2010-10-16
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	"FLORENG MAJORIT" EXTIRPAT UNKNOW UNKNOW 563 Good	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEV TED. N NUMBER OF EGGS COLL N Map Index: 92003	NTY. MORE SPE ELOPED (AERI/ ECTED ON 23 N EO Index: Presence:	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V. 93076 Presumed Ext	94-2013), LEAST E .W. OWEN (WFVZ	BELL'S VIRE(#115592). Element Site Last	O IS PROBABL Last Seen: Seen:	2010-10-16 2014-04-03
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	"FLOREN MAJORIT EXTIRPAT UNKNOW UNKNOW 563 Good Natural/Na	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEV TED. N NUMBER OF EGGS COLL N Map Index: 92003 ative occurrence	NTY. MORE SPE ELOPED (AERI/ ECTED ON 23 N EO Index: Presence:	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V. 93076 Presumed Ext	94-2013), LEAST E .W. OWEN (WFVZ	BELL'S VIRE(#115592). Element Site Last	O IS PROBABL Last Seen: Seen:	2010-10-16 2014-04-03
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	"FLORENG MAJORIT" EXTIRPAT UNKNOW UNKNOW 563 Good Natural/Na Venice (33 Los Angele	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEV TED. N NUMBER OF EGGS COLL N Map Index: 92003 ative occurrence	NTY. MORE SPE ELOPED (AERI/ ECTED ON 23 N EO Index: Presence:	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V. 93076 Presumed Ext Unknown	94-2013), LEAST E .W. OWEN (WFVZ	BELL'S VIRE(#115592). Element Site Last	O IS PROBABL Last Seen: Seen: .ast Updated:	2010-10-16 2014-04-03
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	"FLORENG MAJORIT" EXTIRPAT UNKNOW UNKNOW 563 Good Natural/Na Venice (33 Los Angele 33.96851 /	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEVI TED. N NUMBER OF EGGS COLL N Map Index: 92003 ative occurrence	NTY. MORE SPE ELOPED (AERI/ ECTED ON 23 N EO Index: Presence:	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V. 93076 Presumed Ext Unknown	94-2013), LEAST E .W. OWEN (WFVZ tant	BELL'S VIRE(#115592). Element Site Last Record L	O IS PROBABL Last Seen: Seen: .ast Updated:	2010-10-16 2014-04-03
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	"FLORENG MAJORIT" EXTIRPAT UNKNOW UNKNOW 563 Good Natural/Na Venice (33 Los Angela 33.96851 / Zone-11 N	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEVI TED. N NUMBER OF EGGS COLL N Map Index: 92003 Ative occurrence 311884) es	NTY. MORE SPE ELOPED (AERI/ ECTED ON 23 N EO Index: Presence:	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V. 93076 Presumed Ext Unknown	94-2013), LEAST E .W. OWEN (WFVZ tant Accuracy:	BELL'S VIRE(#115592). Element Site Last Record L	O IS PROBABL Last Seen: Seen: .ast Updated:	2010-10-16 2014-04-03
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	"FLORENG MAJORIT" EXTIRPAT UNKNOW UNKNOW 563 Good Natural/Na Venice (33 Los Angele 33.96851 / Zone-11 N T02S, R15 ALONG D	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEVI TED. N NUMBER OF EGGS COLL N Map Index: 92003 Ative occurrence 311884) es Y -118.42325 13759578 E368511	NTY. MORE SPE ELOPED (AERIA ECTED ON 23 N EO Index: Presence: Trend:	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V. 93076 Presumed Ext Unknown	94-2013), LEAST E W. OWEN (WFVZ tant Accuracy: Elevation (ft): Acres:	BELL'S VIRE #115592). Element Site Last Record L specific area 15 24.0	D IS PROBABL Last Seen: Seen: .ast Updated: a	2010-10-16 2014-04-03 2014-04-29
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	"FLORENG MAJORIT" EXTIRPAT UNKNOW UNKNOW 563 Good Natural/Na Venice (33 Los Angele 33.96851 / Zone-11 N T02S, R15 ALONG D BALLONA SITE PAR NESTS CO	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEVI TED. N NUMBER OF EGGS COLL N Map Index: 92003 Ative occurrence 311884) es Y -118.42325 13759578 E368511 SW, Sec. 26, W (S) RAINAGE ON EITHER SIDE	NTY. MORE SPE ELOPED (AERIA ECTED ON 23 M EO Index: Presence: Trend: OF LINCOLN BI	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V. 93076 Presumed Ext Unknown	94-2013), LEAST E W. OWEN (WFVZ tant Accuracy: Elevation (ft): Acres: BLUFF CREEK D	ELL'S VIRE #115592). Element Site Last Record L specific are 15 24.0 R & LMU DR	D IS PROBABL Last Seen: Seen: .ast Updated: a , E OF MARIN/ ES. IT IS LIKEL	2010-10-16 2014-04-03 2014-04-29 A DEL REY, Y THAT THE
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	"FLORENG MAJORIT" EXTIRPAT UNKNOW UNKNOW 563 Good Natural/Na Venice (33 Los Angele 33.96851 Zone-11 N T02S, R15 ALONG D BALLONA SITE PAR NESTS CO HAVE FLE HABITAT NEST WA	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEVI TED. N NUMBER OF EGGS COLL N Map Index: 92003 Ative occurrence A11884) es Y -118.42325 I3759578 E368511 SW, Sec. 26, W (S) RAINAGE ON EITHER SIDE WETLANDS. T OF THE BALLONA FRESH DULECTED IN OCT (WFVZ #	NTY. MORE SPE ELOPED (AERIA ECTED ON 23 M EO Index: Presence: Trend: OF LINCOLN BI WATER WETLA 183510-11) WEI ON IN 2008. D RIPARIAN ARI SYCAMORE TR	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V. 93076 Presumed Ext Unknown LVD BETWEEN ANDS. MAPPED RE THOSE FOU EA. WATER WA	A-2013), LEAST E W. OWEN (WFVZ tant Accuracy: Elevation (ft): Acres: BLUFF CREEK D TO PROVIDED C JND IN MAY. 1 FE S PRESENT DUR	ELL'S VIRE #115592). Element Site Last Record L specific are 15 24.0 R & LMU DR COORDINATE MALE WAS I	D IS PROBABL	2010-10-16 2014-04-03 2014-04-29 A DEL REY, Y THAT THE ESUMED TO ABANDONED
Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	"FLORENG MAJORIT" EXTIRPAT UNKNOW UNKNOW 563 Good Natural/Na Venice (33 Los Angele 33.96851 Zone-11 N T02S, R15 ALONG D BALLONA SITE PAR NEST SC HAVE FLE HABITAT NEST WA SI ADULTS PRODUCE	CE" IN LOS ANGELES COUN Y OF AREA HAS BEEN DEVI TED. N NUMBER OF EGGS COLL N Map Index: 92003 Ative occurrence 311884) es 7-118.42325 13759578 E368511 5W, Sec. 26, W (S) RAINAGE ON EITHER SIDE WETLANDS. T OF THE BALLONA FRESH DLLECTED IN OCT (WFVZ # EDGED AT CAMP PENDLET CONSISTED OF RESTOREE S LOCATED IN A PLANTED	NTY. MORE SPE ELOPED (AERIA ECTED ON 23 M EO Index: Presence: Trend: OF LINCOLN BI WATER WETLA 183510-11) WEI ON IN 2008. D RIPARIAN ARI SYCAMORE TR REA WITH WILLO MAY-JUL 2010 STS. 1 TERRITO	ECIFICALLY, MA AL PHOTOS 199 MAY 1895 BY V. 93076 Presumed Ext Unknown LVD BETWEEN ANDS. MAPPED RE THOSE FOU EA. WATER WA REE, NEW NEST OWS. ; 1ST NEST COI DRIAL MALE AL	A-2013), LEAST E W. OWEN (WFVZ tant Accuracy: Elevation (ft): Acres: BLUFF CREEK D TO PROVIDED C JND IN MAY. 1 FE S PRESENT DUR T WAS CONSTRU	ELL'S VIREG #115592). Element Site Last Record L specific area 15 24.0 R & LMU DR COORDINATE MALE WAS I MALE WAS I ING THE SU CTED IN A P	D IS PROBABL	2010-10-16 2014-04-03 2014-04-29 A DEL REY, Y THAT THE ESUMED TO ABANDONED ER. ANOTHER S WERE



California Natural Diversity Database



		sis beldingi			Element Code: ABP	вх99015
Belding's savann	•	News				
Listing Status:		None		CNDDB Element Ran		
	State:	Endangered			State: S3	
	Other:					
Habitat:	General:			OM SANTA BARBARA SOUTH	THROUGH SAN DIEGO CO	UNTY.
	Micro:			MARGINS OF TIDAL FLATS.		
Occurrence No.	7	Map Index: 01492	EO Index:	14649	Element Last Seen:	2001-05-09
Occ. Rank:	Fair		Presence:	Presumed Extant	Site Last Seen:	2001-05-09
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Decreasing	Record Last Updated:	2012-12-10
Quad Summary:	Venice (33	311884)				
County Summary:	Los Angele	es				
Lat/Long:	33.96411 /	/ -118.44601		Accuracy:	non-specific area	
UTM:	Zone-11 N	J3759118 E366401		Elevation (ft):	5	
PLSS:	T02S, R15	5W, Sec. 27, SW (S)		Acres:	108.0	
Location:	MOUTH C		EEN MARINA DI	EL REY ON THE NORTH & DEL	REY BLUFFS ON THE SOL	JTH.
Detailed Location:	1991: ALL INLAND F	TERRITORIES FOUND IN N	ON-TIDALLY IN	FLUENCED AREA ADJACENT VETLAND BETWEEN CULVER B	TO THE CHANNELIZED BAI	LLONA CREEK,
Ecological:	101 HA SA	ALTMARSH WITH LITTLE TID		E. SOME OF THE PICKLEWEED ND ACTIVE PREDATOR MANAG		ESTORATION
General:	POPULAT		RS; 1977: 37 PI	RS; 1979: 21 PRS; 1980: 18 PRS		RS; 1987: 29-30
Owner/Manager:	DFG-BALI	LONA WETLANDS ER				
Occurrence No.	37	Map Index: 01504	EO Index:	14647	Element Last Seen:	1981-XX-XX
Occ. Rank:	None		Presence:	Extirpated	Site Last Seen:	1981-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2012-12-10
Quad Summary:	N/2011 100					
•	venice (35	311884)				
County Summary:	Los Angele	,				
	Los Angele	es		Accuracy:	non-specific area	
Lat/Long:	Los Angele	es / -118.43992		Accuracy: Elevation (ft):	non-specific area	
Lat/Long: UTM:	Los Angele 33.97373 / Zone-11 N	es / -118.43992 \3760177 E366979		Elevation (ft):	15	
Lat/Long: UTM: PLSS:	Los Angele 33.97373 / Zone-11 N T02S, R15 BALLONA	es / -118.43992 \3760177 E366979 5W, Sec. 27, N (S) \ WETLANDS AREA. PARCEL	- BOUNDED ON		15 128.0	RTH & WEST BY
County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Los Angele 33.97373 / Zone-11 N T02S, R15 BALLONA FIJI WAY.	es / -118.43992 /3760177 E366979 5W, Sec. 27, N (S) / WETLANDS AREA. PARCEL		Elevation (ft): Acres:	15 128.0 BY BALLONA CRK, ON NOF	
Lat/Long: UTM: PLSS: Location: Detailed Location:	Los Angele 33.97373 / Zone-11 N T02S, R15 BALLONA FIJI WAY. AREA A. S SUBSEQU PROPOSE	es / -118.43992 J3760177 E366979 5W, Sec. 27, N (S) A WETLANDS AREA. PARCEL SMALL BREEDING POPULAT JENT TO 1987 THIS POPULA	TIONS IN HOMO	Elevation (ft): Acres:	15 128.0 BY BALLONA CRK, ON NOF ORNIA THROUGHOUT THI INVADED BY UPLAND PLA	S PARCEL. ANTS AND IS
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological:	Los Angele 33.97373 / Zone-11 N T02S, R15 BALLONA FIJI WAY. AREA A. S SUBSEQU PROPOSE	es / -118.43992 J3760177 E366979 5W, Sec. 27, N (S) A WETLANDS AREA. PARCEL SMALL BREEDING POPULAT JENT TO 1987 THIS POPULA ED FOR DEVELOPMENT (198	TIONS IN HOMO	Elevation (ft): Acres:	15 128.0 BY BALLONA CRK, ON NOF ORNIA THROUGHOUT THI INVADED BY UPLAND PLA	S PARCEL. ANTS AND IS
Lat/Long: UTM: PLSS:	Los Angele 33.97373 / Zone-11 N T02S, R15 BALLONA FIJI WAY. AREA A. S SUBSEQU PROPOSE ECOLOGI	es / -118.43992 J3760177 E366979 5W, Sec. 27, N (S) A WETLANDS AREA. PARCEL SMALL BREEDING POPULAT JENT TO 1987 THIS POPULA ED FOR DEVELOPMENT (198	TIONS IN HOMO	Elevation (ft): Acres:	15 128.0 BY BALLONA CRK, ON NOF ORNIA THROUGHOUT THI INVADED BY UPLAND PLA	S PARCEL. ANTS AND IS
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager:	Los Angele 33.97373 / Zone-11 N T02S, R15 BALLONA FIJI WAY. AREA A. S SUBSEQL PROPOSE ECOLOGI DFG-BALL	es / -118.43992 /3760177 E366979 5W, Sec. 27, N (S) A WETLANDS AREA. PARCEL SMALL BREEDING POPULAT JENT TO 1987 THIS POPULA ED FOR DEVELOPMENT (198 ICAL RESERVE.	TIONS IN HOMO	Elevation (ft): Acres:	15 128.0 BY BALLONA CRK, ON NOF ORNIA THROUGHOUT THI INVADED BY UPLAND PLA	S PARCEL. ANTS AND IS DS
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager:	Los Angele 33.97373 / Zone-11 N T02S, R15 BALLONA FIJI WAY. AREA A. S SUBSEQL PROPOSE ECOLOGI DFG-BALL	es / -118.43992 /3760177 E366979 5W, Sec. 27, N (S) A WETLANDS AREA. PARCEL SMALL BREEDING POPULAT JENT TO 1987 THIS POPULA ED FOR DEVELOPMENT (198 ICAL RESERVE.	TIONS IN HOMO	Elevation (ft): Acres:	15 128.0 BY BALLONA CRK, ON NOF ORNIA THROUGHOUT THI INVADED BY UPLAND PLA F THE BALLONA WETLAN	S PARCEL. ANTS AND IS DS
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Agelaius tricolo	Los Angele 33.97373 / Zone-11 N T02S, R15 BALLONA FIJI WAY. AREA A. S SUBSEQU PROPOSE ECOLOGI DFG-BALL	es / -118.43992 /3760177 E366979 5W, Sec. 27, N (S) A WETLANDS AREA. PARCEL SMALL BREEDING POPULAT JENT TO 1987 THIS POPULA ED FOR DEVELOPMENT (198 ICAL RESERVE.	TIONS IN HOMO	Elevation (ft): Acres:	15 128.0 BY BALLONA CRK, ON NOF ORNIA THROUGHOUT THI INVADED BY UPLAND PLA F THE BALLONA WETLAND Element Code: ABP	S PARCEL. ANTS AND IS DS
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Agelaius tricolo	Los Angele 33.97373 / Zone-11 N T02S, R15 BALLONA FIJI WAY. AREA A. S SUBSEQU PROPOSE ECOLOGI DFG-BALL	es / -118.43992 /3760177 E366979 5W, Sec. 27, N (S) A WETLANDS AREA. PARCEL SMALL BREEDING POPULAT JENT TO 1987 THIS POPULAT ED FOR DEVELOPMENT (198 ICAL RESERVE.	TIONS IN HOMO	Elevation (ft): Acres: NEAST BY HWY 1, ON SOUTH I OGENEOUS STANDS OF SALIC FIRPATED. THIS AREA IS NOW ATELY OWNED; NOW PART C	15 128.0 BY BALLONA CRK, ON NOF ORNIA THROUGHOUT THI INVADED BY UPLAND PLA F THE BALLONA WETLAND Element Code: ABP	S PARCEL. ANTS AND IS DS

Commercial Version -- Dated February, 28 2021 -- Biogeographic Data Branch



California Department of Fish and Wildlife



Habitat:	General:	HIGHLY COLONIAL SPECI CALIFORNIA.	ES, MOST NUM	MEROUS IN CE	ENTRAL VALLEY	& VICINITY. LARGELY ENDE	MIC TO
	Micro:	REQUIRES OPEN WATER WITHIN A FEW KM OF THE		NESTING SUE	STRATE, AND FO	DRAGING AREA WITH INSEC	CT PREY
Occurrence No.	275	Map Index: 24342	EO Index:	6521		Element Last Seen:	198X-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed E	xtant	Site Last Seen:	198X-XX-XX
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown		Record Last Updated:	1993-10-07
Quad Summary:	Torrance (3311873)					
County Summary:	Los Angele	es					
Lat/Long:	33.78603 /	-118.28988			Accuracy:	2/5 mile	
UTM:	Zone-11 N	3739179 E380580			Elevation (ft):	20	
PLSS:	T04S, R13	W (S)			Acres:	0.0	
Location:	HARBOR I	LAKE, IN THE SAN PEDRO A	AREA OF LOS A	ANGELES.			
Detailed Location:							
Ecological:	NESTING	SUBSTRATE IS REEDS.					
General:	SUCCESS	FUL NESTING INDICATED E	BY THE PRESE	NCE OF FLED	GED YOUNG JUS	ST OUT OF THE NEST.	
General: Owner/Manager:	SUCCESS		BY THE PRESE	NCE OF FLED	GED YOUNG JUS	ST OUT OF THE NEST.	
			BY THE PRESE	NCE OF FLED	GED YOUNG JUS	ST OUT OF THE NEST.	198X-XX-XX
Owner/Manager:	UNKNOW	Ν					198X-XX-XX 198X-XX-XX
Owner/Manager: Occurrence No.	UNKNOWI 332 Unknown	Ν	EO Index:	32179		Element Last Seen:	
Owner/Manager: Occurrence No. Occ. Rank:	UNKNOWI 332 Unknown	N Map Index: 39583 tive occurrence	EO Index: Presence:	32179 Presumed E		Element Last Seen: Site Last Seen:	198X-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	UNKNOWI 332 Unknown Natural/Na Torrance (2010	Map Index: 39583 tive occurrence 3311873)	EO Index: Presence:	32179 Presumed E		Element Last Seen: Site Last Seen:	198X-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	UNKNOWI 332 Unknown Natural/Na Torrance (Los Angele	Map Index: 39583 tive occurrence 3311873)	EO Index: Presence:	32179 Presumed E		Element Last Seen: Site Last Seen:	198X-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	UNKNOWI 332 Unknown Natural/Na Torrance (Los Angele 33.82705 /	Map Index: 39583 tive occurrence 3311873) es	EO Index: Presence:	32179 Presumed E	xtant	Element Last Seen: Site Last Seen: Record Last Updated:	198X-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	UNKNOWI 332 Unknown Natural/Na Torrance (Los Angele 33.82705 / Zone-11 N	Map Index: 39583 tive occurrence 3311873) es -118.34240	EO Index: Presence:	32179 Presumed E	xtant Accuracy:	Element Last Seen: Site Last Seen: Record Last Updated: non-specific area	198X-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	UNKNOWI 332 Unknown Natural/Na Torrance (3 Los Angele 33.82705 / Zone-11 N T04S, R14	Map Index: 39583 tive occurrence 3311873) es 118.34240 3743790 E375777	EO Index: Presence: Trend:	32179 Presumed E Unknown	xtant Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 75	198X-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	UNKNOWN 332 Unknown Natural/Na Torrance (Los Angele 33.82705 / Zone-11 N T04S, R14 MADRON/	Map Index: 39583 tive occurrence 3311873) es 7-118.34240 3743790 E375777 W, Sec. 15, SW (S)	EO Index: Presence: Trend:	32179 Presumed E Unknown	xtant Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 75	198X-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	UNKNOWN 332 Unknown Natural/Na Torrance (Los Angele 33.82705 / Zone-11 N T04S, R14 MADRON/	Map Index: 39583 tive occurrence 3311873) es 7-118.34240 3743790 E375777 W, Sec. 15, SW (S)	EO Index: Presence: Trend:	32179 Presumed E Unknown	xtant Accuracy: Elevation (ft): Acres: RRANCE.	Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 75	198X-XX-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	UNKNOWN 332 Unknown Natural/Na Torrance (Los Angele 33.82705 / Zone-11 N T04S, R14 MADRON/ HABITAT (Map Index: 39583 tive occurrence 3311873) 25 7-118.34240 3743790 E375777 W, Sec. 15, SW (S) A MARSH, AT MADRONA MA	EO Index: Presence: Trend: ARSH NATURE	32179 Presumed E Unknown CENTER, TOF	Accuracy: Elevation (ft): Acres: RRANCE.	Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 75	198X-XX-XX



California Department of Fish and Wildlife



Occurrence No.	774	Map Index: 99707	EO Index:	101254	Element Last Seen:	1940-05-10
Occ. Rank:	None	p	Presence:	Possibly Extirpated	Site Last Seen:	1940-05-10
Occ. Type:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2016-04-21
Quad Summary:		I (3311883)				
County Summary:	Los Angel	es				
Lat/Long:	33.9033 /	-118.324		Accuracy:	1 mile	
UTM:	Zone-11 N	N3752223 E377589		Elevation (ft):	43	
PLSS:	T03S, R14	4W, Sec. 14 (S)		Acres:	1987.0	
Location:	ABOUT 3	MI SW OF I-105 & I-110 INTE	ERCHANGE, 3.1	MI SE OF I-105 & I-405 INTERC	HANGE, NW OF GARDENA	
Detailed Location:	LOCATIO		S FOR "TORRE	NORTHEAST OF GARDENA." M NCE" (1934) AND "INGLEWOOD		
Ecological:		E VEGETATION VISIBLE IN A		INCE THE TIME OF OBSERVAT GRAPHS. HABITAT IN 1940 DES		
General:				(COGSWELL PERS. COMM.). B XTIRPATED BY BEEDY (1991).	IRDS OBSERVED FLYING B	ETWEEN THE
Owner/Manager:	UNKNOW	/N				
Siphateles bico Mohave tui chub	olor mohav	vensis			Element Code: AFCJ	B1303H
Listing Status:	Federal:	Endangered		CNDDB Element Ranl		
Listing Status:	State:	Endangered			ks: Global: G4T1 State: S1	
·	State: Other:	Endangered AFS_EN-Endangered, CDF		tected	State: S1	
Listing Status: Habitat:	State: Other: General:	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV	/E RIVER BASIN	tected I, ADAPTED TO ALKALINE, MIN	State: S1 ERALIZED WATERS.	
-	State: Other:	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV	/E RIVER BASIN	tected	State: S1 ERALIZED WATERS.	
·	State: Other: General:	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV	/E RIVER BASIN	tected I, ADAPTED TO ALKALINE, MIN	State: S1 ERALIZED WATERS.	1976-XX-XX
Habitat:	State: Other: General: Micro:	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PC	/E RIVER BASIN DNDS, OR SLOU	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE	State: S1 ERALIZED WATERS. TATION FOR SPAWNING.	1976-XX-XX 1976-XX-XX
Habitat: Occurrence No.	State: Other: General: Micro: 5 None	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PC Map Index: 01666 t Outside of Native	/E RIVER BASIN DNDS, OR SLOU EO Index:	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE 28635	State: S1 ERALIZED WATERS. TATION FOR SPAWNING. Element Last Seen:	
Habitat: Occurrence No. Occ. Rank:	State: Other: General: Micro: 5 None Transplan	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PO Map Index: 01666 t Outside of Native ge	/E RIVER BASIN DNDS, OR SLOU EO Index: Presence:	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE 28635 Extirpated	State: S1 ERALIZED WATERS. TATION FOR SPAWNING. Element Last Seen: Site Last Seen:	1976-XX-XX
Habitat: Occurrence No. Occ. Rank: Occ. Type:	State: Other: General: Micro: 5 None Transplan Hab./Rang	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PO Map Index: 01666 t Outside of Native ge (3311873)	/E RIVER BASIN DNDS, OR SLOU EO Index: Presence:	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE 28635 Extirpated	State: S1 ERALIZED WATERS. TATION FOR SPAWNING. Element Last Seen: Site Last Seen:	1976-XX-XX
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	State: Other: General: Micro: 5 None Transplan Hab./Rang Torrance (Los Angel	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PO Map Index: 01666 t Outside of Native ge (3311873)	/E RIVER BASIN DNDS, OR SLOU EO Index: Presence:	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE 28635 Extirpated	State: S1 ERALIZED WATERS. TATION FOR SPAWNING. Element Last Seen: Site Last Seen:	1976-XX-XX
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	State: Other: General: Micro: 5 None Transplan Hab./Rang Torrance (Los Angel 33.78311	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PO Map Index: 01666 t Outside of Native ge (3311873)	/E RIVER BASIN DNDS, OR SLOU EO Index: Presence:	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE 28635 Extirpated Unknown	State: S1 ERALIZED WATERS. TATION FOR SPAWNING. Element Last Seen: Site Last Seen: Record Last Updated:	1976-XX-XX
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	State: Other: General: Micro: 5 None Transplan Hab./Rang Torrance (Los Angel 33.78311, Zone-11 N	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PC Map Index: 01666 t Outside of Native ge (3311873) les / -118.34565	/E RIVER BASIN DNDS, OR SLOU EO Index: Presence:	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE 28635 Extirpated Unknown Accuracy:	State: S1 ERALIZED WATERS. TATION FOR SPAWNING. Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile	1976-XX-XX
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	State: Other: General: Micro: 5 None Transplan Hab./Rang Torrance (Los Angel 33.78311, Zone-11 N T04S, R14	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PO Map Index: 01666 t Outside of Native ge (3311873) les / -118.34565 N3738921 E375412	/E RIVER BASIN DNDS, OR SLOU EO Index: Presence: Trend:	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE 28635 Extirpated Unknown Accuracy: Elevation (ft): Acres:	State: S1 ERALIZED WATERS. TATION FOR SPAWNING. Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 720	1976-XX-XX
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	State: Other: General: Micro: 5 None Transplan Hab./Rang Torrance (Los Angel 33.78311 Zone-11 N T04S, R14 SOUTH C EXPERIM	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PC Map Index: 01666 t Outside of Native ge (3311873) les / -118.34565 N3738921 E375412 4W, Sec. 33 (S) COAST BOTANIC GARDEN R	/E RIVER BASIN DNDS, OR SLOU EO Index: Presence: Trend:	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE 28635 Extirpated Unknown Accuracy: Elevation (ft): Acres:	State: S1 ERALIZED WATERS. TATION FOR SPAWNING. Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 720 0.0	1976-XX-XX 1998-10-19
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	State: Other: General: Micro: 5 None Transplan Hab./Rang Torrance (Los Angel 33.78311 Zone-11 N T04S, R14 SOUTH C EXPERIM PALOS VI THE BOT	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PC Map Index: 01666 t Outside of Native ge (3311873) les / -118.34565 N3738921 E375412 4W, Sec. 33 (S) COAST BOTANIC GARDEN R IENTAL TRANSPLANT OUTS ERDES PENINSULA, CA. ANIC GARDEN SITE WAS AU	/E RIVER BASIN DNDS, OR SLOU EO Index: Presence: Trend: SEFUGIUM, PALC SIDE NATIVE RA	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE 28635 Extirpated Unknown Accuracy: Elevation (ft): Acres: DS VERDES.	State: S1 ERALIZED WATERS. TATION FOR SPAWNING. Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 720 0.0 CATED AT 26300 CRENSH/ H FROM 1929 - 1956. IT WA	1976-XX-XX 1998-10-19
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	State: Other: General: Micro: 5 None Transplan Hab./Rang Torrance (Los Angel 33.78311 Zone-11 N T04S, R14 SOUTH C EXPERIM PALOS VI THE BOT, FROM 199 EXPERIM	Endangered AFS_EN-Endangered, CDF ENDEMIC TO THE MOJAV NEEDS DEEP POOLS, PC Map Index: 01666 t Outside of Native ge (3311873) les / -118.34565 N3738921 E375412 4W, Sec. 33 (S) COAST BOTANIC GARDEN R IENTAL TRANSPLANT OUTS ERDES PENINSULA, CA. ANIC GARDEN SITE WAS AN 57 TO 1965. THE GARDENS	/E RIVER BASIN DNDS, OR SLOU EO Index: Presence: Trend: SIDE NATIVE RA N OPEN PIT MIN INCLUDE A 2 A SIDE NATIVE RA	tected I, ADAPTED TO ALKALINE, MIN GH-LIKE AREAS. NEEDS VEGE 28635 Extirpated Unknown Accuracy: Elevation (ft): Acres: DS VERDES. NGE. BOTANIC GARDEN IS LO JE FOR DIATOMACEOUS EART CRE MAN-MADE LAKE AND ST NGE. 147 PLANTED IN JAN 197	State: S1 ERALIZED WATERS. TATION FOR SPAWNING. Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 720 0.0 CATED AT 26300 CRENSHA	1976-XX-XX 1998-10-19 W BLVD, S A LANDFILL





Sorex ornatus						Eleme	nt Code: AMA	BA01104
southern Californ								
Listing Status:		None		CNDDB Element Ra	anks:	Global:		
	State:	None				State:	S1	
	Other:	CDFW_SSC-Species of Sp	ecial Concern					
Habitat:	General:	COASTAL MARSHES IN L	OS ANGELES, C	RANGE AND VENTURA COL	JNTIES	5.		
	Micro:	REQUIRES DENSE VEGE	TATION AND W	DODY DEBRIS FOR COVER.				
Occurrence No.	1	Map Index: 85090	EO Index:	59229	I	Element	Last Seen:	1991-02-28
Occ. Rank:	None		Presence:	Possibly Extirpated	;	Site Last	Seen:	2009-06-04
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	I	Record L	ast Updated:	2012-12-10
Quad Summary:	Venice (33	311884)						
County Summary:	Los Angel	es						
Lat/Long:	33.96964	/ -118.43652		Accuracy:	no	on-specific	c area	
UTM:	Zone-11 N	13759720 E367287		Elevation (ft):	5			
PLSS:	T02S, R18	5W, Sec. 27 (S)		Acres:	60	9.0		
Location:	BALLONA	WETLANDS ECOLOGICAL	RESERVE, NEA	R PLAYA DEL REY, LOS ANG	GELES.			
Detailed Location:	DEL REY			NBLVD & JEFFERSON BLVD ONA CR & CULVER BLVD (EI				
Ecological:								
General:		UN 1929 (LACM 1215), 1 MAI		5 MAY 1929 (LACM 1195). EP (MVZ 74679). PM: 1 MALE 1				
Owner/Manager:	DFG-BAL	LONA WETLANDS ER						





Lasionycteris r silver-haired bat	noctivagan	S			Eleme	nt Code: AMA	CC02010
Listing Status:	Federal:	None		CNDDB Element Ran	ks: Global:	G3G4	
	State:	None			State:	S3S4	
	Other:	IUCN_LC-Least Concern, V	VBWG_M-Mediu	m Priority			
Habitat:	General:	PRIMARILY A COASTAL A BRUSHY AREAS.	ND MONTANE	FOREST DWELLER, FEEDING	OVER STREA	MS, PONDS &	OPEN
	Micro:	ROOSTS IN HOLLOW TRE UNDER ROCKS. NEEDS D		EXFOLIATING BARK, ABANDOI ER.	NED WOODP	ECKER HOLES	, AND RARELY
Occurrence No.	50	Map Index: 68566	EO Index:	68930	Element	Last Seen:	1986-11-18
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last	t Seen:	1986-11-18
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown	Record L	_ast Updated:	2007-03-20
Quad Summary:	Long Beac	ch (3311872)					
County Summary:	Los Angele	es					
Lat/Long:	33.79315/	-118.20057		Accuracy:	80 meters		
UTM:	Zone-11 N	3739869 E388858		Elevation (ft):	10		
PLSS:	T04S, R13	W, Sec. 26, SE (S)		Acres:	0.0		
Location:	LONG BE	ACH, JUST SOUTH OF INTE	RSECTION OF	20TH ST AND MAINE AVE.			
Detailed Location:	MAPPED	ACCORDING TO LOCALITY	DESCRIPTION	AND LAT/LONG COORDINATES	S PROVIDED	BY MANIS.	
Ecological:							
General:	1 MALE S 1986.	PECIMEN (MVZ #181854) C0	OLLECTED AT "	LONG BEACH, 1995 MAINE" BY	Y DENNY G. C	ONSTANTINE	ON 18 NOV
Owner/Manager:	UNKNOW	N					





western mastiff b	s californi at	cus			Element Code: AMA	CD02011
Listing Status:	State:	None None		CNDDB Element Ran	State: S3S4	
Habitat:	Other: General: Micro:	MANY OPEN, SEMI-ARID SCRUB, GRASSLANDS, C	TO ARID HABITA CHAPARRAL, ET	Special Concern, WBWG_H-High ATS, INCLUDING CONIFER & D C. HIGH BUILDINGS, TREES AND	ECIDUOUS WOODLANDS, (COASTAL
Occurrence No.	65	Map Index: 66308	EO Index:	66394	Element Last Seen:	1987-04-01
Occ. Rank:	Unknown	-	Presence:	Presumed Extant	Site Last Seen:	1987-04-01
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2006-09-21
Quad Summary: County Summary:	Inglewood Los Angel	(3311883) es				
Lat/Long:	33.93103	/ -118.30905		Accuracy:	1 mile	
UTM:	Zone-11 N	I3755281 E379010		Elevation (ft):	200	
PLSS:	T03S, R14	4W, Sec. 01 (S)		Acres:	0.0	
Detailed Location: Ecological:	EXACT LO OF 3218.6		PED ACCORDIN	G TO LAT/LONG COORDINATE	S GIVEN IN MANIS, WITH U	NCERTAINTY
	#182475,	RESPECTIVELY.	COLLECTED BY	WILLIAM E. RAINEY ON 1 JAN /	AND 1 APR 1987, MVZ #1823	350 AND
General: Owner/Manager:	#182475, UNKNOW	RESPECTIVELY. N				
Owner/Manager: Occurrence No.	#182475, UNKNOW 168	RESPECTIVELY.	EO Index:	66526	Element Last Seen:	1929-07-22
Owner/Manager: Occurrence No. Occ. Rank:	#182475, UNKNOW 168 Unknown	RESPECTIVELY. N Map Index: 23783			Element Last Seen: Site Last Seen:	1929-07-22 1929-07-22
Owner/Manager: Occurrence No.	#182475, UNKNOW 168 Unknown Natural/Na	RESPECTIVELY. N Map Index: 23783 ative occurrence (3311883)	EO Index: Presence:	66526 Presumed Extant	Element Last Seen:	1929-07-22
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	#182475, UNKNOW 168 Unknown Natural/Na Inglewood Los Angel	RESPECTIVELY. N Map Index: 23783 ative occurrence (3311883)	EO Index: Presence:	66526 Presumed Extant	Element Last Seen: Site Last Seen:	1929-07-22 1929-07-22
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	#182475, UNKNOW 168 Unknown Natural/Na Inglewood Los Angel 33.88942	RESPECTIVELY. N Map Index: 23783 ative occurrence (3311883) es	EO Index: Presence:	66526 Presumed Extant Unknown	Element Last Seen: Site Last Seen: Record Last Updated:	1929-07-22 1929-07-22
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	#182475, UNKNOW 168 Unknown Natural/Na Inglewood Los Angel 33.88942	RESPECTIVELY. N Map Index: 23783 ative occurrence (3311883) es / -118.31857 I3750677 E378070	EO Index: Presence:	66526 Presumed Extant Unknown Accuracy:	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	1929-07-22 1929-07-22
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	#182475, UNKNOW 168 Unknown Natural/Na Inglewood Los Angel 33.88942, Zone-11 N T03S, R14 GARDEN/	RESPECTIVELY. N Map Index: 23783 ative occurrence (3311883) es / -118.31857 I3750677 E378070 4W (S) A.	EO Index: Presence: Trend:	66526 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 50 0.0	1929-07-22 1929-07-22 2006-11-01





Nyctinomops f		cus			Element Code: AMA	CD04010
Listing Status:	Federal:	None		CNDDB Element Rar	nks: Global: G5	
	State:	None			State: S3	
	Other:	CDFW_SSC-Species of Sp	pecial Concern, Il	JCN_LC-Least Concern, WBWG	6_M-Medium Priority	
Habitat:	General:			CALIFORNIA; PINE-JUNIPER	WOODLANDS, DESERT SCR	UB, PALM
		OASIS, DESERT WASH, D		AN, ETC.		
	Micro:	ROCKY AREAS WITH HIG	GH CLIFFS.			
Occurrence No.	15	Map Index: 68461	EO Index:	68716	Element Last Seen:	1985-10-18
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1985-10-18
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2007-03-14
Quad Summary:	Torrance ((3311873)				
County Summary:	Los Angel	es				
Lat/Long:	33.79001	/ -118.29745		Accuracy:	4/5 mile	
UTM:	Zone-11 N	I3739630 E379884		Elevation (ft):	50	
PLSS:	T04S, R14	4W, Sec. 36 (S)		Acres:	0.0	
Location:	HARBOR	CITY.				
Detailed Location:		N GIVEN ONLY AS 'HARBOI AINTY OF 0.75 MI.	R". MAPPED AC	CORDING TO LAT/LONG COO	RDINATES PROVIDED BY M	ANIS WITH
Ecological:						
General:	1 FEMALE	E SPECIMEN (MVZ #181960)) COLLECTED A	T "HARBOR" BY DENNY G. CC	INSTANTINE ON 18 OCT 198	5.
Owner/Manager:	UNKNOW	N				
Occurrence No.	16	Map Index: 28742	EO Index:	68717	Element Last Seen:	1994-10-18
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1994-10-18
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2007-03-14
Quad Summary:	Inglewood	(3311883)				
County Summary:	Los Angel	es				
Lat/Long:	33.95930	/ -118.35104		Accuracy:	1 mile	
UTM:	Zone-11 N	I3758465 E375170		Elevation (ft):	100	
PLSS:	T02S, R14	4W (S)		Acres:	0.0	
Location:	INGLEWC	OD.				
Detailed Location:						
Ecological:						
General:	1 MALES	PECIMEN (LACM #94036) C	OLLECTED AT "	INGLEWOOD" BY DENNY G. C	CONSTANTINE ON 18 OCT 19	994.
Owner/Manager:	UNKNOW					
	0.111000					



California Natural Diversity Database



Nyctinomops n	nacrotis				Element Code: AMAC	D04020
big free-tailed ba	t					
Listing Status:	Federal:	None		CNDDB Element Ran	ks: Global: G5	
	State:	None			State: S3	
	Other:	CDFW_SSC-Species of Sp	ecial Concern, IL	JCN_LC-Least Concern, WBWG	_MH-Medium-High Priority	
Habitat:	General:	LOW-LYING ARID AREAS	IN SOUTHERN	CALIFORNIA.		
	Micro:	NEED HIGH CLIFFS OR R	OCKY OUTCRO	PS FOR ROOSTING SITES. FE	EDS PRINCIPALLY ON LARG	E MOTHS.
Occurrence No.	5	Map Index: 27997	EO Index:	59564	Element Last Seen:	1983-10-07
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1983-10-07
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2005-01-21
Quad Summary:	Long Beac	ch (3311872)				
County Summary:	Los Angele	es, Pacific Ocean				
Lat/Long:	33.77120/	/ -118.18868		Accuracy:	1 mile	
UTM:	Zone-11 N	I3737422 E389931		Elevation (ft):	20	
PLSS:	T05S, R13	3W, Sec. 01 (S)		Acres:	0.0	
Location:	LONG BE	ACH.				
Detailed Location:		IATES PROVIDED BY MANIS		RAL AREA OF LONG BEACH. LO THEAST SIDE OF CIRCLE WITI		
Ecological:						
General:	ONE FEM	ALE SPECIMEN COLLECTE	D 7 OCT 1983 B	Y D. CONSTANTINE AT "LONG	BEACH." DEPOSITED AT M	/Z #181983.
Owner/Manager:	UNKNOW	Ν				
Perognathus lo	naimomh	ris posifique			Element Code: AMAF	D01042
Pacific pocket mo	•	πο μασπισμο				201012
Listing Status:		Endangered		CNDDB Element Ran	ks: Global: G5T1	
-	State:	None			State: S1	
	Other:	CDFW_SSC-Species of Sp	ecial Concern			
Habitat:	General:	INHABITS THE NARROW ANGELES COUNTY.	COASTAL PLAIN	NS FROM THE MEXICAN BORD	ER NORTH TO EL SEGUNDO	D, LOS
	Minun	OFFNO TO DEFER OOI				

Micro: SEEMS TO PREFER SOILS OF FINE ALLUVIAL SANDS NEAR THE OCEAN, BUT MUCH REMAINS TO BE LEARNED.



California Department of Fish and Wildlife



Occurrence No.	1 Map Index: 39854	EO Index:	34856		Element Last Seen:	1931-09-05
Occ. Rank:	None	Presence:	Extirpated		Site Last Seen:	1931-09-05
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown		Record Last Updated:	2003-04-10
Quad Summary:	Torrance (3311873), Redondo Beach (33	311874)				
County Summary:	Los Angeles, Pacific Ocean					
Lat/Long:	33.82667 / -118.38139		1	Accuracy:	3/5 mile	
UTM:	Zone-11 N3743796 E372168		I	Elevation (ft):	100	
PLSS:	T04S, R14W, Sec. 17 (S)		1	Acres:	0.0	
Location:	CLIFTON, EAST OF REDONDO STATE	BEACH.				
Detailed Location:						
Ecological:						
General:	HISTORIC SITE. 3 SBMNH SPECIMENS	S AND 1 MVZ S	PECIMEN (MAL	.E, #47325), ALL	COLLECTED IN SEP 1931.	
Owner/Manager:	UNKNOWN					
Occurrence No.	2 Map Index: 39858	EO Index:	34860		Element Last Seen:	1938-06-XX
Occ. Rank:	None	Presence:	Extirpated		Site Last Seen:	1938-06-XX
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown		Record Last Updated:	2003-04-10
Quad Summary:	Venice (3311884)					
County Summary:	Los Angeles, Pacific Ocean					
Lat/Long:	33.93139 / -118.42565			Accuracy:	non-specific area	
UTM:	Zone-11 N3755463 E368233			Elevation (ft):	100	
				Elevation (it).	100	
-	T03S, R15W, Sec. 11 (S)			Acres:	5595.2	
PLSS:		۸.				
PLSS:	T03S, R15W, Sec. 11 (S)	DEL REY, PLA	YA DEL REY, P	Acres:	5595.2	LOYOLA
PLSS: Location: Detailed Location:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL:	DEL REY, PLA	YA DEL REY, P	Acres:	5595.2	LOYOLA
PLSS: Location:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COL	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW	YA DEL REY, P. E NW OF EL SE	Acres: ALISADES DEL GUNDO.	5595.2 REY, DEL REY HILLS NEAR	
PLSS: Location: Detailed Location: Ecological: General:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW	YA DEL REY, P. E NW OF EL SE	Acres: ALISADES DEL GUNDO.	5595.2 REY, DEL REY HILLS NEAR	
PLSS: Location: Detailed Location: Ecological: General:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COL SBMNH, LACM, SDMNH, MVZ, AND UA	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW	YA DEL REY, P. E NW OF EL SE	Acres: ALISADES DEL GUNDO.	5595.2 REY, DEL REY HILLS NEAR	
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW	YA DEL REY, P. E NW OF EL SE /EEN NOV 1918	Acres: ALISADES DEL GUNDO.	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT	red in
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager:	T03S, R15W, Sec. 11 (S)MARINA DEL REY/EL SEGUNDO AREACOLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NOHISTORIC SITE. 118 SPECIMENS COLL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN3Map Index: 39864	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW	YA DEL REY, P. E NW OF EL SE VEEN NOV 1918 34866	Acres: ALISADES DEL GUNDO.	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT	TED IN 1865-10-XX
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COLL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN 3 Map Index: 39864 None Natural/Native occurrence	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW EO Index: Presence: Trend:	YA DEL REY, P E NW OF EL SE /EEN NOV 1918 34866 Extirpated	Acres: ALISADES DEL GUNDO.	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT Element Last Seen: Site Last Seen:	TED IN 1865-10-XX 1865-10-XX
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COLL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN 3 Map Index: 39864 None	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW EO Index: Presence: Trend:	YA DEL REY, P E NW OF EL SE /EEN NOV 1918 34866 Extirpated	Acres: ALISADES DEL GUNDO.	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT Element Last Seen: Site Last Seen:	TED IN 1865-10-XX 1865-10-XX
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COLL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN 3 Map Index: 39864 None Natural/Native occurrence Long Beach (3311872), Torrance (33118	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW EO Index: Presence: Trend:	YA DEL REY, P E NW OF EL SE /EEN NOV 1918 34866 Extirpated Unknown	Acres: ALISADES DEL GUNDO.	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT Element Last Seen: Site Last Seen:	TED IN 1865-10-XX 1865-10-XX
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COLL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN 3 Map Index: 39864 None Natural/Native occurrence Long Beach (3311872), Torrance (33118 Los Angeles, Pacific Ocean	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW EO Index: Presence: Trend:	YA DEL REY, P. E NW OF EL SE /EEN NOV 1918 34866 Extirpated Unknown	Acres: ALISADES DEL EGUNDO. AND JUN 1938.	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT Element Last Seen: Site Last Seen: Record Last Updated:	TED IN 1865-10-XX 1865-10-XX
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COLL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN 3 Map Index: 39864 None Natural/Native occurrence Long Beach (3311872), Torrance (33118 Los Angeles, Pacific Ocean 33.79001 / -118.24785	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW EO Index: Presence: Trend:	YA DEL REY, P. E NW OF EL SE /EEN NOV 1918 34866 Extirpated Unknown	Acres: ALISADES DEL GUNDO. AND JUN 1938.	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	TED IN 1865-10-XX 1865-10-XX
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COLL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN 3 Map Index: 39864 None Natural/Native occurrence Long Beach (3311872), Torrance (33118 Los Angeles, Pacific Ocean 33.79001 / -118.24785 Zone-11 N3739572 E384477	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW EO Index: Presence: Trend:	YA DEL REY, P. E NW OF EL SE /EEN NOV 1918 34866 Extirpated Unknown	Acres: ALISADES DEL GUNDO. AND JUN 1938. AND JUN 1938. Accuracy: Elevation (ft):	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 30	TED IN 1865-10-XX 1865-10-XX
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COLL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN 3 Map Index: 39864 None Natural/Native occurrence Long Beach (3311872), Torrance (33118 Los Angeles, Pacific Ocean 33.79001 / -118.24785 Zone-11 N3739572 E384477 T04S, R13W, Sec. 33 (S)	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW EO Index: Presence: Trend:	YA DEL REY, P. E NW OF EL SE /EEN NOV 1918 34866 Extirpated Unknown	Acres: ALISADES DEL GUNDO. AND JUN 1938. AND JUN 1938. Accuracy: Elevation (ft):	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 30	TED IN 1865-10-XX 1865-10-XX
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COLL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN 3 Map Index: 39864 None Natural/Native occurrence Long Beach (3311872), Torrance (33118 Los Angeles, Pacific Ocean 33.79001 / -118.24785 Zone-11 N3739572 E384477 T04S, R13W, Sec. 33 (S)	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW EO Index: Presence: Trend:	YA DEL REY, P. E NW OF EL SE /EEN NOV 1918 34866 Extirpated Unknown	Acres: ALISADES DEL GUNDO. AND JUN 1938. AND JUN 1938. Accuracy: Elevation (ft):	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 30	TED IN 1865-10-XX 1865-10-XX
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	T03S, R15W, Sec. 11 (S) MARINA DEL REY/EL SEGUNDO AREA COLLECTION LOCALITIES INCLUDEL: UNIVERSITY, HYPERION, & 1 MILE NO HISTORIC SITE. 118 SPECIMENS COLL SBMNH, LACM, SDMNH, MVZ, AND UA UNKNOWN 3 Map Index: 39864 None Natural/Native occurrence Long Beach (3311872), Torrance (33118 Los Angeles, Pacific Ocean 33.79001 / -118.24785 Zone-11 N3739572 E384477 T04S, R13W, Sec. 33 (S)	DEL REY, PLA PRTH & 1/2 MIL LECTED BETW Teo Index: Presence: Trend: 73)	YA DEL REY, P. E NW OF EL SE /EEN NOV 1918 34866 Extirpated Unknown	Acres: ALISADES DEL GUNDO. AND JUN 1938. AND JUN 1938. Elevation (ft): Acres:	5595.2 REY, DEL REY HILLS NEAR SPECIMENS ARE DEPOSIT Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 30 0.0	TED IN 1865-10-XX 1865-10-XX



California Natural Diversity Database



Neotoma lepida		lia			Element Code: AMAR	F08041
San Diego deser						
Listing Status:		None		CNDDB Element Rank		
	State:	None			State: S3S4	
	Other:	CDFW_SSC-Species of Sp	ecial Concern			
Habitat:	General:	COASTAL SCRUB OF SOL	JTHERN CALIFO	ORNIA FROM SAN DIEGO COUN	ITY TO SAN LUIS OBISPO (COUNTY.
	Micro:	MODERATE TO DENSE C. ROCKY CLIFFS, AND SLO		ERRED. THEY ARE PARTICULA	RLY ABUNDANT IN ROCK	OUTCROPS,
Occurrence No.	11	Map Index: 33547	EO Index:	29698	Element Last Seen:	1991-08-26
Occ. Rank:	Poor		Presence:	Presumed Extant	Site Last Seen:	1991-08-26
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	1996-11-05
Quad Summary:	San Pedro	o (3311863)				
County Summary:	Los Angel	es, Pacific Ocean				
Lat/Long:	33.73142	/ -118.35211		Accuracy:	non-specific area	
UTM:	Zone-11 N	I3733197 E374739		Elevation (ft):	200	
PLSS:	T05S, R14	4W (S)		Acres:	460.0	
Location:		ERDES PENINSULA, SOUTH JESE POINT.	I OF PALOS VEF	RDES DRIVE, BETWEEN PALOS	VERDES PENINSULAR PA	RK AND
Detailed Location:	WOODRA	TS TRAPPED IN THE VICIN	ITY OF PRICKLY	PEAR CLUMPS.		
Ecological:				RAL VEGETATION, DOMINATED 3, WHERE ARTEMISIA CALIFOR		
General:	19 ADULT	S TRAPPED BETWEEN 23-2	26 AUGUST 199	1.		
Owner/Manager:	UNKNOW	'N				
Microtus califo		phensi			Element Code: AMAR	F11035
Listing Status:		None		CNDDB Element Rank	s: Global: G5T2T3	
Listing Status.	State:	None			State: S1S2	
					Sidle. 3132	
	Other:	CDFW_SSC-Species of Sp				
Habitat:	General:	TIDAL MARSHES IN LOS /	ANGELES, ORAI	NGE AND SOUTHERN VENTUR	A COUNTIES.	

Micro:



California Department of Fish and Wildlife



Occurrence No.	1 Map Index: 58944	EO Index:	58980	Element Last Seen:	1977-03-17
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1977-03-17
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2004-12-22
Quad Summary:	Inglewood (3311883)				
County Summary:	Los Angeles				
Lat/Long:	33.99722 / -118.36350		Accuracy:	1/5 mile	
UTM:	Zone-11 N3762685 E374074		Elevation (ft):	300	
PLSS:	T02S, R14W, Sec. 17 (S)		Acres:	0.0	
Location:	BALDWIN HILLS, ABOUT 0.1 MILE SO	UTHWEST OF	NTERSECTION BETWEEN STO	CKER STREET AND FAIRF	AX AVENUE.
Detailed Location:	1977 SPECIMENS COLLECTED AT TH OF BALDWIN HILLS.	IS SPECIFIC L	OCATION. 1957 SPECIMENS CO	OLLECTED FROM THE GEN	ERAL VICINTY
Ecological:					
General:	2 FEMALE SPECIMENS COLLECTED LACM #87761 & 87786. ALSO FROM T 14 APR 1957. LACM #10336-10341.				
Owner/Manager:	UNKNOWN				
			50004	_	
Occurrence No.	2 Map Index: 01722	EO Index:	58981	Element Last Seen:	1957-04-14
Occurrence No. Occ. Rank:	2 Map Index: 01722 Unknown	EO Index: Presence:	Presumed Extant	Element Last Seen: Site Last Seen:	1957-04-14 1957-04-14
Occ. Rank:	Unknown	Presence: Trend:	Presumed Extant Unknown	Site Last Seen:	1957-04-14
Occ. Rank: Occ. Type:	Unknown Natural/Native occurrence	Presence: Trend:	Presumed Extant Unknown	Site Last Seen:	1957-04-14
Occ. Rank: Occ. Type: Quad Summary:	Unknown Natural/Native occurrence Inglewood (3311883), Venice (3311884)	Presence: Trend:	Presumed Extant Unknown	Site Last Seen:	1957-04-14
Occ. Rank: Occ. Type: Quad Summary: County Summary:	Unknown Natural/Native occurrence Inglewood (3311883), Venice (3311884) Los Angeles	Presence: Trend:	Presumed Extant Unknown 11813), Beverly Hills (3411814)	Site Last Seen: Record Last Updated:	1957-04-14
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	Unknown Natural/Native occurrence Inglewood (3311883), Venice (3311884) Los Angeles 33.99055 / -118.38285	Presence: Trend:	Presumed Extant Unknown 11813), Beverly Hills (3411814) Accuracy:	Site Last Seen: Record Last Updated: 1 mile	1957-04-14
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Unknown Natural/Native occurrence Inglewood (3311883), Venice (3311884) Los Angeles 33.99055 / -118.38285 Zone-11 N3761970 E372277	Presence: Trend:	Presumed Extant Unknown 11813), Beverly Hills (3411814) Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: 1 mile 200	1957-04-14
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Unknown Natural/Native occurrence Inglewood (3311883), Venice (3311884) Los Angeles 33.99055 / -118.38285 Zone-11 N3761970 E372277 T02S, R14W, Sec. 18 (S)	Presence: Trend:), Hollywood (34	Presumed Extant Unknown 11813), Beverly Hills (3411814) Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1 mile 200 0.0	1957-04-14
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Unknown Natural/Native occurrence Inglewood (3311883), Venice (3311884) Los Angeles 33.99055 / -118.38285 Zone-11 N3761970 E372277 T02S, R14W, Sec. 18 (S) CULVER CITY.	Presence: Trend:), Hollywood (34	Presumed Extant Unknown 11813), Beverly Hills (3411814) Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1 mile 200 0.0	1957-04-14
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Unknown Natural/Native occurrence Inglewood (3311883), Venice (3311884) Los Angeles 33.99055 / -118.38285 Zone-11 N3761970 E372277 T02S, R14W, Sec. 18 (S) CULVER CITY.	Presence: Trend:), Hollywood (34 PPED IN THE G 4, 15 & 26 JUL	Presumed Extant Unknown 11813), Beverly Hills (3411814) Accuracy: Elevation (ft): Acres: ENERAL VICINTY OF CULVER 1927 BY G. ASHCRAFT AT "CU	Site Last Seen: Record Last Updated: 1 mile 200 0.0 CITY & BALDWIN HILLS.	1957-04-14 2004-12-22 21363 & 21365



California Department of Fish and Wildlife



Quad Summary:VeniceCounty Summary:Los AngLat/Long:33.9696UTM:Zone-11PLSS:T02S, RLocation:BALLORDetailed Location:MAPPEBALLORMAPPEBALLOR1925: 6Collage1925: 6COLL.1925: 6	Native occurrence (3311884) geles 64 / -118.43652 1 N3759720 E367287 215W, Sec. 27 (S) NA WETLANDS ECOLOGICAL I D AT BALLONA WETLANDS EI NA WETLANDS (BW), PLAYA D 0. 2009: SW OF BALLONA CR & DLLECTIONS IN HIGH MARSH COLLECTED. 1929-30: 3-10 CC	R. SPECIMENS IEL REY (PDR), LINCOLN BLV AND SEASONA DLL. 1932: 11 C		EY (DR), DEL REY MARSH (E I (PDRS) & PLAYA DEL REY LL. 1935: 10 COLL. 1936: 1 C	MARSH :OLL. 1941: 2
Quad Summary:VeniceCounty Summary:Los AngLat/Long:33.9696UTM:Zone-11PLSS:T02S, RLocation:BALLORDetailed Location:MAPPEBALLORMAPPEBALLORPDRM)Ecological:2009 CGGeneral:1925: 6Owner/Manager:DFG-BA	(3311884) geles 54 / -118.43652 1 N3759720 E367287 (15W, Sec. 27 (S) NA WETLANDS ECOLOGICAL I D AT BALLONA WETLANDS EI NA WETLANDS (BW), PLAYA D 0. 2009: SW OF BALLONA CR & DLLECTIONS IN HIGH MARSH COLLECTED. 1929-30: 3-10 C0 1955: 2 COLL. 1957: 1 COLL. 19	RESERVE, NEA R. SPECIMENS EL REY (PDR), LINCOLN BLV AND SEASONA DLL. 1932: 11 C	Accuracy: Elevation (ft): Acres: AR PLAYA DEL REY, LOS ANGE ALSO COLLECTED AT: DEL RE PLAYA DEL REY SALT MARSH D. AL WETLAND. :OLL. 1933: 3 COLL. 1934: 2 COL	non-specific area 5 609.0 LES. Y (DR), DEL REY MARSH (E (PDRS) & PLAYA DEL REY LL. 1935: 10 COLL. 1936: 1 C SENT IN 1981, 1996, 2000-20	DRM), MARSH :OLL. 1941: 2
County Summary:Los AngleLat/Long:33.9696UTM:Zone-11PLSS:T02S, RLocation:BALLORDetailed Location:MAPPEBALLORPDRM)Ecological:2009 CGGeneral:1925: 6COLL. 1Owner/Manager:	geles 4 / -118.43652 1 N3759720 E367287 15W, Sec. 27 (S) NA WETLANDS ECOLOGICAL I D AT BALLONA WETLANDS EI NA WETLANDS (BW), PLAYA D 0. 2009: SW OF BALLONA CR & DLLECTIONS IN HIGH MARSH COLLECTED. 1929-30: 3-10 CO 1955: 2 COLL. 1957: 1 COLL. 19	R. SPECIMENS IEL REY (PDR), LINCOLN BLV AND SEASONA DLL. 1932: 11 C	Elevation (ft): Acres: AR PLAYA DEL REY, LOS ANGE ALSO COLLECTED AT: DEL RE PLAYA DEL REY SALT MARSH D. AL WETLAND. :OLL. 1933: 3 COLL. 1934: 2 COL	5 609.0 LES. EY (DR), DEL REY MARSH (E I (PDRS) & PLAYA DEL REY LL. 1935: 10 COLL. 1936: 1 C SENT IN 1981, 1996, 2000-20	MARSH :OLL. 1941: 2
Lat/Long: 33.9696 UTM: Zone-11 PLSS: T02S, R Location: BALLOR Detailed Location: MAPPE BALLOR (PDRM) Ecological: 2009 CG General: 1925: 6 COLL. 1 Owner/Manager:	4 / -118.43652 N3759720 E367287 Stow, Sec. 27 (S) D AT BALLONA WETLANDS EF NA WETLANDS (BW), PLAYA D WETLANDS (BW), PLAYA D 2009: SW OF BALLONA CR & DLLECTIONS IN HIGH MARSH COLLECTED. 1929-30: 3-10 CO 1955: 2 COLL. 1957: 1 COLL. 19	R. SPECIMENS IEL REY (PDR), LINCOLN BLV AND SEASONA DLL. 1932: 11 C	Elevation (ft): Acres: AR PLAYA DEL REY, LOS ANGE ALSO COLLECTED AT: DEL RE PLAYA DEL REY SALT MARSH D. AL WETLAND. :OLL. 1933: 3 COLL. 1934: 2 COL	5 609.0 LES. EY (DR), DEL REY MARSH (E I (PDRS) & PLAYA DEL REY LL. 1935: 10 COLL. 1936: 1 C SENT IN 1981, 1996, 2000-20	MARSH :OLL. 1941: 2
UTM: Zone-11 PLSS: T02S, R Location: BALLOR Detailed Location: MAPPE BALLOR (PDRM) Ecological: 2009 CC General: 1925: 6 COLL. 1 Owner/Manager: DFG-B/	N3759720 E367287 NA WETLANDS ECOLOGICAL I D AT BALLONA WETLANDS EI NA WETLANDS (BW), PLAYA D 2009: SW OF BALLONA CR & DLLECTIONS IN HIGH MARSH COLLECTED. 1929-30: 3-10 C0 1955: 2 COLL. 1957: 1 COLL. 19	R. SPECIMENS IEL REY (PDR), LINCOLN BLV AND SEASONA DLL. 1932: 11 C	Elevation (ft): Acres: AR PLAYA DEL REY, LOS ANGE ALSO COLLECTED AT: DEL RE PLAYA DEL REY SALT MARSH D. AL WETLAND. :OLL. 1933: 3 COLL. 1934: 2 COL	5 609.0 LES. EY (DR), DEL REY MARSH (E I (PDRS) & PLAYA DEL REY LL. 1935: 10 COLL. 1936: 1 C SENT IN 1981, 1996, 2000-20	MARSH :OLL. 1941: 2
PLSS:T02S, RLocation:BALLONDetailed Location:MAPPE BALLON (PDRM)Ecological:2009 COGeneral:1925: 6 COLL. 1Owner/Manager:DFG-BA	A15W, Sec. 27 (S) NA WETLANDS ECOLOGICAL I D AT BALLONA WETLANDS EN NA WETLANDS (BW), PLAYA D D. 2009: SW OF BALLONA CR & DLLECTIONS IN HIGH MARSH COLLECTED. 1929-30: 3-10 CC 1955: 2 COLL. 1957: 1 COLL. 19	R. SPECIMENS IEL REY (PDR), LINCOLN BLV AND SEASONA DLL. 1932: 11 C	Acres: AR PLAYA DEL REY, LOS ANGE ALSO COLLECTED AT: DEL RE PLAYA DEL REY SALT MARSH D. AL WETLAND. :OLL. 1933: 3 COLL. 1934: 2 COL	609.0 LES. EY (DR), DEL REY MARSH (E I (PDRS) & PLAYA DEL REY LL. 1935: 10 COLL. 1936: 1 C SENT IN 1981, 1996, 2000-20	MARSH :OLL. 1941: 2
Location: BALLOR Detailed Location: MAPPE BALLOR (PDRM) Ecological: 2009 CC General: 1925: 6 COLL. 1 Owner/Manager: DFG-BA	NA WETLANDS ECOLOGICAL I D AT BALLONA WETLANDS EI NA WETLANDS (BW), PLAYA D J. 2009: SW OF BALLONA CR & DLLECTIONS IN HIGH MARSH COLLECTED. 1929-30: 3-10 CO 1955: 2 COLL. 1957: 1 COLL. 19	R. SPECIMENS IEL REY (PDR), LINCOLN BLV AND SEASONA DLL. 1932: 11 C	AR PLAYA DEL REY, LOS ANGE ALSO COLLECTED AT: DEL RE PLAYA DEL REY SALT MARSH D. AL WETLAND. :OLL. 1933: 3 COLL. 1934: 2 COL	LES. EY (DR), DEL REY MARSH (E (PDRS) & PLAYA DEL REY LL. 1935: 10 COLL. 1936: 1 C SENT IN 1981, 1996, 2000-20	MARSH :OLL. 1941: 2
Detailed Location:MAPPE BALLOR (PDRM)Ecological:2009 CCGeneral:1925: 6 COLL. 1Owner/Manager:DFG-BA	D AT BALLONA WETLANDS EN NA WETLANDS (BW), PLAYA D 0. 2009: SW OF BALLONA CR & DLLECTIONS IN HIGH MARSH COLLECTED. 1929-30: 3-10 CC 1955: 2 COLL. 1957: 1 COLL. 19	R. SPECIMENS IEL REY (PDR), LINCOLN BLV AND SEASONA DLL. 1932: 11 C	ALSO COLLECTED AT: DEL RE PLAYA DEL REY SALT MARSH D. AL WETLAND. OLL. 1933: 3 COLL. 1934: 2 COL	EY (DR), DEL REY MARSH (E I (PDRS) & PLAYA DEL REY LL. 1935: 10 COLL. 1936: 1 C SENT IN 1981, 1996, 2000-20	MARSH :OLL. 1941: 2
BALLOI (PDRM) Ecological: 2009 CC General: 1925: 6 COLL. 1 Owner/Manager: DFG-B/	NA WETLANDS (BW), PLAYA D 0. 2009: SW OF BALLONA CR & DLLECTIONS IN HIGH MARSH COLLECTED. 1929-30: 3-10 CO 1955: 2 COLL. 1957: 1 COLL. 19	EL REY (PDR), LINCOLN BLV AND SEASON DLL. 1932: 11 C	PLAYA DEL REY SALT MARSH D. AL WETLAND. :OLL. 1933: 3 COLL. 1934: 2 COI	I (PDRŚ) & PLAYA DEL REŶ LL. 1935: 10 COLL. 1936: 1 C SENT IN 1981, 1996, 2000-20	MARSH :OLL. 1941: 2
General: 1925: 6 COLL. 1 Owner/Manager: DFG-B/	COLLECTED. 1929-30: 3-10 COLLECTED. 1929-30: 3-10 COLL. 1955: 2 COLL. 1957: 1 COLL. 19	OLL. 1932: 11 C	OLL. 1933: 3 COLL. 1934: 2 COL	SENT IN 1981, 1996, 2000-20	
COLL. 1 Owner/Manager: DFG-B/	1955: 2 COLL. 1957: 1 COLL. 19			SENT IN 1981, 1996, 2000-20	
	ALLONA WETLANDS ER			Element Code: AMA	
Tavidoa tavus				Element Code: AMA	
ι αλίμτα ιαλύδ				Element Code: AWA	JF04010
American badger					
Listing Status: Federal:	None		CNDDB Element Ran	ks: Global: G5	
State:	None			State: S3	
Other:	CDFW_SSC-Species of Spe	ecial Concern, II	UCN_LC-Least Concern		
Habitat: General:	MOST ABUNDANT IN DRIE FRIABLE SOILS.	ER OPEN STAG	SES OF MOST SHRUB, FOREST	, AND HERBACEOUS HABIT	TATS, WITH
Micro:	NEEDS SUFFICIENT FOOI RODENTS. DIGS BURRO		ILS AND OPEN, UNCULTIVATEI	D GROUND. PREYS ON BU	RROWING
Occurrence No. 291	Map Index: 51258	EO Index:	57504	Element Last Seen:	XXXX-XX-XX
Occ. Rank: Unknow	'n	Presence:	Presumed Extant	Site Last Seen:	XXXX-XX-XX
Occ. Type: Natural/	Native occurrence	Trend:	Unknown	Record Last Updated:	2005-01-05
Quad Summary: South G (341182		883), Los Ange	les (3411812), Hollywood (34118	13), Pasadena (3411822), Bu	ırbank
County Summary: Los Ang	jeles				
Lat/Long: 34.0536	6 / -118.24549		Accuracy:	5 miles	
UTM: Zone-11	N3768805 E385050		Elevation (ft):	280	
PLSS: T01S, R	13W, Sec. 28 (S)		Acres:	0.0	
Location: LOS AN	IGELES.				
Detailed Location: NO OTH	HER LOCATION INFORMATION	I GIVEN.			
Ecological:					
-	ECTED, LACM.				
Owner/Manager: UNKNC					



California Natural Diversity Database



Element Code: ARAAD02030

Emys marmorata

western pond tur	tle					
Listing Status:	Federal:	None		CNDDB Element Rank	ks: Global: G3G4	
	State:	None			State: S3	
	Other:	BLM_S-Sensitive, CDFW_S	SSC-Species of S	Special Concern, IUCN_VU-Vulne	erable, USFS_S-Sensitive	÷
Habitat:	General:			ONDS, MARSHES, RIVERS, ST BELOW 6000 FT ELEVATION.	REAMS AND IRRIGATIC	N DITCHES,
	Micro:	NEEDS BASKING SITES A KM FROM WATER FOR E		SANDY BANKS OR GRASSY OF	PEN FIELDS) UPLAND H	ABITAT UP TO 0.5
Occurrence No.	913	Map Index: 01492	EO Index:	28190	Element Last Seen:	: 1941-10-29
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1987-XX-XX
Осс. Туре:	Natural/N	ative occurrence	Trend:	Unknown	Record Last Update	ed: 2012-12-14
Quad Summary:	Venice (3	311884)				
County Summary:	Los Ange	les				
Lat/Long:	33.96411	/ -118.44601		Accuracy:	non-specific area	
UTM:	Zone-11	N3759118 E366401		Elevation (ft):	5	
PLSS:	T02S, R1	5W, Sec. 27, SW (S)		Acres:	108.0	
Location:	BALLONA	A CREEK, PLAYA DEL REY.				
Detailed Location:	TAKEN IN	N SALTMARSH.				
Ecological:						
General:		1 COLLECTION, LACM #7998 D 1996 SURVEY EFFORTS (.		1 (1990) CONSIDERS THIS POP	EXTIRPATED. NOT DET	FECTED IN 1981,
Owner/Manager:	DFG-BAL	LONA WETLANDS ER				
Anniella stebbi	insi				Element Code: A	RACC01060
Southern Californ	-	ard				
Listing Status:	U	None		CNDDB Element Rank	ks: Global: G3	
-	State:	None			State: S3	
	Other:	CDFW_SSC-Species of Sp	ecial Concern, U	ISFS_S-Sensitive		

 Habitat:
 General:
 GENERALLY SOUTH OF THE TRANSVERSE RANGE, EXTENDING TO NORTHWESTERN BAJA CALIFORNIA.

 OCCURS IN SANDY OR LOOSE LOAMY SOILS UNDER SPARSE VEGETATION. DISJUNCT POPULATIONS IN THE TEHACHAPI AND PIUTE MOUNTAINS IN KERN COUNTY.

 Micro:
 VARIETY OF HABITATS; GENERALLY IN MOIST, LOOSE SOIL. THEY PREFER SOILS WITH A HIGH MOISTURE CONTENT.



California Department of Fish and Wildlife



Occurrence No.	1	Map Index: A8262	EO Index:	110041		Element Last Seen:	2010-04-20
Occ. Rank:	Good		Presence:	Presumed Extan	nt	Site Last Seen:	2010-04-20
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown		Record Last Updated:	2018-01-29
Quad Summary:	Venice (3311	884)					
County Summary:	Los Angeles						
Lat/Long:	33.94184 / -1	18.43758		Ac	ccuracy:	non-specific area	
UTM:	Zone-11 N37	56638 E367147		El	evation (ft):	145	
PLSS:	T03S, R15W	, Sec. 3 (S)		Ac	cres:	311.0	
Location:		INDED BY VISTA DEL MAR DUNES ESHA.	, NAPOLEON	ST, PERSHING DI	R, & IMPERIAL	HWY, W OF LAX, LOS ANG	ELES/EL
Detailed Location:		LOCALITY FOR NEWLY DE EA WHICH IS FENCED AN		,	NSI. MAPPED	TO THE ECOLOGICALLY S	ENSITIVE
Ecological:	EMINENT D		Y OF LA FOR L	AX EXPANSION;		AS ESTATES FROM THE 1 RE REMOVED AND THE DU	
General:		IDANT REPTILE IN 1930S S 1952, 1954, 1955, 1956, 195			, , ,	942, 1944, 1945, 1946, 1947 ND 2010 (HOLOTYPE).	, 1948, 1949,
Owner/Manager:	CITY OF LO	S ANGELES					
Occurrence No.	16	Map Index: 79246	EO Index:	80225		Element Last Seen:	2009-02-22
Occ. Rank:	Poor		Presence:	Presumed Extan	nt	Site Last Seen:	2009-02-22
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown		Record Last Updated:	2010-06-30
Quad Summary:	Torrance (33	11873)					
County Summary:	Los Angeles						
Lat/Long:	33.80750 / -1	18.31861		Ac	ccuracy:	80 meters	
UTM:	Zone-11 N37	41594 E377950		El	evation (ft):	95	
PLSS:	T04S, R14W	, Sec. 26, N (S)		Ac	cres:	0.0	
Location:	ABOUT 70 N	IETERS NNW THE INTERS	ECTION OF 24	OTH STREET ANI	D BENHILL AV	E, TORRANCE.	
Detailed Location:	LOCATION N	MAPPED TO PROVIDED CO	ORDINATES.	FORMERLY A. PL	ULCHRA PULC	CHRA EO #83.	
							DV
Ecological:	HABITAT CO DEVELOPMI	ONSISTED OF THICK DECA ENT.	YING LEAVES	S AND MULCH. TH	IS SITE IS CO	MPLETELY SURROUNDED	Bĭ
Ecological: General:	DEVELOPM	ENT.				NCHES LONG) OBSERVED	



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Occurrence No.	45	Map Index: A8265	EO Index:	110046	Element Last Seen:	2005-11-24
Occ. Rank:	Fair		Presence:	Presumed Extant	Site Last Seen:	2005-11-24
Осс. Туре:	Natural/Native	e occurrence	Trend:	Unknown	Record Last Updated:	2018-01-29
Quad Summary:	Venice (3311	884)				
County Summary:	Los Angeles					
Lat/Long:	33.95844 / -1	18.45092		Accuracy:	1/10 mile	
UTM:	Zone-11 N37	58496 E365940		Elevation (ft)	: 12	
PLSS:	T02S, R15W,	Sec. 33, NE (S)		Acres:	18.0	
Location:	NEAR THE IN	NTERSECTION OF CULVE	R BLVD AND F	ACIFIC AVE ADJACENT TO	DOCKWEILER BEACH, PLAYA	DEL REY.
Detailed Location:	AT EL SEGU		PLAYA DEL R	EY. 2005 REFERRED SPEC	EAR IF THEY MAY HAVE BEEN IMEN FOR NEWLY DESCRIBE	
Ecological:	COLLECTED		A SMALL DUN	IE AREA ON THE BEACH AD	PRIMARILY VACANT LOTS. WH DJ TO PACFIC AVE ZONED AS	
General:				EY IN 1934, 1951, 1952, 1953 ESCRIBED A. STEBBINSI.	, 1955. COLLECTED AT THIS L	OCATION ON
Owner/Manager:	PVT					
Occurrence No.	46	Map Index: A8267	EO Index:	110049	Element Last Seen:	1959-05-10
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1959-05-10
Осс. Туре:	Natural/Native	e occurrence	Trend:	Unknown	Record Last Updated:	2018-01-29
Quad Summary:	Venice (3311	884)				
County Summary:	Los Angeles					
Lat/Long:	33.955 / -118	.44747		Accuracy:	1/10 mile	
UTM:	Zone-11 N37	58110 E366253		Elevation (ft)	: 55	
PLSS:	T02S, R15W,	Sec. 34, SW (S)		Acres:	18.0	
Location:	WEST END C	OF MANCHESTER RD NEA	R VISTA DEL	MAR LANE, PLAYA DEL REY	′ .	
Detailed Location:	MANCHESTE		MAR AND VIST		TEEP SLOPE AT THE W END C EA WAS NOT DEVELOPED UN	
Ecological:						
General:	ONE COLLE	CTED IN THIS AREA ON 10) MAY 1959.			
Owner/Manager:	PVT					



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Occurrence No.	47	Map Index: A8268	EO Index:	110050	Element Last Seen:	2016-05-14
Occ. Rank:	Good		Presence:	Presumed Extant	Site Last Seen:	2016-05-14
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown	Record Last Updated:	2018-12-19
Quad Summary:	Venice (331	1884)				
County Summary:	Los Angeles					
Lat/Long:	33.96252 / -	118.44982		Accuracy:	specific area	
UTM:	Zone-11 N37	758947 E366048		Elevation (ft):	15	
PLSS:	T02S, R15W	/, Sec. 33, NE (S)		Acres:	5.0	
Location:	DUNE AREA N OF PLAYA		S, E OF VISTA	DEL MAR & N OF CULVER BL	VD, W END OF BALLONA W	ETLANDS ER,
Detailed Location:				NORTH OF CULVER BLVD AT RY (BOLD) AREA (NW SEC 34)		
Ecological:	SURROUNE			R BELOW SALIX AND FOUND U CHAMISSONIS, PHACELIA RHA		
General:	MAR 2006. 2			SURVEY EFFORTS IN 1991. IN UG 2010. 1 FOUND UNDER A C		
Owner/Manager:	DFG-BALLC	NA WETLANDS ER				
Occurrence No.	48	Map Index: A8273	EO Index:	110056	Element Last Seen:	2013-02-02
Occ. Rank:	Good		Presence:	Presumed Extant	Site Last Seen:	2013-02-02
Осс. Туре:	Natural/Nativ	/e occurrence	Trend:	Unknown	Record Last Updated:	2018-01-30
Quad Summary:	Venice (331	1884)				
County Summary:	Los Angeles					
Lat/Long:	33.96697 / -	118.43237		Accuracy:	specific area	
UTM:	Zone-11 N37	759418 E367667		Elevation (ft):	7	
PLSS:	T02S, R15W	/, Sec. 27, SE (S)		Acres:	4.0	
Location:	0.5 MILE S (BALLONA W		BRIDGE OVE	R BALLONA CREEK, 0.3 MILES	W OF BLUFF CREEK DR A	Γ HWY 1,
Detailed Location:	AREA DESC	RIBED AS "DUNE WASH A	REA IN AREA	B BELOW CABORA ROAD BLU	FFS."	
Ecological:				G VEGETATION INCLUDED LO IS, HETEROTHECA GRANDIFL		
General:				H OF THE DUNE AREA ON 21 S R COVERBOARD AND PHOTO		IRMED
Owner/Manager:	DFG-BALLC	NA WETLANDS ER				



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Occurrence No.	49	Map Index: A8276	EO Index:	110057	Element Last Seen:	2013-03-02
Occ. Rank:	49 Good	Map muex. A0270	Presence:	Presumed Extant	Site Last Seen:	2013-03-02
Occ. Type:		ive occurrence	Trend:	Unknown	Record Last Updated:	2013-03-02
			Trenu.	OTIKIOWI		2010-01-30
Quad Summary:	Venice (331	,				
County Summary:	Los Angeles	S				
Lat/Long:	33.96548 / -	-118.4263		Accuracy:	specific area	
UTM:	Zone-11 N3	3759245 E368226		Elevation (ft)	: 54	
PLSS:	T02S, R15V	<i>N</i> , Sec. 26, SW (S)		Acres:	4.0	
Location:	W SIDE OF WETLANDS		LONG THE N S	IDE OF DECOMMISSIONED	CABORA DR, SE CORNER OF	BALLONA
Detailed Location:	SOUTHEAS	ST BALLONA WETLANDS A	REA B.			
Ecological:	FOUND UN	IDER COVER OBJECTS IN	SANDY, COAS	TAL GRASSLAND.		
General:	ONE FOUN	ID AND PHOTOGRAPHED	ON 2 FEB, AND	FIVE FOUND AND PHOTOG	RAPHED ON 2 MAR, 2013.	
Owner/Manager:	DFG-BALLO	ONA WETLANDS ER				
Occurrence No.	50	Map Index: A8280	EO Index:	110063	Element Last Seen:	2004-05-23
Occ. Rank:	Poor		Presence:	Presumed Extant	Site Last Seen:	2004-05-23
Осс. Туре:	Natural/Nati	ive occurrence	Trend:	Unknown	Record Last Updated:	2018-04-20
Quad Summary:	Venice (331	11884)				
Quad Summary: County Summary:	Venice (331 Los Angeles	,				
-		s		Accuracy:	non-specific area	
County Summary:	Los Angeles 33.92966 / -	s		Accuracy: Elevation (ft)		
County Summary: Lat/Long:	Los Angeles 33.92966 / - Zone-11 N3	s -118.43512				
County Summary: Lat/Long: UTM:	Los Angeles 33.92966 / - Zone-11 N3 T03S, R15V	s -118.43512 8755284 E367355 W, Sec. 10, E (S) DF VISTA DEL MAR, S OF IM	/PERIAL HWY a	Elevation (ft) Acres:	: 24	ENT PLANT, W
County Summary: Lat/Long: UTM: PLSS:	Los Angeles 33.92966 / - Zone-11 N3 T03S, R15V VICINITY O OF EL SEG 1940S COL TOPOS) AD	s -118.43512 3755284 E367355 <i>N</i> , Sec. 10, E (S) DF VISTA DEL MAR, S OF IN GUNDO. LLECTIONS LIKELY FROM N	VICINITY OF TH SEWAGE TREA	Elevation (ft) Acres: N OF GRAND AVE, NEAR H	: 24 174.0	SEE HISTORIC
County Summary: Lat/Long: UTM: PLSS: Location:	Los Angeles 33.92966 / - Zone-11 N3 T03S, R15V VICINITY O OF EL SEG 1940S COL TOPOS) AE STATE BEA HISTORICA TO THE NO	S -118.43512 3755284 E367355 W, Sec. 10, E (S) DF VISTA DEL MAR, S OF IN GUNDO. LECTIONS LIKELY FROM N DJ TO WHAT IS NOW THE S ACH ENTRANCE S OF IMPI ALLY (1940S-1950S) THIS V	VICINITY OF TH SEWAGE TREA ERIAL HWY. VAS A LARGE E ABOUT 500 ME	Elevation (ft) Acres: A N OF GRAND AVE, NEAR H E BEACH & DUNES NEAR T TMENT PLANT (BUILT ~1950 DUNE COMPLEX CONTINUO	: 24 174.0 HYPERION SEWAGE TREATME HE OLD SEWAGE OUTLETS (S	SEE HISTORIC DM NEAR S (PRESERVE)
County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Los Angeles 33.92966 / - Zone-11 N3 T03S, R15V VICINITY O OF EL SEG 1940S COL TOPOS) AE STATE BEA HISTORICA TO THE NO SEGUNDO. TWO COLL	S -118.43512 3755284 E367355 W, Sec. 10, E (S) DF VISTA DEL MAR, S OF IN GUNDO. LECTIONS LIKELY FROM V DJ TO WHAT IS NOW THE S ACH ENTRANCE S OF IMPI ALLY (1940S-1950S) THIS V DRTH EXTENDING INLAND . ONLY REMNANT HABITA .ECTED ON 4 MAR 1918. O	VICINITY OF TH SEWAGE TREA ERIAL HWY. VAS A LARGE E ABOUT 500 ME T LEFT. NE COLLECTEI	Elevation (ft) Acres: A N OF GRAND AVE, NEAR H E BEACH & DUNES NEAR T TMENT PLANT (BUILT ~1950 DUNE COMPLEX CONTINUO TERS FROM VISTA DEL MA	24 174.0 HYPERION SEWAGE TREATME HE OLD SEWAGE OUTLETS (S)). MODERN COLLECTION FRO US WITH EL SEGUNDO DUNES R TO THE NEIGHBORHOODS ECTED ON 5 MAY 1946. THREE	SEE HISTORIC DM NEAR S (PRESERVE) OF EL



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Occurrence No.	51	Map Index: A8281	EO Index:	110064	Element Last Seen:	1956-10-24
Occ. Rank:	Poor		Presence:	Presumed Extant	Site Last Seen:	1956-10-24
Осс. Туре:	Natural/Nati	ve occurrence	Trend:	Unknown	Record Last Updated:	2018-01-30
Quad Summary:	Venice (331	1884)				
County Summary:	Los Angeles	6				
Lat/Long:	33.891 / -11	8.40707		Accuracy:	1/5 mile	
UTM:	Zone-11 N3	750961 E369889		Elevation (ft):	181	
PLSS:	T03S, R15V	V, Sec. 24, S (S)		Acres:	70.0	
Location:	SOUTHEAS	ST OF ARDMORE AVE AND	NW OF 13TH	ST AT LAUREL AVE, MANHATT	AN BEACH.	
Detailed Location:	COLLECTIO		ND IN YARD OF	ET, THOUGH HOUSES WERE (R NEARBY UNDEVELOPED HAB) HERE.		
Ecological:	1947, AND		BUILT AROUN	THIS GENERAL AREA WITH DU ID 1950. SIMILAR TO MODERN		
General:		ENERALLY FROM MANHAT 19TH ST ON 24 OCT 1956.	TAN BEACH F	ROM COLLECTIONS IN 1934, 19	936, 1957, AND 1964. ONE C	OLLECTED
Owner/Meneger						
Owner/Manager:	PVT					
Occurrence No.	52	Map Index: A8282	EO Index:	110065	Element Last Seen:	2016-06-29
		Map Index: A8282	EO Index: Presence:	110065 Presumed Extant	Element Last Seen: Site Last Seen:	2016-06-29 2016-06-29
Occurrence No.	52 Poor	Map Index: A8282				
Occurrence No. Occ. Rank:	52 Poor	ve occurrence	Presence:	Presumed Extant	Site Last Seen:	2016-06-29
Occurrence No. Occ. Rank: Occ. Type:	52 Poor Natural/Nati	ve occurrence 1884)	Presence:	Presumed Extant	Site Last Seen:	2016-06-29
Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	52 Poor Natural/Nati Venice (331	ve occurrence 1884) S	Presence:	Presumed Extant	Site Last Seen:	2016-06-29
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	52 Poor Natural/Nati Venice (331 Los Angeles 33.89901 / -	ve occurrence 1884) S	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	2016-06-29
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	52 Poor Natural/Nati Venice (331 Los Angeles 33.89901 / - Zone-11 N3	ve occurrence 1884) s 118.41963	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: non-specific area	2016-06-29
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	52 Poor Natural/Nati Venice (331 Los Angeles 33.89901 / - Zone-11 N3 T03S, R15V	ve occurrence 1884) 5 118.41963 751866 E368740 V, Sec. 23, NE (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: non-specific area 20 7.0	2016-06-29
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	52 Poor Natural/Nati Venice (331 Los Angeles 33.89901 / - Zone-11 N3 T03S, R15V VICINITY O UNCERTAI	ve occurrence 1884) 5 118.41963 751866 E368740 V, Sec. 23, NE (S) F MANHATTAN COUNTY B	Presence: Trend: EACH AT THE PEAR TO SHO	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: non-specific area 20 7.0 VE, MANHATTAN BEACH.	2016-06-29 2018-12-19
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	52 Poor Natural/Nati Venice (331 Los Angeles 33.89901 / - Zone-11 N3 T03S, R15V VICINITY O UNCERTAL AND BIKE T	ve occurrence 1884) 5 118.41963 751866 E368740 V, Sec. 23, NE (S) F MANHATTAN COUNTY B N, BUT AERIAL IMAGES AP FRAIL SOUTH OF ROSECRA	Presence: Trend: EACH AT THE PPEAR TO SHO ANS AVE.	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: WEST END OF ROSECRANS A	Site Last Seen: Record Last Updated: non-specific area 20 7.0 VE, MANHATTAN BEACH. NANT DUNE HABITAT ALON	2016-06-29 2018-12-19
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	52 Poor Natural/Nati Venice (331 Los Angeles 33.89901 / - Zone-11 N3 T03S, R15V VICINITY O UNCERTAI AND BIKE T INDIVIDUAI	ve occurrence 1884) 5 118.41963 751866 E368740 V, Sec. 23, NE (S) F MANHATTAN COUNTY B N, BUT AERIAL IMAGES AP FRAIL SOUTH OF ROSECRA L PHOTOGRAPHED IN 2016	Presence: Trend: EACH AT THE PPEAR TO SHO ANS AVE. S SEEN ON SID	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: WEST END OF ROSECRANS A W MORE APPROPRIATE, REM	Site Last Seen: Record Last Updated: non-specific area 20 7.0 VE, MANHATTAN BEACH. NANT DUNE HABITAT ALON	2016-06-29 2018-12-19



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Occurrence No.	53	Map Index: A8283	EO Index:	110066	Element Last Seen:	1961-03-04
Occ. Rank:	Poor		Presence:	Presumed Extant	Site Last Seen:	1961-03-04
Осс. Туре:	Natural/Nat	tive occurrence	Trend:	Unknown	Record Last Updated:	2018-01-30
Quad Summary:	Venice (337	11884)				
County Summary:	Los Angele	S				
Lat/Long:	33.88564 /	-118.40038		Accuracy:	1/10 mile	
UTM:	Zone-11 N3	3750359 E370500		Elevation (ft):	112	
PLSS:	T03S, R15	W, Sec. 25, NE (S)		Acres:	18.0	
Location:	VICINITY C	OF 10TH ST AT POINSETTIA	AVE, TWO BL	OCKS WEST OF SEPULVEDA	BLVD (HIGHWAY 1), MANHA	TTAN BEACH.
Detailed Location:						
Ecological:		A WAS NEARLY COMPLETE T LIKELY FROM REMNANT		D BY 1956, AND COMPLETELY DMEONE'S YARD.	DEVELOPED BY 1960. THIS	S COLLECTION
General:	ONE COLL	ECTED ON 4 MAR 1961.				
Owner/Manager:	PVT					
Occurrence No.	54	Map Index: A8285	EO Index:	110068	Element Last Seen:	1989-03-15
Occurrence No. Occ. Rank:	54 Poor	Map Index: A8285	EO Index: Presence:	110068 Presumed Extant	Element Last Seen: Site Last Seen:	1989-03-15 1989-03-15
	Poor	Map Index: A8285				
Occ. Rank:	Poor	tive occurrence	Presence:	Presumed Extant	Site Last Seen:	1989-03-15
Occ. Rank: Occ. Type:	Poor Natural/Nat	tive occurrence	Presence:	Presumed Extant	Site Last Seen:	1989-03-15
Occ. Rank: Occ. Type: Quad Summary:	Poor Natural/Nat Venice (33 Los Angele	tive occurrence	Presence:	Presumed Extant	Site Last Seen:	1989-03-15
Occ. Rank: Occ. Type: Quad Summary: County Summary:	Poor Natural/Nat Venice (33 Los Angele 33.87809 /	tive occurrence 11884) s	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	1989-03-15
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	Poor Natural/Nat Venice (33 Los Angele 33.87809 / Zone-11 N3	tive occurrence 11884) •s -118.40616	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: 1/10 mile	1989-03-15
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Poor Natural/Nat Venice (33 Los Angele 33.87809 / Zone-11 N3 T03S, R15	tive occurrence 11884) -s -118.40616 3749528 E369954 W, Sec. 25, S (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: 1/10 mile 95 18.0	1989-03-15
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Poor Natural/Nat Venice (33 Los Angele 33.87809 / Zone-11 N3 T03S, R15	tive occurrence 11884) -s -118.40616 3749528 E369954 W, Sec. 25, S (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/10 mile 95 18.0	1989-03-15
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Poor Natural/Nat Venice (33* Los Angele 33.87809 / Zone-11 N3 T03S, R15V VICINITY C THIS AREA	tive occurrence 11884) 118.40616 3749528 E369954 W, Sec. 25, S (S) DF 1ST STREET AT HIGHLA	Presence: Trend: ND AVE, 4 BLC BY THE 1940S-	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: PCKS EAST OF THE BEACH, M. 1950S. THIS WAS LIKELY COLU	Site Last Seen: Record Last Updated: 1/10 mile 95 18.0 ANHATTAN BEACH.	1989-03-15 2018-01-30
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Poor Natural/Nat Venice (33 Los Angele 33.87809 / Zone-11 N3 T03S, R15 VICINITY C THIS AREA SOMEONE	tive occurrence 11884) -118.40616 3749528 E369954 W, Sec. 25, S (S) DF 1ST STREET AT HIGHLA	Presence: Trend: ND AVE, 4 BLC BY THE 1940S-	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: PCKS EAST OF THE BEACH, M. 1950S. THIS WAS LIKELY COLU	Site Last Seen: Record Last Updated: 1/10 mile 95 18.0 ANHATTAN BEACH.	1989-03-15 2018-01-30



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Occurrence No.	55 Map Index: A9105	EO Index:	110941	Element Last Seen:	1965-07-02
Occ. Rank:	Poor	Presence:	Presumed Extant	Site Last Seen:	1965-07-02
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2018-04-20
Quad Summary:	Redondo Beach (3311874)				
County Summary:	Los Angeles				
Lat/Long:	33.86443 / -118.39321		Accuracy:	1/5 mile	
UTM:	Zone-11 N3747998 E371132		Elevation (ft):	94	
PLSS:	T03S, R14W, Sec. 31, W (S)		Acres:	70.0	
Location:	VICINITY OF PIER AVE AND PACIFIC	COAST HIGHW	'AY (HIGHWAY 1), HERMOSA E	BEACH.	
Detailed Location:	COLLECTED AT VACANT LOT. AREA W HIGHWAY WAS RESIDENTIAL HOUSE HERMOSA BEACH SPECIMENS INCLU	S, ONE LOT A			
Ecological:	COLLECTED FROM A VACANT LOT. A PRIMARILY DEVELOPED AT THE TIME				HE AREA WAS
General: Owner/Manager:	HISTORIC HERMOSA BEACH COLLEC ON ON 2 JUL 1965 (CARL GANS COLL UNKNOWN			TED FROM A VACANT LOT I	N THIS AREA
_					
Occurrence No.	56 Map Index: A9112	EO Index:	110947	Element Last Seen:	2002-08-18
Occ. Rank:	Poor	Presence:	Presumed Extant	Site Last Seen:	2002-08-18
	•				
Occ. Rank:	Poor	Presence:	Presumed Extant	Site Last Seen:	2002-08-18
Occ. Rank: Occ. Type:	Poor Natural/Native occurrence	Presence:	Presumed Extant	Site Last Seen:	2002-08-18
Occ. Rank: Occ. Type: Quad Summary:	Poor Natural/Native occurrence Redondo Beach (3311874)	Presence:	Presumed Extant	Site Last Seen:	2002-08-18
Occ. Rank: Occ. Type: Quad Summary: County Summary:	Poor Natural/Native occurrence Redondo Beach (3311874) Los Angeles	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	2002-08-18
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	Poor Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.87306 / -118.40175	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: 1/10 mile	2002-08-18
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Poor Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.87306 / -118.40175 Zone-11 N3748965 E370355	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/10 mile 72 18.0	2002-08-18
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Poor Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.87306 / -118.40175 Zone-11 N3748965 E370355 T03S, R15W, Sec. 36, N (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/10 mile 72 18.0	2002-08-18
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Poor Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.87306 / -118.40175 Zone-11 N3748965 E370355 T03S, R15W, Sec. 36, N (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/10 mile 72 18.0	2002-08-18
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Poor Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.87306 / -118.40175 Zone-11 N3748965 E370355 T03S, R15W, Sec. 36, N (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/10 mile 72 18.0	2002-08-18



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Occurrence No.	57	Map Index: A9113	EO Index:	110948	Element Last Seen:	1976-03-01
Occ. Rank:	Poor		Presence:	Presumed Extant	Site Last Seen:	1976-03-01
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown	Record Last Updated:	2018-04-24
Quad Summary:	Redondo Bea	ach (3311874)				
County Summary:	Los Angeles					
Lat/Long:	33.84152 / -1	18.38969		Accuracy:	3/5 mile	
UTM:	Zone-11 N37	45453 E371423		Elevation (ft):	61	
PLSS:	T04S, R14W	, Sec. 7 (S)		Acres:	776.0	
Location:	REDONDO E	BEACH.				
Detailed Location:	UNTIL ABOL			RAL AREA NEAR HISTORIC PC 625 CATALINA AVE, IS UNCER		
Ecological:		CTED IN A SANDY AREA WAS "FROM THE SAND E		A BOARD. GRINNELL MENTIOI EDONDO."	NS IN GRI07A0001 THAT HIS	COLLECTIO
General:	COLLECTED) IN 1904, 1915, 1963, ANI	D 1976.			
Owner/Manager:	UNKNOWN					
Occurrence No.	58	Map Index: A9114	EO Index:	110949	Element Last Seen:	2001-04-22
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	2001-04-22
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown	Record Last Updated:	2018-04-20
Quad Summary:	Redondo Bea	ach (3311874)				
County Summary:	Los Angeles					
_at/Long:	33.80981 / -1	18.39244		Accuracy:	non-specific area	
JTM:	Zone-11 N37	41940 E371120		Elevation (ft):	5	
PLSS:						
200.	T04S, R14W	, Sec. 19, S (S)		Acres:	62.0	
			OF THE PALO	Acres: S VERDES ESTATES AND SOL		
Location:	TORRANCE	COUNTY BEACH, NORTH			JTH OF REDONDO BEACH.	
Location: Detailed Location:	TORRANCE	COUNTY BEACH, NORTH		S VERDES ESTATES AND SOU	JTH OF REDONDO BEACH.	
Location: Detailed Location: Ecological:	TORRANCE MAPPED NC	COUNTY BEACH, NORTH		S VERDES ESTATES AND SOU	JTH OF REDONDO BEACH.	
Location: Detailed Location: Ecological: General:	TORRANCE MAPPED NC	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BE/ CTED ON 22 APR 2001.		S VERDES ESTATES AND SOU	JTH OF REDONDO BEACH.	
Location: Detailed Location: Ecological: General: Dwner/Manager:	TORRANCE MAPPED NC	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BE/ CTED ON 22 APR 2001.		S VERDES ESTATES AND SOU	JTH OF REDONDO BEACH.	1968-07-07
Location: Detailed Location: Ecological: General: Dwner/Manager: Doccurrence No.	TORRANCE MAPPED NC ONE COLLE LAX COUNT	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BE/ CTED ON 22 APR 2001. Y	ACH AREA FRO	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO	JTH OF REDONDO BEACH. MIRAMAR PARK.	1968-07-07 1968-07-07
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank:	TORRANCE MAPPED NC ONE COLLE LAX COUNT 59 Poor	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BE/ CTED ON 22 APR 2001. Y	ACH AREA FRO	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO 110950	JTH OF REDONDO BEACH. MIRAMAR PARK. Element Last Seen:	
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type:	TORRANCE MAPPED NC ONE COLLE LAX COUNT 59 Poor Natural/Nativ	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BE/ CTED ON 22 APR 2001. Y Map Index: A9115 e occurrence	ACH AREA FRO EO Index: Presence:	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO 110950 Presumed Extant	JTH OF REDONDO BEACH. MIRAMAR PARK. Element Last Seen: Site Last Seen:	1968-07-07
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary:	TORRANCE MAPPED NC ONE COLLE LAX COUNT 59 Poor	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BE/ CTED ON 22 APR 2001. Y Map Index: A9115 e occurrence	ACH AREA FRO EO Index: Presence:	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO 110950 Presumed Extant	JTH OF REDONDO BEACH. MIRAMAR PARK. Element Last Seen: Site Last Seen:	1968-07-07
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary:	TORRANCE MAPPED NC ONE COLLE LAX COUNT 59 Poor Natural/Nativ Torrance (33	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BEA CTED ON 22 APR 2001. Y Map Index: A9115 e occurrence 11873)	ACH AREA FRO EO Index: Presence:	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO 110950 Presumed Extant	JTH OF REDONDO BEACH. MIRAMAR PARK. Element Last Seen: Site Last Seen:	1968-07-07
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long:	TORRANCE MAPPED NC ONE COLLE LAX COUNT 59 Poor Natural/Nativ Torrance (33 Los Angeles 33.80538 / -1	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BEA CTED ON 22 APR 2001. Y Map Index: A9115 e occurrence 11873)	ACH AREA FRO EO Index: Presence:	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO 110950 Presumed Extant Unknown	JTH OF REDONDO BEACH. MIRAMAR PARK. Element Last Seen: Site Last Seen: Record Last Updated:	1968-07-07
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long: JTM:	TORRANCE MAPPED NC ONE COLLE LAX COUNT 59 Poor Natural/Nativ Torrance (33 Los Angeles 33.80538 / -1 Zone-11 N37	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BEA CTED ON 22 APR 2001. Y Map Index: A9115 e occurrence 11873) 18.31465	ACH AREA FRO EO Index: Presence:	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO 110950 Presumed Extant Unknown Accuracy:	JTH OF REDONDO BEACH. MIRAMAR PARK. Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile	1968-07-07
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	TORRANCE MAPPED NC ONE COLLE LAX COUNT 59 Poor Natural/Nativ Torrance (33 Los Angeles 33.80538 / -1 Zone-11 N37 T04S, R14W	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BE/ CTED ON 22 APR 2001. Y Map Index: A9115 e occurrence 11873) 18.31465 41355 E378315	ACH AREA FRO EO Index: Presence: Trend:	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO 110950 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	JTH OF REDONDO BEACH. MIRAMAR PARK. Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 89	1968-07-07
Location: Detailed Location: Ecological: General: Dwner/Manager: Doccurrence No. Docc. Rank: Docc. Type: Quad Summary: County Summary: Lat/Long: JTM: PLSS: Location:	TORRANCE MAPPED NC ONE COLLE LAX COUNT 59 Poor Natural/Nativ Torrance (33 Los Angeles 33.80538 / -1 Zone-11 N37 T04S, R14W	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BE/ CTED ON 22 APR 2001. Y Map Index: A9115 e occurrence 11873) 18.31465 41355 E378315 , Sec. 26, NE (S)	ACH AREA FRO EO Index: Presence: Trend:	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO 110950 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	JTH OF REDONDO BEACH. MIRAMAR PARK. Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 89	1968-07-07
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	TORRANCE MAPPED NC ONE COLLE LAX COUNT 59 Poor Natural/Nativ Torrance (33 Los Angeles 33.80538 / -1 Zone-11 N37 T04S, R14W	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BE/ CTED ON 22 APR 2001. Y Map Index: A9115 e occurrence 11873) 18.31465 41355 E378315 , Sec. 26, NE (S)	ACH AREA FRO EO Index: Presence: Trend:	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO 110950 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	JTH OF REDONDO BEACH. MIRAMAR PARK. Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 89	1968-07-07
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General:	TORRANCE MAPPED NC ONE COLLE LAX COUNT 59 Poor Natural/Nativ Torrance (33 Los Angeles 33.80538 / -1 Zone-11 N37 T04S, R14W VICINITY OF CHASE COL	COUNTY BEACH, NORTH DN-SPECIFICALLY TO BEACH CTED ON 22 APR 2001. Y Map Index: A9115 e occurrence 11873) 18.31465 41355 E378315 , Sec. 26, NE (S) ESHELMAN AVENUE AT	ACH AREA FRO EO Index: Presence: Trend: 242ND STREE ⁻ IMENS FROM T	S VERDES ESTATES AND SOU M MALAGA COVE NORTH TO 110950 Presumed Extant Unknown Accuracy: Elevation (ft): Acres: F, LOMITA.	JTH OF REDONDO BEACH. MIRAMAR PARK. Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 89 18.0	1968-07-07 2018-04-20



California Department of Fish and Wildlife



Occurrence No.	60	Map Index: A9117	EO Index:	110951		Element Last Seen:	2012-12-07
Occ. Rank:	Unknown		Presence:	Presumed Ext	tant	Site Last Seen:	2012-12-07
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown		Record Last Updated:	2018-04-23
Quad Summary:	Torrance (33	11873)					
County Summary:	Los Angeles						
Lat/Long:	33.84953 / -1	18.34174			Accuracy:	80 meters	
UTM:	Zone-11 N37	46283 E375870			Elevation (ft):	91	
PLSS:	T04S, R14W	, Sec. 3, SW (S)			Acres:	5.0	
Location:	ABOUT 0.2 M	MILE ENE OF PRAIRIE AV	E AT DEL AMO	BLVD, SE OF F	RAILROAD TRAC	KS, TORRANCE.	
Detailed Location:							
Ecological:	FOUND BY A	ARTIFICIAL COVER FLIPF	ING ON A SANI	DY HILL BORDE	ERING DISTRES	SED HABITAT.	
General:	ONE FOUND	AND PHOTOGRAPHED	WHILE DEBRIS	FLIPPING ON 7	7 DEC 2012.		
Owner/Manager:	UNKNOWN						
Occurrence No.	61	Map Index: A9118	EO Index:	110952		Element Last Seen:	2011-05-15
Occ. Rank:	Unknown		Presence:	Presumed Ext	tant	Site Last Seen:	2011-05-15
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown		Record Last Updated:	2018-04-23
Quad Summary:	Torrance (33	11873)					
County Summary:	Los Angeles						
Lat/Long:	33.86373 / -1	18 3576			Accuracy:	80 meters	
UTM:		47876 E374424			Elevation (ft):	100	
PLSS:		, Sec. 33, SW (S)			Acres:	5.0	
		, 000. 00, 011 (0)			A0100.	0.0	
Location:			ND STREET. T			0.0	
Location: Detailed Location:		RK, SOUTH OF WEST 182	2ND STREET, T				
			2ND STREET, T				
Detailed Location:	EL NIDO PA			ORRANCE.			
Detailed Location: Ecological: General:	EL NIDO PA	RK, SOUTH OF WEST 182		ORRANCE.			
Detailed Location: Ecological: General: Owner/Manager:	EL NIDO PA	RK, SOUTH OF WEST 182		ORRANCE.		Element Last Seen:	1957-10-28
Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	EL NIDO PA ONE FOUNE CITY OF TO	RK, SOUTH OF WEST 182 O AND PHOTOGRAPHED RRANCE	WHILE DEBRIS	ORRANCE. FLIPPING ON 1	15 MAY 2011.		1957-10-28 1957-10-28
Detailed Location: Ecological: General:	EL NIDO PA ONE FOUNE CITY OF TO 63 Poor	RK, SOUTH OF WEST 182 O AND PHOTOGRAPHED RRANCE	WHILE DEBRIS	ORRANCE. FLIPPING ON 1 110954	15 MAY 2011.	Element Last Seen:	
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	EL NIDO PA ONE FOUNE CITY OF TO 63 Poor Natural/Nativ	RK, SOUTH OF WEST 182 O AND PHOTOGRAPHED RRANCE Map Index: A9120 re occurrence	WHILE DEBRIS EO Index: Presence:	ORRANCE. FLIPPING ON 1 110954 Presumed Ext	15 MAY 2011.	Element Last Seen: Site Last Seen:	1957-10-28
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	EL NIDO PA ONE FOUNE CITY OF TO 63 Poor	RK, SOUTH OF WEST 182 O AND PHOTOGRAPHED RRANCE Map Index: A9120 re occurrence	WHILE DEBRIS EO Index: Presence:	ORRANCE. FLIPPING ON 1 110954 Presumed Ext	15 MAY 2011.	Element Last Seen: Site Last Seen:	1957-10-28
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	EL NIDO PA ONE FOUNE CITY OF TO 63 Poor Natural/Nativ Inglewood (3	RK, SOUTH OF WEST 182 O AND PHOTOGRAPHED RRANCE Map Index: A9120 re occurrence 311883)	WHILE DEBRIS EO Index: Presence:	ORRANCE. FLIPPING ON 1 110954 Presumed Ext Unknown	15 MAY 2011.	Element Last Seen: Site Last Seen:	1957-10-28
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	EL NIDO PA ONE FOUNE CITY OF TO 63 Poor Natural/Nativ Inglewood (3 Los Angeles 33.88753 / -1	RK, SOUTH OF WEST 182 O AND PHOTOGRAPHED RRANCE Map Index: A9120 re occurrence 311883)	WHILE DEBRIS EO Index: Presence:	ORRANCE. FLIPPING ON 1 110954 Presumed Ext Unknown	15 MAY 2011. tant	Element Last Seen: Site Last Seen: Record Last Updated:	1957-10-28
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	EL NIDO PA ONE FOUNE CITY OF TO 63 Poor Natural/Nativ Inglewood (3 Los Angeles 33.88753 / -1 Zone-11 N37	RK, SOUTH OF WEST 182 O AND PHOTOGRAPHED RRANCE Map Index: A9120 re occurrence 311883)	WHILE DEBRIS EO Index: Presence:	ORRANCE. FLIPPING ON 1 110954 Presumed Ext Unknown	15 MAY 2011. tant Accuracy:	Element Last Seen: Site Last Seen: Record Last Updated: non-specific area	1957-10-28
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	EL NIDO PA ONE FOUNE CITY OF TO 63 Poor Natural/Nativ Inglewood (3 Los Angeles 33.88753 / -1 Zone-11 N37 T03S, R14W	RK, SOUTH OF WEST 182 AND PHOTOGRAPHED RRANCE Map Index: A9120 re occurrence 311883) 18.33924 750492 E376157 5, Sec. 22, SW (S)	WHILE DEBRIS EO Index: Presence: Trend:	ORRANCE. FLIPPING ON 1 110954 Presumed Ext Unknown	15 MAY 2011. tant Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 45	1957-10-28
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	EL NIDO PA ONE FOUNE CITY OF TO 63 Poor Natural/Nativ Inglewood (3 Los Angeles 33.88753 / -1 Zone-11 N37 T03S, R14W VICINITY OF 1952 & 1959 MOST LIKEL	RK, SOUTH OF WEST 182 O AND PHOTOGRAPHED RRANCE Map Index: A9120 re occurrence 311883) 18.33924 750492 E376157 r, Sec. 22, SW (S) DOTY AVE AT MANHAT AERIAL IMAGES SHOW	WHILE DEBRIS EO Index: Presence: Trend: TAN BEACH BLY TAN BEACH BLY	ORRANCE. FLIPPING ON 1 110954 Presumed Ext Unknown /D, LAWNDALE THE AREA WA	15 MAY 2011. tant Accuracy: Elevation (ft): Acres: S RECENTLY D	Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 45	1957-10-28 2018-04-23
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	EL NIDO PA ONE FOUNE CITY OF TO 63 Poor Natural/Nativ Inglewood (3 Los Angeles 33.88753 / -1 Zone-11 N37 T03S, R14W VICINITY OF 1952 & 1959 MOST LIKEL	RK, SOUTH OF WEST 182 AND PHOTOGRAPHED RRANCE Map Index: A9120 re occurrence 311883) 18.33924 750492 E376157 5 Sec. 22, SW (S) DOTY AVE AT MANHAT AERIAL IMAGES SHOW Y AREA OF COLLECTION	WHILE DEBRIS EO Index: Presence: Trend: TAN BEACH BLY TAN BEACH BLY	ORRANCE. FLIPPING ON 1 110954 Presumed Ext Unknown /D, LAWNDALE THE AREA WA	15 MAY 2011. tant Accuracy: Elevation (ft): Acres: S RECENTLY D	Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 45 124.0 EVELOPED AS RESIDENTIA	1957-10-28 2018-04-23
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	EL NIDO PA ONE FOUNE CITY OF TO 63 Poor Natural/Nativ Inglewood (3 Los Angeles 33.88753 / -1 Zone-11 N37 T03S, R14W VICINITY OF 1952 & 1959 MOST LIKEL WHAT IS NO L. KLAUBER WHICH IS A	RK, SOUTH OF WEST 182 AND PHOTOGRAPHED RRANCE Map Index: A9120 re occurrence 311883) 18.33924 750492 E376157 5, Sec. 22, SW (S) DOTY AVE AT MANHAT AERIAL IMAGES SHOW Y AREA OF COLLECTION W ALONDRA PARK SOU	WHILE DEBRIS EO Index: Presence: Trend: TAN BEACH BLY TAN BEACH BLY THAT MOST OF WAS MARK TY TH OF DOTY. LICATION THAT	ORRANCE. FLIPPING ON 1 110954 Presumed Ext Unknown /D, LAWNDALE THE AREA WA VAIN ELEMENT F ANNIELLA WA	15 MAY 2011. tant Accuracy: Elevation (ft): Acres: E. AS RECENTLY D TARY SCHOOL C AS KNOWN FRO	Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 45 124.0 EVELOPED AS RESIDENTIA	1957-10-28 2018-04-23 L HOUSING. THE TIME) O S COUNTY,



California Department of Fish and Wildlife



Occurrence No.	•	ex: A9121	EO Index:	110955		Element Last Seen:	1939-05-29
Occ. Rank:	Poor		Presence:	Presumed E	xtant	Site Last Seen:	1939-05-29
Осс. Туре:	Natural/Native occurrence	ce	Trend:	Unknown		Record Last Updated:	2018-04-23
Quad Summary:	South Gate (3311882)						
County Summary:	Los Angeles						
Lat/Long:	33.95471 / -118.21127				Accuracy:	1 mile	
UTM:	Zone-11 N3757795 E38	8079			Elevation (ft):	114	
PLSS:	T02S, R13W, Sec. 35 (S	6)			Acres:	1987.0	
Location:	CITY OF SOUTH GATE	, LOS ANGELES (COUNTY.				
Detailed Location:	MAPPED NON-SPECIFI	ICALLY CENTERE	ED AT THE S	OUTH GATE F	POST OFFICE.		
Ecological:					H MANY VACANT	LOTS BISECTED WITH WA	LKING PATHS;
General:	EXTENSIVE RESIDENT ONE COLLECTED ON 2	_		MD 19505.			
Owner/Manager:	UNKNOWN	LO MIAT 1000.					
Occurrence No.	70 Map Inde	ex: A9136	EO Index:	110970		Element Last Seen:	1952-XX-XX
Occurrence No. Occ. Rank:	70 Map Inde Poor	ex: A9136	EO Index: Presence:	110970 Presumed E	xtant	Element Last Seen: Site Last Seen:	1952-XX-XX 1952-XX-XX
					xtant		
Occ. Rank:	Poor	ce	Presence: Trend:	Presumed E	xtant	Site Last Seen:	1952-XX-XX
Occ. Rank: Occ. Type:	Poor Natural/Native occurrence	ce	Presence: Trend:	Presumed E	xtant	Site Last Seen:	1952-XX-XX
Occ. Rank: Occ. Type: Quad Summary:	Poor Natural/Native occurrenc Venice (3311884), Beve	ce	Presence: Trend:	Presumed E	xtant Accuracy:	Site Last Seen:	1952-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary:	Poor Natural/Native occurrenc Venice (3311884), Bever Los Angeles	ce rly Hills (3411814)	Presence: Trend:	Presumed E		Site Last Seen: Record Last Updated:	1952-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	Poor Natural/Native occurrence Venice (3311884), Bever Los Angeles 34.0066 / -118.46009	ce rly Hills (3411814) 5169	Presence: Trend:	Presumed E	Accuracy:	Site Last Seen: Record Last Updated: 1 mile	1952-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Poor Natural/Native occurrence Venice (3311884), Bever Los Angeles 34.0066 / -118.46009 Zone-11 N3763849 E368	ce rly Hills (3411814) 5169	Presence: Trend:	Presumed E	Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: 1 mile 34	1952-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Poor Natural/Native occurrence Venice (3311884), Bever Los Angeles 34.0066 / -118.46009 Zone-11 N3763849 E363 T02S, R15W, Sec. 9 (S) VENICE, LOS ANGELES EXACT LOCATION OF	ce rly Hills (3411814) 5169 S COUNTY. COLLECTION UNI ID. 1947, 1952, & 1	Presence: Trend: KNOWN. CUI	Presumed E Unknown NNINGHAM M S INDICATE T	Accuracy: Elevation (ft): Acres: ADE OTHER COL	Site Last Seen: Record Last Updated: 1 mile 34	1952-XX-XX 2018-04-24
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Poor Natural/Native occurrence Venice (3311884), Bever Los Angeles 34.0066 / -118.46009 Zone-11 N3763849 E363 T02S, R15W, Sec. 9 (S) VENICE, LOS ANGELES EXACT LOCATION OF O PENMAR PLAYGROUN	ce rly Hills (3411814) 5169 S COUNTY. COLLECTION UN ID. 1947, 1952, & 2 LY OPEN SPACE	Presence: Trend: KNOWN. CUI 1956 AERIAL AT THE TIME	Presumed E Unknown NNINGHAM M S INDICATE T	Accuracy: Elevation (ft): Acres: ADE OTHER COL	Site Last Seen: Record Last Updated: 1 mile 34 1987.0 LECTIONS AROUND THIS T	1952-XX-XX 2018-04-24
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Poor Natural/Native occurrence Venice (3311884), Bever Los Angeles 34.0066 / -118.46009 Zone-11 N3763849 E363 T02S, R15W, Sec. 9 (S) VENICE, LOS ANGELES EXACT LOCATION OF OP PENMAR PLAYGROUN CENTER WAS THE ON	ce rly Hills (3411814) 5169 S COUNTY. COLLECTION UNI ID. 1947, 1952, & 7 LY OPEN SPACE FRUCTED AROUN	Presence: Trend: KNOWN. CUI 1956 AERIAL AT THE TIME	Presumed E Unknown NNINGHAM M S INDICATE T	Accuracy: Elevation (ft): Acres: ADE OTHER COL	Site Last Seen: Record Last Updated: 1 mile 34 1987.0 LECTIONS AROUND THIS T	1952-XX-XX 2018-04-24



California Department of Fish and Wildlife



Occurrence No.	401	Map Index: B1684	EO Index:	113598		Element Last Seen:	2018-12-22
Occ. Rank:	Good		Presence:	Presumed Extant		Site Last Seen:	2018-12-22
Осс. Туре:	Natural/Nat	ive occurrence	Trend:	Unknown		Record Last Updated:	2019-01-07
Quad Summary:	Redondo B	each (3311874)					
County Summary:	Los Angele	s					
Lat/Long:	33.79999 /	-118.38199		Accurac	ey:	1/10 mile	
UTM:	Zone-11 N3	3740838 E372073		Elevatio	on (ft):	327	
PLSS:	T04S, R14\	W, Sec. 30, E (S)		Acres:		18.0	
Location:	ABOUT 0.1 ESTATES.	5 MILES SOUTH OF PALOS	VERDES DR N	IORTH AT VIA ALAMED	A, LOWEF	R MALAGA CANYON, PAL	OS VERDES
Detailed Location:	APPEARS	TO BE OPEN SPACE/UNDE	VELOPED ARE	A OF PALOS VERDES	GOLF CLU	JB.	
Ecological:							
General:		AND PHOTOGRAPHED ON 2018 DURING BATRACHC			GRAPHE	O AND REPORTED ON INA	ATURALIST,
Owner/Manager:	CITY OF P	ALOS VERDES ESTATES					
Occurrence No.	403	Map Index: B1714	EO Index:	113629		Element Last Seen:	2014-10-04
Occ. Rank:	Poor		Presence:	Presumed Extant		Site Last Seen:	2014-10-04
Осс. Туре:	Natural/Nat	ive occurrence	Trend:	Unknown		Record Last Updated:	2018-12-19
Quad Summary:							
	Redondo B	each (3311874)					
County Summary:	Redondo B Los Angele	. ,					
-		S		Accurac	y:	1/10 mile	
County Summary:	Los Angele	S		Accurac Elevatio	-	1/10 mile 65	
County Summary: Lat/Long:	Los Angele 33.85568 / Zone-11 N3	s -118.39257			-		
County Summary: Lat/Long: UTM:	Los Angele 33.85568 / Zone-11 N3 T04S, R14	s -118.39257 3747026 E371177	HERONDO ST /	Elevatio Acres:	on (ft):	65 18.0	
County Summary: Lat/Long: UTM: PLSS:	Los Angele 33.85568 / Zone-11 N3 T04S, R14	s -118.39257 3747026 E371177 W, Sec. 6, NW (S)	HERONDO ST /	Elevatio Acres:	on (ft):	65 18.0	
County Summary: Lat/Long: UTM: PLSS: Location:	Los Angele 33.85568 / Zone-11 N3 T04S, R14V VICINITY C	s -118.39257 3747026 E371177 W, Sec. 6, NW (S)		Elevatio Acres: AT HWY 1, CITY OF HEI	RMOSA B	65 18.0 EACH.	
County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Los Angele 33.85568 / Zone-11 N3 T04S, R14V VICINITY C FOUND IN 1 FOUND IN	s -118.39257 8747026 E371177 W, Sec. 6, NW (S) DF ARDMORE AVE, NW OF	E REMOVING P 4 OCT 2014; OE	Elevatio Acres: AT HWY 1, CITY OF HEI LANT DEBRIS ON TOP SERVER NOTED THAT	OF FINE S	65 18.0 EACH. SANDY SOIL.	SEVERAL



California Department of Fish and Wildlife

California Natural Diversity Database



VERSTU				-		
Occurrence No.	404	Map Index: B1718	EO Index:	113632	Element Last Seen:	2018-04-30
Occ. Rank:	Poor		Presence:	Presumed Extant	Site Last Seen:	2018-04-30
Осс. Туре:	Natural/N	lative occurrence	Trend:	Unknown	Record Last Updated:	2018-12-19
Quad Summary:	Venice (3	311884)				
County Summary:	Los Ange	les				
Lat/Long:	33.967 / -	118.45484		Accuracy:	80 meters	
JTM:	Zone-11	N3759450 E365591		Elevation (ft):	12	
PLSS:	T02S, R1	5W, Sec. 28, SE (S)		Acres:	5.0	
ocation:	VICINITY DEL REY		A DONTE JUST I	NORTH OF VIA MARINA, NORT	H SIDE OF BALLONA CREE	K, MARINA
Detailed Location:		OUND AND PHOTOGRAPHE /IA DONTE; PHOTO SEEMS		COMPOSED GRANITE PATH AL	ONG GRAND CANAL AND T	HE HOUSES
Ecological:						
General:	1 FOUND	AND PHOTOGRAPHED ON	30 APR 2018.			
Owner/Manager:	UNKNOW	VN				
Occurrence No.	405	Map Index: B1729	EO Index:	113643	Element Last Seen:	2018-06-02
Occ. Rank:	Fair		Presence:	Presumed Extant	Site Last Seen:	2018-06-0
Осс. Туре:	Natural/N	lative occurrence	Trend:	Unknown	Record Last Updated:	2019-01-0
Quad Summary:	Venice (3	311884)				
County Summary:	Los Ange	les				
_at/Long:	33.96918	/ -118.42219		Accuracy:	1/10 mile	
JTM:	Zone-11	N3759650 E368611		Elevation (ft):	144	
PLSS:	T02S, R1	5W, Sec. 26 (S)		Acres:	18.0	
_ocation:).3 MILES EAST OF LINCOLN SITY, LOS ANGELES.	N BLVD AT BLUF	F CREEK DR, NORTH OF LEA	VEY RD, LOYOLA MARYMOU	JNT
Detailed Location:						
Ecological:						
General:	1 FOUND	AND PHOTOGRAPHED ON	17 JUL 2017, AI	ND 1 FOUND AND PHOTOGRA	PHED ON 2 JUN 2018.	
Owner/Manager:	PVT					
						2540400
Phrynosoma b					Element Code: ARA	JF12100
coast horned liza		Nana				
Listing Status:		None		CNDDB Element Ran		
	State:	None			State: S3S4	
	Other:	_ / _		Special Concern, IUCN_LC-Leas		
Habitat:	General:	FREQUENTS A WIDE VAR SCATTERED LOW BUSH		ATS, MOST COMMON IN LOW	LANDS ALONG SANDY WAS	SHES WITH

SCATTERED LOW BUSHES. Micro: OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOOSE SOIL FOR BURIAL, AND ABUNDANT SUPPLY OF ANTS AND OTHER INSECTS.



California Department of Fish and Wildlife



Occurrence No.	130	Map Index: 01965	EO Index:	28078		Element Last Seen:	1952-04-15
Occ. Rank:	None		Presence:	Possibly Extirpa	ated	Site Last Seen:	1952-04-15
Осс. Туре:	Natural/Native	occurrence	Trend:	Unknown		Record Last Updated:	2006-01-23
Quad Summary:	South Gate (33	311882)					
County Summary:	Los Angeles	,					
Lat/Long:	33.90327 / -118	8.22273		Α	ccuracy:	1 mile	
UTM:	Zone-11 N3752				levation (ft):	70	
PLSS:	T03S, R13W, S				cres:	0.0	
Location:	CITY OF COM						
Detailed Location:			SECRANS AVE 8	SANTA FE AVE	& 1 RECORD	GIVEN ONLY AS "COMPTO	۷".
Ecological:							
General:	LACM SPECIN	IENS #101356 COLLEC	TED 15 APR 195	2 & #101357 CO	LLECTED 15 M	AR 1952.	
Owner/Manager:	UNKNOWN						
		••••					
Occurrence No.		Map Index: 02093	EO Index:	28066		Element Last Seen:	1951-03-17
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1951-03-17
Осс. Туре:	Natural/Native	occurrence	Trend:	Unknown		Record Last Updated:	2006-01-23
Quad Summary:	Long Beach (33	311872)					
County Summary:	Los Angeles						
Lat/Long:	33.77173 / -118	8.19937		А	ccuracy:	1/5 mile	
UTM:	Zone-11 N3737	7492 E388942		E	levation (ft):	25	
PLSS:	T05S, R13W, S	Sec. 02 (S)		Α	cres:	0.0	
Location:	4TH AND DAIS	SY, LONG BEACH.					
Location: Detailed Location:	4TH AND DAIS	SY, LONG BEACH.					
Detailed Location:	4TH AND DAIS	SY, LONG BEACH.					
Detailed Location:		SY, LONG BEACH. //ENS #101342-3 COLLE	CTED 17 MAR 1	951 BY H. SAMU	JELSON.		
Detailed Location: Ecological: General:			CTED 17 MAR 1	951 BY H. SAMU	JELSON.		
Detailed Location: Ecological: General:	LACM SPECIM		CTED 17 MAR 1	951 BY H. SAMU 28063	JELSON.	Element Last Seen:	
Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	LACM SPECIN UNKNOWN	/IENS #101342-3 COLLE	-			Element Last Seen: Site Last Seen:	XXXX-XX-XX XXXX-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	LACM SPECIN UNKNOWN 152	/IENS #101342-3 COLLE Map Index: 02079	EO Index:	28063			
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	LACM SPECIM UNKNOWN 152 None	/IENS #101342-3 COLLE Map Index: 02079 occurrence	EO Index: Presence:	28063 Possibly Extirpa		Site Last Seen:	XXXX-XX-XX
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	LACM SPECIN UNKNOWN 152 None Natural/Native	/IENS #101342-3 COLLE Map Index: 02079 occurrence	EO Index: Presence:	28063 Possibly Extirpa		Site Last Seen:	xxxx-xx-xx
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	LACM SPECIN UNKNOWN 152 None Natural/Native (South Gate (33	/IENS #101342-3 COLLE Map Index: 02079 occurrence 311882)	EO Index: Presence:	28063 Possibly Extirpa Unknown		Site Last Seen:	xxxx-xx-xx
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	LACM SPECIM UNKNOWN 152 None Natural/Native South Gate (33 Los Angeles	MENS #101342-3 COLLE Map Index: 02079 occurrence 311882) 8.20758	EO Index: Presence:	28063 Possibly Extirpa Unknown	ated	Site Last Seen: Record Last Updated:	xxxx-xx-xx
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	LACM SPECIN UNKNOWN 152 None Natural/Native South Gate (33 Los Angeles 33.87862 / -118	MENS #101342-3 COLLE Map Index: 02079 occurrence 311882) 8.20758 9353 E388321	EO Index: Presence:	28063 Possibly Extirpa Unknown A E	ated	Site Last Seen: Record Last Updated: 1/5 mile	xxxx-xx-xx
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	LACM SPECIN UNKNOWN 152 None Natural/Native South Gate (33 Los Angeles 33.87862 / -118 Zone-11 N3748 T03S, R13W, S	MENS #101342-3 COLLE Map Index: 02079 occurrence 311882) 8.20758 9353 E388321 Sec. 26 (S)	EO Index: Presence: Trend:	28063 Possibly Extirpa Unknown A E A	ated accuracy: accuracy: acres:	Site Last Seen: Record Last Updated: 1/5 mile 60 0.0	xxxx-xx-x
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	LACM SPECIN UNKNOWN 152 None Natural/Native South Gate (33 Los Angeles 33.87862 / -118 Zone-11 N3748 T03S, R13W, S	MENS #101342-3 COLLE Map Index: 02079 occurrence 311882) 8.20758 9353 E388321	EO Index: Presence: Trend:	28063 Possibly Extirpa Unknown A E A	ated accuracy: accuracy: acres:	Site Last Seen: Record Last Updated: 1/5 mile 60 0.0	xxxx-xx-x
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	LACM SPECIN UNKNOWN 152 None Natural/Native South Gate (33 Los Angeles 33.87862 / -118 Zone-11 N3748 T03S, R13W, S	MENS #101342-3 COLLE Map Index: 02079 occurrence 311882) 8.20758 9353 E388321 Sec. 26 (S)	EO Index: Presence: Trend:	28063 Possibly Extirpa Unknown A E A	ated accuracy: accuracy: acres:	Site Last Seen: Record Last Updated: 1/5 mile 60 0.0	xxxx-xx-xx
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	LACM SPECIN UNKNOWN 152 None Natural/Native South Gate (33 Los Angeles 33.87862 / -118 Zone-11 N3749 T03S, R13W, S 1 MILE WEST	MENS #101342-3 COLLE Map Index: 02079 occurrence 311882) 8.20758 9353 E388321 Sec. 26 (S)	EO Index: Presence: Trend: 200 WEST BLO	28063 Possibly Extirpa Unknown A E CK OF EAST 68T	ated accuracy: accuracy: acres:	Site Last Seen: Record Last Updated: 1/5 mile 60 0.0	xxxx-xx-xx



California Department of Fish and Wildlife



207	Map Index: 01796	EO Index:	28018		Element Last Seen:	XXXX-XX-XX
None		Presence:	Extirpated		Site Last Seen:	XXXX-XX-XX
Natural/Nativ	/e occurrence	Trend:	Unknown		Record Last Updated:	1989-08-10
Torrance (33	311873), Inglewood (331188	3)				
Los Angeles						
33.86418 / -1	118.35641			Accuracy:	1 mile	
Zone-11 N37	747924 E374535			Elevation (ft):	100	
T03S, R14W	/, Sec. 33 (S)			Acres:	0.0	
EL NIDO, AF	PROX 8 MI NW OF LOS AN	NGELES.				
USNM SPEC	CIMENS #21965-67; COLLE	CTION DATE(S	S) UNKNOWN.			
UNKNOWN						
764	Map Index: 81926	EO Index:	82897		Element Last Seen:	1930-08-19
764 None	Map Index: 81926	EO Index: Presence:	82897 Possibly Extir	pated	Element Last Seen: Site Last Seen:	1930-08-19 1930-08-19
None	Map Index: 81926			pated		
None	ve occurrence	Presence:	Possibly Extir	pated	Site Last Seen:	1930-08-19
None Natural/Nativ	ve occurrence 3311863)	Presence:	Possibly Extir	pated	Site Last Seen:	1930-08-19
None Natural/Nativ San Pedro (3	ve occurrence 3311863)	Presence:	Possibly Extir	pated Accuracy:	Site Last Seen:	1930-08-19
None Natural/Nativ San Pedro (3 Los Angeles 33.73344 / -1	ve occurrence 3311863)	Presence:	Possibly Extir		Site Last Seen: Record Last Updated:	1930-08-19
None Natural/Nativ San Pedro (3 Los Angeles 33.73344 / -1 Zone-11 N37	ve occurrence 3311863) 118.29979	Presence:	Possibly Extir	Accuracy:	Site Last Seen: Record Last Updated: 1 mile	1930-08-19
None Natural/Nativ San Pedro (3 Los Angeles 33.73344 / -1 Zone-11 N37 T05S, R14W	ve occurrence 3311863) 118.29979 733359 E379589	Presence: Trend:	Possibly Extir	Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: 1 mile 170	1930-08-19
None Natural/Nativ San Pedro (3 Los Angeles 33.73344 / -1 Zone-11 N37 T05S, R14W VICINITY OF	ve occurrence 3311863) 118.29979 733359 E379589 V, Sec. 24 (S)	Presence: Trend:	Possibly Extir	Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1 mile 170 0.0	1930-08-19
None Natural/Nativ San Pedro (3 Los Angeles 33.73344 / -1 Zone-11 N37 T05S, R14W VICINITY OF SDNHM SPE	ve occurrence 3311863) 118.29979 733359 E379589 /, Sec. 24 (S) F SAN PEDRO, LOS ANGEL ECIMEN #14184 STATED LO	Presence: Trend: LES COUNTY. OCALITY "SAN	Possibly Extir Unknown	Accuracy: Elevation (ft): Acres: CT LOCATION IS	Site Last Seen: Record Last Updated: 1 mile 170 0.0	1930-08-19 2011-03-03
None Natural/Nativ San Pedro (3 Los Angeles 33.73344 / -1 Zone-11 N37 T05S, R14W VICINITY OF SDNHM SPE 2009 AERIA AREA.	ve occurrence 3311863) 118.29979 733359 E379589 /, Sec. 24 (S) F SAN PEDRO, LOS ANGEL ECIMEN #14184 STATED LO	Presence: Trend: LES COUNTY. OCALITY "SAN HIS AREA HAS	Possibly Extir Unknown	Accuracy: Elevation (ft): Acres: CT LOCATION IS	Site Last Seen: Record Last Updated: 1 mile 170 0.0	1930-08-19 2011-03-03
	None Natural/Nativ Torrance (33 Los Angeles 33.86418 / Zone-11 N37 T03S, R14W EL NIDO, AF	None Natural/Native occurrence Torrance (3311873), Inglewood (331188 Los Angeles 33.86418 / -118.35641 Zone-11 N3747924 E374535 T03S, R14W, Sec. 33 (S) EL NIDO, APPROX 8 MI NW OF LOS AN USNM SPECIMENS #21965-67; COLLE	NonePresence:Natural/Native occurrenceTrend:Torrance (3311873), Inglewood (3311883)Los Angeles33.86418 / -118.35641Zone-11 N3747924 E374535T03S, R14W, Sec. 33 (S)EL NIDO, APPROX 8 MI NW OF LOS ANGELES.USNM SPECIMENS #21965-67; COLLECTION DATE(S)	NonePresence:ExtirpatedNatural/Native occurrenceTrend:UnknownTorrance (3311873), Inglewood (3311883)Los Angeles33.86418 / -118.35641Zone-11 N3747924 E374535T03S, R14W, Sec. 33 (S)EL NIDO, APPROX 8 MI NW OF LOS ANGELES.USNM SPECIMENS #21965-67; COLLECTION DATE(S) UNKNOWN.	NonePresence:ExtirpatedNatural/Native occurrenceTrend:UnknownTorrance (3311873), Inglewood (3311883) Los Angeles	NonePresence:ExtirpatedSite Last Seen:Natural/Native occurrenceTrend:UnknownRecord Last Updated:Torrance (3311873), Inglewood (3311883) Los Angeles





Federal:	None					
	None					
• • •			CNDDB Element Ranks	s: Global:	G1	
State:	None			State:	S1.1	
Other:						
General:						
Micro:						
1	Map Index: 01534	EO Index:	26328	Element	Last Seen:	1983-XX-XX
Unknown		Presence:	Presumed Extant	Site Last	Seen:	1983-XX-XX
Natural/Na	tive occurrence	Trend:	Unknown	Record L	ast Updated:	1998-07-13
Venice (33	11884)					
Los Angele	es, Pacific Ocean					
33.93401 /	-118.43379		Accuracy:	1 mile		
Zone-11 N	3755764 E367484		Elevation (ft):	130		
T03S, R15	W, Sec. 03 (S)		Acres:	0.0		
EL SEGUN	NDO DUNES, JUST WEST OF	F RUNWAYS OF	LOS ANGELES INTERNATION	AL AIRPORT		
REMNANT	OF FORMERLY MUCH MOR	RE EXTENSIVE	DUNE SYSTEM.			
					NTEGRIFOLIA,	AND
WWW.DFC	G.CA.GOV/BIOGEODATA/VE	GCAMP/NATUF	-			DRESS THE
CITY OF L	OS ANGELES					
	General: Micro: 1 Unknown Natural/Na Venice (33 Los Angele 33.93401 / Zone-11 N T03S, R15 EL SEGUN REMNANT VEG DOM ERIOGON HABITAT F WWW.DFC PRESENC	General: □ Micro: □ 1 Map Index: 01534 Unknown Natural/Native occurrence Venice (3311884) Los Angeles, Pacific Ocean 33.93401 / -118.43379 Zone-11 N3755764 E367484 T03S, R15W, Sec. 03 (S) EL SEGUNDO DUNES, JUST WEST OF REMNANT OF FORMERLY MUCH MOF VEG DOM BY ERICAMERIA ERICOIDE ERIOGONUM PARVIFOLIUM. MORE S HABITAT FOR EL SEGUNDO BLUE BU WWW.DFG.CA.GOV/BIOGEODATA/VE WWW.DFG.CA.GOV/BIOGEODATA/VE	General: □ Micro: □ 1 Map Index: 01534 EO Index: Unknown Presence: Natural/Native occurrence Trend: Venice (3311884) Los Angeles, Pacific Ocean 33.93401 / -118.43379 Zone-11 N3755764 E367484 T03S, R15W, Sec. 03 (S) EL SEGUNDO DUNES, JUST WEST OF RUNWAYS OF REMNANT OF FORMERLY MUCH MORE EXTENSIVE VEG DOM BY ERICAMERIA ERICOIDES, LUPINUS CHERIOGONUM PARVIFOLIUM. MORE SPECIES INFO II HABITAT FOR EL SEGUNDO BLUE BUTTERFLY. ARE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATUF PRESENCE OF RARE COMMUNITIES.	General: □ Micro: □ 1 Map Index: 01534 EO Index: 26328 Unknown Presence: Presumed Extant Natural/Native occurrence Trend: Unknown Venice (3311884) Los Angeles, Pacific Ocean Unknown 33.93401 / -118.43379 Accuracy: Zone-11 N3755764 E367484 Elevation (ft): T03S, R15W, Sec. 03 (S) Acres: EL SEGUNDO DUNES, JUST WEST OF RUNWAYS OF LOS ANGELES INTERNATION/ REMNANT OF FORMERLY MUCH MORE EXTENSIVE DUNE SYSTEM. VEG DOM BY ERICAMERIA ERICOIDES, LUPINUS CHAMISSONIS, ISOMERIS ARBOR ERIOGONUM PARVIFOLIUM. MORE SPECIES INFO IN NC FILES 21330 DOCUMENT HABITAT FOR EL SEGUNDO BLUE BUTTERFLY. AREA MANAGED BY DEPARTMENT WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASF PRESENCE OF RARE COMMUNITIES.	General: □ Micro: □ 1 Map Index: 01534 EO Index: 26328 Element Unknown Presence: Presumed Extant Site Last Natural/Native occurrence Trend: Unknown Record L Venice (3311884) Los Angeles, Pacific Ocean Record L Venice (3311884) Los Angeles, Pacific Ocean Accuracy: 1 mile 33.93401 / -118.43379 Accuracy: 1 mile Zone-11 N3755764 E367484 Elevation (ft): 130 T03S, R15W, Sec. 03 (S) Acres: 0.0 EL SEGUNDO DUNES, JUST WEST OF RUNWAYS OF LOS ANGELES INTERNATIONAL AIRPORT REMNANT OF FORMERLY MUCH MORE EXTENSIVE DUNE SYSTEM. VEG DOM BY ERICAMERIA ERICOIDES, LUPINUS CHAMISSONIS, ISOMERIS ARBOREA, RHUS IN ERIOGONUM PARVIFOLIUM. MORE SPECIES INFO IN NC FILES 21330 DOCUMENT TOW85U01. HABITAT FOR EL SEGUNDO BLUE BUTTERFLY. AREA MANAGED BY DEPARTMENT OF AIRPOR WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERF PRESENCE OF RARE COMMUNITIES. VEGOMM_BACKGROUND.ASP TO INTERF	General: □ Micro: □ 1 Map Index: 01534 EO Index: 26328 Element Last Seen: Unknown Presence: Presumed Extant Site Last Seen: Natural/Native occurrence Trend: Unknown Record Last Updated: Venice (3311884) Los Angeles, Pacific Ocean Accuracy: 1 mile Zone-11 N3755764 E367484 Elevation (ft): 130 130 T03S, R15W, Sec. 03 (S) Acres: 0.0 0.0 EL SEGUNDO DUNES, JUST WEST OF RUNWAYS OF LOS ANGELES INTERNATIONAL AIRPORT. REMNANT OF FORMERLY MUCH MORE EXTENSIVE DUNE SYSTEM. VEG DOM BY ERICAMERIA ERICOIDES, LUPINUS CHAMISSONIS, ISOMERIS ARBOREA, RHUS INTEGRIFOLIA, ERIOGONUM PARVIFOLIUM. MORE SPECIES INFO IN NC FILES 2130 DOCUMENT TOW85U01. HABITAT FOR EL SEGUNDO BLUE BUTTERFLY. AREA MANAGED BY DEPARTMENT OF AIRPORTS. SEE WWW.DFG.CA.GOV/BIOGEODATA/VEGCAMP/NATURAL_COMM_BACKGROUND.ASP TO INTERPRET AND ADE PRESENCE OF RARE COMMUNITIES.





Southern Coas		crub			Element Code: CTT	31200CA
Listing Status:	Federal: State:	None None		CNDDB Element Rank	ks: Global: G1 State: S1.1	
Habitat:	Other: General: Micro:					
Occurrence No.	23	Map Index: 17053	EO Index:	9609	Element Last Seen:	1990-09-01
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1990-09-01
Occ. Type:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	1998-07-13
Quad Summary: County Summary:		o (3311863), Redondo Beach es, Pacific Ocean	n (3311874)			
Lat/Long:	33.75515	/ -118.41529		Accuracy:	non-specific area	
UTM:	Zone-11 N	I3735907 E368922		Elevation (ft):	40	
PLSS:	T05S, R15	5W (S)		Acres:	476.7	
Location:	BLUFFS C	OF PALOS VERDES PENINS	SULA FROM MAL	AGA COVE TO CABRILLO BEA	CH.	
Detailed Location:		LUFFS AND STEEP SLOPE MENT AND DISTURBANCE		E COAST; DISTRIBUTION PATC	CHY WITHIN BOUNDED ARI	EA DUE TO
Ecological:	LENTIFOF			IA CA, ISOCOMA MENZIESII, LY IUM CINEREUM, DUDLEYA VIR		
General:	WWW.DF		EGCAMP/NATU	E PENINSULA; LARGE PORTIO RAL_COMM_BACKGROUND.AS		
Owner/Manager:	UNKNOW	N				





Southern Coas	tal Salt Ma	arsh			Eleme	nt Code: CTT5	52120CA
Southern Coasta	I Salt Marsh						
Listing Status:	Federal:	None		CNDDB Element Ranks	: Global:	G2	
	State:	None			State:	S2.1	
	Other:						
Habitat:	General:						
	Micro:						
Occurrence No.	1	Map Index: 01492	EO Index:	16122	Element	Last Seen:	1979-06-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last	Seen:	1979-06-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Decreasing	Record L	ast Updated:	2012-12-10
Quad Summary:	Venice (33	311884)					
County Summary:	Los Angele	es					
Lat/Long:	33.96411	/ -118.44601		Accuracy:	non-specifi	c area	
UTM:	Zone-11 N	I3759118 E366401		Elevation (ft):	80		
PLSS:	T02S, R15	5W, Sec. 27, SW (S)		Acres:	108.0		
Location:	MOUTH C	F BALLONA CREEK, BETWEI	EN MARINA DI	EL REY ON THE NORTH & DEL R	EY BLUFFS	ON THE SOU	TH.
Detailed Location:) ACRES OF "SOMEWHAT DE KSON, 1976. BALLONA WETL		SALVAGEABLE" MARSH REMAI 3 WEST.	N OF 1600 /	AC HISTORICA	L MARSH PER
Ecological:		OW AND MIDDLE MARSH FLC I TO FLORISTIC CLASSIFICA		IKED MARSH DOES NOT GET RE SPP. INFO.	GULAR TIE	DAL FLOW. UN	ABLE TO
General:	WWW.DF			FEASIBLE PER DFG, 1982. SEE RAL_COMM_BACKGROUND.ASP	TO INTERF	PRET AND ADD	DRESS THE
Owner/Manager:	DFG-BALI	ONA WETLANDS ER					
Streptocephalu	is wootton	ni			Eleme	nt Code: ICBR	A07010
Riverside fairy sh							
Listing Status:	Federal:	Endangered		CNDDB Element Ranks	: Global:	G1G2	
	State:	None			State:	S1S2	
	Other:	IUCN_EN-Endangered					
Habitat:	General:			ANGE, AND SAN DIEGO COUNTI SSLAND AND COASTAL SAGE SO		S OF TECTON	IIC
	Micro:	INHABIT SEASONALLY AST THE SEASON.	TATIC POOLS	FILLED BY WINTER/SPRING RAI	NS. HATCH	IN WARM WA	TER LATER IN



California Department of Fish and Wildlife



Occurrence No.	56	Map Index: 92002	EO Index:	93075		Element Last Seen:	2005-XX-XX
Occ. Rank:	None	·	Presence:	Extirpated		Site Last Seen:	2005-XX-XX
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	2014-05-21
Quad Summary:	Venice (331	1884)					
County Summary:	Los Angeles	,					
Lat/Long:	33.93900 / -	118.42979			Accuracy:	1/5 mile	
UTM:	Zone-11 N3	756313 E367861			Elevation (ft):	100	
PLSS:	T03S, R15W	/, Sec. 02, SW (S)			Acres:	0.0	
Location:	LOS ANGEL	ES INTERNATIONAL AIRPO	ORT. JUST SW	OF WORLD	WAY WEST AT PE	RSHING DRIVE, LOS ANGE	LES.
Detailed Location:	MAPPED TO					HICH S. WOOTTONI CYST-B	
Ecological:	SITE WAS D	DEVELOPED AFTER SALVA	GE OPERATIO	DN.			
General:		/ITIGATION/RESTORATION				D STORAGE FACILITY FOR STORED SOIL FROM POOI	
Owner/Manager:	PVT						
Occurrence No.	57	Map Index: 92005	EO Index:	93077		Element Last Seen:	2005-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	2005-XX-XX
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	2014-05-21
Quad Summary:	Venice (331	1884)					
County Summary:	Los Angeles	;					
Lat/Long:	33.93290 / -	118.42440			Accuracy:	1/5 mile	
UTM:	Zone-11 N3	755629 E368350			Elevation (ft):	100	
PLSS:	T03S, R15W	/, Sec. 02, SW (S)			Acres:	0.0	
Location:	LOS ANGEL		ORT; JUST NO	RTH OF IMPE	RIAL HWY ABOU	۲ 0.25 MILE WNW OF THE P	ERSHING DR
Detailed Location:							
	MAPPED TO COLLECTE		EW 15 & EW 1	6) FROM WH	ICH S. WOOTTON	I CYST-BEARING SOILS WE	RE
Ecological:	COLLECTE		x	,	ICH S. WOOTTON	I CYST-BEARING SOILS WE	RE
Ecological: General:	COLLECTE SITE WAS D CYST-BEAR	D. DEVELOPED AFTER SALVA RING SOIL COLLECTED 18 /IITIGATION/RESTORATION	GE OPERATIC - 28 JUL 2005 /	ON. AND HOUSED		I CYST-BEARING SOILS WE D STORAGE FACILITY FOR STORED SOIL FROM POOI	USE IN



California Department of Fish and Wildlife



Occurrence No.	67	Map Index: 39583	EO Index:	93129		Element Last Seen:	2003-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed E	xtant	Site Last Seen:	2010-07-XX
Осс. Туре:	Natural/Nativ	/e occurrence	Trend:	Unknown		Record Last Updated:	2014-04-14
Quad Summary:	Torrance (33	311873)					
County Summary:	Los Angeles						
Lat/Long:	33.82705 / -′	118.34240			Accuracy:	non-specific area	
UTM:	Zone-11 N37	743790 E375777			Elevation (ft):	80	
PLSS:	T04S, R14W	/, Sec. 15, SW (S)			Acres:	56.2	
Location:	MADRONA I AVE, TORRA		IE NORTH SID	E OF WEST S	EPULVEDA BLVD	BETWEEN MAPLE AVE AN	D MADRONA
Detailed Location:							
Ecological:		RESERVE PROTECTING TH	IE LAST INTAG	CT VERNAL PO	OOL/VERNAL MAI	RSH COMPLEX ON THE CO.	ASTAL PLAIN
General:					IATIC INVERTER	ATE SAMPLING APR-JUL 2	010.
Owner/Manager:	CITY OF TO			2011107100			
_							
Occurrence No.	68	Map Index: 92050	EO Index:	93131		Element Last Seen:	2005-XX-XX
Occurrence No. Occ. Rank:	68 None	Map Index: 92050	EO Index: Presence:	93131 Extirpated		Element Last Seen: Site Last Seen:	2005-XX-XX 2005-XX-XX
	None	Map Index: 92050					
Occ. Rank:	None	ve occurrence	Presence:	Extirpated		Site Last Seen:	2005-XX-XX
Occ. Rank: Occ. Type:	None Natural/Nativ	ve occurrence	Presence:	Extirpated		Site Last Seen:	2005-XX-XX
Occ. Rank: Occ. Type: Quad Summary:	None Natural/Nativ Venice (331	ve occurrence 1884)	Presence:	Extirpated	Accuracy:	Site Last Seen:	2005-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary:	None Natural/Nativ Venice (331 Los Angeles 33.95100 / -	ve occurrence 1884)	Presence:	Extirpated	Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated:	2005-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	None Natural/Nativ Venice (3311 Los Angeles 33.95100 / -7 Zone-11 N37	ve occurrence 1884) 118.43320	Presence:	Extirpated	-	Site Last Seen: Record Last Updated: 1/5 mile	2005-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	None Natural/Nativ Venice (3311 Los Angeles 33.95100 / -7 Zone-11 N37 T02S, R15W	ve occurrence 1884) 118.43320 757648 E367565 /, Sec. 34, SE (S)	Presence: Trend:	Extirpated Unknown	Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 100	2005-XX-XX 2014-05-21
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	None Natural/Nativ Venice (3317 Los Angeles 33.95100 / -7 Zone-11 N37 T02S, R15W LOS ANGEL	ve occurrence 1884) 118.43320 757648 E367565 /, Sec. 34, SE (S) .ES INTERNATIONAL AIRPO D INCLUDE 2 OF 9 POOLS (Presence: Trend:	Extirpated Unknown	Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 100 0.0	2005-XX-XX 2014-05-21
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	None Natural/Nativ Venice (3317 Los Angeles 33.95100 / -7 Zone-11 N37 T02S, R15W LOS ANGEL MAPPED TO COLLECTED	ve occurrence 1884) 118.43320 757648 E367565 /, Sec. 34, SE (S) .ES INTERNATIONAL AIRPO D INCLUDE 2 OF 9 POOLS (Presence: Trend: DRT; JUST SO EW 1 & EW 2)	Extirpated Unknown UTH OF WES FROM WHICH	Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 100 0.0 (AT FALMOUTH AVE, LOS /	2005-XX-XX 2014-05-21
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	None Natural/Nativ Venice (3311 Los Angeles 33.95100 / -7 Zone-11 N37 T02S, R15W LOS ANGEL MAPPED TO COLLECTED SITE WAS D CYST-BEAR	/e occurrence 1884) 118.43320 757648 E367565 /, Sec. 34, SE (S) ES INTERNATIONAL AIRPO D INCLUDE 2 OF 9 POOLS (D INCLUDE 2 OF 9 POOLS (D. DEVELOPED AFTER SALVA RING SOIL COLLECTED 18 MITIGATION/RESTORATION	Presence: Trend: DRT; JUST SO EW 1 & EW 2) GE OPERATIO - 28 JUL 2005 J	Extirpated Unknown UTH OF WES FROM WHICH DN. AND HOUSED	Elevation (ft): Acres: TCHESTER PKWY H S. WOOTTONI C	Site Last Seen: Record Last Updated: 1/5 mile 100 0.0 (AT FALMOUTH AVE, LOS /	2005-XX-XX 2014-05-21 ANGELES. E



California Natural Diversity Database



Habroscelimor western tidal-flat	-	i				Eleme	nt Code: IICOI	_02080
Listing Status:	Federal:	None		CNDDB	Element Ranks:	Global:	G2G4	
U	State:	None				State:	S1	
	Other:							
Habitat:	General:	INHABITS ESTUARIES AN	ID MUDELATS A	NONG THE COAS			AINS	
	Micro:	GENERALLY FOUND ON						DRY SALINE
		FLATS OF ESTUARIES.						
Occurrence No.	6	Map Index: 39864	EO Index:	87726		Element	Last Seen:	XXXX-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last	Seen:	XXXX-XX-XX
Occ. Type:	Natural/Na	ative occurrence	Trend:	Unknown		Record L	ast Updated:	2012-09-19
Quad Summary:	Long Bead	ch (3311872), Torrance (3311	873)					
County Summary:	0	es, Pacific Ocean						
Lat/Long:	33.79001	/ -118.24785		Ac	curacy: 1	mile		
UTM:	Zone-11 N	J3739572 E384477			evation (ft): 3	0		
PLSS:	T04S, R13	3W, Sec. 33 (S)		Ac	res: 0	.0		
Location:	WILMING ⁻	TON.						
Detailed Location:	LOCALITY	Y STATED AS "WILMINGTO	N." EXACT LOCA	ATION UNKNOWN.				
Ecological:	AIR PHOT	OS SUGGEST AREA IS FU	LLY DEVELOPE	D AND SUITABLE I	HABITAT DOES N	NOT EXIS	T NEARBY (20	12).
General:		(1980) APPEARS TO CITE F					,	,
		ÈNT ÓN THE MUD OF SALI TAKEN ON THE OCEAN BE		SAN DIEGO AND V	VILMINGTON IN	AUGUST	AND SEPTEME	BER, AND IS
Owner/Manager:	UNKNOW		-011.					
Occurrence No.	8	Map Index: 60935	EO Index:	87727		Element	Last Seen:	XXXX-XX-XX
Occ. Rank:	None		Presence:	Possibly Extirpate	ed	Site Last		XXXX-XX-XX
Occ. Type:		ative occurrence	Trend:	Unknown			ast Updated:	2012-09-19
Quad Summary:	Seal Beac	h (3311861), Los Alamitos (3	311871). Lona B	each (3311872)			-	
County Summary:		es, Pacific Ocean	<i>,,</i> 0	, , , , , , , , , , , , , , , , , , ,				
Lat/Long:	33.76188	/ -118.16108		Ac	curacy: n	on-specific	c area	
UTM:	Zone-11 N	13736360 E392475		Ele	evation (ft): 2	0		
PLSS:	T05S, R12	2W, Sec. 08 (S)				27.8		
Location:	LONG BE	ACH.						
Detailed Location:		Y STATED AS "NAPLES" AN	D "LONG BEACH	H." MAPPED GENF	RALLY TO LONG	BEACH.	EXACT LOCA	ΓΙΟΝ
	UNKNOW							
Ecological:		TOS SUGGEST NAPLES IS F ST ALONG LONG BEACH (20		PED AND SUITABL	E HABITAT SUC	H AS EST	UARIES AND N	MUDFLATS DO
General:		(1980) APPEARS TO CITE F UGUST (DAGGETT)."	FALL (1901) FOR	R "FORMER LOCAL	ITIES." IN 1901,	FALL WRO	OTE "GABBII	LONG
Owner/Manager:	UNKNOW	'N						
Cicindela hirtic	ollis gravi	da				Eleme	nt Code: IICO	_02101
sandy beach tige	r beetle							
Listing Status:	Federal:	None		CNDDB	Element Ranks:	Global:	G5T2	
	State:	None				State:	S2	
	Other:							
Habitat:	General:							

Commercial Version -- Dated February, 28 2021 -- Biogeographic Data Branch Report Printed on Tuesday, March 16, 2021



California Department of Fish and Wildlife



		INHABITS AREAS ADJACE FRANCISCO BAY TO NOR			TER ALONG THE (COAST OF CALIFORNIA FRO	OM SAN
	Micro:	CLEAN, DRY, LIGHT-COLO NOT AFFECTED BY WAVE		THE UPPER 2	ZONE. SUBTERR	ANEAN LARVAE PREFER M	OIST SAND
Occurrence No.	11	Map Index: 36918	EO Index:	758		Element Last Seen:	XXXX-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1979-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2012-09-14
Quad Summary:	Redondo I	Beach (3311874)					
County Summary:	Los Angel	es, Pacific Ocean					
Lat/Long:	33.82920	/ -118.39055			Accuracy:	non-specific area	
UTM:	Zone-11 N	I3744087 E371324			Elevation (ft):	12	
PLSS:	T04S, R14	łW, Sec. 18 (S)			Acres:	27.9	
Location:	REDOND	O BEACH.					
Detailed Location:							
Ecological:	INHABITE	D CLEAN, DRY, LIGHT-COL	ORED SAND IN	THE UPPER	ZONE.		
General:	HISTORIC	CAL LOCATION.					
Owner/Manager:	LAX COU	NTY					
Occurrence No.	13	Map Index: 02010	EO Index:	12878		Element Last Seen:	xxxx-xx-xx
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1979-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2012-09-14
Quad Summary:	San Pedro	o (3311863), Long Beach (331	1872), Torrance	(3311873)			
County Summary:	Los Angel	es, Pacific Ocean					
					Accuracy:	1 mile	
Lat/Long:	33.74851	/ -118.25243			Accuracy.	1 mme	
Lat/Long: UTM:		/ -118.25243 3734976 E383997			Elevation (ft):	16	
•	Zone-11 N				-		
UTM:	Zone-11 N	13734976 E383997 3W, Sec. 16 (S)			Elevation (ft):	16	
UTM: PLSS:	Zone-11 N T05S, R13 TERMINA	13734976 E383997 3W, Sec. 16 (S)			Elevation (ft):	16	
UTM: PLSS: Location:	Zone-11 N T05S, R13 TERMINA	13734976 E383997 3W, Sec. 16 (S)	ORED SAND IN	THE UPPER	Elevation (ft): Acres:	16	
UTM: PLSS: Location: Detailed Location:	Zone-11 N T05S, R13 TERMINA INHABITE	13734976 E383997 3W, Sec. 16 (S) L ISLAND.	ORED SAND IN	THE UPPER	Elevation (ft): Acres:	16	



California Department of Fish and Wildlife



Occurrence No. Occ. Rank: Occ. Type:	15 Map Index: 02201 None Natural/Native occurrence	EO Index: Presence: Trend:	22672 Extirpated Unknown		Element Last Seen: Site Last Seen: Record Last Updated:	XXXX-XX-XX 1979-XX-XX 2012-09-14
			OTKHOWH		Record Last Opdated.	2012-09-14
Quad Summary:	Los Alamitos (3311871), Long Beach	(3311872)				
County Summary:	Los Angeles			_		
Lat/Long:	33.75578 / -118.12246			Accuracy:	non-specific area	
UTM:	Zone-11 N3735643 E396045			Elevation (ft):	10	
PLSS:	T05S, R12W, Sec. 10 (S)			Acres:	212.1	
Location:	NAPLES.					
Detailed Location:						
Ecological:	INHABITED CLEAN, DRY, LIGHT-CO	DLORED SAND IN	THE UPPER	ZONE.		
General:	HISTORICAL LOCATION.					
Owner/Manager:	UNKNOWN					
Occurrence No.	16 Map Index: 01488	EO Index:	17539		Element Last Seen:	1907-08-05
Occ. Rank:	None	Presence:	Extirpated		Site Last Seen:	1907-08-05
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown		Record Last Updated:	2012-09-14
Quad Summary:	Venice (3311884)					
County Summary:	Los Angeles, Pacific Ocean					
Lat/Long:	33.95266 / -118.44858			Accuracy:	non-specific area	
UTM:	Z			Elevation (ft)	10	
O 1 Mi.	Zone-11 N3757852 E366147			Elevation (ft):	10	
-	Zone-11 N3757852 E366147 T02S, R15W, Sec. 33 (S)			Acres:	154.1	
PLSS:					-	
PLSS: Location:	T02S, R15W, Sec. 33 (S)				-	
PLSS: Location: Detailed Location:	T02S, R15W, Sec. 33 (S)	DLORED SAND IN	THE UPPER	Acres:	-	
PLSS: Location: Detailed Location: Ecological:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY.			Acres:	154.1	PODS (CDFA).
PLSS: Location: Detailed Location: Ecological: General:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO			Acres:	154.1	PODS (CDFA).
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB	CIMEN DEPOSITE	D IN THE CA	Acres:	154.1 COLLECTION OF ARTHROP	
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073	CIMEN DEPOSITE	ED IN THE CA 60109	Acres:	154.1 COLLECTION OF ARTHROF Element Last Seen:	1945-08-15
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073 None	CIMEN DEPOSITE EO Index: Presence:	ED IN THE CA 60109 Extirpated	Acres:	154.1 COLLECTION OF ARTHROF Element Last Seen: Site Last Seen:	1945-08-15 1945-08-15
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073 None Natural/Native occurrence	CIMEN DEPOSITE EO Index: Presence: Trend:	D IN THE CA 60109 Extirpated Unknown	Acres: ZONE. LIFORNIA STATE	154.1 COLLECTION OF ARTHROF Element Last Seen:	1945-08-15
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073 None Natural/Native occurrence Seal Beach (3311861), Los Alamitos	CIMEN DEPOSITE EO Index: Presence: Trend:	D IN THE CA 60109 Extirpated Unknown	Acres: ZONE. LIFORNIA STATE	154.1 COLLECTION OF ARTHROF Element Last Seen: Site Last Seen:	1945-08-15 1945-08-15
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073 None Natural/Native occurrence Seal Beach (3311861), Los Alamitos Los Angeles, Pacific Ocean	CIMEN DEPOSITE EO Index: Presence: Trend:	D IN THE CA 60109 Extirpated Unknown	Acres: ZONE. LIFORNIA STATE	154.1 COLLECTION OF ARTHROF Element Last Seen: Site Last Seen: Record Last Updated:	1945-08-15 1945-08-15
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073 None Natural/Native occurrence Seal Beach (3311861), Los Alamitos Los Angeles, Pacific Ocean 33.75431 / -118.12182	CIMEN DEPOSITE EO Index: Presence: Trend:	D IN THE CA 60109 Extirpated Unknown	Acres: ZONE. LIFORNIA STATE 2) Accuracy:	154.1 COLLECTION OF ARTHROF Element Last Seen: Site Last Seen: Record Last Updated: 3/5 mile	1945-08-15 1945-08-15
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073 None Natural/Native occurrence Seal Beach (3311861), Los Alamitos Los Angeles, Pacific Ocean 33.75431 / -118.12182 Zone-11 N3735480 E396101	CIMEN DEPOSITE EO Index: Presence: Trend:	D IN THE CA 60109 Extirpated Unknown	Acres: ZONE. LIFORNIA STATE	154.1 COLLECTION OF ARTHROF Element Last Seen: Site Last Seen: Record Last Updated:	1945-08-15 1945-08-15
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073 None Natural/Native occurrence Seal Beach (3311861), Los Alamitos Los Angeles, Pacific Ocean 33.75431 / -118.12182 Zone-11 N3735480 E396101 T05S, R12W, Sec. 10 (S)	CIMEN DEPOSITE EO Index: Presence: Trend:	D IN THE CA 60109 Extirpated Unknown	Acres: ZONE. LIFORNIA STATE 2) Accuracy: Elevation (ft):	154.1 COLLECTION OF ARTHROF Element Last Seen: Site Last Seen: Record Last Updated: 3/5 mile 10	1945-08-15 1945-08-15
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073 None Natural/Native occurrence Seal Beach (3311861), Los Alamitos Los Angeles, Pacific Ocean 33.75431 / -118.12182 Zone-11 N3735480 E396101	CIMEN DEPOSITE EO Index: Presence: Trend:	D IN THE CA 60109 Extirpated Unknown	Acres: ZONE. LIFORNIA STATE 2) Accuracy: Elevation (ft):	154.1 COLLECTION OF ARTHROF Element Last Seen: Site Last Seen: Record Last Updated: 3/5 mile 10	1945-08-15 1945-08-15
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073 None Natural/Native occurrence Seal Beach (3311861), Los Alamitos Los Angeles, Pacific Ocean 33.75431 / -118.12182 Zone-11 N3735480 E396101 T05S, R12W, Sec. 10 (S)	CIMEN DEPOSITE EO Index: Presence: Trend:	D IN THE CA 60109 Extirpated Unknown	Acres: ZONE. LIFORNIA STATE 2) Accuracy: Elevation (ft):	154.1 COLLECTION OF ARTHROF Element Last Seen: Site Last Seen: Record Last Updated: 3/5 mile 10	1945-08-15 1945-08-15
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General:	T02S, R15W, Sec. 33 (S) PLAYA DEL REY. INHABITED CLEAN, DRY, LIGHT-CO HISTORICAL LOCATION. ONE SPEC DPR-DOCKWEILER SB 33 Map Index: 60073 None Natural/Native occurrence Seal Beach (3311861), Los Alamitos Los Angeles, Pacific Ocean 33.75431 / -118.12182 Zone-11 N3735480 E396101 T05S, R12W, Sec. 10 (S)	CIMEN DEPOSITE EO Index: Presence: Trend:	D IN THE CA 60109 Extirpated Unknown	Acres: ZONE. LIFORNIA STATE 2) Accuracy: Elevation (ft):	154.1 COLLECTION OF ARTHROF Element Last Seen: Site Last Seen: Record Last Updated: 3/5 mile 10	1945-08-15 1945-08-15



California Department of Fish and Wildlife



Occurrence No.	35 Map Index: 60079	EO Index:	60115		Element Last Seen:	1937-03-07
Occ. Rank:	None	Presence:	Extirpated		Site Last Seen:	1937-03-07
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown		Record Last Updated:	2005-02-17
Quad Summary:	Venice (3311884)					
County Summary:	Los Angeles					
Lat/Long:	33.92414 / -118.43289			Accuracy:	non-specific area	
UTM:	Zone-11 N3754669 E367552			Elevation (ft):	10	
PLSS:	T03S, R15W, Sec. 10 (S)			Acres:	88.8	
Location:	EL SEGUNDO.					
Detailed Location:	EXACT LOCATION UNKNOWN; MAPPE HABITAT.	D ALONG DO	CKWEILER ST	TATE BEACH SINC	E BEETLE PREFERS SAND	Y COASTAL
Ecological:						
General:	HISTORICAL RECORD, UNKNOWN NU	MBER COLLE	CTED.			
Owner/Manager:	DPR-DOCKWEILER SB					





Cicindela lates	-	signata				Element Code: IICO	_02113
western beach tig	-	None None		CNE	DDB Element Rank	s: Global: G2G4T1T2 State: S1	
Habitat:	General: Micro:	MUDFLATS AND BEACHE	ES IN COASTAL	SOUTHERN C	CALIFORNIA.		
Occurrence No.	3	Map Index: 57921	EO Index:	60970		Element Last Seen:	XXXX-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	XXXX-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2012-09-14
Quad Summary:	San Pedro	(3311863)					
County Summary:	Los Angele	es, Pacific Ocean					
Lat/Long:	33.71045 /	/ -118.30057			Accuracy:	specific area	
UTM:	Zone-11 N	3730811 E379485			Elevation (ft):	20	
PLSS:	T05S, R14	W, Sec. 25 (S)			Acres:	217.3	
Location: Detailed Location: Ecological: General: Owner/Manager:		ALONG BEACH AS THIS BE	ETLE PREFERS	SANDY ARE	AS.		
Occurrence No.	5	Map Index: 60935	EO Index:	60971		Element Last Seen:	XXXX-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	XXXX-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2012-09-14
Quad Summary: County Summary:		h (3311861), Los Alamitos (3 es, Pacific Ocean	311871), Long B	each (3311872	2)		
Lat/Long:	33.76188 /	/ -118.16108			Accuracy:	non-specific area	
UTM:	Zone-11 N	3736360 E392475			Elevation (ft):	20	
PLSS:	T05S, R12	2W, Sec. 08 (S)			Acres:	327.8	
Location:	LONG BE	ACH.					
Detailed Location:	MAPPED	ALONG BEACH AS THIS BE	ETLE PREFERS	SANDY ARE	AS.		
Ecological:							
General:	HISTORIC	AL LOCALITY.					
Owner/Manager:	UNKNOW	Ν					





Cicindela senil senile tiger beetle						Eleme	nt Code: IICOL	.02121
Listing Status:	Federal:	None		CNDE	DB Element Ranks	: Global:	G2G3T1T3	
	State:	None				State:	S1	
	Other:							
Habitat:	General:	INHABITS MARINE SHORE DIEGO. ALSO FOUND AT I			ORNIA COAST SO	UTH TO SA	LT MARSHES	OF SAN
	Micro:	INHABITS DARK-COLORE	D MUD IN THE	LOWER ZONE	AND DRIED SALT I	PANS IN TH	HE UPPER ZON	NE.
Occurrence No.	4	Map Index: 01609	EO Index:	22657		Element	Last Seen:	XXXX-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last	Seen:	1979-XX-XX
Осс. Туре:	Natural/N	ative occurrence	Trend:	Unknown		Record L	ast Updated:	2012-09-14
Quad Summary:	Venice (3	311884)						
County Summary:	Los Ange	les						
Lat/Long:	33.89038	/ -118.41588			Accuracy:	non-specifi	c area	
UTM:	Zone-11 I	N3750904 E369073			Elevation (ft):	10		
PLSS:	T03S, R1	5W, Sec. 25 (S)			Acres:	66.9		
Location:	MANHAT	TAN BEACH.						
Detailed Location:	THE BEE	TLE WAS RESTRICTED TO S	SPECIFIC, HARI	D-TO-LOCATE	AREAS WITHIN TH	E MARINE	SALT MARSH.	
Ecological:	THE BEE	TLE HAS A BIMODAL FLIGH	FPERIOD - IN E	ARLY SPRING	AND LATE FALL.			
General:	UNCOM	NONLY COLLECTED BECAUS		NS NATURALLY	Y EXIST AT VERY I	LOW LEVE	LS. HISTORICA	LOCATION.
Owner/Manager:	LAX COL	INTY-MANHATTAN BEACH						





Coelus globosi	us				Element Code: IICOL	_4A010
globose dune bee						
Listing Status:	Federal:	None		CNDDB Element Rar	nks: Global: G1G2	
	State:	None			State: S1S2	
	Other:	IUCN_VU-Vulnerable				
Habitat:	General:			ABITAT; ERRATICALLY DISTR	RIBUTED FROM TEN MILE CI	REEK IN
	Micro:	MENDOCINO COUNTY SO INHABITS FOREDUNES A COMMON BENEATH DUN	ND SAND HUM	MOCKS; IT BURROWS BENEA	TH THE SAND SURFACE AN	D IS MOST
Occurrence No.	16	Map Index: 59331	EO Index:	60666	Element Last Seen:	1973-08-30
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1973-08-30
Occ. Type:		ative occurrence	Trend:	Unknown	Record Last Updated:	2012-08-24
			Tional			2012 00 21
Quad Summary:	Venice (33	,				
County Summary:	Los Angele	es, Pacific Ocean				
Lat/Long:	33.94612 /	/ -118.44464		Accuracy:	non-specific area	
UTM:	Zone-11 N	I3757121 E366501		Elevation (ft):	10	
DI CC.	T03S, R15	5W, Sec. 03 (S)		Acres:	551.7	
PLSS:						
Location:	EL SEGUN	NDO DUNES FROM BALLON	NA CREEK TO IN	IPERIAL HWY.		
	INCLUDES		LAYA DEL REY,	/PERIAL HWY. " "FOREDUNES BORDERING I	DOCKWEILER STATE BEACH	I," AND "WEST
Location:	INCLUDES END OF L SCH81R0	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE	PLAYA DEL REY, ER)".			
Location: Detailed Location:	INCLUDES END OF L SCH81R0 INFORMA 1 SPECIM	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN.	PLAYA DEL REY, ER)". IG ON THE FOR 134 & 1 COLLEC ⁻	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED	VEILER STATE BEACH; NO C	OTHER
Location: Detailed Location: Ecological:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 193	PLAYA DEL REY, ER)". IG ON THE FOR 134 & 1 COLLEC ⁻	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED	VEILER STATE BEACH; NO C	OTHER
Location: Detailed Location: Ecological: General:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 19: LOGY. 1 COLLECTED 30 AU	PLAYA DEL REY, ER)". IG ON THE FOR 134 & 1 COLLEC ⁻	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED	VEILER STATE BEACH; NO C	OTHER
Location: Detailed Location: Ecological: General: Owner/Manager:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL CITY OF L	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 19 LOGY. 1 COLLECTED 30 AU LOGY. 1 COLLECTED 30 AU	PLAYA DEL REY, ER)". IG ON THE FOR 34 & 1 COLLEC [*] JG 1973 BY ICEN	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE.	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI	OTHER EUM OF
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL CITY OF L 38 Unknown	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 19 LOGY. 1 COLLECTED 30 AU LOGY. 1 COLLECTED 30 AU	PLAYA DEL REY, ER)". IG ON THE FOR I34 & 1 COLLEC ⁻ JG 1973 BY ICEN EO Index:	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE. 86141	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI Element Last Seen:	DTHER EUM OF 2001-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL CITY OF L 38 Unknown Natural/Na	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 19: LOGY. 1 COLLECTED 30 AU LOS ANGELES Map Index: 85097	EAYA DEL REY, ER)". IG ON THE FOR 34 & 1 COLLEC JG 1973 BY ICEN EO Index: Presence:	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE. 86141 Presumed Extant	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI Element Last Seen: Site Last Seen:	2001-XX-XX 2001-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL CITY OF L 38 Unknown	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 19: LOGY. 1 COLLECTED 30 AU .OS ANGELES Map Index: 85097 ative occurrence	EAYA DEL REY, ER)". IG ON THE FOR 34 & 1 COLLEC JG 1973 BY ICEN EO Index: Presence:	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE. 86141 Presumed Extant	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI Element Last Seen: Site Last Seen:	2001-XX-XX 2001-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL CITY OF L 38 Unknown Natural/Na Venice (33 Los Angele	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 19: LOGY. 1 COLLECTED 30 AU .OS ANGELES Map Index: 85097 ative occurrence	EAYA DEL REY, ER)". IG ON THE FOR 34 & 1 COLLEC JG 1973 BY ICEN EO Index: Presence:	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE. 86141 Presumed Extant	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI Element Last Seen: Site Last Seen:	2001-XX-XX 2001-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOI CITY OF L 38 Unknown Natural/Na Venice (33 Los Angele 33.96716 /	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 19: LOGY. 1 COLLECTED 30 AU LOS ANGELES Map Index: 85097 ative occurrence 311884) es	EAYA DEL REY, ER)". IG ON THE FOR 34 & 1 COLLEC JG 1973 BY ICEN EO Index: Presence:	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE. 86141 Presumed Extant Unknown	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI Element Last Seen: Site Last Seen: Record Last Updated:	2001-XX-XX 2001-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL CITY OF L 38 Unknown Natural/Na Venice (33 Los Angele 33.96716 / Zone-11 N	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 19: LOGY. 1 COLLECTED 30 AU LOS ANGELES Map Index: 85097 ative occurrence 311884) es	EAYA DEL REY, ER)". IG ON THE FOR 34 & 1 COLLEC JG 1973 BY ICEN EO Index: Presence:	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE. 86141 Presumed Extant Unknown	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI Element Last Seen: Site Last Seen: Record Last Updated: non-specific area	2001-XX-XX 2001-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOI CITY OF L 38 Unknown Natural/Na Venice (33 Los Angele 33.96716 / Zone-11 N T02S, R15	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 192 LOGY. 1 COLLECTED 30 AU .OS ANGELES Map Index: 85097 ative occurrence 311884) es / -118.43843 I3759447 E367107 5W, Sec. 27 (S)	PLAYA DEL REY, ER)". IG ON THE FOR I34 & 1 COLLEC JG 1973 BY ICEN EO Index: Presence: Trend:	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE. 86141 Presumed Extant Unknown Accuracy: Elevation (ft):	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 10 324.0	DTHER EUM OF 2001-XX-XX 2001-XX-XX 2012-12-10
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL CITY OF L 38 Unknown Natural/Na Venice (33 Los Angela 33.96716 / Zone-11 N T02S, R15 BALLONA REY, LOS	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 19: LOGY. 1 COLLECTED 30 AU .OS ANGELES Map Index: 85097 ative occurrence 311884) es (-118.43843 13759447 E367107 5W, Sec. 27 (S) WETLANDS, S SIDE OF BA ANGELES.	ALLONA CEEK B	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE. 86141 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 10 324.0 Y 1) & VISTA DEL MAR ROAD	DTHER EUM OF 2001-XX-XX 2001-XX-XX 2012-12-10
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL CITY OF L 38 Unknown Natural/Na Venice (33 Los Angele 33.96716 / Zone-11 N T02S, R15 BALLONA REY, LOS BALLONA	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. IEN COLLECTED 10 FEB 19: LOGY. 1 COLLECTED 30 AU .OS ANGELES Map Index: 85097 ative occurrence 311884) es (-118.43843 13759447 E367107 5W, Sec. 27 (S) WETLANDS, S SIDE OF BA ANGELES.	ALLONA CEEK B	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE. 86141 Presumed Extant Unknown Accuracy: Elevation (ft): Acres: ETWEEN LINCOLN BLVD (HW	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 10 324.0 Y 1) & VISTA DEL MAR ROAD	DTHER EUM OF 2001-XX-XX 2001-XX-XX 2012-12-10
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	INCLUDES END OF L SCH81R00 INFORMA 1 SPECIM ENTOMOL CITY OF L 38 Unknown Natural/Na Venice (33 Los Angele 33.96716 / Zone-11 N T02S, R15 BALLONA REY, LOS BALLONA FOUND IN NOT FOU	S LOCATIONS GIVEN AS "P A AIRPORT (WESTCHESTE 001: NOTED AS OCCURRIN TION GIVEN. EN COLLECTED 10 FEB 19: LOGY. 1 COLLECTED 30 AU .OS ANGELES Map Index: 85097 ative occurrence 311884) es (-118.43843 13759447 E367107 5W, Sec. 27 (S) WETLANDS, S SIDE OF BA ANGELES. WETLANDS "AREA B." THE J DUNE AREAS.	AVA DEL REY, IG ON THE FOR 34 & 1 COLLEC JG 1973 BY ICEN EO Index: Presence: Trend: ALLONA CEEK B E DUNES ARE O IRVEY IN 1981. F	" "FOREDUNES BORDERING I EDUNES BORDERING DOCKV FED 11 AUG 1953 DEPOSITED NOGLE & ID'D BY HOGUE. 86141 Presumed Extant Unknown Accuracy: Elevation (ft): Acres: ETWEEN LINCOLN BLVD (HW N THE EXTREME WEST EDGE	VEILER STATE BEACH; NO C IN UC DAVIS BOHART MUSI Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 10 324.0 Y 1) & VISTA DEL MAR ROAD	DTHER EUM OF 2001-XX-XX 2001-XX-XX 2012-12-10 D, PLAYA DEL





• • • • •					E 1		414/04/0
Onychobaris la	ngei				Elem	ent Code: IICOI	_40010
Lange's El Segun	do Dune wee	vil					
Listing Status:	Federal:	None		CNDDB Element Ra	nks: Global	: G1	
	State:	None			State:	S1	
	Other:						
Habitat:	General:	KNOWN FROM EL SEGUN	IDO DUNES.				
	Micro:						
Occurrence No.	1	Map Index: 01535	EO Index:	13171	Elemen	t Last Seen:	1938-09-28
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Las	st Seen:	1938-09-28
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record	Last Updated:	1995-10-25
Quad Summary:	Venice (33	311884)					
County Summary:	Los Angele	es					
Lat/Long:	33.93791 /	/ -118.43366		Accuracy:	specific ar	ea	
UTM:	Zone-11 N	3756197 E367502		Elevation (ft):	100		
PLSS:	T03S, R15	W, Sec. 03 (S)		Acres:	119.4		
Location:	EL SEGUI	NDO DUNES JUST W OF LO	S ANGELES IN	ERNATIONAL AIRPORT.			
Detailed Location:	ENDEMIC	; ONLY KNOWN FROM THE	TYPE LOCALIT	Υ.			
Ecological:		E FOODPLANT IS AN EVENI KNOWN ABOUT ITS LIFE H		(OENOTHERA SP); SPECIME	NS WERE TA	KEN CLOSE TO	THE ROOTS.
General:							
Owner/Manager:		A-LA/EL SEGUNDO DUNES					





Trigonoscuta o Dorothy's El Seg					Element Code: IICOL	.51021
Listing Status:		None		CNDDB Element Rank	s: Global : G1T1	
Listing Otatus.	State:	None			State: S1	
	Other:	None			olate. Of	
Habitat:	General:	COASTAL SAND DUNES		SCOUNTY		
	Micro:			3 COUNTY.		
Occurrence No.	1	Map Index: 85097	EO Index:	22645	Element Last Seen:	2001-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	2001-XX-XX
Occ. Type:		ative occurrence	Trend:	Unknown	Record Last Updated:	2012-12-10
			Trend.	Unknown	Record Last opuated.	2012 12 10
Quad Summary:	Venice (33	,				
County Summary:	Los Angele	es				
Lat/Long:	33.96716 /	/ -118.43843		Accuracy:	non-specific area	
UTM:	Zone-11 N	3759447 E367107		Elevation (ft):	10	
PLSS:	T02S, R15	5W, Sec. 27 (S)		Acres:	324.0	
Location:		WETLANDS, S SIDE OF BA	LLONA CEEK B	ETWEEN LINCOLN BLVD (HWY	1) & VISTA DEL MAR ROAD), PLAYA DEL
Location: Detailed Location:	REY, LOS	ANGELES.		ETWEEN LINCOLN BLVD (HWY	,), PLAYA DEL
	REY, LOS BALLONA	ANGELES.	E DUNES ARE O	, , , , , , , , , , , , , , , , , , ,	,), PLAYA DEL
Detailed Location:	REY, LOS BALLONA FOUND O 1980: COM	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MMON BENEATH NATIVE P	E DUNES ARE O UNES. LANTS ON THE	, , , , , , , , , , , , , , , , , , ,	OF "AREA B." IMON INSECT COLLECTED	IN PITFALL
Detailed Location: Ecological:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES.	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MMON BENEATH NATIVE P	E DUNES ARE O UNES. LANTS ON THE	N THE EXTREME WEST EDGE	OF "AREA B." IMON INSECT COLLECTED	IN PITFALL
Detailed Location: Ecological: General:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES.	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MMON BENEATH NATIVE P ONE OF THE MOST ABUNE	E DUNES ARE O UNES. LANTS ON THE	N THE EXTREME WEST EDGE	OF "AREA B." IMON INSECT COLLECTED	IN PITFALL
Detailed Location: Ecological: General: Owner/Manager:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MMON BENEATH NATIVE P ONE OF THE MOST ABUNE -ONA WETLANDS ER	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS (N THE EXTREME WEST EDGE O DUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I	OF "AREA B." IMON INSECT COLLECTED N "AREA B." 1996 & 2001: F	IN PITFALL OUND IN THE
Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL 2 Unknown	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MMON BENEATH NATIVE P ONE OF THE MOST ABUNE -ONA WETLANDS ER	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS (EO Index:	N THE EXTREME WEST EDGE O DUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I 14454	OF "AREA B." MON INSECT COLLECTED N "AREA B." 1996 & 2001: F Element Last Seen:	IN PITFALL OUND IN THE 1954-03-12
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL 2 Unknown	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MON BENEATH NATIVE P ONE OF THE MOST ABUNE -ONA WETLANDS ER Map Index: 59331	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS O EO Index: Presence:	N THE EXTREME WEST EDGE ODUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I 14454 Presumed Extant	OF "AREA B." IMON INSECT COLLECTED N "AREA B." 1996 & 2001: F Element Last Seen: Site Last Seen:	IN PITFALL OUND IN THE 1954-03-12 1954-03-12
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL 2 Unknown Natural/Na Venice (33	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MON BENEATH NATIVE P ONE OF THE MOST ABUNE -ONA WETLANDS ER Map Index: 59331	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS O EO Index: Presence:	N THE EXTREME WEST EDGE ODUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I 14454 Presumed Extant	OF "AREA B." IMON INSECT COLLECTED N "AREA B." 1996 & 2001: F Element Last Seen: Site Last Seen:	IN PITFALL OUND IN THE 1954-03-12 1954-03-12
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL 2 Unknown Natural/Na Venice (33 Los Angele	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MMON BENEATH NATIVE P ONE OF THE MOST ABUNE LONA WETLANDS ER Map Index: 59331 ative occurrence	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS O EO Index: Presence:	N THE EXTREME WEST EDGE ODUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I 14454 Presumed Extant	OF "AREA B." IMON INSECT COLLECTED N "AREA B." 1996 & 2001: F Element Last Seen: Site Last Seen:	IN PITFALL OUND IN THE 1954-03-12 1954-03-12
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL 2 Unknown Natural/Na Venice (33 Los Angele 33.94612 /	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MON BENEATH NATIVE P ONE OF THE MOST ABUNE LONA WETLANDS ER Map Index: 59331 ative occurrence 311884) es, Pacific Ocean	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS O EO Index: Presence:	N THE EXTREME WEST EDGE ODUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I 14454 Presumed Extant Unknown	OF "AREA B." MON INSECT COLLECTED N "AREA B." 1996 & 2001: F Element Last Seen: Site Last Seen: Record Last Updated:	IN PITFALL OUND IN THE 1954-03-12 1954-03-12
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL 2 Unknown Natural/Na Venice (33 Los Angele 33.94612 / Zone-11 N	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MMON BENEATH NATIVE P ONE OF THE MOST ABUNE LONA WETLANDS ER Map Index: 59331 Ative occurrence B11884) es, Pacific Ocean	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS O EO Index: Presence:	N THE EXTREME WEST EDGE O DUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I 14454 Presumed Extant Unknown	OF "AREA B." MON INSECT COLLECTED N "AREA B." 1996 & 2001: F Element Last Seen: Site Last Seen: Record Last Updated: non-specific area	IN PITFALL OUND IN THE 1954-03-12 1954-03-12
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL 2 Unknown Natural/Na Venice (33 Los Angele 33.94612 / Zone-11 N T03S, R15	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MON BENEATH NATIVE P ONE OF THE MOST ABUNE -ONA WETLANDS ER Map Index: 59331 ative occurrence 311884) es, Pacific Ocean 7-118.44464 13757121 E366501	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS (EO Index: Presence: Trend:	N THE EXTREME WEST EDGE ODUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I 14454 Presumed Extant Unknown Accuracy: Elevation (ft):	OF "AREA B." MON INSECT COLLECTED N "AREA B." 1996 & 2001: F Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 120	IN PITFALL OUND IN THE 1954-03-12 1954-03-12
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL 2 Unknown Natural/Na Venice (33 Los Angele 33.94612 / Zone-11 N T03S, R15 EL SEGUN	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MON BENEATH NATIVE P ONE OF THE MOST ABUNE ONA WETLANDS ER Map Index: 59331 Ative occurrence B11884) es, Pacific Ocean 7-118.44464 I3757121 E366501 GW, Sec. 03 (S)	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS O EO Index: Presence: Trend:	N THE EXTREME WEST EDGE ODUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I 14454 Presumed Extant Unknown Accuracy: Elevation (ft):	OF "AREA B." MON INSECT COLLECTED N "AREA B." 1996 & 2001: F Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 120	IN PITFALL OUND IN THE 1954-03-12 1954-03-12
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL 2 Unknown Natural/Na Venice (33 Los Angele 33.94612 / Zone-11 N T03S, R15 EL SEGUN FOUND B	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MON BENEATH NATIVE P ONE OF THE MOST ABUNE -ONA WETLANDS ER Map Index: 59331 ative occurrence 	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS O EO Index: Presence: Trend: DUNES.	N THE EXTREME WEST EDGE ODUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I 14454 Presumed Extant Unknown Accuracy: Elevation (ft):	OF "AREA B." MON INSECT COLLECTED N "AREA B." 1996 & 2001: F Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 120	IN PITFALL OUND IN THE 1954-03-12 1954-03-12
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	REY, LOS BALLONA FOUND O 1980: COM TRAPS & DUNES. DFG-BALL 2 Unknown Natural/Na Venice (33 Los Angele 33.94612 / Zone-11 N T03S, R15 EL SEGUN FOUND BI LIMITED T TYPE LOO	ANGELES. WETLANDS "AREA B." THE NLY ON COASTAL SAND D MON BENEATH NATIVE P ONE OF THE MOST ABUNE -ONA WETLANDS ER Map Index: 59331 ative occurrence 	E DUNES ARE O UNES. LANTS ON THE DANT WEEVILS O EO Index: Presence: Trend: DUNES. ANTS.	N THE EXTREME WEST EDGE ODUNES. 1991: 15TH MOST COM ON THE DUNES. 1995: FOUND I 14454 Presumed Extant Unknown Accuracy: Elevation (ft):	OF "AREA B." MON INSECT COLLECTED N "AREA B." 1996 & 2001: F Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 120 551.7 CROSSING THE DUNES. F	IN PITFALL OUND IN THE 1954-03-12 1954-03-12 2005-03-01



California Natural Diversity Database



Rhaphiomidas		s terminatus			Eleme	nt Code: IIDIP	05022
El Segundo flowe	er-loving fly						
Listing Status:	Federal:	None		CNDDB Element Ranl	ks: Global:	G1T1	
	State:	None			State:	S1	
	Other:						
Habitat:	General:	PRESUMED EXTINCT BU	T RECENTLY DI	SCOVERED ON MALAGA DUNE	ES, LOS ANG	ELES COUNTY	<i>(</i> .
	Micro:	PERCHED DUNES.					
* SENSITIVE *							
Occurrence No.	1	Map Index: 65035	EO Index:	65118	Element	Last Seen:	2001-07-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Las	t Seen:	2001-07-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record I	Last Updated:	2021-02-25
Quad Summary:	Redondo	Beach (3311874)					
County Summary:	Los Angel	es					
Lat/Long:				Accuracy:	1/5 mile		
UTM:				Elevation (ft):	341		
PLSS:				Acres:	70.0		
Location:	*SENSITI	VE* LOCATION INFORMAT	ION SUPPRESS	ED.			
Detailed Location:		CONTACT THE CALIFORNIA RE INFORMATION: (916) 322		ERSITY DATABASE, CALIFORN	IA DEPARTM	ENT OF FISH /	AND WILDLIFE,
Ecological:	FORMATI			CANYON, THAT IS DISJUNCT F NDING ALONG TORRANCE BE			
General:							
Owner/Manager:							
Brennania bell	cini				Eleme	nt Code: IIDIP	17010
Belkin's dune tab							
Listing Status:		None		CNDDB Element Ranl	ks: Global:	G1G2	
0	State:	None			State:	S1S2	
	Other:	IUCN VU-Vulnerable			-		
Habitat:	General:	INHABITS COASTAL SAN	ID DUNES OF SO	OUTHERN CALIFORNIA			

Micro:



California Department of Fish and Wildlife



(LERSI)							~
Occurrence No.	1	Map Index: 01476	EO Index:	22617		Element Last Seen:	1980-07-25
Occ. Rank:	None		Presence:	Possibly Extir	pated	Site Last Seen:	1980-07-25
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	2016-07-21
Quad Summary:	Venice (331	1884)					
County Summary:	Los Angeles	i					
Lat/Long:	33.96225 / -	118.44969			Accuracy:	non-specific area	
UTM:	Zone-11 N3	758917 E366059			Elevation (ft):	10	
PLSS:	T02S, R15W	/, Sec. 33, NE (S)			Acres:	8.4	
Location:	SAND DUN	ES JUST SOUTH OF BALL	ONA CREEK &	JUST EAST OF	VISTA DEL MAR	R ROAD, LOS ANGELES.	
Detailed Location:	WEST END	OF THE BALLONA WETL	ANDS.				
Ecological:	ADULTS FL	Y FROM LATE MAY TO EA	ARLY JULY AND	BREED ONLY	ON COASTAL S	AND DUNES.	
General:		TAKEN ON THE SAND D SINCE THE MID 1980'S.	UNES; LARVAE	COLLECTED 5	0 CM BELOW TH	HE SOIL SURFACE 27 JUL 1	980. NONE
Owner/Manager:	DFG-BALLC	ONA WETLANDS ER					
Occurrence No.	2	Map Index: 01535	EO Index:	14453		Element Last Seen:	1987-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed Ext	tant	Site Last Seen:	1987-XX-XX
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	1994-10-17
Quad Summary:	Venice (331	1884)					
County Summary:	Los Angeles						
Lat/Long:	33.93791 / -	118 43366			Accuracy:	specific area	
UTM:		756197 E367502			Elevation (ft):	100	
PLSS:		/, Sec. 03 (S)			Acres:	119.4	
Location:	EL SEGUNI	DO DUNES, ON THE WES		ANGELES INTE	RNATIONAL AIR	PORT (LAX).	
Detailed Location:							
Ecological:							
General:	FLIES WER	E TAKEN OCCASIONALLY	/ IN 1986 AND R	ARELY IN 1987	7.		
Owner/Manager:	CITY OF LA	-LA/EL SEGUNDO DUNES	6				
Occurrence No	2	Man Index: 01562	EQ Index:	22646		Element I act Seen	1086 XX XX
Occurrence No. Occ. Rank:	3 Fair	Map Index: 01563	EO Index: Presence:	22616 Presumed Ext	tant	Element Last Seen: Site Last Seen:	1986-XX-XX 1986-XX-XX
Occ. Type:		ve occurrence	Trend:	Unknown	lan	Record Last Updated:	1995-10-25
				Onknown			1000 10 20
Quad Summary: County Summary:	Venice (331 Los Angeles						
					A	4 / F	
Lat/Long:	33.92761 / -				Accuracy:	1/5 mile	
UTM:		755046 E368096			Elevation (ft):	80	
PLSS:		/, Sec. 11 (S)			Acres:	0.0	
Location:	SAND DUNI	ES BEHIND HYPERION SE	WAGE TREAT	IENT PLANT.			
Detailed Location:							
Ecological:							
	NO FLIES F PVT, LADW	OUND HERE IN 1987. DUI	NE SYSTEM PA	RTLY ON LADW	VP RIGHT-OF-W	AY FOR POWER LINES.	



California Department of Fish and Wildlife



Occurrence No.	4	Map Index: 01609	EO Index:	22614	Element Last Seen:	1949-04-X
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1949-04-X
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	1998-10-1
Quad Summary:	Venice (33	311884)				
County Summary:	Los Angele	es				
Lat/Long:	33.89038 /	/ -118.41588		Accuracy:	non-specific area	
UTM:	Zone-11 N	I3750904 E369073		Elevation (ft):	10	
PLSS:	T03S, R15	5W, Sec. 25 (S)		Acres:	66.9	
Location:	MANHATT	TAN BEACH.				
Detailed Location:						
Ecological:	SAND DUI	NE INHABITANT, FLYING FF	ROM MAY TO M	ID-JUNE.		
General:	ONE FEM	ALE TAKEN AT THIS SITE.				
Owner/Manager:	LAX COUN	NTY-MANHATTAN BEACH				
Bombus crotcl					Element Code: IIHYM	124480
Crotch bumble b	ee					
Listing Status:		None		CNDDB Element Ran		
Listing Status:	State:	None Candidate Endangered		CNDDB Element Ranl	ks: Global: G3G4 State: S1S2	
U U	State: Other:	Candidate Endangered			State: S1S2	
Listing Status: Habitat:	State: Other: General:	Candidate Endangered		RRA-CASCADE CREST AND S	State: S1S2	
U U	State: Other:	Candidate Endangered			State: S1S2	iolzia, ani
U U	State: Other: General:	Candidate Endangered COASTAL CALIFORNIA EA		RRA-CASCADE CREST AND S	State: S1S2	IOLZIA, ANI 1953-05-0
Habitat:	State: Other: General: Micro:	Candidate Endangered COASTAL CALIFORNIA EA FOOD PLANT GENERA IN ERIOGONUM.	ICLUDE ANTIRR	ERRA-CASCADE CREST AND S CHINUM, PHACELIA, CLARKIA, I	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH	1953-05-0
Habitat:	State: Other: General: Micro: 162 Unknown	Candidate Endangered COASTAL CALIFORNIA EA FOOD PLANT GENERA IN ERIOGONUM.	EO Index:	ERRA-CASCADE CREST AND S CHINUM, PHACELIA, CLARKIA, I 98991	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH Element Last Seen:	1953-05-0 1953-05-0
Habitat: Occurrence No. Occ. Rank:	State: Other: General: Micro: 162 Unknown Natural/Na	Candidate Endangered COASTAL CALIFORNIA EA FOOD PLANT GENERA IN ERIOGONUM. Map Index: 01722	EO Index: Presence: Trend:	ERRA-CASCADE CREST AND S CHINUM, PHACELIA, CLARKIA, I 98991 Presumed Extant	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH Element Last Seen: Site Last Seen:	
Habitat: Occurrence No. Occ. Rank: Occ. Type:	State: Other: General: Micro: 162 Unknown Natural/Na Inglewood	Candidate Endangered COASTAL CALIFORNIA EA FOOD PLANT GENERA IN ERIOGONUM. Map Index: 01722 ative occurrence (3311883), Venice (3311884	EO Index: Presence: Trend:	ERRA-CASCADE CREST AND S HINUM, PHACELIA, CLARKIA, I 98991 Presumed Extant Unknown	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH Element Last Seen: Site Last Seen:	1953-05-0 1953-05-0
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	State: Other: General: Micro: 162 Unknown Natural/Na Inglewood Los Angele	Candidate Endangered COASTAL CALIFORNIA EA FOOD PLANT GENERA IN ERIOGONUM. Map Index: 01722 ative occurrence (3311883), Venice (3311884	EO Index: Presence: Trend:	ERRA-CASCADE CREST AND S HINUM, PHACELIA, CLARKIA, I 98991 Presumed Extant Unknown	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH Element Last Seen: Site Last Seen:	1953-05-0 1953-05-0
Habitat: Dccurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	State: Other: General: Micro: 162 Unknown Natural/Na Inglewood Los Angele 33.99055 /	Candidate Endangered COASTAL CALIFORNIA EA FOOD PLANT GENERA IN ERIOGONUM. Map Index: 01722 ative occurrence (3311883), Venice (3311884 es	EO Index: Presence: Trend:	ERRA-CASCADE CREST AND S HINUM, PHACELIA, CLARKIA, I 98991 Presumed Extant Unknown 11813), Beverly Hills (3411814)	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH Element Last Seen: Site Last Seen: Record Last Updated:	1953-05-0 1953-05-0
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	State: Other: General: Micro: 162 Unknown Natural/Na Inglewood Los Angele 33.99055 / Zone-11 N	Candidate Endangered COASTAL CALIFORNIA EA FOOD PLANT GENERA IN ERIOGONUM. Map Index: 01722 ative occurrence (3311883), Venice (3311884 es / -118.38285	EO Index: Presence: Trend:	ERRA-CASCADE CREST AND S EHINUM, PHACELIA, CLARKIA, I 98991 Presumed Extant Unknown 11813), Beverly Hills (3411814) Accuracy:	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	1953-05-0 1953-05-0
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	State: Other: General: Micro: 162 Unknown Natural/Na Inglewood Los Angele 33.99055 / Zone-11 N	Candidate Endangered COASTAL CALIFORNIA EA FOOD PLANT GENERA IN ERIOGONUM. Map Index: 01722 ative occurrence (3311883), Venice (3311884 es / -118.38285 I3761970 E372277 IW, Sec. 18 (S)	EO Index: Presence: Trend:	ERRA-CASCADE CREST AND S CHINUM, PHACELIA, CLARKIA, I 98991 Presumed Extant Unknown 11813), Beverly Hills (3411814) Accuracy: Elevation (ft):	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 200	1953-05-0 1953-05-0
Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	State: Other: General: Micro: 162 Unknown Natural/Na Inglewood Los Angele 33.99055 / Zone-11 N T02S, R14	Candidate Endangered COASTAL CALIFORNIA E/ FOOD PLANT GENERA IN ERIOGONUM. Map Index: 01722 ative occurrence (3311883), Venice (3311884 es / -118.38285 I3761970 E372277 IW, Sec. 18 (S) HILLS. DCATION UNKNOWN. MAPF	EO Index: Presence: Trend:	ERRA-CASCADE CREST AND S CHINUM, PHACELIA, CLARKIA, I 98991 Presumed Extant Unknown 11813), Beverly Hills (3411814) Accuracy: Elevation (ft):	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 200 0.0	1953-05-0 1953-05-0 2015-09-2
Habitat: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	State: Other: General: Micro: 162 Unknown Natural/Na Inglewood Los Angele 33.99055 / Zone-11 N T02S, R14 BALDWIN EXACT LC	Candidate Endangered COASTAL CALIFORNIA E/ FOOD PLANT GENERA IN ERIOGONUM. Map Index: 01722 ative occurrence (3311883), Venice (3311884 es / -118.38285 I3761970 E372277 IW, Sec. 18 (S) HILLS. DCATION UNKNOWN. MAPF	EO Index: Presence: Trend:	ERRA-CASCADE CREST AND S CHINUM, PHACELIA, CLARKIA, I 98991 Presumed Extant Unknown 11813), Beverly Hills (3411814) Accuracy: Elevation (ft): Acres:	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 200 0.0	1953-05-0 1953-05-0 2015-09-2
Habitat: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	State: Other: General: Micro: 162 Unknown Natural/Na Inglewood Los Angele 33.99055 / Zone-11 N T02S, R14 BALDWIN EXACT LC ANGELES	Candidate Endangered COASTAL CALIFORNIA EA FOOD PLANT GENERA IN ERIOGONUM. Map Index: 01722 ative occurrence (3311883), Venice (3311884 es / -118.38285 I3761970 E372277 IW, Sec. 18 (S) HILLS. DCATION UNKNOWN. MAPPE	EO Index: Presence: Trend: 	ERRA-CASCADE CREST AND S CHINUM, PHACELIA, CLARKIA, I 98991 Presumed Extant Unknown 11813), Beverly Hills (3411814) Accuracy: Elevation (ft): Acres:	State: S1S2 OUTH INTO MEXICO. DENDROMECON, ESCHSCH Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 200 0.0	1953-05-0 1953-05-0 2015-09-2



California Department of Fish and Wildlife



Occurrence No.	163	Map Index: 28742	EO Index:	98992		Element Last Seen:	1917-05-26
Occ. Rank:	Unknown		Presence:	Presumed Ex	tant	Site Last Seen:	1917-05-26
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	2015-09-29
Quad Summary:	Inglewood (3	3311883)					
County Summary:	Los Angeles	;					
Lat/Long:	33.95930 / -	118.35104			Accuracy:	1 mile	
UTM:	Zone-11 N37	758465 E375170			Elevation (ft):	150	
PLSS:	T02S, R14W	/ (S)			Acres:	0.0	
Location:	INGLEWOO	D.					
Detailed Location:	EXACT LOC	CATION UNKNOWN. MAPP	PED BY CNDDB	IN THE VICINIT	TY OF THE CITY	OF INGLEWOOD.	
Ecological:							
General:	COLLECTIC	ONS WERE MADE IN THIS	VICINITY ON 26	6 MAY 1917.			
Owner/Manager:	UNKNOWN						
Occurrence No.	164	Map Index: 85090	EO Index:	98993		Element Last Seen:	1981-06-11
Occ. Rank:	Unknown		Presence:	Presumed Ex	tant	Site Last Seen:	1990-09-XX
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	2020-12-15
Quad Summary:	Venice (331	1884)					
County Summary:	Los Angeles	;					
Lat/Long:	33.96964 / -	118.43652			Accuracy:	non-specific area	
UTM:	Zone-11 N37	759720 E367287			Elevation (ft):	10	
PLSS:	T02S, R15W	/, Sec. 27 (S)			Acres:	609.0	
		V, Sec. 27 (S) VETLANDS ECOLOGICAL	RESERVE, NEA	R PLAYA DEL	Acres:		
Location:	BALLONA W	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/	ALLY ACROSS T	HE EXTENT O	Acres: REY, LOS ANGE F BALLONA WET		
Location: Detailed Location:	BALLONA W	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/	ALLY ACROSS T	HE EXTENT O	Acres: REY, LOS ANGE F BALLONA WET	LES. FLANDS ECOLOGICAL RESE	
Location: Detailed Location: Ecological:	BALLONA W MAPPED BY COLLECTIC	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9	THE EXTENT O WHICH FALLS	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B	LES. FLANDS ECOLOGICAL RESE	EK).
Location: Detailed Location: Ecological: General:	BALLONA W MAPPED BY COLLECTIC COLLECTIC TERRESTR	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ NS WERE MADE IN UNIT	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9	THE EXTENT O WHICH FALLS	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B	LES. FLANDS ECOLOGICAL RESI (SOUTH OF BALLONA CREI	EK).
Location: Detailed Location: Ecological: General: Owner/Manager:	BALLONA W MAPPED BY COLLECTIC COLLECTIC TERRESTRI DFG-BALLC	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ ONS WERE MADE IN UNIT ONS WERE MADE IN THIS IAL ARTHROPOD SURVE	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y.	HE EXTENT O WHICH FALLS JUL 1980, 5 AP	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREI JUN 1981. NOT FOUND DUF	ek). Ring 1990
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No.	BALLONA W MAPPED BY COLLECTIC COLLECTIC TERRESTRI DFG-BALLC	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC ONS WERE MADE IN UNIT	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y. EO Index:	HE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CRE JUN 1981. NOT FOUND DUF Element Last Seen:	EK). RING 1990 1938-07-06
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank:	BALLONA W MAPPED BY COLLECTIC TERRESTRI DFG-BALLC 165 Unknown	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y Y. EO Index: Presence:	HE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995 Presumed Ex	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREI JUN 1981. NOT FOUND DUF Element Last Seen: Site Last Seen:	EK). RING 1990 1938-07-06 1938-07-06
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	BALLONA W MAPPED BY COLLECTIC TERRESTR DFG-BALLC 165 Unknown Natural/Nativ	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557 ve occurrence	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y. EO Index:	HE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CRE JUN 1981. NOT FOUND DUF Element Last Seen:	EK). RING 1990 1938-07-06
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	BALLONA W MAPPED BY COLLECTIC TERRESTRI DFG-BALLC 165 Unknown Natural/Nativ	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557 ve occurrence 1884)	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y Y. EO Index: Presence:	HE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995 Presumed Ex	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREI JUN 1981. NOT FOUND DUF Element Last Seen: Site Last Seen:	EK). RING 1990 1938-07-06 1938-07-06
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary:	BALLONA W MAPPED BY COLLECTIC TERRESTRI DFG-BALLC 165 Unknown Natural/Nativ Venice (331 Los Angeles	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557 Ve occurrence 1884) 5, Pacific Ocean	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y Y. EO Index: Presence:	HE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995 Presumed Ex	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B 'R 1981, AND 11 tant	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREI JUN 1981. NOT FOUND DUF Element Last Seen: Site Last Seen: Record Last Updated:	EK). RING 1990 1938-07-06 1938-07-06
Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long:	BALLONA W MAPPED BY COLLECTIC TERRESTRI DFG-BALLC 165 Unknown Natural/Nativ Venice (331 Los Angeles 33.91505 / -	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557 ve occurrence 1884) s, Pacific Ocean 118.42810	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y Y. EO Index: Presence:	HE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995 Presumed Ex	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B 'R 1981, AND 11 tant tant	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREE JUN 1981. NOT FOUND DUF Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	EK). RING 1990 1938-07-06 1938-07-06
Location: Detailed Location: Ecological: General: Dwner/Manager: Doccurrence No. Docc. Rank: Docc. Type: Quad Summary: County Summary: Lat/Long: JTM:	BALLONA W MAPPED BY COLLECTIC TERRESTR DFG-BALLC 165 Unknown Natural/Natin Venice (3311 Los Angeles 33.91505 / - Zone-11 N35	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557 ve occurrence 1884) 5, Pacific Ocean 118.42810 753655 E367981	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y Y. EO Index: Presence:	HE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995 Presumed Ex	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B PR 1981, AND 11 tant tant Accuracy: Elevation (ft):	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREI JUN 1981. NOT FOUND DUF Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 10	EK). RING 1990 1938-07-06 1938-07-06
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	BALLONA W MAPPED BY COLLECTIC TERRESTRI DFG-BALLC 165 Unknown Natural/Nativ Venice (331 Los Angeles 33.91505 / - Zone-11 N37 T03S, R15W	VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557 ve occurrence 1884) 5, Pacific Ocean 118.42810 753655 E367981 V, Sec. 14 (S)	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y Y. EO Index: Presence:	HE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995 Presumed Ex	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B 'R 1981, AND 11 tant tant	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREE JUN 1981. NOT FOUND DUF Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	EK). RING 1990 1938-07-06 1938-07-06
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	BALLONA W MAPPED BY COLLECTIC TERRESTR DFG-BALLC 165 Unknown Natural/Nativ Venice (331 Los Angeles 33.91505 / - Zone-11 N3 T03S, R15W EL SEGUND	VETLANDS ECOLOGICAL VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557 ve occurrence 1884) 5, Pacific Ocean 118.42810 753655 E367981 V, Sec. 14 (S) DO DUNES BEACH.	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y. EO Index: Presence: Trend:	THE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995 Presumed Ex Unknown	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B PR 1981, AND 11 tant tant Accuracy: Elevation (ft): Acres:	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREIN JUN 1981. NOT FOUND DUF Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 10 0.0	EK). RING 1990 1938-07-06 1938-07-06 2015-09-29
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	BALLONA W MAPPED B) COLLECTIC TERRESTR DFG-BALLC 165 Unknown Natural/Nativ Venice (331 Los Angeles 33.91505 / - Zone-11 N3 T03S, R15W EL SEGUNE EXACT LOC	VETLANDS ECOLOGICAL VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557 ve occurrence 1884) 5, Pacific Ocean 118.42810 753655 E367981 V, Sec. 14 (S) DO DUNES BEACH.	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y. EO Index: Presence: Trend:	THE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995 Presumed Ex Unknown	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B PR 1981, AND 11 tant tant Accuracy: Elevation (ft): Acres:	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREI JUN 1981. NOT FOUND DUF Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 10	EK). RING 1990 1938-07-06 1938-07-06 2015-09-29
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	BALLONA W MAPPED B) COLLECTIC TERRESTR DFG-BALLC 165 Unknown Natural/Nativ Venice (331 Los Angeles 33.91505 / - Zone-11 N3 T03S, R15W EL SEGUNE EXACT LOC	VETLANDS ECOLOGICAL VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557 Ve occurrence 1884) 5, Pacific Ocean 118.42810 753655 E367981 V, Sec. 14 (S) DO DUNES BEACH. CATION UNKNOWN. MAPF	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y. EO Index: Presence: Trend:	THE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995 Presumed Ex Unknown	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B PR 1981, AND 11 tant tant Accuracy: Elevation (ft): Acres:	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREIN JUN 1981. NOT FOUND DUF Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 10 0.0	EK). RING 1990 1938-07-06 1938-07-06 2015-09-29
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General:	BALLONA W MAPPED BY COLLECTIC TERRESTR DFG-BALLC 165 Unknown Natural/Nativ Venice (331) Los Angeles 33.91505 / - Zone-11 N37 T03S, R15W EL SEGUNE EXACT LOC STATE BEA	VETLANDS ECOLOGICAL VETLANDS ECOLOGICAL Y CNDDB NON-SPECIFIC/ DNS WERE MADE IN UNIT DNS WERE MADE IN UNIT DNS WERE MADE IN THIS IAL ARTHROPOD SURVE DNA WETLANDS ER Map Index: 01557 Ve occurrence 1884) 5, Pacific Ocean 118.42810 753655 E367981 V, Sec. 14 (S) DO DUNES BEACH. CATION UNKNOWN. MAPF	ALLY ACROSS T 1 AND UNIT 2, V VICINITY ON 9 Y. EO Index: Presence: Trend:	THE EXTENT O WHICH FALLS JUL 1980, 5 AP 98995 Presumed Ex Unknown	Acres: REY, LOS ANGE F BALLONA WET WITHIN AREA B PR 1981, AND 11 tant tant Accuracy: Elevation (ft): Acres: RAL VICINITY OF	LES. FLANDS ECOLOGICAL RESE (SOUTH OF BALLONA CREIN JUN 1981. NOT FOUND DUF Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 10 0.0	EK). RING 1990 1938-07-06 2015-09-29



California Department of Fish and Wildlife



OVERSITY						
Occurrence No.	166	Map Index: 97654	EO Index:	98996	Element Last Seen:	1938-07-10
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1938-07-10
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown	Record Last Updated:	2015-10-14
Quad Summary:	Torrance (33	311873), Redondo Beach (3311874), Inglew	ood (3311883), Venice (331	1884)	
County Summary:	Los Angeles	i				
Lat/Long:	33.87281 / -	118.37015		Accuracy:	1 mile	
UTM:	Zone-11 N3	748899 E373276		Elevation (ft): 100	
PLSS:	T03S, R14W	/, Sec. 32 (S)		Acres:	0.0	
Location:	NORTH REI	JONDO.				
Detailed Location:	EXACT LOC	ATION UNKNOWN. MAPI	PED BY CNDDB	IN THE NORTHERN PORT	ION OF THE CITY OF REDONDO	D BEACH.
Ecological:						
General:	COLLECTIC	NS WERE MADE IN THIS	VICINITY IN JUI	N 1938 AND ON 10 JUL 193	38.	
Owner/Manager:	PVT					
	107	Nep Index: 07007	EQ Index	00007		1967-02-28
Occurrence No. Occ. Rank:	167 Unknown	Map Index: 27997	EO Index: Presence:	98997 Presumed Extant	Element Last Seen: Site Last Seen:	1967-02-28
Occ. Type:		ve occurrence	Trend:	Unknown	Record Last Updated:	2015-02-20
			irenu.	UIKIIUWII	Record Last opualed.	2013-09-29
Quad Summary:	Long Beach					
County Summary:	Los Angeles	, Pacific Ocean				
Lat/Long:	Los Angeles 33.77120 / -			Accuracy:	1 mile	
Lat/Long: UTM:	33.77120 / - ⁻ Zone-11 N37	118.18868 737422 E389931		Elevation (ft): 20	
Lat/Long:	33.77120 / - ⁻ Zone-11 N37	118.18868		-		
Lat/Long: UTM:	33.77120 / - ⁻ Zone-11 N37	118.18868 737422 E389931 /, Sec. 01 (S)		Elevation (ft): 20	
Lat/Long: UTM: PLSS:	33.77120 / - Zone-11 N3 T05S, R13W LONG BEAC	118.18868 737422 E389931 /, Sec. 01 (S) CH.	PED BY CNDDB	Elevation (Acres:	ft): 20	Ч.
Lat/Long: UTM: PLSS: Location:	33.77120 / - Zone-11 N3 T05S, R13W LONG BEAC	118.18868 737422 E389931 /, Sec. 01 (S) CH.	PED BY CNDDB	Elevation (Acres:	ft): 20 0.0	Ч.
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPF		Elevation (Acres:	ft): 20 0.0 Y OF THE CITY OF LONG BEAC	Н.
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPF		Elevation (Acres:	ft): 20 0.0 Y OF THE CITY OF LONG BEAC	Ч.
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPF		Elevation (Acres:	ft): 20 0.0 Y OF THE CITY OF LONG BEAC	Н. 2001-03-24
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPF DNS WERE MADE IN THIS	S VICINITY ON 21	Elevation (Acres:	ft): 20 0.0 Y OF THE CITY OF LONG BEAC	
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN 241 Unknown	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPF DNS WERE MADE IN THIS	S VICINITY ON 21 EO Index:	Elevation (Acres:	ft): 20 0.0 Y OF THE CITY OF LONG BEAC 67. Element Last Seen:	2001-03-24
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN 241 Unknown Natural/Nativ	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPP ONS WERE MADE IN THIS Map Index: 34591 ve occurrence	S VICINITY ON 21 EO Index: Presence: Trend:	Elevation (Acres: IN THE GENERAL VICINIT JUL 1967 AND 28 JUL 196 118094 Presumed Extant	ft): 20 0.0 Y OF THE CITY OF LONG BEAC 57. Element Last Seen: Site Last Seen:	2001-03-24 2001-03-24
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN 241 Unknown Natural/Nativ	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPP DNS WERE MADE IN THIS Map Index: 34591 ve occurrence 3311863), Torrance (33118	S VICINITY ON 21 EO Index: Presence: Trend:	Elevation (Acres: IN THE GENERAL VICINIT JUL 1967 AND 28 JUL 196 118094 Presumed Extant	ft): 20 0.0 Y OF THE CITY OF LONG BEAC 57. Element Last Seen: Site Last Seen:	2001-03-24 2001-03-24
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN 241 Unknown Natural/Nativ San Pedro (3 Los Angeles	118.18868 737422 E389931 /, Sec. 01 (S) CH. CATION UNKNOWN. MAPP ONS WERE MADE IN THIS Map Index: 34591 ve occurrence 3311863), Torrance (33118	S VICINITY ON 21 EO Index: Presence: Trend:	Elevation (Acres: IN THE GENERAL VICINIT JUL 1967 AND 28 JUL 196 118094 Presumed Extant Unknown	ft): 20 0.0 Y OF THE CITY OF LONG BEAC 57. Element Last Seen: Site Last Seen: Record Last Updated:	2001-03-24 2001-03-24
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN 241 Unknown Natural/Nativ San Pedro (3 Los Angeles 33.74588 / -	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPP DNS WERE MADE IN THIS Map Index: 34591 ve occurrence 3311863), Torrance (33118 118.33602	S VICINITY ON 21 EO Index: Presence: Trend:	Elevation (Acres: IN THE GENERAL VICINIT JUL 1967 AND 28 JUL 196 118094 Presumed Extant Unknown Accuracy:	ft): 20 0.0 Y OF THE CITY OF LONG BEAC 67. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	2001-03-24 2001-03-24
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN 241 Unknown Natural/Nativ San Pedro (3 Los Angeles 33.74588 / - Zone-11 N37	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPP ONS WERE MADE IN THIS Map Index: 34591 ve occurrence 3311863), Torrance (33118 118.33602 734781 E376250	S VICINITY ON 21 EO Index: Presence: Trend:	Elevation (Acres: IN THE GENERAL VICINIT JUL 1967 AND 28 JUL 196 118094 Presumed Extant Unknown	ft): 20 0.0 Y OF THE CITY OF LONG BEAC 57. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile ft): 1200	2001-03-24 2001-03-24
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN 241 Unknown Natural/Nativ San Pedro (3 Los Angeles 33.74588 / - Zone-11 N37 T05S, R14W	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPP DNS WERE MADE IN THIS Map Index: 34591 ve occurrence 3311863), Torrance (33118 5 118.33602 734781 E376250 V, Sec. 15 (S)	EO Index: Presence: Trend: 373)	Elevation (Acres: IN THE GENERAL VICINIT JUL 1967 AND 28 JUL 196 118094 Presumed Extant Unknown Accuracy: Elevation (Acres:	ft): 20 0.0 Y OF THE CITY OF LONG BEAC 67. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile ft): 1200 0.0	2001-03-24 2001-03-24
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN 241 Unknown Natural/Nativ San Pedro (3 Los Angeles 33.74588 / - Zone-11 N37 T05S, R14W VICINITY OF LOCATION BUTTERFLI	118.18868 737422 E389931 V, Sec. 01 (S) CH. CATION UNKNOWN. MAPP ONS WERE MADE IN THIS Map Index: 34591 ve occurrence 3311863), Torrance (33118 118.33602 734781 E376250 V, Sec. 15 (S) F SAN PEDRO HILL, PALC UNCERTAIN; DESCRIBEE ES ON THE SOUTH SLOF	EO Index: Presence: Trend: 373) DS VERDES PEN D AS "SAN PEDR PES OF THE PAL	Elevation (Acres: IN THE GENERAL VICINIT JUL 1967 AND 28 JUL 196 118094 Presumed Extant Unknown Accuracy: Elevation (Acres: IINSULA, LOS ANGELES C O" AND FOUND "DURING	ft): 20 0.0 Y OF THE CITY OF LONG BEAC 67. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile ft): 1200 0.0	2001-03-24 2001-03-24 2020-02-24
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	33.77120 / - Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN 241 Unknown Natural/Nativ San Pedro (3 Los Angeles 33.74588 / - Zone-11 N37 T05S, R14W VICINITY OF LOCATION BUTTERFLI	118.18868 737422 E389931 /, Sec. 01 (S) CH. CATION UNKNOWN. MAPP ONS WERE MADE IN THIS Map Index: 34591 ve occurrence 3311863), Torrance (33118 118.33602 734781 E376250 /, Sec. 15 (S) F SAN PEDRO HILL, PALC UNCERTAIN; DESCRIBEE	EO Index: Presence: Trend: 373) DS VERDES PEN D AS "SAN PEDR PES OF THE PAL	Elevation (Acres: IN THE GENERAL VICINIT JUL 1967 AND 28 JUL 196 118094 Presumed Extant Unknown Accuracy: Elevation (Acres: IINSULA, LOS ANGELES C O" AND FOUND "DURING	ft): 20 0.0 Y OF THE CITY OF LONG BEACH 57. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile ft): 1200 0.0 COUNTY SURVEYS FOR PALOS VERDES	2001-03-24 2001-03-24 2020-02-24
Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	33.77120 / -7 Zone-11 N37 T05S, R13W LONG BEAC EXACT LOC COLLECTIC UNKNOWN 241 Unknown Natural/Nativ San Pedro (3 Los Angeles 33.74588 / -7 Zone-11 N37 T05S, R14W VICINITY OF LOCATION B BUTTERFLI HILL NEAR	118.18868 737422 E389931 /, Sec. 01 (S) CH. CATION UNKNOWN. MAPP ONS WERE MADE IN THIS Map Index: 34591 ve occurrence 3311863), Torrance (33118 311863), Torrance (3311863), Torrance (331	EO Index: Presence: Trend: 373) DS VERDES PEN D AS "SAN PEDR PES OF THE PAL IINSULA. ONE QUEEN CO	Elevation (Acres: IN THE GENERAL VICINIT JUL 1967 AND 28 JUL 196 118094 Presumed Extant Unknown Accuracy: Elevation (Acres: IINSULA, LOS ANGELES C O" AND FOUND "DURING OS VERDE PENINSULA."	ft): 20 0.0 Y OF THE CITY OF LONG BEACH 57. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile ft): 1200 0.0 COUNTY SURVEYS FOR PALOS VERDES	2001-03-24 2001-03-24 2020-02-24



California Department of Fish and Wildlife



Occurrence No.	314	Map Index: B6396	EO Index:	119453	Element Last Seen:	2017-07-15
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	2017-07-15
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2020-11-12
Quad Summary:	San Pedro	(3311863)				
County Summary:	Los Angele	es				
Lat/Long:	33.7167 / -	-118.31507		Accuracy:	1/10 mile	
UTM:	Zone-11 N	3731521 E378150		Elevation (ft):	140	
PLSS:	T05S, R14	W, Sec. 26, NE (S)		Acres:	18.0	
Location:	WHITE PC	DINT NATURE PRESERVE, I	OS ANGELES.			
Detailed Location:	MAPPED [·]	TO PROVIDED COORDINAT	ES, ACCURACY	Y NOT KNOWN.		
Ecological:	OBSERVE	D ON ANNUAL SUNFLOWE	RS.			
General:	1 INDIVID 15 JUL 20		GRAPHED ON 1	1 JUN 2017. 1 FEMALE OBSER	VED & PHOTOGRAPHED ON	N 8 JUL & 1 ON
Owner/Manager:		LOS ANGELES				
Eucosma henn	ei				Element Code: IILEN	10R390
Henne's eucosm	an moth					
Listing Status:	Federal:	None		CNDDB Element Ran	ks: Global: G1	
	State:	None			State: S1	
	Other:					
Habitat:	General:	ENDEMIC TO THE EL SEC	GUNDO DUNES	(TYPE LOCALITY), LOS ANGEI	LES COUNTY.	
	Micro:	LARVAL FOODPLANT IS F WOODY STEMS AND UPF		OSISSIMA VAR AUSTROLITOR TS.	ALIS; LARVAE CAN BE FOU	ND ON
Occurrence No.	1	Map Index: 01535	EO Index:	14461	Element Last Seen:	1984-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1984-XX-XX
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown	Record Last Updated:	1995-12-07
Quad Summary:	Venice (33	311884)				
County Summary:	Los Angele	es				
Lat/Long:	33.93791 /	/ -118.43366		Accuracy:	specific area	
UTM:	Zone-11 N	3756197 E367502		Elevation (ft):	130	
PLSS:	T03S, R15	5W, Sec. 03 (S)		Acres:	119.4	
Location:	EL SEGUN	NDO DUNES, JUST WEST O	F LOS ANGELE	S INTERNATIONAL AIRPORT.		
Detailed Location:						
Ecological:	ENDEMIC	TO THE EL SEGUNDO DUN	NES. LARVAE A	RE STEM AND ROOT BORERS	OF PHACELIA RAMOSISSIN	ΛA.
General:		ARVAE COLLECTED BY ARM		ARED TO ADULT STAGE BY J	JLIAN P. DONOHUE (LACM)	AND
Owner/Manager:		A-LA/EL SEGUNDO DUNES				
2						





Eugnosta busc Busck's gallmoth					Elem	ent Code: IILEN	12X090
Listing Status:	Federal:	None		CNDDB Element Ran	ıks: Globa	I: G1G3	
C	State:	None			State:	SH	
	Other:						
Habitat:	General:						
	Micro:						
Occurrence No.	4	Map Index: 01534	EO Index:	60416	Elemei	nt Last Seen:	1939-01-XX
Occ. Rank:	None		Presence:	Possibly Extirpated	Site La	st Seen:	1939-01-XX
Осс. Туре:	Natural/N	ative occurrence	Trend:	Unknown	Record	Last Updated:	2005-03-07
Quad Summary:	Venice (3	311884)					
County Summary:	Los Ange	les, Pacific Ocean					
Lat/Long:	33.93401	/ -118.43379		Accuracy:	1 mile		
UTM:	Zone-11	N3755764 E367484		Elevation (ft):	100		
PLSS:	T03S, R1	5W, Sec. 03 (S)		Acres:	0.0		
Location:	EL SEGU	NDO.					
Detailed Location:							
Ecological:							
General:		CALITY. HISTORICAL RECOR 8. PARATYPES #15-33 EMERC		/ALE, EMERGED 16 NOV 1938 TO JAN 1939.	, AND ALLO	TYPE FEMALE,	EMERGED 29
Owner/Manager:	CITY OF	LOS ANGELES					





Panoquina erra		r			Element C	Code: IILEP84030
Listing Status:	,	None None IUCN NT-Near Threatened		CNDDB Element Rank	s: Global: G State: S	
Habitat:	General: Micro:	SOUTHERN CALIFORNIA C				
Occurrence No.	1	Map Index: 85090	EO Index:	14465	Element Las	st Seen: 2010-07-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Se	en: 2010-07-XX
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown	Record Last	t Updated: 2012-12-10
Quad Summary:	Venice (33	11884)				
County Summary:	Los Angele	es				
Lat/Long:	33.96964 /	-118.43652		Accuracy:	non-specific ar	ea
UTM:	Zone-11 N	3759720 E367287		Elevation (ft):	5	
PLSS:	T02S, R15	W, Sec. 27 (S)		Acres:	609.0	
Location:	BALLONA MARINA F		HWY 1 & N OF	BALLONA CR. B: W OF HWY 1	& S OF BALLON	IA CR. C: BTWN HWY 1 &
Detailed Location:	SMALL PC			F AREA "B" WEST OF JUNCTION ION OF FIJI WAY & ADMIRALTY		
Ecological:	HOST PLA	NT IS SALTGRASS (DISTICH	ILIS SPICATA).			
General:				VEY IN 1996. FOUND IN AREAS IT NOT FOUND IN JULY 2008 OI		91, 1995 & 2001. FOUND
Owner/Manager:	DFG-BALL	ONA WETLANDS ER				
Euphilotes bat	toides ally	ni			Element C	Code: IILEPG201B
El Segundo blue	butterfly					
Listing Status:	Federal:	Endangered		CNDDB Element Rank	s: Global: G	5T1
	State:	None			State: S	1
	Other:					
Habitat:	General:	RESTRICTED TO REMNAN	T COASTAL DI	JNE HABITAT IN SOUTHERN CA	ALIFORNIA.	
	Micro:	HOST PLANT IS ERIOGON ADULTS AS MAJOR NECTA		UM; LARVAE FEED ONLY ON T	HE FLOWERS A	ND SEEDS; USED BY



California Department of Fish and Wildlife



Occurrence No.	1	Map Index: 01535	EO Index:	14469		Element Last Seen:	2005-08-13
Occ. Rank:	Fair		Presence:	Presumed E	xtant	Site Last Seen:	2005-08-13
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Stable		Record Last Updated:	2007-09-06
Quad Summary:	Venice (3311	1884)					
County Summary:	Los Angeles	,					
Lat/Long:	33.93791 / -1				Accuracy:	specific area	
UTM:		756197 E367502			Elevation (ft):	140	
PLSS:		/, Sec. 03 (S)			Acres:	119.4	
Location:		DO DUNES, JUST WEST OF					
Detailed Location:		,				TRESSED (1984). TWO OF	THE 16
	ERIOGONUI		% OF THE EL S			(1984). IN 1988, FOUND ON	
Ecological:	PROGRAM					D AUTHORIZED A CONTINU OTIC PLANTS STABILIZING	
General:		COUNTS, 2123 ADULTS; B				; 1990: 5000 FLYING. JUN-A G '05: TRANSECT COUNTS	
Owner/Manager:	CITY OF LA	LA/EL SEGUNDO DUNES					
Occurrence No.	2	Map Index: 01586	EO Index:	23047		Element Last Seen:	2005-08-18
Occ. Rank:	Good		Presence:	Presumed E	xtant	Site Last Seen:	2005-08-18
Осс. Туре:	Natural/Nativ	/e occurrence	Trend:	Stable		Record Last Updated:	2007-09-05
Quad Summary:	Venice (3311	1884)					
County Summary:	Los Angeles						
Lat/Long:	33.91611 / -1	118.42147			Accuracy:	1/5 mile	
UTM:	Zone-11 N37	753764 E368596			Elevation (ft):	150	
PLSS:	T03S, R15W	/, Sec. 14 (S)			Acres:	0.0	
Location:	EL SEGUND	O DUNES-CHEVRON REF	INERY BUTTEI	RFLY PRESEF	RVE.		
Detailed Location:	PRESERVE	CONTAINS REMNANT DUI	NE HABITAT O	N REFINERY	PROPERTY.		
Ecological:		M PARVIFOLIUM IS THE M. N IS NOW REBOUNDING.	AJOR FOOD P	LANT AND IT	IS BEING REAST	ABLISHED, WEEDY PLANTS	REMOVED.
General:	POPULATIO	N HAD DECLINED DRAMA S. 1986: POP EST 357. JUN				ANALYZED IT. 1984: POP E TS. JUN- AUG 2005: 2,023 A	
Owner/Manager:	PVT-CHEVR	RON					



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California Natural Diversity Database



						_
Occurrence No.	3	Map Index: 69867	EO Index:	70689	Element Last Seen:	1990-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1990-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2007-09-11
Quad Summary:	Redondo	Beach (3311874)				
County Summary:	Los Angel	les				
Lat/Long:	33.80342	/ -118.39419		Accuracy:	1/5 mile	
UTM:	Zone-11 N	N3741233 E370948		Elevation (ft):	20	
PLSS:	T04S, R14	4W, Sec. 30, NW (S)		Acres:	0.0	
Location:	MALAGA	COVE, JUST NORTH OF TH	E PALOS VERD	ES PENINSULA.		
Detailed Location:		APPROXIMATELY 1 ACRE (LIUM AND THE EL SEGUND		LAND ALONG THE BASE OF T	HE BLUFFS SUPPORT ERIC	GONUM
Ecological:	THE SITE 1994/95.	WITH THE MOST ERIOGO	NUM PARVIFOL	IUM WAS DAMAGED BY EROSI	ION CONTROL DURING THE	WINTER OF
General:		PLANTS WITH 30,000 FLOW		AND T. LEIGH. 1984: ONE DAY 0 SURVEY INDICATED THE ST.		
Owner/Manager:	UNKNOW	/N, PVT				
Occurrence No.	4	Map Index: 70052	EO Index:	70908	Element Last Seen:	2007-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	2007-XX-X>
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2007-09-27
Quad Summary:	Redondo	Beach (3311874)				
County Summary:	Los Angel	les				
Lat/Long:	33.81491	/ -118.39049		Accuracy:	1/10 mile	
UTM:	Zone-11 N	N3742503 E371308		Elevation (ft):	50	
PLSS:	T04S, R14	4W, Sec. 19, W (S)		Acres:	0.0	
Location:	MIRAMAF	R PARK, REDONDO BEACH.				
Detailed Location:						
Ecological:						
General:	BUTTERF	FLIES OBSERVED AT MIRAN	/AR PARK DUR	ING 2007.		
Owner/Manager:	CITY OF	TORRANCE				
Glauconsvche	lvadamus	palosverdesensis			Element Code: IILEF	2G402A
Palos Verdes blu		Pa.0010100000000				
Listing Status:	-	Endangered		CNDDB Element Ran	ks: Global: G5T1	
	State:	None			State: S1	
	Other:					
Habitat:	General:	RESTRICTED TO THE CC COUNTY.	OL, FOG-SHRO	DUDED, SEAWARD SIDE OF PA	LOS VERDES HILLS, LOS A	NGELES

Micro: HOST PLANT IS ASTRAGALUS TRICHOPODUS VAR. LONCHUS (LOCOWEED).



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Occurrence No.	1 Map Index: (01687 EO Index:	23027	Element Last Seen:	1976-XX-XX
Occ. Rank:	None	Presence:	Extirpated	Site Last Seen:	1988-XX-XX
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2004-12-22
Quad Summary:	Redondo Beach (3311874)				
County Summary:	Los Angeles				
Lat/Long:	33.75329 / -118.39749		Accuracy	1/5 mile	
UTM:	Zone-11 N3735678 E370567	7	Elevation	(ft): 780	
PLSS:	T05S, R14W, Sec. 07 (S)		Acres:	0.0	
Location:	ALTA VISTA WAY WEST OF	F HAWTHORNE BLVD; RA	NCHO PALOS VERDES.		
Detailed Location:					
Ecological:	FORMERLY A LARGE, UND	DISTURBED COASTAL TER	RRACE.		
General:		STRAGALUS FROM THIS	LOCATION WERE SALVA	3; NO ADULTS OR LARVAL FOOE GED & REPLANTED IN PORTUG	
Owner/Manager:	PVT				
Occurrence No.	2 Map Index: (01696 EO Index:	23026	Element Last Seen:	1982-XX-XX
Occ. Rank:	None	Presence:	Extirpated	Site Last Seen:	1988-XX-XX
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2004-12-22
Quad Summary:					
	Redondo Beach (3311874)				
County Summary:	Redondo Beach (3311874) Los Angeles				
County Summary: Lat/Long:	, , , , , , , , , , , , , , , , , , ,		Accuracy	80 meters	
	Los Angeles)	Accuracy: Elevation		
Lat/Long:	Los Angeles 33.76637 / -118.39238)	•		
Lat/Long: UTM:	Los Angeles 33.76637 / -118.39238 Zone-11 N3737122 E371060		Elevation Acres:	(ft): 940 0.0	
Lat/Long: UTM: PLSS:	Los Angeles 33.76637 / -118.39238 Zone-11 N3737122 E371060 T05S, R14W, Sec. 07 (S) FRED HESSE PARK, WEST	OF HAWTHORNE BLVD /	Elevation Acres: AT LOCHLEMA LANE, RAN AINS UNDEVELOPED AND	(ft): 940 0.0 NCHO PALOS VERDES. D SOME IS DESIGNATED A NATI	VE
Lat/Long: UTM: PLSS: Location:	Los Angeles 33.76637 / -118.39238 Zone-11 N3737122 E371060 T05S, R14W, Sec. 07 (S) FRED HESSE PARK, WEST ABOUT 15 ACRES AT THE	OF HAWTHORNE BLVD / WEST END OF SITE REM REA BY THE CITY; REMAIN	Elevation Acres: AT LOCHLEMA LANE, RAN AINS UNDEVELOPED ANN NDER IS DISKED ANNUAL	(ft): 940 0.0 NCHO PALOS VERDES. D SOME IS DESIGNATED A NATI	VE
Lat/Long: UTM: PLSS: Location: Detailed Location:	Los Angeles 33.76637 / -118.39238 Zone-11 N3737122 E371060 T05S, R14W, Sec. 07 (S) FRED HESSE PARK, WEST ABOUT 15 ACRES AT THE PLANT/NATURE STUDY AR NO ASTRAGALUS SEEN HE DESIGNATED CRITICAL HA	OF HAWTHORNE BLVD / WEST END OF SITE REM. REA BY THE CITY; REMAII ERE 1983 THROUGH 1988 ABITAT IS 1980. RESTORA	Elevation Acres: AT LOCHLEMA LANE, RAN AINS UNDEVELOPED ANN NDER IS DISKED ANNUAL ATION OF NATURAL AREA	(ft): 940 0.0 NCHO PALOS VERDES. D SOME IS DESIGNATED A NATI	ND



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Occurrence No.	3	Map Index: 01665	EO Index:	23025		Element Last Seen:	1979-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1988-XX-XX
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	2000-01-03
Quad Summary:	Redondo Be	ach (3311874)				-	
County Summary:	Los Angeles	()					
Lat/Long:	33.76586 / -				Accuracy:	80 meters	
UTM:		737080 E370038			Elevation (ft):	400	
PLSS:		/, Sec. 12 (S)			Acres:	400 0.0	
	-						
Location:	AGUA AMA	RGA CANYON, 0.4 KM UP (CANYON; RAN	CHO PALOS V	ERDES/PALOS V	ERDES ESTATES.	
Detailed Location:							
Ecological:	WEED MAN 1981 THRO		OR SUCCESSF	FUL REINTRO	DUCTION OF FOO	DDPLANT. NO ASTRAGALUS	S SEEN HERE
General:	DIRECT HU					STRAGALUS TO GO EXTIN E WITH NO DEVELOPMENT	
Owner/Manager:	PVT-RANCH	O PALOS VERDES					
Occurrence No.	4	Map Index: 01861	EO Index:	23024		Element Last Seen:	1983-XX-XX
Occurrence No. Occ. Rank:	4 None	Map Index: 01861	EO Index: Presence:	23024 Possibly Exti	rpated	Element Last Seen: Site Last Seen:	1983-XX-XX 1988-XX-XX
	None	Map Index: 01861			rpated		
Occ. Rank:	None	ve occurrence	Presence:	Possibly Exti	rpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type:	None Natural/Nativ	ve occurrence 3311863)	Presence:	Possibly Exti	rpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary:	None Natural/Nativ San Pedro (;	ve occurrence 3311863)	Presence:	Possibly Exti	rpated Accuracy:	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary:	None Natural/Nativ San Pedro (3 Los Angeles 33.72993 / -	ve occurrence 3311863)	Presence:	Possibly Exti		Site Last Seen: Record Last Updated:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	None Natural/Nativ San Pedro (3 Los Angeles 33.72993 / - Zone-11 N37	ve occurrence 3311863) 118.33055	Presence:	Possibly Exti	Accuracy:	Site Last Seen: Record Last Updated: non-specific area	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	None Natural/Nativ San Pedro (3 Los Angeles 33.72993 / - Zone-11 N37 T05S, R14W SWITCHBA0	ve occurrence 3311863) 118.33055 733006 E376734 /, Sec. 22, NE (S)	Presence: Trend:	Possibly Exti Unknown	Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: non-specific area 640	1988-XX-XX 2011-10-21
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	None Natural/Nativ San Pedro (3 Los Angeles 33.72993 / - Zone-11 N37 T05S, R14W SWITCHBAG RANCHO P/	ve occurrence 3311863) 118.33055 733006 E376734 /, Sec. 22, NE (S) CK AREA PALOS VERDES ALOS VERDES. NS AS ABOVE, ONE IS THE	Presence: Trend: DR E; VISTA D	Possibly Exti Unknown	Accuracy: Elevation (ft): Acres: EAR JCT W/ PALC	Site Last Seen: Record Last Updated: non-specific area 640 183.6	1988-XX-XX 2011-10-21
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	None Natural/Nativ San Pedro (3 Los Angeles 33.72993 / - Zone-11 N37 T05S, R14W SWITCHBAG RANCHO P/ 3 LOCATION FOR THE BI 39 ASTRAG	ve occurrence 3311863) 118.33055 733006 E376734 /, Sec. 22, NE (S) CK AREA PALOS VERDES ALOS VERDES. NS AS ABOVE, ONE IS THE UTTERFLY.	Presence: Trend: DR E; VISTA D E LARGEST CC	Possibly Exti Unknown PEL MAR RD NI	Accuracy: Elevation (ft): Acres: EAR JCT W/ PALC ABITAT, AS WELL	Site Last Seen: Record Last Updated: non-specific area 640 183.6 DS VERDES DR E; FRIENDS	1988-XX-XX 2011-10-21 SHIP PARK, L HABITAT,
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	None Natural/Nativ San Pedro (3 Los Angeles 33.72993 / - Zone-11 N37 T05S, R14W SWITCHBAG RANCHO P/ 3 LOCATION FOR THE BI 39 ASTRAG ASTRAGALI SITE NEEDS	ve occurrence 3311863) 118.33055 733006 E376734 /, Sec. 22, NE (S) CK AREA PALOS VERDES ALOS VERDES. NS AS ABOVE, ONE IS THE UTTERFLY. ALUS PLANTS OBSERVED US POPULATION. S EXTENSIVE REHABILITA	Presence: Trend: DR E; VISTA D E LARGEST CC D HERE IN 1986 TION & A FIRE	Possibly Exti Unknown PEL MAR RD NI DNTIGUOUS H/ 6, WHICH REPI	Accuracy: Elevation (ft): Acres: EAR JCT W/ PALC ABITAT, AS WELL RESENTS 50% O	Site Last Seen: Record Last Updated: non-specific area 640 183.6 DS VERDES DR E; FRIENDS AS DESIGNATED CRITICA	1988-XX-XX 2011-10-21 SHIP PARK, L HABITAT, IINSULA NG. GOOD



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Occurrence No.	5	Map Index: 01725	EO Index:	23023	Element Last Seen:	1986-05-XX
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1986-05-XX
Occ. Type:		ive occurrence	Trend:	Unknown	Record Last Updated:	2000-01-03
Quad Summary:	Redondo Be	each (3311874)				
County Summary:	Los Angeles	S				
Lat/Long:	33.74695 / -	-118.38314		Accuracy:	1/5 mile	
UTM:	Zone-11 N3	734957 E371887		Elevation (ft):	400	
PLSS:	T05S, R14V	V, Sec. 18 (S)		Acres:	0.0	
Location:	ALONG TR	AILS WEST OF PORTUGU	ESE BEND RIDI	NG CLUB; RANCHO PALOS VE	RDES.	
Detailed Location:						
Ecological:	THE HOST		ROWS HERE, BI	JT PALOS VERDES BLUE HAS	NOT BEEN OBSERVED SIN	CE THE SITE
General:		EIVES RECREATIONAL US . GOOD AREA FOR POSSI		ENTUALLY BE DEVELOPED, I UCTION EFFORTS.	BUT IS CURRENTLY NOT HE	EAVILY
Owner/Manager:	PVT-FILIOR	RUM CORP				
Occurrence No.	6	Map Index: 01753	EO Index:	23022	Element Last Seen:	1982-XX-XX
Occurrence No. Occ. Rank:	6 None	Map Index: 01753	EO Index: Presence:	23022 Possibly Extirpated	Element Last Seen: Site Last Seen:	1982-XX-XX 1988-XX-XX
	None	Map Index: 01753				
Occ. Rank:	None Natural/Nati		Presence: Trend:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type:	None Natural/Nati	ive occurrence 311873), Redondo Beach (3	Presence: Trend:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary:	None Natural/Nati Torrance (3	ive occurrence 311873), Redondo Beach (3 s	Presence: Trend:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary:	None Natural/Nati Torrance (3: Los Angeles 33.75918 / -	ive occurrence 311873), Redondo Beach (3 s	Presence: Trend:	Possibly Extirpated Unknown	Site Last Seen: Record Last Updated:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	None Natural/Nati Torrance (3: Los Angeles 33.75918 / - Zone-11 N3	ive occurrence 311873), Redondo Beach (3 s -118.37369	Presence: Trend:	Possibly Extirpated Unknown Accuracy:	Site Last Seen: Record Last Updated: 1/5 mile	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	None Natural/Nati Torrance (33 Los Angeles 33.75918 / - Zone-11 N3 T05S, R14V	ive occurrence 311873), Redondo Beach (3 5 118.37369 1736302 E372781 V, Sec. 08 (S)	Presence: Trend: 3311874)	Possibly Extirpated Unknown Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: 1/5 mile 1200 0.0	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	None Natural/Nati Torrance (33 Los Angeles 33.75918 / - Zone-11 N3 T05S, R14V	ive occurrence 311873), Redondo Beach (3 5 118.37369 1736302 E372781 V, Sec. 08 (S)	Presence: Trend: 3311874)	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 1200 0.0	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	None Natural/Nati Torrance (33 Los Angeles 33.75918 / - Zone-11 N3 T05S, R14V	ive occurrence 311873), Redondo Beach (3 5 118.37369 1736302 E372781 V, Sec. 08 (S)	Presence: Trend: 3311874)	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 1200 0.0	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	None Natural/Nati Torrance (33 Los Angeles 33.75918 / - Zone-11 N3 T05S, R14V NEAR INTE SITE DISCO SURVIVED	ve occurrence 311873), Redondo Beach (3 5 -118.37369 -736302 E372781 V, Sec. 08 (S) :RSECTION OF SEACREST	Presence: Trend: 3311874) T DRIVE, CRENS G DESTROYED ATER GRADING	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 1200 0.0 RANCHO PALOS VERDES.	1988-XX-XX 2000-01-05



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Occurrence No.	8 Map Index: 01771	EO Index:	23020	Element Last Seen:	1981-XX-XX
Occ. Rank:	None	Presence:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2000-01-05
Quad Summary:	Torrance (3311873)				
County Summary:	Los Angeles				
Lat/Long:	33.75584 / -118.36563		Accuracy:	1/5 mile	
UTM:	Zone-11 N3735922 E373522		Elevation (ft):	1000	
PLSS:	T05S, R14W, Sec. 08 (S)		Acres:	0.0	
Location:	ALONG OLD CRENSHAW BLVD BTW	N ALTAMIRA &	PORTUGUESE CYNS, APPROX	0.5 MI N NARCISSA DR.	
Detailed Location:					
Ecological:					
General:	SITE DISCOVERED IN 1981; ALL LIFE REDUCED NUMBERS. SITE MAY BE V YET DEVELOPED; SOME REC USE.				
Owner/Manager:	PVT-FILIORUM CORP				
Occurrence No.	9 Map Index: 01822	EO Index:	23019	Element Last Seen:	1982-XX-XX
Occurrence No. Occ. Rank:	9 Map Index: 01822 None	EO Index: Presence:	23019 Possibly Extirpated	Element Last Seen: Site Last Seen:	1982-XX-XX 1988-XX-XX
	· · · · · · · · · · · · · · · · · · ·				
Occ. Rank:	None	Presence:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type:	None Natural/Native occurrence	Presence:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary:	None Natural/Native occurrence San Pedro (3311863)	Presence:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary:	None Natural/Native occurrence San Pedro (3311863) Los Angeles	Presence:	Possibly Extirpated Unknown	Site Last Seen: Record Last Updated:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	None Natural/Native occurrence San Pedro (3311863) Los Angeles 33.73973 / -118.34757	Presence:	Possibly Extirpated Unknown Accuracy:	Site Last Seen: Record Last Updated: 1/5 mile	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	None Natural/Native occurrence San Pedro (3311863) Los Angeles 33.73973 / -118.34757 Zone-11 N3734114 E375171	Presence: Trend:	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 600 0.0	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	None Natural/Native occurrence San Pedro (3311863) Los Angeles 33.73973 / -118.34757 Zone-11 N3734114 E375171 T05S, R14W, Sec. 16 (S)	Presence: Trend:	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 600 0.0	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	None Natural/Native occurrence San Pedro (3311863) Los Angeles 33.73973 / -118.34757 Zone-11 N3734114 E375171 T05S, R14W, Sec. 16 (S)	Presence: Trend:	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 600 0.0	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	None Natural/Native occurrence San Pedro (3311863) Los Angeles 33.73973 / -118.34757 Zone-11 N3734114 E375171 T05S, R14W, Sec. 16 (S)	Presence: Trend: W OF FORRES	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: STAL-PVT DR INTERSECTION, E	Site Last Seen: Record Last Updated: 1/5 mile 600 0.0 E OF KLONDIKE CYN.	1988-XX-XX 2000-01-05



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Occurrence No.	10 Map Index:		23017	Element Last Seen:	1983-XX-XX
Occ. Rank:	None	Presence:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2000-01-04
Quad Summary:	San Pedro (3311863)				
County Summary:	Los Angeles				
Lat/Long:	33.73182 / -118.34123		Accuracy:	non-specific area	
UTM:	Zone-11 N3733229 E375747	7	Elevation (ft):	500	
PLSS:	T05S, R14W, Sec. 22 (S)		Acres:	158.6	
Location:	GULFCREST-HEROIC DR	AREA; ALONG TRAIL ON H	IILLSIDE BEYOND END OF GU	LFCREST DR NEAR HEROIO	DR.
Detailed Location:	PALO VISTA DRIVE, SEA C WITH 25TH ST.		IT ON NORTH SIDE OF ROAD	APPROX 1500 FT WEST OF	JUNCTION
Ecological:					
General:		OBS IN 1983. ENTIRE SIT	S LARGEST KNOWN STAND O E DISKED IN 1984; NO PVBB O		
Owner/Manager:	PVT				
Occurrence No.	16 Map Index:	01823 EO Index:	23009	Element Last Seen:	1981-XX-XX
Occurrence No. Occ. Rank:	16 Map Index: None	01823 EO Index: Presence:	23009 Possibly Extirpated	Element Last Seen: Site Last Seen:	1981-XX-XX 1988-XX-XX
Occ. Rank:	None	Presence: Trend:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type:	None Natural/Native occurrence	Presence: Trend:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary:	None Natural/Native occurrence San Pedro (3311863), Torra	Presence: Trend:	Possibly Extirpated	Site Last Seen:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary:	None Natural/Native occurrence San Pedro (3311863), Torra Los Angeles	Presence: Trend: ance (3311873)	Possibly Extirpated Unknown	Site Last Seen: Record Last Updated:	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	None Natural/Native occurrence San Pedro (3311863), Torra Los Angeles 33.75028 / -118.34730	Presence: Trend: ance (3311873)	Possibly Extirpated Unknown Accuracy:	Site Last Seen: Record Last Updated: 1/5 mile	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	None Natural/Native occurrence San Pedro (3311863), Torra Los Angeles 33.75028 / -118.34730 Zone-11 N3735283 E375212 T05S, R14W, Sec. 16 (S)	Presence: Trend: ance (3311873)	Possibly Extirpated Unknown Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: 1/5 mile 1200 0.0	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	None Natural/Native occurrence San Pedro (3311863), Torra Los Angeles 33.75028 / -118.34730 Zone-11 N3735283 E375212 T05S, R14W, Sec. 16 (S)	Presence: Trend: ance (3311873)	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 1200 0.0	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	None Natural/Native occurrence San Pedro (3311863), Torra Los Angeles 33.75028 / -118.34730 Zone-11 N3735283 E375212 T05S, R14W, Sec. 16 (S)	Presence: Trend: ance (3311873)	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 1200 0.0	1988-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	None Natural/Native occurrence San Pedro (3311863), Torra Los Angeles 33.75028 / -118.34730 Zone-11 N3735283 E375212 T05S, R14W, Sec. 16 (S) TOP OF SAN PEDRO HILL, PVBB AND ASTRAGALUS I	Presence: Trend: ance (3311873) 2 , BOUNDED BY CREST RD	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1/5 mile 1200 0.0 DES.	1988-XX-XX 2000-01-05 5 PLANTS) BY



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* SENSITIVE *						
Occurrence No.	18	Map Index: 25610	EO Index:	5484	Element Last Seen:	2001-04-27
Occ. Rank:	Excellent		Presence:	Presumed Extant	Site Last Seen:	2001-04-27
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Fluctuating	Record Last Updated	2007-09-28
Quad Summary:	Torrance (3311873)				
County Summary:	Los Angele	es				
Lat/Long:				Accuracy:	specific area	
UTM:				Elevation (ft): 100	
PLSS:				Acres:	114.0	
Location:	*SENSITIV	'E* LOCATION INFORMAT	ION SUPPRESS	ED.		
Detailed Location:		ONTACT THE CALIFORNIA E INFORMATION: (916) 322		ERSITY DATABASE, CALIFO	RNIA DEPARTMENT OF FISH	AND WILDLIFE,
Ecological:	HABITAT (. ,	OASTAL SAGE	SCRUB; BUTTERFLIES FEE	D ON DEERWEED AND MILK	VETCH.
General:						
Owner/Manager:						
Occurrence No.	19	Map Index: B7047	EO Index:	65114	Element Last Seen:	2001-03-XX
Occ. Rank:	Unknown	·	Presence:	Presumed Extant	Site Last Seen:	2001-03-XX
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown	Record Last Updated	: 2021-02-25
Quad Summary:	Redondo E	Beach (3311874)				
County Summary:	Los Angele	es				
Lat/Long:	33.8001 / -	118.38096		Accuracy:	1/5 mile	
UTM:	Zone-11 N	3740849 E372168		Elevation (ft): 348	
PLSS:	T04S, R14	W, Sec. 29, NW (S)		Acres:	70.0	
Location:	MALAGA [DUNES.				
Detailed Location:						
Ecological:	FORMATIC		L BLUFFS EXTE	NDING ALONG TORRANCE	CT FROM THE BLOW SAND D BEACH TO THE N OF THE M	
General:	SPECIES I TERMINAT	DISCOVERD IN 2001 BY BF	RAD RICHARDS.	SPECIES ALSO NOTED DU	RING SURVEY FOR RHAPHIC DUALS IN THIS POPULATION	
Owner/Manager:	UNKNOW					
Danaus plexip	ous pop. 1				Element Code: IILE	PP2012
monarch - Califor		ring population				
Listing Status:	Federal:	None		CNDDB Element F	Ranks: Global: G4T2T3	
	State:	None			State: S2S3	
	Other:	USFS_S-Sensitive				
			VTEND ALONIO			
Habitat:	General:	WINTER ROOST SITES E MEXICO.	XTEND ALONG	THE COAST FROM NORTH	ERN MENDOCINO TO BAJA C	ALIFORNIA,



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Occurrence No.	218	Map Index: 17190	EO Index:	12042	Element Last Seen:	1998-11-08
Occ. Rank:	Fair		Presence:	Presumed Extant	Site Last Seen:	2000-12-07
Осс. Туре:	Natural/Nat	ive occurrence	Trend:	Unknown	Record Last Updated:	2015-11-17
Quad Summary:	Long Beach	n (3311872)				
County Summary:	Los Angele	S				
Lat/Long:	33.83102 /	-118.13229		Accuracy:	80 meters	
UTM:	Zone-11 N3	3743996 E395225		Elevation (ft):	38	
PLSS:	T04S, R12V	<i>N</i> , Sec. 15, NW (S)		Acres:	0.0	
Location:	HEARTWE	LL PARK, JUST SE OF THE	INTERSECTIO	N OF CARSON STREET AND C	LARK AVENUE, LONG BEAC	CH.
Detailed Location:	XERCES S	ITE #2875. LOCATED JUST	SOUTH OF TH	E RESTROOMS IN HEARTWEL	L PARK.	
Ecological:	PREVIOUS			F INTRODUCED PINES, MANIC ;; IN 1989, MONARCHS PERSIS		
General:		REPORTEDLY OBSERVED 95. 25 IN NOV 1997. 100 OB		1987. 200+ OBSERVED ON 23 D OBS 7 DEC 2000.	DEC 1989. NONE OBS 15 NO	V 1992. 1 ON
Owner/Manager:	CITY OF LO	ONG BEACH				
Occurrence No.	296	Map Index: 33185	EO Index:	2746	Element Last Seen:	2014-11-XX
Occurrence No. Occ. Rank:	296 Good	Map Index: 33185	EO Index: Presence:	2746 Presumed Extant	Element Last Seen: Site Last Seen:	2014-11-XX 2014-11-XX
	Good	Map Index: 33185				
Occ. Rank:	Good	ive occurrence	Presence:	Presumed Extant	Site Last Seen:	2014-11-XX
Occ. Rank: Occ. Type:	Good Natural/Nat	ive occurrence 11884)	Presence:	Presumed Extant	Site Last Seen:	2014-11-XX
Occ. Rank: Occ. Type: Quad Summary:	Good Natural/Nat Venice (331	ive occurrence 11884) s	Presence:	Presumed Extant	Site Last Seen:	2014-11-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary:	Good Natural/Nat Venice (331 Los Angele 33.96355 / -	ive occurrence 11884) s	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	2014-11-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	Good Natural/Nat Venice (331 Los Angeles 33.96355 / J Zone-11 N3	ive occurrence 11884) s -118.44085	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: 80 meters	2014-11-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Good Natural/Nat Venice (331 Los Angeles 33.96355 / 2 Zone-11 N3 T02S, R15V BALLONA	ive occurrence 11884) s -118.44085 3759049 E366878 <i>N</i> , Sec. 27, S (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: 80 meters 15 0.0	2014-11-XX 2015-12-14
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Good Natural/Nat Venice (331 Los Angeles 33.96355 / 2 Zone-11 N3 T02S, R15V BALLONA	ive occurrence 11884) s -118.44085 8759049 E366878 <i>N</i> , Sec. 27, S (S) WETLANDS ER, AT THE N E S ANGELES.	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 80 meters 15 0.0	2014-11-XX 2015-12-14
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Good Natural/Nat Venice (331 Los Angele: 33.96355 / - Zone-11 N3 T02S, R15V BALLONA V BLVD, LOS XERCES S ROOST TR	ive occurrence 11884) s -118.44085 3759049 E366878 <i>N</i> , Sec. 27, S (S) WETLANDS ER, AT THE N E ANGELES. ITE #2879. EES CONSIST OF A SMALL	Presence: Trend: END OF FALMC	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 80 meters 15 0.0 7 OF CULVER BLVD AT W JE GE OF THE WETLAND. BLUF	2014-11-XX 2015-12-14 EFFERSON
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Good Natural/Nat Venice (331 Los Angele: 33.96355 / 2 Zone-11 N3 T02S, R15V BALLONA V BLVD, LOS XERCES S ROOST TR MILKWEED 10S OBSEF	ive occurrence 11884) s -118.44085 3759049 E366878 <i>N</i> , Sec. 27, S (S) WETLANDS ER, AT THE N E ANGELES. ITE #2879. EES CONSIST OF A SMALL D MAY BE A BREEDING SITE RVED, 1980-82. UP TO 500 (S 7 DEC 2000. 90 OBS 30 N	Presence: Trend: END OF FALMO , DENSE EUCA (1991). FIRST DBS, NOV 1985	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: DUTH AVE, ABOUT 0.25 MI SSW	Site Last Seen: Record Last Updated: 80 meters 15 0.0 VOF CULVER BLVD AT W JE GE OF THE WETLAND. BLUF S AT THIS SITE DATE FROM 0 OBS, 1990-91. 1000-1,150	2014-11-XX 2015-12-14 EFFERSON FF WITH 1936-1940. OBS DEC



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Occurrence No.	297	Map Index: 33186	EO Index:	2683		Element Last Seen:	2000-12-07
Occ. Rank:	Good		Presence:	Presumed Ext	ant	Site Last Seen:	2014-11-XX
Осс. Туре:	Natural/Nati	ive occurrence	Trend:	Decreasing		Record Last Updated:	2015-10-14
Quad Summary:	Redondo Be	each (3311874)					
County Summary:	Los Angeles	8					
Lat/Long:	33.80337 / -	·118.38474			Accuracy:	non-specific area	
UTM:	Zone-11 N3	741216 E371822		I	Elevation (ft):	300	
PLSS:	T04S, R14V	V, Sec. 30 (S)			Acres:	87.0	
Location:	VIA LA SEL ESTATES.	VA, FROM ITS WEST END	NEAR PALOS \	VERDES BLVD 1	TO THE VIA PAS	CUAL INTERSECTION, PAL	OS VERDES
Detailed Location:		D #2817 VIA LA SELVA (XER				A LA SELVA & VIA CAPAY () ALL SITE, #2880 BASED ON	
Ecological:	FROM YEA					OF THE STREET; ROOST SI IMBER OF FLYERS INDICAT	
General:		OF LARGE CLUSTERS IN 1 50/2000, 10/2001. 3/2003, 0/				JAN 1986. AT VIA CAPAY: 3 2003, 0/2014.	K/1985,
Owner/Manager:	PVT						
Occurrence No.	298	Map Index: 33187	EO Index:	2682		Element Last Seen:	2003-11-XX
Occ. Rank:	Unknown		Presence:	Presumed Exta	ant	Site Last Seen:	2014-11-XX
Осс. Туре:	Natural/Nati	ive occurrence	Trend:	Unknown		Record Last Updated:	2015-10-07
Quad Summary:	Torrance (3	311873)					
County Summary:	Los Angeles	6					
Lat/Long:	33.82964 / -	-118.37414			Accuracy:	specific area	
UTM:	Zone-11 N3	744116 E372843		l	Elevation (ft):	100	
PLSS:	T04S, R14V	V, Sec. 17 (S)			Acres:	10.5	
Location:	WILDERNE	SS PARK, NORTH OF SEPI	JLVEDA BLVD,	, 0.5 MILE WEST	FOF PALOS VER	RDES BLVD, REDONDO BEA	ACH.
Detailed Location:	XERCES S	ITE #2881.					
Ecological:	ROOST TR	EES ARE EUCALYPTUS.					
Ecological.	ROOOT IR	LES ARE LOCALITIOS.					
General:	CLUSTERS		,		·	OBS 7 DEC 2000. 35 OBS 3 NTS.	0 NOV 2001.



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Occurrence No.	338	Map Index: 47887	EO Index:	47887	Element Last Seen:	1985-01-23
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1985-01-23
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown	Record Last Updated:	2015-11-17
Quad Summary:	San Pedro (3311863)				
County Summary:	Los Angeles	3				
Lat/Long:	33.70661 / -	118.29434		Accuracy:	non-specific area	
UTM:	Zone-11 N3	730378 E380057		Elevation (ft)	100	
PLSS:	T05S, R14W	V, Sec. 25, SE (S)		Acres:	16.1	
Location:	POINT FER		I SIDE OF PAS	EO DEL MAR AT GAFFEY S	, AT THE SOUTHERN TIP OF	THE PALOS
Detailed Location:	XERCES SI	TE #2885.				
Ecological:	HABITAT CO PLAYGROU		ALYPTUS TRE	EES. 1984: ROOSTS IN EUC	ALYPTUS TREES WITHIN CITY	PARK, NEAR
General:				0S-1980S. LOW 1000S OBS HEN TREES WERE REMOVE	28 DEC 1984. CLUSTERS OBS D SOMETIME AFTER 1985.	23 JAN 1985,
Owner/Manager:	DHS-COAS	T GUARD, UNKNOWN				
Occurrence No.	339	Map Index: 47888	EO Index:	47888	Element Last Seen:	197X-12-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	197X-12-XX
Occ. Type:			Turnel			
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown	Record Last Updated:	2015-10-30
Quad Summary:	Natural/Nativ Venice (331		Trena:	Unknown	Record Last Updated:	2015-10-30
		1884)	Trend:	UNKNOWN	Record Last Updated:	2015-10-30
Quad Summary:	Venice (331	1884)	Trena:	Accuracy:	Record Last Updated: non-specific area	2015-10-30
Quad Summary: County Summary:	Venice (331 Los Angeles 33.92112 / -	1884)	Trena:		non-specific area	2015-10-30
Quad Summary: County Summary: Lat/Long:	Venice (331 Los Angeles 33.92112 / - Zone-11 N3	1884) 5 118.41194	Trena:	Accuracy:	non-specific area	2015-10-30
Quad Summary: County Summary: Lat/Long: UTM:	Venice (331 Los Angeles 33.92112 / - Zone-11 N3 T03S, R15W	1884) 5 118.41194 754307 E369484 V, Sec. 12, SW (S)		Accuracy: Elevation (ft)	non-specific area 100 20.0	2015-10-30
Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Venice (331 Los Angeles 33.92112 / - Zone-11 N3 T03S, R15W RECREATIO XERCES SI	1884) 5 118.41194 754307 E369484 V, Sec. 12, SW (S) DN PARK, AT THE SE CORM	NER OF PINE A	Accuracy: Elevation (ft) Acres: AVE AND EUCALYPTUS DRIV SEGUNDO PARK;" THERE'S	non-specific area 100 20.0	
Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Venice (331 Los Angeles 33.92112 / - Zone-11 N3 T03S, R15W RECREATIO XERCES SI THE LINE, S	1884) 5 118.41194 754307 E369484 V, Sec. 12, SW (S) DN PARK, AT THE SE CORN TE #2886. 1985 REPORT RE	NER OF PINE A EFERS TO "EL IP ABOUT WHI	Accuracy: Elevation (ft) Acres: AVE AND EUCALYPTUS DRIV SEGUNDO PARK;" THERE'S CH PARK WAS MEANT.	non-specific area : 100 20.0 /E, EL SEGUNDO.	
Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Venice (331 Los Angeles 33.92112 / - Zone-11 N3 T03S, R15W RECREATIO XERCES SI THE LINE, S AUTUMNAL 100S OBSE	1884) 3 118.41194 754307 E369484 V, Sec. 12, SW (S) DN PARK, AT THE SE CORN TE #2886. 1985 REPORT RE SURVEYORS GOT MIXED U . ROOST SITE IN EUCALYP	NER OF PINE A EFERS TO "EL P ABOUT WHI TUS, OLIVE AN	Accuracy: Elevation (ft) Acres: AVE AND EUCALYPTUS DRIN SEGUNDO PARK;" THERE'S CH PARK WAS MEANT. ND PINE TREES.	non-specific area : 100 20.0 /E, EL SEGUNDO.	RE ALONG



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Occurrence No.	382	Map Index: 97751	EO Index:	99118	Element Last Seen:	2015-01-21
Occ. Rank:	Fair		Presence:	Presumed Extant	Site Last Seen:	2015-01-21
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown	Record Last Updated:	2015-10-28
Quad Summary:	Venice (331	1884)				
County Summary:	Los Angeles					
Lat/Long:	33.98547 / -⁄	118.45210		Accuracy:	1/10 mile	
JTM:	Zone-11 N37	761495 E365873		Elevation (ft):	15	
PLSS:	T02S, R15W	/, Sec. 21, NE (S)		Acres:	0.0	
_ocation:	NORTH SID	E OF ADMIRALTY WAY B	ETWEEN MARIN	A CITY DRIVE AND VIA REGAT	ITA, MARINA DEL REY.	
Detailed Location:	MAPPED TO	O GIVEN COORDINATES.				
Ecological:		EES WERE EUCALYPTUS N PARK. SEVERAL LARGE		JLAR BIKE PATH, ADJACENT T PRESENT.	O A MANAGED FLOOD DET	ENTION BAS
General:	48 OBSERV	ED ON 31 DEC 2014. 15-2	0 OBSERVED R	OOSTING AND FORAGING IN	THE VICINITY ON 21 JAN 20	15.
Owner/Manager:	UNKNOWN					
Occurrence No.	383	Map Index: 97758	EO Index:	99136	Element Last Seen:	2014-11-XX
Dcc. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	2014-11-XX
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown	Record Last Updated:	2015-10-07
Quad Summary:	Venice (331	1884)				
County Summary:	Los Angeles	- -				
_at/Long:	33.91540 / -′	118.40050		Accuracy:	1/10 mile	
JTM:	Zone-11 N37	753659 E370533		Elevation (ft):	100	
		753659 E370533 /, Sec. 13, NE (S)		Elevation (ft): Acres:	100 0.0	
PLSS:	T03S, R15W	/, Sec. 13, NE (S)	OUTH SIDE OF		0.0).
PLSS: _ocation:	T03S, R15W	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S		Acres:	0.0 S STREET IN EL SEGUNDO).
PLSS: Location: Detailed Location:	T03S, R15W	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S		Acres: EL SEGUNDO BLVD AT KANSA	0.0 S STREET IN EL SEGUNDO).
PLSS: Location: Detailed Location: Ecological:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 (XERCES SITE	Acres: EL SEGUNDO BLVD AT KANSA	0.0 S STREET IN EL SEGUNDO SHAPEFILE.).
PLSS: Location: Detailed Location: Ecological: General:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 (/ING COUNTS.	XERCES SITE	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED	0.0 S STREET IN EL SEGUNDO SHAPEFILE.).
PLSS: Location: Detailed Location: Ecological: General:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 (/ING COUNTS.	XERCES SITE	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED	0.0 S STREET IN EL SEGUNDO SHAPEFILE.).
PLSS: Location: Detailed Location: Ecological: General: Dwner/Manager: Doccurrence No.	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 (/ING COUNTS.	XERCES SITE	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED	0.0 S STREET IN EL SEGUNDO SHAPEFILE.	
PLSS: .ocation: Detailed Location: Ecological: General: Dwner/Manager: Doccurrence No. Docc. Rank:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 C /ING COUNTS. RON Map Index: 97762	XERCES SITE ON 7 DEC 2000. EO Index: Presence:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141 Presumed Extant	0.0 IS STREET IN EL SEGUNDO SHAPEFILE. I3 AND 30 IN 2014 DURING Element Last Seen: Site Last Seen:	2008-11-XX 2014-11-XX
PLSS: Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 (/ING COUNTS. RON	XERCES SITE : DN 7 DEC 2000. EO Index:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141	0.0 S STREET IN EL SEGUNDO SHAPEFILE. 3 AND 30 IN 2014 DURING Element Last Seen:	2008-11-XX 2014-11-XX
PLSS: Docation: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 C /ING COUNTS. RON Map Index: 97762 ve occurrence	XERCES SITE ON 7 DEC 2000. EO Index: Presence:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141 Presumed Extant	0.0 IS STREET IN EL SEGUNDO SHAPEFILE. I3 AND 30 IN 2014 DURING Element Last Seen: Site Last Seen:	2008-11-XX 2014-11-XX
PLSS: Docation: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown Natural/Nativ	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 C /ING COUNTS. RON Map Index: 97762 ve occurrence 311873)	XERCES SITE ON 7 DEC 2000. EO Index: Presence:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141 Presumed Extant	0.0 IS STREET IN EL SEGUNDO SHAPEFILE. I3 AND 30 IN 2014 DURING Element Last Seen: Site Last Seen:	2008-11-X> 2014-11-X>
PLSS: Docation: Detailed Location: Ecological: General: Dwner/Manager: Doccurrence No. Docc. Rank: Docc. Type: Quad Summary: County Summary:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown Natural/Nativ Torrance (33	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 C /ING COUNTS. RON Map Index: 97762 ve occurrence	XERCES SITE ON 7 DEC 2000. EO Index: Presence:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141 Presumed Extant	0.0 IS STREET IN EL SEGUNDO SHAPEFILE. I3 AND 30 IN 2014 DURING Element Last Seen: Site Last Seen:	2008-11-XX 2014-11-XX
PLSS: Docation: Detailed Location: Ecological: General: Dwner/Manager: Doccurrence No. Docc. Rank: Docc. Rank: Docc. Type: Quad Summary: County Summary: Lat/Long:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown Natural/Nativ Torrance (33 Los Angeles 33.79032 / -	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 C /ING COUNTS. RON Map Index: 97762 ve occurrence	XERCES SITE ON 7 DEC 2000. EO Index: Presence:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141 Presumed Extant Unknown	0.0 S STREET IN EL SEGUNDO SHAPEFILE. 3 AND 30 IN 2014 DURING Element Last Seen: Site Last Seen: Record Last Updated:	2008-11-XX 2014-11-XX
PLSS: Location: Detailed Location: Ecological: Beneral: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long: JTM:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown Natural/Nativ Torrance (33 Los Angeles 33.79032 / - Zone-11 N37	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 C /ING COUNTS. RON Map Index: 97762 ve occurrence 311873)	XERCES SITE ON 7 DEC 2000. EO Index: Presence:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141 Presumed Extant Unknown Accuracy:	0.0 S STREET IN EL SEGUNDO SHAPEFILE. 3 AND 30 IN 2014 DURING Element Last Seen: Site Last Seen: Record Last Updated: non-specific area	2008-11-X> 2014-11-X>
PLSS: Docation: Detailed Location: Ecological: General: Dwner/Manager: Doccurrence No. Docc. Rank: Docc. Type: Quad Summary: County Summary: Lat/Long: JTM: PLSS:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown Natural/Nativ Torrance (33 Los Angeles 33.79032 / - ² Zone-11 N37 T04S, R13W	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 C /ING COUNTS. RON Map Index: 97762 ve occurrence 311873) 5 118.25819 739619 E383519 /, Sec. 32, NE (S)	XERCES SITE ON 7 DEC 2000. EO Index: Presence: Trend:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141 Presumed Extant Unknown Accuracy: Elevation (ft):	0.0 S STREET IN EL SEGUNDO SHAPEFILE. 3 AND 30 IN 2014 DURING Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 40 27.0	2008-11-X> 2014-11-X>
PLSS: Location: Detailed Location: Ecological: General: Dwner/Manager: Doccurrence No. Docc. Rank: Docc. Type: Quad Summary: County Summary: Lat/Long: JTM: PLSS: Location:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown Natural/Nativ Torrance (33 Los Angeles 33.79032 / - ² Zone-11 N37 T04S, R13W	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 C /ING COUNTS. RON Map Index: 97762 // Map Index: 97762 // Map Index: 97762 // Map Index: 97762 // Map Index: 97762 // Sec. 32, NE (S) ARK, AT THE SOUTHWES	XERCES SITE ON 7 DEC 2000. EO Index: Presence: Trend:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	0.0 S STREET IN EL SEGUNDO SHAPEFILE. 3 AND 30 IN 2014 DURING Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 40 27.0	2008-11-X> 2014-11-X>
PLSS: Location: Detailed Location: Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long: JTM: PLSS: Location: Detailed Location:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown Natural/Nativ Torrance (33 Los Angeles 33.79032 / -7 Zone-11 N37 T04S, R13W BANNING P	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 C /ING COUNTS. RON Map Index: 97762 // Map Index: 97762 // Map Index: 97762 // Map Index: 97762 // Map Index: 97762 // Sec. 32, NE (S) ARK, AT THE SOUTHWES	XERCES SITE ON 7 DEC 2000. EO Index: Presence: Trend:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	0.0 S STREET IN EL SEGUNDO SHAPEFILE. 3 AND 30 IN 2014 DURING Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 40 27.0	2008-11-X> 2014-11-X>
UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General:	T03S, R15W CHEVRON E CHEVRON E 250 OBSER THANKSGIV PVT-CHEVR 384 Unknown Natural/Nativ Torrance (33 Los Angeles 33.79032 / - ² Zone-11 N37 T04S, R13W BANNING P XERCES SIT	/, Sec. 13, NE (S) EMPLOYEES PARK, ON S EL SUGUNDO REFINERY. VED ON 8 NOV 1998. 25 C /ING COUNTS. RON Map Index: 97762 // Map Index: 97762 // Sec. 32, NE (S) // Sec. 32, NE (S) // ARK, AT THE SOUTHWES TE #2887.	XERCES SITE ON 7 DEC 2000. EO Index: Presence: Trend:	Acres: EL SEGUNDO BLVD AT KANSA #2888, MAPPED TO PROVIDED 500 ON 30 NOV 2001. 10 IN 200 99141 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	0.0 S STREET IN EL SEGUNDO SHAPEFILE. 3 AND 30 IN 2014 DURING Element Last Seen: Site Last Seen: Record Last Updated: non-specific area 40 27.0 MINGTON.	2008-11-XX 2014-11-XX 2015-10-08



California Department of Fish and Wildlife



Occurrence No.	385	Map Index: 97766	EO Index:	99151	Element Last Seen:	2008-11-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	2014-11-XX
Occ. Type:	Natural/Nativ	ve occurrence	Trend:	Unknown	Record Last Updated:	2015-10-28
Quad Summary:	Long Beach	(3311872)				
County Summary:	Los Angeles	, ,				
Lat/Long:	33.77810 / -1	118.13400		Accuracy:	2/5 mile	
UTM:		738130 E395003		Elevation (f		
PLSS:	T05S, R12W	/, Sec. 04, NE (S)		Acres:	0.0	
Location:	RECREATIC	N PARK. BETWEEN E AN	AHEIM ST AND	6TH ST, HWY 1 AND PARK	AVE. LONG BEACH.	
Detailed Location:		TES #2890 ("RECREATION / OF PARK, EXACT ROOS			ON PARK (SOUTH)"). MAPPED	GENERALLY
Ecological:						
General:		E, COUNT/YEAR: 150/1997 1998, 20/2000, 3/2001, 3/2			08, 0/2014. SOUTH SITE, COUNT	YEAR:
Owner/Manager:	CITY OF LO	NG BEACH				
Occurrence No.	408	Map Index: 98295	EO Index:	99712	Element Last Seen:	1985-11-29
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1985-11-29
Осс. Туре:	Natural/Nativ	/e occurrence	Trend:	Unknown	Record Last Updated:	2015-11-25
Quad Summary:	Venice (3311	1884)				
County Summary:	Los Angeles	,				
Lat/Long:	33.95790 / -1	118.43290		Accuracy:	1/10 mile	
UTM:		758413 E367603		Elevation (f		
-		/, Sec. 34, NE (S)		Acres:	0.0	
PLSS: Location:	T02S, R15W	/, Sec. 34, NE (S)	SIDE OF GULA	Acres:		ET IN PLAYA
PLSS: Location:	T02S, R15W "CROSS CR DEL RAY.	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST		Acres:	0.0	
PLSS: Location: Detailed Location:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST	SIGN VISIBLE IN	Acres: NA STREET (91ST ST) JUS I 2015 GOOGLE STREET V	0.0 ST SOUTH OF REDLANDS STRE	
PLSS: Location: Detailed Location: Ecological:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA	SIGN VISIBLE IN APLES IN RESIE	Acres: NA STREET (91ST ST) JUS I 2015 GOOGLE STREET V	0.0 ST SOUTH OF REDLANDS STRE	
PLSS: Location: Detailed Location: Ecological: General:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA	SIGN VISIBLE IN APLES IN RESIE	Acres: NA STREET (91ST ST) JUS I 2015 GOOGLE STREET V PENTIAL AREA.	0.0 ST SOUTH OF REDLANDS STRE	
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA DBSERVED IN NOV 1985.	SIGN VISIBLE IN APLES IN RESIE SITE VIABILITY	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD	0.0 BT SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK.	EK VILLAGE.
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA	SIGN VISIBLE IN APLES IN RESIE SITE VIABILITY EO Index:	Acres: NA STREET (91ST ST) JUS 1 2015 GOOGLE STREET V DENTIAL AREA. UNKNOWN, NEEDS FIELD 99745	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen:	EK VILLAGE 1985-11-03
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409 Unknown	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA DBSERVED IN NOV 1985.	SIGN VISIBLE IN APLES IN RESIE SITE VIABILITY	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen: Site Last Seen:	EK VILLAGE 1985-11-03 1985-11-03
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409 Unknown Natural/Nativ	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA DBSERVED IN NOV 1985. Map Index: 98324 /e occurrence	SIGN VISIBLE IN APLES IN RESIE SITE VIABILITY EO Index: Presence:	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD 99745 Presumed Extant	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen:	EK VILLAGE 1985-11-03 1985-11-03
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409 Unknown	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA DBSERVED IN NOV 1985. Map Index: 98324 /e occurrence	SIGN VISIBLE IN APLES IN RESIE SITE VIABILITY EO Index: Presence:	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD 99745 Presumed Extant	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen: Site Last Seen:	EK VILLAGE. 1985-11-03 1985-11-03
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409 Unknown Natural/Nativ Torrance (33 Los Angeles	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA DBSERVED IN NOV 1985. Map Index: 98324 /e occurrence	SIGN VISIBLE IN APLES IN RESIE SITE VIABILITY EO Index: Presence:	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD 99745 Presumed Extant Unknown	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen: Site Last Seen: Record Last Updated:	EK VILLAGE. 1985-11-03 1985-11-03
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409 Unknown Natural/Nativ Torrance (33 Los Angeles 33.86475 / -1	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA DBSERVED IN NOV 1985. Map Index: 98324 // e occurrence 311873)	SIGN VISIBLE IN APLES IN RESIE SITE VIABILITY EO Index: Presence:	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD 99745 Presumed Extant Unknown Accuracy:	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen: Site Last Seen: Record Last Updated: non-specific area	EK VILLAGE 1985-11-03 1985-11-03
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409 Unknown Natural/Nativ Torrance (33 Los Angeles 33.86475 / -1 Zone-11 N37	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA DBSERVED IN NOV 1985. Map Index: 98324 // e occurrence 311873) 118.35808 747990 E374381	SIGN VISIBLE IN APLES IN RESIE SITE VIABILITY EO Index: Presence:	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD 99745 Presumed Extant Unknown	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen: Site Last Seen: Record Last Updated: non-specific area	
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409 Unknown Natural/Nativ Torrance (33 Los Angeles 33.86475 / -1 Zone-11 N37 T03S, R14W	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA DBSERVED IN NOV 1985. Map Index: 98324 // e occurrence 311873) 118.35808 //47990 E374381 /, Sec. 33, SW (S)	SIGN VISIBLE IN APLES IN RESID SITE VIABILITY EO Index: Presence: Trend:	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD 99745 Presumed Extant Unknown Accuracy: Elevation (fr Acres:	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen: Site Last Seen: Record Last Updated: non-specific area t): 100 18.0	EK VILLAGE 1985-11-03 1985-11-03 2015-12-16
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409 Unknown Natural/Nativ Torrance (33 Los Angeles 33.86475 / -1 Zone-11 N37 T03S, R14W EL NIDO PA	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA DBSERVED IN NOV 1985. Map Index: 98324 // e occurrence 311873) 118.35808 747990 E374381 /, Sec. 33, SW (S) RK, ON THE SOUTH SIDE	SIGN VISIBLE IN APLES IN RESIE SITE VIABILITY EO Index: Presence: Trend:	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD 99745 Presumed Extant Unknown Accuracy: Elevation (fr Acres: BETWEEN THE RAILROAD	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen: Site Last Seen: Record Last Updated: 100 18.0 TRACKS AND KINGSDALE AVE	EK VILLAGE 1985-11-03 1985-11-03 2015-12-16
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409 Unknown Natural/Nativ Torrance (33 Los Angeles 33.86475 / -1 Zone-11 N37 T03S, R14W EL NIDO PA "NORTHWE	 /, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S GIVEN AS 8650 GULANA. S ES WERE PINES AND MA DBSERVED IN NOV 1985. Map Index: 98324 /e occurrence 311873) 118.35808 747990 E374381 /, Sec. 33, SW (S) RK, ON THE SOUTH SIDE ST CORNER OF PARK, NE 	SIGN VISIBLE IN APLES IN RESID SITE VIABILITY EO Index: Presence: Trend: E OF 182ND ST I	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD 99745 Presumed Extant Unknown Accuracy: Elevation (fr Acres:	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen: Site Last Seen: Record Last Updated: 100 18.0 TRACKS AND KINGSDALE AVE	EK VILLAGE 1985-11-03 1985-11-03 2015-12-16
PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	T02S, R15W "CROSS CR DEL RAY. ADDRESS G ROOST TRE UP TO 250 G PVT 409 Unknown Natural/Nativ Torrance (33 Los Angeles 33.86475 / -1 Zone-11 N37 T03S, R14W EL NIDO PA "NORTHWE: ROOST TRE	/, Sec. 34, NE (S) EEK CONDO" SITE, EAST GIVEN AS 8650 GULANA. S EES WERE PINES AND MA DBSERVED IN NOV 1985. Map Index: 98324 // e occurrence 311873) 118.35808 747990 E374381 /, Sec. 33, SW (S) RK, ON THE SOUTH SIDE	SIGN VISIBLE IN APLES IN RESID SITE VIABILITY EO Index: Presence: Trend: E OF 182ND ST I	Acres: NA STREET (91ST ST) JUS 2015 GOOGLE STREET V PENTIAL AREA. UNKNOWN, NEEDS FIELD 99745 Presumed Extant Unknown Accuracy: Elevation (fr Acres: BETWEEN THE RAILROAD	0.0 ST SOUTH OF REDLANDS STRE IEW GIVES NAME "CROSS CRE WORK. Element Last Seen: Site Last Seen: Record Last Updated: 100 18.0 TRACKS AND KINGSDALE AVE	EK VILLAGE 1985-11-03 1985-11-03 2015-12-16





Gonidea angula western ridged m					Eleme	nt Code: IMBI\	/19010
Listing Status:		None		CNDDB Element Ran	ks: Global:	G3	
Listing Status.						•••	
	State:	None			State:	S1S2	
	Other:						
Habitat:	General:	PRIMARILY CREEKS & RI FROM CENTRAL & SOUTH		FTEN LAKES. ORIGINALLY IN	MOST OF ST	ATE, NOW EXT	IRPATED
	Micro:						
Occurrence No.	153	Map Index: B6054	EO Index:	119087	Element	Last Seen:	XXXX-XX-XX
Occ. Rank:	None		Presence:	Extirpated	Site Last	Seen:	1993-XX-XX
Occ. Type:	Natural/Na	ative occurrence	Trend:	Unknown	Record L	ast Updated:	2020-08-31
Quad Summary:		ch (3311872), South Gate (33), Canoga Park (3411825), Ca		eles (3411812), Hollywood (341 ⁻ 6)	1813), Burbanl	k (3411823), Va	n Nuys
County Summary:	Los Angel	les					
Lat/Long:	34.05581	/ -118.22744		Accuracy:	non-specifi	c area	
UTM:	Zone-11 N	N3769024 E386720		Elevation (ft):	283		
PLSS:	T01S, R1	3W, Sec. 27 (S)		Acres:	7001.0		
Location:	LOS ANG	ELES RIVER.					
Detailed Location:				(1948), REPORTEDLY BASED Y AS "VALLEY OF LOS ANGEL			
Ecological:	LISTED A	S HISTORICAL SITE IN HOW	/ARD (2010).				
General:		Y LISTED IN 1912 AND 1948 F RESAMPLED IN 2008-2010		NE FOUND IN 1991-92 SURVEY	OF RIVER. P	RESUMED EX	TIRPATED,
Owner/Manager:	UNKNOW	/N					



California Natural Diversity Database



Glyptostoma g)			Element Code: IMG	ASB1010
San Gabriel ches						
Listing Status:		None		CNDDB Element Ranl		
	State:	None			State: S2	
	Other:					
Habitat:	General:	TERRESTRIAL				
	Micro:					
Occurrence No.	19	Map Index: B5925	EO Index:	118937	Element Last Seen:	1953-05-22
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1953-05-22
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2020-07-30
Quad Summary:	Long Bea	ch (3311872), South Gate (33	11882)			
County Summary:	Los Angel	es				
Lat/Long:	33.86276	/ -118.23165		Accuracy:	1 mile	
UTM:	Zone-11 N	13747622 E386074		Elevation (ft):	189	
PLSS:	T03S, R13	3W, Sec. 34 (S)		Acres:	1987.0	
Location:	VICINITY	OF DOMINGUEZ HILLS.				
Detailed Location:	GIVEN CO	DLLECTION LOCALITES INC	LUDE DOMING	UEZ HILLS, DOMINGUEZ, AND	DOMINGUEZ JUNCTION.	
				EXTRACTION STARTED AT SI	TE IN THE 1920S SMITH IN	N 1970 NOTED
Ecological:	SPECIES	WAS ENDANGERED AT TH	IS SITE FROM I	NDUSTRIAL DEVELOPMENT. A		00S SHOWS
Ecological: General:	SPECIES SITE HAS COLLECT	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN	IS SITE FROM I LOPED. I DATE, IN 1906		ERIAL IMAGERY FROM 20	
General:	SPECIES SITE HAS COLLECT	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TONS MADE ON UNKNOWN AVILY DEVELOPED SINCE	IS SITE FROM I LOPED. I DATE, IN 1906	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1	ERIAL IMAGERY FROM 20	
General: Owner/Manager:	SPECIES SITE HAS COLLECT BEEN HE	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TONS MADE ON UNKNOWN AVILY DEVELOPED SINCE	IS SITE FROM I LOPED. I DATE, IN 1906	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1	ERIAL IMAGERY FROM 20	3. AREA HAS
General: Owner/Manager: Occurrence No.	SPECIES SITE HAS COLLECT BEEN HE UNKNOW	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN AVILY DEVELOPED SINCE N	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED.	3. AREA HAS 19XX-XX-XX
General: Owner/Manager: Occurrence No. Occ. Rank:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN AVILY DEVELOPED SINCE N	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index:	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen:	3. AREA HAS 19XX-XX-XX 19XX-XX-XX
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN AVILY DEVELOPED SINCE 'N Map Index: 34591	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend:	NDUSTRIAL DEVELOPMENT. A 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen:	3. AREA HAS 19XX-XX-XX 19XX-XX-XX
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN AVILY DEVELOPED SINCE Map Index: 34591 ative occurrence	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend:	NDUSTRIAL DEVELOPMENT. A 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen:	3. AREA HAS 19XX-XX-XX 19XX-XX-XX
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN AVILY DEVELOPED SINCE Map Index: 34591 ative occurrence	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend:	NDUSTRIAL DEVELOPMENT. A 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS 118949 Possibly Extirpated Unknown	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated:	3. AREA HAS 19XX-XX-XX 19XX-XX-XX
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TONS MADE ON UNKNOWN AVILY DEVELOPED SINCE Map Index: 34591 ative occurrence (3311863), Torrance (33118 es	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend:	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS 118949 Possibly Extirpated Unknown Accuracy:	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen:	3. AREA HAS 19XX-XX-XX 19XX-XX-XX
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TONS MADE ON UNKNOWN AVILY DEVELOPED SINCE Map Index: 34591 ative occurrence (3311863), Torrance (33118 es / -118.33602	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend:	NDUSTRIAL DEVELOPMENT. A 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS 118949 Possibly Extirpated Unknown	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated:	3. AREA HAS 19XX-XX-XX 19XX-XX-XX
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N T05S, R14	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TONS MADE ON UNKNOWN AVILY DEVELOPED SINCE 'N Map Index: 34591 ative occurrence (3311863), Torrance (33118 es / -118.33602 J3734781 E376250 4W, Sec. 15 (S)	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend:	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated Unknown Accuracy: Elevation (ft):	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	3. AREA HAS 19XX-XX-XX 19XX-XX-XX
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N T05S, R14 PALOS VI COLLECT	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN AVILY DEVELOPED SINCE Map Index: 34591 ative occurrence (3311863), Torrance (33118 es / -118.33602 J3734781 E376250 4W, Sec. 15 (S) ERDES HILLS, WEST OF SA	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend: 73)	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated Unknown Accuracy: Elevation (ft):	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 0.0	3. AREA HAS 19XX-XX-XX 19XX-XX-XX 2020-07-28
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N T05S, R14 PALOS VI COLLECT GUESS IN	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN AVILY DEVELOPED SINCE Map Index: 34591 ative occurrence (3311863), Torrance (33118 es / -118.33602 4W, Sec. 15 (S) ERDES HILLS, WEST OF SA TON LOCATION DESCRIBED N THE HILLS WEST OF SAN	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend: 773)	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 0.0 NINSULA." MAPPED BY CN	3. AREA HAS 19XX-XX-XX 19XX-XX-XX 2020-07-28
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N T05S, R14 PALOS VI COLLECT GUESS IN PALOS VI COLLECT	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN AVILY DEVELOPED SINCE 'N Map Index: 34591 ative occurrence (3311863), Torrance (33118 es (-118.33602 (3734781 E376250 4W, Sec. 15 (S) ERDES HILLS, WEST OF SA TION LOCATION DESCRIBED N THE HILLS WEST OF SAN ERDES HILLS HAVE BEEN H	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend: 773) N PEDRO. D AS "NEAR SAI PEDRO. HEAVILY DEVEL IKELY IN THE 11	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: N PEDRO, PALOS VERDES PEN	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 0.0 NINSULA." MAPPED BY CN LLECTION.	3. AREA HAS 19XX-XX-XX 19XX-XX-XX 2020-07-28 DDB AS A BES
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N T05S, R14 PALOS VI COLLECT GUESS IN PALOS VI COLLECT	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TONS MADE ON UNKNOWN AVILY DEVELOPED SINCE 'N Map Index: 34591 ative occurrence (3311863), Torrance (33118 es / -118.33602 / -118.35	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend: 773) N PEDRO. D AS "NEAR SAI PEDRO. HEAVILY DEVEL IKELY IN THE 11	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: N PEDRO, PALOS VERDES PEN OPED SINCE THE TIME OF CO	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 0.0 NINSULA." MAPPED BY CN LLECTION.	3. AREA HAS 19XX-XX-XX 19XX-XX-XX 2020-07-28 DDB AS A BES
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N T05S, R14 PALOS VI COLLECT GUESS IN PALOS VI COLLECT OCCURR UNKNOW	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TONS MADE ON UNKNOWN AVILY DEVELOPED SINCE 'N Map Index: 34591 ative occurrence (3311863), Torrance (33118 es / -118.33602 / -118.35	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend: 773) N PEDRO. D AS "NEAR SAI PEDRO. HEAVILY DEVEL IKELY IN THE 11	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: N PEDRO, PALOS VERDES PEN OPED SINCE THE TIME OF CO	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 0.0 NINSULA." MAPPED BY CN LLECTION.	B. AREA HAS 19XX-XX-XX 19XX-XX-XX 2020-07-28 DDB AS A BES SINCE THEN.
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager:	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N T05S, R14 PALOS VI COLLECT GUESS IN PALOS VI COLLECT OCCURR UNKNOW	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN AVILY DEVELOPED SINCE 'N Map Index: 34591 ative occurrence (3311863), Torrance (33118 es / -118.33602 40734781 E376250 4W, Sec. 15 (S) ERDES HILLS, WEST OF SA TION LOCATION DESCRIBED N THE HILLS WEST OF SAN ERDES HILLS HAVE BEEN H TED ON UNKNOWN DATE, L ENCE IS POSSIBLY EXTIRP 'N	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend: 773) N PEDRO. D AS "NEAR SAI PEDRO. HEAVILY DEVEL IKELY IN THE 11	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: N PEDRO, PALOS VERDES PEN OPED SINCE THE TIME OF CO	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 0.0 NINSULA." MAPPED BY CN LLECTION. EN HEAVILY DEVELOPED	B. AREA HAS 19XX-XX-XX 19XX-XX-XX 2020-07-28 DDB AS A BES SINCE THEN.
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Tryonia imitato	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N T05S, R14 PALOS VI COLLECT GUESS IN PALOS VI	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TIONS MADE ON UNKNOWN AVILY DEVELOPED SINCE 'N Map Index: 34591 ative occurrence (3311863), Torrance (33118 es / -118.33602 40734781 E376250 4W, Sec. 15 (S) ERDES HILLS, WEST OF SA TION LOCATION DESCRIBED N THE HILLS WEST OF SAN ERDES HILLS HAVE BEEN H TED ON UNKNOWN DATE, L ENCE IS POSSIBLY EXTIRP 'N	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend: 773) N PEDRO. D AS "NEAR SAI PEDRO. HEAVILY DEVEL IKELY IN THE 11	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: N PEDRO, PALOS VERDES PEN OPED SINCE THE TIME OF CO	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Record Last Updated: 1 mile 0.0 NINSULA." MAPPED BY CN LLECTION. EN HEAVILY DEVELOPED Element Code: IMG	B. AREA HAS 19XX-XX-XX 19XX-XX-XX 2020-07-28 DDB AS A BES SINCE THEN.
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Tryonia imitato mimic tryonia (=C	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N T05S, R14 PALOS VI COLLECT GUESS IN PALOS VI	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TONS MADE ON UNKNOWN AVILY DEVELOPED SINCE Map Index: 34591 ative occurrence (3311863), Torrance (33118 es (-118.33602 J3734781 E376250 4W, Sec. 15 (S) ERDES HILLS, WEST OF SA TON LOCATION DESCRIBED N THE HILLS WEST OF SAN ERDES HILLS HAVE BEEN H TED ON UNKNOWN DATE, L ENCE IS POSSIBLY EXTIRP (N	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend: 773) N PEDRO. D AS "NEAR SAI PEDRO. HEAVILY DEVEL IKELY IN THE 11	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: N PEDRO, PALOS VERDES PEN OPED SINCE THE TIME OF CO 930S OR 1940S. AREA HAS BEE	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Record Last Updated: 1 mile 0.0 NINSULA." MAPPED BY CN LLECTION. EN HEAVILY DEVELOPED Element Code: IMG	B. AREA HAS 19XX-XX-XX 19XX-XX-XX 2020-07-28 DDB AS A BES SINCE THEN.
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager: Tryonia imitato mimic tryonia (=C	SPECIES SITE HAS COLLECT BEEN HE UNKNOW 23 None Natural/Na San Pedro Los Angel 33.74588 Zone-11 N T05S, R14 PALOS VI COLLECT GUESS IN PALOS VI COLLECT OCCURR UNKNOW	WAS ENDANGERED AT TH BEEN COMPLETELY DEVE TONS MADE ON UNKNOWN AVILY DEVELOPED SINCE Map Index: 34591 ative occurrence (3311863), Torrance (33118 es / -118.33602 3734781 E376250 4W, Sec. 15 (S) ERDES HILLS, WEST OF SA FON LOCATION DESCRIBED N THE HILLS WEST OF SAN ERDES HILLS HAVE BEEN H TED ON UNKNOWN DATE, L ENCE IS POSSIBLY EXTIRP N ekishwater snail) None	IS SITE FROM I ELOPED. I DATE, IN 1906, TIME OF COLLE EO Index: Presence: Trend: 773) N PEDRO. D AS "NEAR SAI PEDRO. HEAVILY DEVEL IKELY IN THE 11	NDUSTRIAL DEVELOPMENT. A , 1914, 1917, 1922, 1936, 1937, 1 CTIONA AND POPULATION IS I 118949 Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: N PEDRO, PALOS VERDES PEN OPED SINCE THE TIME OF CO 930S OR 1940S. AREA HAS BEE	ERIAL IMAGERY FROM 20 1938, 1940, 1941, AND 1953 LIKELY EXTIRPATED. Element Last Seen: Record Last Updated: 1 mile 0.0 NINSULA." MAPPED BY CN LLECTION. EN HEAVILY DEVELOPED Element Code: IMG ks: Global: G2	B. AREA HAS 19XX-XX-XX 19XX-XX-XX 2020-07-28 DDB AS A BES SINCE THEN.

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California Department of Fish and Wildlife



		INHABITS COASTAL LAGO DIEGO COUNTY.	ONS, ESTUAR	IES AND SAL	T MARSHES, FRO	M SONOMA COUNTY SOUT	TH TO SAN
	Micro:	FOUND ONLY IN PERMANE WITHSTAND A WIDE RANG			S IN A VARIETY O	F SEDIMENT TYPES; ABLE	ТО
Occurrence No.	16	Map Index: 36780	EO Index:	23211		Element Last Seen:	1974-XX-XX
Occ. Rank:	None		Presence:	Possibly Ext	irpated	Site Last Seen:	2001-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2016-07-21
Quad Summary:	Venice (33	311884)					
County Summary:	Los Angel	es, Pacific Ocean					
Lat/Long:	33.97220	/ -118.43699			Accuracy:	non-specific area	
UTM:	Zone-11 N	I3760003 E367248			Elevation (ft):		
PLSS:	T02S, R15	5W, Sec. 27 (S)			Acres:	60.3	
Location:	BALLONA	CREEK, LOS ANGELES.					
Detailed Location:	MAPPED	ALONG BALLONA CREEK TO	THE CONFLU	IENCE OF CE	NTINELA CREEK	NEAR PLAYA DEL REY.	
Ecological:	HABITAT	IS COASTAL LAGOONS OR E	BRACKISH WA	TER-ESTUAR	INE STREAM-MO	UTH AREAS.	
General:	1974; NO	ECIMEN #10572. STATUS UN SUBSEQUENT COLLECTION ART 2001 IN PWA06R0001).					
Owner/Manager:	DPR-DOC	KWEILER SB					
Occurrence No.	30	Map Index: 57921	EO Index:	57937		Element Last Seen:	XXXX-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	XXXX-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2004-11-05
Quad Summary:	San Pedro	o (3311863)					
County Summary:	Los Angel	es, Pacific Ocean					
Lat/Long:	33.71045	/ -118.30057			Accuracy:	specific area	
UTM:	Zone-11 N	I3730811 E379485			Elevation (ft):	50	
PLSS:	T05S, R14	4W, Sec. 25 (S)			Acres:	217.3	
Location:	SAN PED	RO BLUFFS.					
Detailed Location:	USNM RE BLUFFS.	CORD GIVES "NEAREST PLA	ACE NAME" AS	SAN PEDRO	. FOUND IN PLEIS	STOCENE DEPOSITS ON SA	N PEDRO
Ecological:							
General:		53426 COLLECTED BY HEMP TONS. EXTIRPATED AT THIS				CTION 1870-1890. NO RECI	ENT
Owner/Manager:	UNKNOW	N					



California Department of Fish and Wildlife

California Natural Diversity Database



Occurrence No.	42 Map Index: 85175	EO Index:	86194		Element Last Seen:	2007-12-05
Occ. Rank:	Unknown	Presence:	Presumed E	xtant	Site Last Seen:	2007-12-05
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown		Record Last Updated:	2012-02-24
Quad Summary:	San Pedro (3311863), Torrance (3311873	3)				
County Summary:	Los Angeles					
Lat/Long:	33.75072 / -118.28454			Accuracy:	1/5 mile	
UTM:	Zone-11 N3735257 E381025			Elevation (ft):	59	
PLSS:	T05S, R13W, Sec. 07 (S)			Acres:	0.0	
Location:	KNOLL HILL IN SAN PEDRO.					
Detailed Location:	NO INFORMATION GIVEN ABOUT WHE PROBABLY COLLECTED FROM TURNI				LL HILL. MAPPED TO KNO	LL HILL, BUT
Ecological:	NO OBVIOUS SUITABLE HABITAT ON H HARBOR INLET ON KNOLL DRIVE NW	-	-			IS THE
General:	100 COLLECTED 5 DEC 2007 BY P.A. K	LOESS (NMN	H 1122517; FI	ELD NUMBER PAK	120507-B6: SWCA INC CO	NSULTING #4).
Owner/Manager:	CITY OF LOS ANGELES					

Eryngium arist	ulatum vai	r. parishii				Eleme	nt Code: PDAF	PI0Z042
San Diego button	-celery							
Listing Status:	Federal:	Endangered		CNE	DDB Element Rank	s: Global:	G5T1	
	State:	Endangered				State:	S1	
	Other:	Rare Plant Rank - 1B.1, SB_ CRES Native Gene Seed Ba		-California/Rai	ncho Santa Ana Bot	anic Garden	, SB_CRES-Sar	n Diego Zoo
Habitat:	General:	VERNAL POOLS, COASTAL	SCRUB, VALI	EY AND FOC	THILL GRASSLAN	D.		
	Micro:	SAN DIEGO MESA HARDPA POOLS; USUALLY SURROL				INTERIOR	BASALT FLOW	VERNAL
Occurrence No.	120	Map Index: 95346	EO Index:	96484		Element	Last Seen:	1901-07-20
Occ. Rank:	None		Presence:	Extirpated		Site Last	t Seen:	1901-07-20
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record I	_ast Updated:	2015-03-03
Quad Summary:	Inglewood	(3311883), Venice (3311884)						
County Summary:	Los Angel	es						
Lat/Long:	33.92366	/ -118.37848			Accuracy:	1 mile		
UTM:	Zone-11 N	I3754547 E372581			Elevation (ft):			
PLSS:	T03S, R14	4W, Sec. 08 (S)			Acres:	0.0		
Location:	WISEBUR	N.						
Detailed Location:	EXACT LO	OCATION UNKNOWN. MAPPE	D BY CNDDB	AS BEST GUE	ESS AROUND THE	HISTORIC 1	OWN OF WISE	BURN.
Ecological:								
General:	ONLY SO	URCE OF INFORMATION FOR	R THIS SITE IS	A 1901 ABRA	MS COLLECTION.			
Owner/Manager:	UNKNOW	N						

Chaenactis gla Orcutt's pincushio		var. orcuttiana		Eleme	nt Code: PDAST20095
Listing Status:		None	CNDDB Element Ranks:	Global.	G5T1T2
	State:	None		State:	S1
	Other:		ABG-California/Rancho Santa Ana Botani		
Habitat:	General:	COASTAL BLUFF SCRUB, COASTAL	DUNES.		

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	Micro:	SANDY SITES. 3-80 M.				
Occurrence No.	20	Map Index: 79025	EO Index:	47545	Element Last Seen:	2010-05-13
Occ. Rank:	Fair		Presence:	Presumed Extant	Site Last Seen:	2010-05-13
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2016-06-15
Quad Summary:	Venice (33	311884)				
County Summary:	Los Angele	es				
Lat/Long:	33.89918 /	/ -118.41276		Accuracy:	80 meters	
UTM:	Zone-11 N	I3751875 E369375		Elevation (ft):	125	
PLSS:	T03S, R15	5W, Sec. 24, NW (S)		Acres:	0.0	
Location:	SAND DUI	NE PARK, MANHATTAN BEAG	CH.			
Detailed Location:	BEHIND C	ITY OF MANHATTAN BEACH	'S MAINTENAI	NCE YARD WITHIN SAND DUNI	E PARK.	
Ecological:		ONIS, CAMISSONIA CHEIRAN		INCLUDED CARPOBROTUS E IACELIA RAMOSISSIMA, STEP	, , ,	
General:	SEEN IN 2 TO THIS S		010. A 1929 BE	TTYS COLLECTION FROM "MA	ANHATTAN BEACH" IS ALSC	ATTRIBUTED
Owner/Manager:	CITY OF N	MANHATTAN BEACH				
Occurrence No.	21	Map Index: 79013	EO Index:	47564	Element Last Seen:	2011-04-08
Occurrence No. Occ. Rank:	21 Unknown	Map Index: 79013	EO Index: Presence:	47564 Presumed Extant	Element Last Seen: Site Last Seen:	2011-04-08 2011-04-08
	Unknown	Map Index: 79013 ative occurrence				
Occ. Rank:	Unknown	tive occurrence	Presence:	Presumed Extant	Site Last Seen:	2011-04-08
Occ. Rank: Occ. Type:	Unknown Natural/Na	ative occurrence	Presence:	Presumed Extant	Site Last Seen:	2011-04-08
Occ. Rank: Occ. Type: Quad Summary:	Unknown Natural/Na Venice (33	ative occurrence 311884) es	Presence:	Presumed Extant	Site Last Seen:	2011-04-08
Occ. Rank: Occ. Type: Quad Summary: County Summary:	Unknown Natural/Na Venice (33 Los Angele 33.962 / -1	ative occurrence 311884) es	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	2011-04-08
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	Unknown Natural/Na Venice (33 Los Angele 33.962 / -1 Zone-11 N	ative occurrence 311884) es 18.44956	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: 80 meters	2011-04-08
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Unknown Natural/Na Venice (33 Los Angele 33.962 / -1 Zone-11 N T02S, R15	ative occurrence 311884) es 118.44956 13758889 E366071	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: 80 meters 20	2011-04-08
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Unknown Natural/Na Venice (33 Los Angele 33.962 / -1 Zone-11 N T02S, R15 BALLONA ON A NAR	ative occurrence 311884) es 18.44956 13758889 E366071 5W, Sec. 33, NE (S) WETLANDS, PLAYA DEL RE	Presence: Trend: Y. FRAND [BEAC	Presumed Extant Unknown Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated: 80 meters 20 5.0	2011-04-08 2016-06-15
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Unknown Natural/Na Venice (33 Los Angele 33.962 / -1 Zone-11 N T02S, R15 BALLONA ON A NAR ACCORDI	ative occurrence 311884) es 118.44956 13758889 E366071 5W, Sec. 33, NE (S) WETLANDS, PLAYA DEL RE ROW STRIP OF COASTAL S NG TO 2011 COOPER COOR TAL DUNES. IN 2011, PLANTS	Presence: Trend: Y. TRAND [BEAC DINATES.	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 80 meters 20 5.0 JNDARY OF AREA 1. MAPPE	2011-04-08 2016-06-15
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Unknown Natural/Na Venice (33 Los Angele 33.962 / -1 Zone-11 N T02S, R15 BALLONA ON A NAR ACCORDI ON COAS ON BACK LIKELY OF WERE SE	ative occurrence 311884) es 118.44956 13758889 E366071 5W, Sec. 33, NE (S) WETLANDS, PLAYA DEL RE [®] RROW STRIP OF COASTAL S [®] NG TO 2011 COOPER COOR TAL DUNES. IN 2011, PLANTS DUNE. BSERVED AT THIS SITE IN 19	Presence: Trend: Y. TRAND [BEAC DINATES. S OBSERVED 081, 1991, 199	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: H] ALONG THE WESTERN BOU	Site Last Seen: Record Last Updated: 80 meters 20 5.0 JNDARY OF AREA 1. MAPPE WHERE ICEPLANT HAD BE	2011-04-08 2016-06-15 ED BY CNDDB EEN REMOVED FLOWERS"



California Department of Fish and Wildlife

California Natural Diversity Database



Occurrence No.	36	Map Index: A0653	EO Index:	102210	Element Last Seen:	2001-05-13
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	2001-05-13
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown	Record Last Updated:	2016-06-20
Quad Summary:	Venice (3311	1884)				
County Summary:	Los Angeles					
Lat/Long:	33.90258 / -1	118.41854		Accuracy	r: 1/10 mile	
UTM:	Zone-11 N37	752260 E368846		Elevation	(ft):	
PLSS:	T03S, R15W	/, Sec. 23 (S)		Acres:	18.0	
Location:	MANHATTA	N BEACH, NW CORNER C	F TOWN NEAR	EL SEGUNDO, CORNER	OF HIGHLAND AND EL PORTO S	TREET.
Detailed Location:				CTION. GIVEN ELEVATI	ON IS ABOUT 10 FEET WHICH SU	GGESTS SITE
Ecological:	DUNE FRAG	BEEN COLLECTED CLOS	ER TO COAST.			
General:			R THIS SITE IS		CTION	
Owner/Manager:	UNKNOWN					
J						
Occurrence No.	37	Map Index: A0655	EO Index:	102212	Element Last Seen:	1986-04-01
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1986-04-01
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown	Record Last Updated:	2016-06-20
Quad Summary:	Venice (3311	1884)				
County Summary:	Los Angeles					
Lat/Long:	33.94172 / -1	118.43801		Accuracy	2: 4/5 mile	
UTM:	Zone-11 N37	756625 E367107		Elevation	(ft):	
PLSS:	T03S, R15W	/, Sec. 3 (S)		Acres:	1312.0	
Location:	EL SEGUND	O DUNES, BACK EDGE O	F THE BEACH	JUST WEST OF LOS ANG	GELES INTERNATIONAL AIRPORT	
Detailed Location:	MAPPED AS	BEST GUESS AROUND	THE DUNE ARE	A JUST WEST OF THE A	IRPORT.	
					RVIFOLIUM.	
Ecological:	FLATS AT F	OOT OF DUNES WITH ER	IOGONUM FAS	CICOLATONI AND L. TAN		
Ecological: General:	SITE BASED		LLECTION. 193		URER COLLECTIONS FROM DUN	ES NEAR EL
-	SITE BASED	O ON A 1986 MATTONI CO	LLECTION. 193		URER COLLECTIONS FROM DUN	ES NEAR EL
General: Owner/Manager:	SITE BASED SEGUNDO A UNKNOWN	O ON A 1986 MATTONI CO ARE ALSO ATTRIBUTED T	LLECTION. 193 O THIS SITE.	3 JOHNSON AND 1935 P		
General: Owner/Manager: Occurrence No.	SITE BASED SEGUNDO A UNKNOWN 38	O ON A 1986 MATTONI CO	LLECTION. 193 O THIS SITE. EO Index:	3 JOHNSON AND 1935 P 102214	Element Last Seen:	2015-05-20
General: Owner/Manager:	SITE BASED SEGUNDO A UNKNOWN 38 Fair	O ON A 1986 MATTONI CO ARE ALSO ATTRIBUTED T	LLECTION. 193 O THIS SITE.	3 JOHNSON AND 1935 P		
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	SITE BASED SEGUNDO A UNKNOWN 38 Fair Natural/Nativ	O ON A 1986 MATTONI CO ARE ALSO ATTRIBUTED T Map Index: A0657 re occurrence	EO Index: Presence:	3 JOHNSON AND 1935 P 102214 Presumed Extant	Element Last Seen: Site Last Seen:	2015-05-20 2015-05-20
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	SITE BASED SEGUNDO A UNKNOWN 38 Fair	O ON A 1986 MATTONI CO ARE ALSO ATTRIBUTED T Map Index: A0657 re occurrence 1884)	EO Index: Presence:	3 JOHNSON AND 1935 P 102214 Presumed Extant	Element Last Seen: Site Last Seen:	2015-05-20 2015-05-20
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	SITE BASED SEGUNDO A UNKNOWN 38 Fair Natural/Nativ Venice (3311 Los Angeles	O ON A 1986 MATTONI CO ARE ALSO ATTRIBUTED T Map Index: A0657 /e occurrence 1884)	EO Index: Presence:	3 JOHNSON AND 1935 P 102214 Presumed Extant Unknown	Element Last Seen: Site Last Seen: Record Last Updated:	2015-05-20 2015-05-20
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	SITE BASED SEGUNDO A UNKNOWN 38 Fair Natural/Nativ Venice (3311 Los Angeles 33.97083 / -1	O ON A 1986 MATTONI CO ARE ALSO ATTRIBUTED T Map Index: A0657 /e occurrence 1884)	EO Index: Presence:	3 JOHNSON AND 1935 P 102214 Presumed Extant Unknown Accuracy	Element Last Seen: Site Last Seen: Record Last Updated:	2015-05-20 2015-05-20
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	SITE BASED SEGUNDO A UNKNOWN 38 Fair Natural/Nativ Venice (3311 Los Angeles 33.97083 / -1 Zone-11 N37	Map Index: A0657 ARE ALSO ATTRIBUTED T Map Index: A0657 //e occurrence 1884) 118.45858 759880 E365252	EO Index: Presence:	3 JOHNSON AND 1935 P 102214 Presumed Extant Unknown	Element Last Seen: Site Last Seen: Record Last Updated: T: specific area (ft): 10	2015-05-20 2015-05-20
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	SITE BASED SEGUNDO A UNKNOWN 38 Fair Natural/Nativ Venice (3311 Los Angeles 33.97083 / -1 Zone-11 N37 T02S, R15W	0 ON A 1986 MATTONI CO ARE ALSO ATTRIBUTED T Map Index: A0657 // occurrence 1884) 118.45858 759880 E365252 /, Sec. 28 (S)	EO Index: Presence:	3 JOHNSON AND 1935 P 102214 Presumed Extant Unknown Accuracy Elevation	Element Last Seen: Site Last Seen: Record Last Updated:	2015-05-20 2015-05-20
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	SITE BASED SEGUNDO A UNKNOWN 38 Fair Natural/Nativ Venice (3311 Los Angeles 33.97083 / -1 Zone-11 N37 T02S, R15W WEST BANK	Map Index: A0657 Map Index: A0657 // occurrence 1884) 118.45858 // Sec. 28 (S) (OF BALLONA LAGOON.	LLECTION. 193 O THIS SITE. EO Index: Presence: Trend:	3 JOHNSON AND 1935 P 102214 Presumed Extant Unknown Accuracy Elevation Acres:	Element Last Seen: Site Last Seen: Record Last Updated: T: specific area (ft): 10	2015-05-20 2015-05-20
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	SITE BASED SEGUNDO A UNKNOWN 38 Fair Natural/Nativ Venice (3311 Los Angeles 33.97083 / -1 Zone-11 N37 T02S, R15W WEST BANK MAPPED AS	Map Index: A0657 Map Index: A0657 /e occurrence 1884) 118.45858 /59880 E365252 /, Sec. 28 (S) (OF BALLONA LAGOON. 5 2 POLYGONS ACCORDIN	LLECTION. 193 O THIS SITE. EO Index: Presence: Trend:	3 JOHNSON AND 1935 P 102214 Presumed Extant Unknown Accuracy Elevation Acres: ONES MAP.	Element Last Seen: Site Last Seen: Record Last Updated: r: specific area (ft): 10 5.0	2015-05-20 2015-05-20 2016-06-22
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	SITE BASED SEGUNDO A UNKNOWN 38 Fair Natural/Nativ Venice (3311 Los Angeles 33.97083 / -1 Zone-11 N37 T02S, R15W WEST BANK MAPPED AS OPEN UPLA LAGOON BA	Map Index: A0657 Map Index: A0657 /e occurrence 1884) 118.45858 759880 E365252 7, Sec. 28 (S) COF BALLONA LAGOON. S 2 POLYGONS ACCORDII ND AREAS WITH MOSTLY	LLECTION. 193 O THIS SITE. EO Index: Presence: Trend: NG TO A 2010 J Y SANDY SOILS	3 JOHNSON AND 1935 P 102214 Presumed Extant Unknown Accuracy Elevation Acres: ONES MAP. 5, AWAY FROM THE UPP I-NATIVE PLANT SPECIE	Element Last Seen: Site Last Seen: Record Last Updated: T: specific area (ft): 10	2015-05-20 2015-05-20 2016-06-22
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	SITE BASED SEGUNDO A UNKNOWN 38 Fair Natural/Nativ Venice (3311 Los Angeles 33.97083 / -1 Zone-11 N37 T02S, R15W WEST BANK MAPPED AS OPEN UPLA LAGOON BA STRAND, AN	Map Index: A0657 Map Index: A0657 /e occurrence 1884) 118.45858 759880 E365252 /, Sec. 28 (S) COF BALLONA LAGOON. S 2 POLYGONS ACCORDIN ND AREAS WITH MOSTLY NKS INCLUDES BOTH NA ND COASTAL DUNE PLAN	LLECTION. 193 O THIS SITE. EO Index: Presence: Trend: NG TO A 2010 J Y SANDY SOILS ATIVE AND NON T COMMUNITIE	3 JOHNSON AND 1935 P 102214 Presumed Extant Unknown Accuracy Elevation Acres: ONES MAP. 5, AWAY FROM THE UPP I-NATIVE PLANT SPECIE S.	Element Last Seen: Site Last Seen: Record Last Updated: r: specific area (ft): 10 5.0 ER HIGH TIDE LINE. VEGETATION	2015-05-20 2015-05-20 2016-06-22

ē





Centromadia pa	arryi ssp. a	australis				Elemer	nt Code: PDAS	ST4R0P4
southern tarplant								
Listing Status:	Federal:	None		CNE	DDB Element Rank	s: Global:	G3T2	
	State:	None				State:	S2	
	Other:	Rare Plant Rank - 1B.1, SB CRES Native Gene Seed B				tanic Garden,	SB_CRES-Sa	n Diego Zoo
Habitat:	General:	MARSHES AND SWAMPS	(MARGINS), VA	LLEY AND FO	DOTHILL GRASSLA	AND, VERNAI	L POOLS.	
	Micro:	OFTEN IN DISTURBED SIT WITH SALTGRASS. SOME				SO IN ALKALI	INE SOILS SOI	METIMES
Occurrence No.	25	Map Index: 35371	EO Index:	29314		Element	Last Seen:	1932-XX-XX
Occ. Rank:	Unknown		Presence:	Presumed E	xtant	Site Last	Seen:	1932-XX-XX
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown		Record L	ast Updated:	1997-03-17
Quad Summary:	Long Beac	ch (3311872)						
County Summary:	Los Angele	es						
Lat/Long:	33.78593 /	/ -118.18194			Accuracy:	non-specific	c area	
UTM:	Zone-11 N	3739048 E390574			Elevation (ft):	15		
						184.7		
PLSS:	T04S, R12	2W, Sec. 31, NW (S)			Acres:	104.7		
		2W, Sec. 31, NW (S) RANCH NEAR LONG BEACH	I, NORTH OF 71	TH STREET A				
Location:	BRYANT F			TH STREET AI				
Location: Detailed Location:	BRYANT F	RANCH NEAR LONG BEACH		TH STREET AI				
PLSS: Location: Detailed Location: Ecological: General:	BRYANT F	RANCH NEAR LONG BEACH	ECTION 31.		ND EAST OF ATLA			
Location: Detailed Location: Ecological:	BRYANT F	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC	ECTION 31.		ND EAST OF ATLA			
Location: Detailed Location: Ecological: General:	BRYANT F COLLECT ONLY SO	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC	ECTION 31.		ND EAST OF ATLA	NTIC AVE.	Last Seen:	199X-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	BRYANT F COLLECT ONLY SOU UNKNOW	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N	ECTION 31. DR THIS SITE IS	; 1932 COLLE	ND EAST OF ATLA CTION BY SNOW.	NTIC AVE.		199X-XX-XX 1997-10-19
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	BRYANT F COLLECT ONLY SOU UNKNOW 27 Unknown	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N	ECTION 31. OR THIS SITE IS EO Index:	30105	ND EAST OF ATLA CTION BY SNOW.	NTIC AVE. Element Site Last		
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	BRYANT F COLLECT ONLY SOU UNKNOW 27 Unknown	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N Map Index: 97162	ECTION 31. OR THIS SITE IS EO Index: Presence:	30105 Presumed E	ND EAST OF ATLA CTION BY SNOW.	NTIC AVE. Element Site Last	Seen:	1997-10-19
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	BRYANT F COLLECT ONLY SOU UNKNOW 27 Unknown Natural/Na	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N Map Index: 97162 ative occurrence	ECTION 31. OR THIS SITE IS EO Index: Presence:	30105 Presumed E	ND EAST OF ATLA CTION BY SNOW.	NTIC AVE. Element Site Last	Seen:	1997-10-19
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	BRYANT F COLLECT ONLY SOU UNKNOW 27 Unknown Natural/Na Venice (33 Los Angele	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N Map Index: 97162 ative occurrence	ECTION 31. OR THIS SITE IS EO Index: Presence:	30105 Presumed E	ND EAST OF ATLA CTION BY SNOW.	NTIC AVE. Element Site Last	Seen: .ast Updated:	1997-10-19
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	BRYANT F COLLECT ONLY SOU UNKNOW 27 Unknown Natural/Na Venice (33 Los Angele 33.97876 /	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N Map Index: 97162 ative occurrence	ECTION 31. OR THIS SITE IS EO Index: Presence:	30105 Presumed E	ND EAST OF ATLA	NTIC AVE. Element Site Last Record L	Seen: .ast Updated:	1997-10-19
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	BRYANT F COLLECT ONLY SOU UNKNOW 27 Unknown Natural/Na Venice (33 Los Angela 33.97876 / Zone-11 N	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N Map Index: 97162 ative occurrence	ECTION 31. OR THIS SITE IS EO Index: Presence:	30105 Presumed E	ND EAST OF ATLA CTION BY SNOW.	NTIC AVE. Element Site Last Record L	Seen: .ast Updated:	1997-10-19
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	BRYANT F COLLECT ONLY SOU UNKNOW 27 Unknown Natural/Na Venice (33 Los Angele 33.97876 / Zone-11 N T02S, R15	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N Map Index: 97162 attive occurrence 311884) es 7 -118.43071 13760723 E367838	ECTION 31. OR THIS SITE IS EO Index: Presence: Trend:	30105 Presumed E Unknown	ND EAST OF ATLA CTION BY SNOW. Extant Accuracy: Elevation (ft): Acres:	NTIC AVE. Element Site Last Record L	Seen: .ast Updated:	1997-10-19
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	BRYANT F COLLECT ONLY SOU UNKNOW 27 Unknown Natural/Na Venice (33 Los Angele 33.97876 / Zone-11 N T02S, R15 BALLONA	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N Map Index: 97162 attive occurrence 11884) es 7 -118.43071 13760723 E367838 5W, Sec. 23, SW (S)	ECTION 31. OR THIS SITE IS EO Index: Presence: Trend: CA-1 AND NOR	30105 Presumed E Unknown	ND EAST OF ATLA CTION BY SNOW. Extant Accuracy: Elevation (ft): Acres: DNA CREEK.	NTIC AVE. Element Site Last Record L non-specific 76.0	Seen: .ast Updated: c area	1997-10-19
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	BRYANT F COLLECT ONLY SOU UNKNOW 27 Unknown Natural/Na Venice (33 Los Angele 33.97876 / Zone-11 N T02S, R15 BALLONA MAPPED /	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N Map Index: 97162 ative occurrence 311884) es 7 -118.43071 13760723 E367838 5W, Sec. 23, SW (S) MARSHES; JUST EAST OF	ECTION 31. OR THIS SITE IS EO Index: Presence: Trend: CA-1 AND NOR	30105 Presumed E Unknown	ND EAST OF ATLA CTION BY SNOW. Extant Accuracy: Elevation (ft): Acres: DNA CREEK. CATES THIS SPEC	Element Site Last Record L non-specific 76.0	Seen: .ast Updated: c area	1997-10-19
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	BRYANT F COLLECT ONLY SOU UNKNOW 27 Unknown Natural/Na Venice (33 Los Angele 33.97876 / Zone-11 N T02S, R15 BALLONA MAPPED / EDGE OF 30 PLANT GAR97R0	RANCH NEAR LONG BEACH ED IN T04S R12W NW 1/4 S URCE OF INFORMATION FC N Map Index: 97162 ative occurrence 311884) es 7 -118.43071 13760723 E367838 5W, Sec. 23, SW (S) MARSHES; JUST EAST OF ACCORDING TO A MAP IN A	ECTION 31. OR THIS SITE IS EO Index: Presence: Trend: CA-1 AND NOR A 2006 REPORT G SALICORNIA S ACC TO C. SI GARDINER IN 1	30105 Presumed E Unknown	ND EAST OF ATLA CTION BY SNOW. Extant Accuracy: Elevation (ft): Acres: DNA CREEK. CATES THIS SPEC SPARTINA FOLIOS AYA VISTA ENVIRO	Element Site Last Record L non-specific 76.0 IES OCCURS SA. ONMENTAL F	Seen: .ast Updated: c area S IN "AREA C." PLANNER) AS	1997-10-19 2015-08-10 REPORTED IN



California Department of Fish and Wildlife



Occurrence No.	29	Map Index: 35369	EO Index:	7744	Element Last Seen:	1931-07-31
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1931-07-31
Occ. Type:		ve occurrence	Trend:	Unknown	Record Last Updated:	1997-02-04
Quad Summary:	South Gate ((3311882)				
County Summary:	Los Angeles					
Lat/Long:	33.98902 / -	118.13773		Accuracy:	2/5 mile	
UTM:	Zone-11 N37	761522 E394916		Elevation (ft):	60	
PLSS:	T02S, R12W	/ (S)		Acres:	0.0	
Location:	EAST LOS A	ANGELES, TELEGRAPH RO	DAD NEAR SAN	TA FE RAILROAD CROSSING.		
Detailed Location:		AST OF THE SANTA ANA F ITY OF COMMERCE.	REEWAY (I-5)	AT GARFIELD AVE NEAR THE	ATCHISON, TOPEKA AND SA	ANTA FE
Ecological:						
General:	ONLY SOUF	RCE OF INFORMATION FO	R THIS SITE IS	1931 COLLECTION BY EWAN.	SPECIMEN FILED IN H. PUN	NGENS FILE
Contrain			IDENTIFIED TO	O H. PARRYI SSP. AUSTRALIS	BY D. BRAMLET (1990).	
Owner/Manager:			IDENTIFIED TO	O H. PARRYI SSP. AUSTRALIS	BY D. BRAMLET (1990).	
	AT RSA, BU		EO Index:	O H. PARRYI SSP. AUSTRALIS 30040	BY D. BRAMLET (1990). Element Last Seen:	1905-07-XX
Owner/Manager:	AT RSA, BU UNKNOWN	T HAS BEEN TENATIVELY				
Owner/Manager: Occurrence No.	AT RSA, BU UNKNOWN 30 Unknown	T HAS BEEN TENATIVELY	EO Index:	30040	Element Last Seen:	1905-07-XX
Owner/Manager: Occurrence No. Occ. Rank:	AT RSA, BU UNKNOWN 30 Unknown	T HAS BEEN TENATIVELY Map Index: 28742 /e occurrence	EO Index: Presence:	30040 Presumed Extant	Element Last Seen: Site Last Seen:	1905-07-XX 1905-07-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	AT RSA, BU UNKNOWN 30 Unknown Natural/Nativ	T HAS BEEN TENATIVELY Map Index: 28742 /e occurrence 3311883)	EO Index: Presence:	30040 Presumed Extant	Element Last Seen: Site Last Seen:	1905-07-XX 1905-07-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	AT RSA, BU UNKNOWN 30 Unknown Natural/Nativ Inglewood (3	T HAS BEEN TENATIVELY Map Index: 28742 /e occurrence 3311883)	EO Index: Presence:	30040 Presumed Extant	Element Last Seen: Site Last Seen:	1905-07-XX 1905-07-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	AT RSA, BU UNKNOWN 30 Unknown Natural/Nativ Inglewood (3 Los Angeles 33.95930 / -	T HAS BEEN TENATIVELY Map Index: 28742 /e occurrence 3311883)	EO Index: Presence:	30040 Presumed Extant Unknown	Element Last Seen: Site Last Seen: Record Last Updated:	1905-07-XX 1905-07-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	AT RSA, BU UNKNOWN 30 Unknown Natural/Nativ Inglewood (3 Los Angeles 33.95930 / -	T HAS BEEN TENATIVELY Map Index: 28742 /e occurrence 3311883) 118.35104 758465 E375170	EO Index: Presence:	30040 Presumed Extant Unknown Accuracy:	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	1905-07-XX 1905-07-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	AT RSA, BU UNKNOWN 30 Unknown Natural/Nativ Inglewood (3 Los Angeles 33.95930 / - ⁻ Zone-11 N3 T02S, R14W	T HAS BEEN TENATIVELY Map Index: 28742 /e occurrence 3311883) 118.35104 758465 E375170	EO Index: Presence:	30040 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 100	1905-07-XX 1905-07-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	AT RSA, BU UNKNOWN 30 Unknown Natural/Nativ Inglewood (3 Los Angeles 33.95930 / - ⁻ Zone-11 N3 T02S, R14W	T HAS BEEN TENATIVELY Map Index: 28742 /e occurrence 3311883) 118.35104 758465 E375170 / (S)	EO Index: Presence:	30040 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 100	1905-07-XX 1905-07-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	AT RSA, BU UNKNOWN 30 Unknown Natural/Nativ Inglewood (3 Los Angeles 33.95930 / - ⁻ Zone-11 N3 T02S, R14W	T HAS BEEN TENATIVELY Map Index: 28742 /e occurrence 3311883) 118.35104 758465 E375170 / (S)	EO Index: Presence:	30040 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 100	1905-07-XX 1905-07-XX
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	AT RSA, BU UNKNOWN 30 Unknown Natural/Nativ Inglewood (3 Los Angeles 33.95930 / - ² Zone-11 N37 T02S, R14W INGLEWOO	T HAS BEEN TENATIVELY Map Index: 28742 /e occurrence 3311883) 118.35104 758465 E375170 / (S) D, NEAR LOS ANGELES.	EO Index: Presence: Trend:	30040 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 100	1905-07-XX 1905-07-XX



California Department of Fish and Wildlife



Occurrence No.	31	Map Index: 28743	EO Index:	30041		Element Last Seen:	1933-09-22
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1997-10-19
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	1998-08-27
Quad Summary:	Inglewood (3	3311883)					
County Summary:	Los Angeles	i					
Lat/Long:	33.95803 / -	118.26836			Accuracy:	2/5 mile	
UTM:	Zone-11 N3	758227 E382808			Elevation (ft):	125	
PLSS:	T02S, R13W	/, Sec. 32 (S)			Acres:	0.0	
Location:	LOS ANGEL	ES, VACANT LOT ON 87TH	I STREET NEA	R AVALON BI	LVD.		
Detailed Location:				-		ES. SITE AT 87TH STREET & PARK WHEN VISITED BY	
Ecological:							
General:		ASED ON 1933 COLLECTIO LY IDENTIFIED TO H. PARI	-			N H. PUNGENS FILE AT RSA	AND
Owner/Manager:	UNKNOWN						
Occurrence No.	37	Map Index: 35368	EO Index:	30042		Element Last Seen:	2008-XX-XX
Occ. Rank:	Good		Presence:	Presumed E	xtant	Site Last Seen:	2008-XX-XX
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	2019-02-08
Quad Summary:	Torrance (33	311873)					
County Summary:	Los Angeles	i					
Lat/Long:	33.7794 / -1	18.29182			Accuracy:	non-specific area	
UTM:	Zone-11 N3	738446 E380392			Elevation (ft):	20	
PLSS:							
	T05S, R13W	/, Sec. 6, NW (S)			Acres:	516.0	
Location:		/, Sec. 6, NW (S) R LAKE REGIONAL PARK A	ND AT THE NA	VAL DEFENS			
Location: Detailed Location:	AT HARBOR	R LAKE REGIONAL PARK A	NE POLYGONS	ARE SPECIF	E FUEL SUPPOR	T POINT. LOS ANGELES. ORDING TO A 2011 ICF MA	P. SW
	AT HARBOF 6 POLYGON POLYGON I IN NARROW IN ADDITIO	R LAKE REGIONAL PARK A NS MAPPED BY CNDDB. 5 N S NON-SPECIFIC, MAPPED V STRIP BETWEEN LOWER	NE POLYGONS D BY CNDDB T MARSH AND S, BASSIA HYS	S ARE SPECIF O COVER ALI MULE FAT / V	E FUEL SUPPOR FIC, MAPPED ACC OF THE DEFENS VILLOW ZONE. GF	T POINT. LOS ANGELES. ORDING TO A 2011 ICF MA	HLIS SPICATA
Detailed Location:	AT HARBOF 6 POLYGON I POLYGON I IN NARROW IN ADDITIO SEMIBACC/ HARBOR P/ RESTORED	R LAKE REGIONAL PARK A NS MAPPED BY CNDDB. 5 N S NON-SPECIFIC, MAPPED V STRIP BETWEEN LOWER N TO SALSOLA AUSTRALIS ATA, ANNUAL GRASSES, E ARK (NE POLYS): 1500-200	NE POLYGONS D BY CNDDB T MARSH AND S, BASSIA HYS TC. 0 PLANTS EST ANT OF SEEDS	S ARE SPECIF O COVER ALI MULE FAT / V SOPIFOLIA, E	E FUEL SUPPOR FIC, MAPPED ACC OF THE DEFENS VILLOW ZONE. GF BRASSICA NIGRA, 991, 95,640 ESTIM	T POINT. LOS ANGELES. ORDING TO A 2011 ICF MA SE FUEL SUPPORT POINT. ROWS MAINLY WITH DISTIC	HLIS SPICATA TRIPLEX
Detailed Location: Ecological:	AT HARBOF 6 POLYGON POLYGON I IN NARROW IN ADDITIOI SEMIBACC/ HARBOR P/ RESTORED FROM 2000	R LAKE REGIONAL PARK A NS MAPPED BY CNDDB. 5 N S NON-SPECIFIC, MAPPED V STRIP BETWEEN LOWER N TO SALSOLA AUSTRALIS ATA, ANNUAL GRASSES, E ARK (NE POLYS): 1500-2000 //CREATED FOR TRANSPL/	NE POLYGONS D BY CNDDB T MARSH AND S, BASSIA HYS TC. 0 PLANTS EST ANT OF SEEDS	S ARE SPECIF O COVER ALI MULE FAT / V SOPIFOLIA, E	E FUEL SUPPOR FIC, MAPPED ACC OF THE DEFENS VILLOW ZONE. GF BRASSICA NIGRA, 991, 95,640 ESTIM	T POINT. LOS ANGELES. ORDING TO A 2011 ICF MA SE FUEL SUPPORT POINT. ROWS MAINLY WITH DISTIC HIRSCHFELDIA INCANA, A ATED IN 2008, SOME HABIT	HLIS SPICATA TRIPLEX



California Department of Fish and Wildlife



Occurrence No.	43 Map Index: 97121	EO Index:	34585	Element Last Seen:	2010-09-30
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	2010-09-30
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2015-08-05
Quad Summary:	Torrance (3311873)				
County Summary:	Los Angeles				
Lat/Long:	33.82690 / -118.34180		Accuracy:	specific area	
UTM:	Zone-11 N3743773 E375832		Elevation (ft):	80	
PLSS:	T04S, R14W, Sec. 15, SW (S)		Acres:	20.0	
Location:	MADRONA MARSH NATURE PRE	ESERVE, NORTH OF	SEPULVEDA BLVD, BETWEEI	N MAPLE AVE AND MADRON	NA AVENUE.
Detailed Location:	MAPPED ACCORDING TO A MAP LARGER THAN CURRENTLY MA TO SURVEY.				
Ecological:	ALONG THE INNER AND OUTER WOODLAND, AND COASTAL SA		AL LARGE VERNAL POOLS. AN	INUAL GRASSLAND, WILLO	W
General:	SEVERAL THOUSAND PLANTS C ALSO ATTRIBUTED TO THIS OC				OLLECTION IS
Owner/Manager:	CITY OF TORRANCE-MADRONA	MARSH			
Occurrence No.	81 Map Index: 77193	EO Index:	78129	Element Last Seen:	2014-07-03
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	2014-07-03
	UTIKITUWIT				
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2015-08-07
Occ. Type: Quad Summary:			Unknown	Record Last Updated:	2015-08-07
	Natural/Native occurrence		Unknown	Record Last Updated:	2015-08-07
Quad Summary:	Natural/Native occurrence Torrance (3311873)		Unknown Accuracy:	Record Last Updated:	2015-08-07
Quad Summary: County Summary:	Natural/Native occurrence Torrance (3311873) Los Angeles				2015-08-07
Quad Summary: County Summary: Lat/Long:	Natural/Native occurrenceTorrance (3311873)Los Angeles33.84299 / -118.33022		Accuracy:	specific area	2015-08-07
Quad Summary: County Summary: Lat/Long: UTM:	Natural/Native occurrenceTorrance (3311873)Los Angeles33.84299 / -118.33022Zone-11 N3745543 E376926	Trend:	Accuracy: Elevation (ft): Acres:	specific area 65 11.0	2015-08-07
Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Natural/Native occurrence Torrance (3311873) Los Angeles 33.84299 / -118.33022 Zone-11 N3745543 E376926 T04S, R14W, Sec. 10, E (S)	Trend: D, BETWEEN W 208 F DOW CHEMICAL	Accuracy: Elevation (ft): Acres: ITH STREET AND DOMINGUEZ FACILITY, APPROXIMATELY 1.	specific area 65 11.0 STREET, TORRANCE.	
Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Natural/Native occurrence Torrance (3311873) Los Angeles 33.84299 / -118.33022 Zone-11 N3745543 E376926 T04S, R14W, Sec. 10, E (S) WEST SIDE OF CRENSHAW BLV TRIANGULAR PARCEL SOUTH C	Trend: D, BETWEEN W 208 F DOW CHEMICAL DRDING TO A 2014 H ANK FARM; SOIL SU NTAINED AS OPEN	Accuracy: Elevation (ft): Acres: TH STREET AND DOMINGUEZ FACILITY, APPROXIMATELY 1. HELIX MAP. JRFACE LARGELY COVERED E (WASTE) LAND. WITH BROMU	specific area 65 11.0 STREET, TORRANCE. 6 AIR MILES SOUTH OF 405 BY IMPORTED GRAVEL, BUT	FREEWAY.
Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Natural/Native occurrence Torrance (3311873) Los Angeles 33.84299 / -118.33022 Zone-11 N3745543 E376926 T04S, R14W, Sec. 10, E (S) WEST SIDE OF CRENSHAW BLV TRIANGULAR PARCEL SOUTH C MAPPED AS 3 POLYGONS ACCC HIGHLY DISTURBED FORMER T. PLANTS PERSISTING. NOW MAI	Trend: D, BETWEEN W 208 F DOW CHEMICAL DRDING TO A 2014 H ANK FARM; SOIL SU NTAINED AS OPEN GRANDIFLORA, ET	Accuracy: Elevation (ft): Acres: TH STREET AND DOMINGUEZ FACILITY, APPROXIMATELY 1. IELIX MAP. JRFACE LARGELY COVERED E (WASTE) LAND. WITH BROMUS	specific area 65 11.0 STREET, TORRANCE. 6 AIR MILES SOUTH OF 405 BY IMPORTED GRAVEL, BUT	FREEWAY.



California Department of Fish and Wildlife



Occurrence No.	85	Map Index: 86322	EO Index:	87361	Element Last Seen:	2009-07-13				
Occ. Rank:	Good		Presence:	Presumed Extant	Site Last Seen:	2009-07-13				
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown	Record Last Updated:	2012-07-12				
Quad Summary:	Torrance (33	311873)								
County Summary:	Los Angeles									
Lat/Long:	33.85474 / -	118.27864		Accuracy:	specific area					
UTM:	Zone-11 N37	746786 E381715		Elevation (ft):	5					
PLSS:	T04S, R13W	/, Sec. 06, E (S)		Acres:	150.0					
Location:	SCATTERE	D ALONG BOTH BANKS OF	DOMINGUEZ	CHANNEL ON BOTH SIDES OF	HWY 110, NORTH OF HWY	405.				
Detailed Location:	MAPPED AL	ONG 2.25 MILES OF THE C	CANAL ACCOR	DING TO 2009 UTM COORDIN	ATES PROVIDED BY LEATH	ERMAN.				
Ecological:	SALSOLA T	MAPPED ALONG 2.25 MILES OF THE CANAL ACCORDING TO 2009 UTM COORDINATES PROVIDED BY LEATHERMAN. BASE OF SLOPE. ASSOC W/ LEPIDIUM NITIDUM, CONYZA CANADENSIS, PICRIS ECHIOIDES, CHENOPODIUM ALBUM, SALSOLA TRAGUS, RAPHANUS SATIVUS, COTULA AUSTRALIS, AVENA BARBATA, A. FATUA, LOLIUM MULTIFLORUM, POLYPOGON MONSPELIENSIS, PHALARIS MINOR, ETC.								
General:	627 PLANTS	S OBSERVED IN 2009.								
Owner/Manager:	LAX COUNT	TY-DPW								
Occurrence No.	86	Map Index: 86323	EO Index:	87362	Element Last Seen:	2011-09-06				
		-								
Occ. Rank:	Fair		Presence:	Presumed Extant	Site Last Seen:	2011-09-06				
Occ. Rank: Occ. Type:		ve occurrence	Presence: Trend:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	2011-09-06 2012-07-12				
Осс. Туре:	Natural/Nativ	3311883)								
Occ. Type: Quad Summary:	Natural/Nativ	3311883)								
Occ. Type: Quad Summary: County Summary:	Natural/Nativ Inglewood (3 Los Angeles 33.90261 / -*	3311883)		Unknown	Record Last Updated:					
Occ. Type: Quad Summary: County Summary: Lat/Long:	Natural/Nativ Inglewood (3 Los Angeles 33.90261 / - ⁻ Zone-11 N3	3311883) 118.27270		Unknown Accuracy:	Record Last Updated: 80 meters					
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Natural/Nativ Inglewood (3 Los Angeles 33.90261 / Zone-11 N37 T03S, R13W OIL FIELD A	3311883) 118.27270 752087 E382331 /, Sec. 17, SW (S)	Trend:	Unknown Accuracy: Elevation (ft):	Record Last Updated: 80 meters 100 0.0	2012-07-12				
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Natural/Natin Inglewood (3 Los Angeles 33.90261 / - Zone-11 N37 T03S, R13W OIL FIELD A DISTRICT, S ACTIVE OIL	3311883) 118.27270 752087 E382331 /, Sec. 17, SW (S) NT THE NORTHEAST CORN SOUTH LOS ANGELES. . FIELD, PLANTS ARE LOCA		Unknown Accuracy: Elevation (ft): Acres:	Record Last Updated: 80 meters 100 0.0 EET INTERSECTION, ROSE CNDDB ACCORDING TO 20	2012-07-12 WOOD				
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Natural/Natin Inglewood (3 Los Angeles 33.90261 / - Zone-11 N37 T03S, R13W OIL FIELD A DISTRICT, S ACTIVE OIL	3311883) 118.27270 752087 E382331 /, Sec. 17, SW (S) NT THE NORTHEAST CORN SOUTH LOS ANGELES. . FIELD, PLANTS ARE LOCA		Unknown Accuracy: Elevation (ft): Acres: CRANS AND SOUTH MAIN STRI	Record Last Updated: 80 meters 100 0.0 EET INTERSECTION, ROSE CNDDB ACCORDING TO 20	2012-07-12 WOOD				
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Natural/Nativ Inglewood (3 Los Angeles 33.90261 / Zone-11 N37 T03S, R13W OIL FIELD A DISTRICT, S ACTIVE OIL COORDINAT OIL FIELD. 100-500 PLA	3311883) 118.27270 752087 E382331 /, Sec. 17, SW (S) NT THE NORTHEAST CORN SOUTH LOS ANGELES. . FIELD, PLANTS ARE LOCA TES PROVIDED BY COOPE	Trend: ER OF ROSEC ATED THROUG R; DATUM UN	Unknown Accuracy: Elevation (ft): Acres: CRANS AND SOUTH MAIN STRI GHOUT THE SITE. MAPPED BY IKNOWN, MAPPED TO ENCOM	Record Last Updated: 80 meters 100 0.0 EET INTERSECTION, ROSE CNDDB ACCORDING TO 20 PASS NAD27 AND NAD83 P	2012-07-12 WOOD 11 OINTS.				



California Department of Fish and Wildlife



Occurrence No.	95	Map Index: 97136	EO Index:	98383	Element Last Seen:	1930-11-04
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1930-11-04
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown	Record Last Updated:	2015-08-06
Quad Summary:	South Gate (3311882), Inglewood (3311	883)			
County Summary:	Los Angeles		,			
Lat/Long:	33.94023 / -1	18.24246		Accuracy:	4/5 mile	
UTM:	Zone-11 N37	56225 E385177		Elevation (ff):	
PLSS:	T03S, R13W	, Sec. 04 (S)		Acres:	0.0	
Location:	WATTS.					
Detailed Location:	EXACT LOC	ATION UNKNOWN. MAPPI	ED BY CNDDB	AS BEST GUESS AROUND	WATTS.	
Ecological:	WITH DISTIC	CHLIS, ISOCOMA, ATRIPLI	EX BRACTEOS	A, ETC.		
General:	ONLY SOUR	CE OF INFORMATION FO	R THIS SITE IS	A 1930 HALL COLLECTION	I.	
Owner/Manager:	UNKNOWN					
Occurrence No.	109	Map Index: B2305	EO Index:	114229		
					Flement Last Seen.	2016-07-XX
		Map muex. B2303			Element Last Seen: Site Last Seen:	2016-07-XX 2016-07-XX
Occ. Rank: Occ. Type:	Good	e occurrence	Presence: Trend:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	2016-07-XX 2016-07-XX 2019-02-12
Occ. Rank: Occ. Type:	Good Natural/Nativ	e occurrence	Presence:	Presumed Extant	Site Last Seen:	2016-07-XX
Occ. Rank:	Good	e occurrence	Presence:	Presumed Extant	Site Last Seen:	2016-07-XX
Occ. Rank: Occ. Type: Quad Summary:	Good Natural/Nativ Torrance (33	e occurrence 11873)	Presence:	Presumed Extant	Site Last Seen:	2016-07-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary:	Good Natural/Nativ Torrance (33 Los Angeles 33.79693 / -1	e occurrence 11873)	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated: specific area	2016-07-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	Good Natural/Nativ Torrance (33 Los Angeles 33.79693 / -1 Zone-11 N37	e occurrence 11873) 18.28961	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: specific area	2016-07-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Good Natural/Nativ Torrance (33 Los Angeles 33.79693 / -1 Zone-11 N37 T04S, R13W	e occurrence 11873) 18.28961 240388 E380621 , Sec. 30, SW (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ff	Site Last Seen: Record Last Updated: specific area): 17 1.0	2016-07-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Good Natural/Nativ Torrance (33 Los Angeles 33.79693 / -1 Zone-11 N37 T04S, R13W WILMINGTO	e occurrence 11873) 18.28961 240388 E380621 , Sec. 30, SW (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft Acres:	Site Last Seen: Record Last Updated: specific area): 17 1.0	2016-07-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Good Natural/Nativ Torrance (33 Los Angeles 33.79693 / -1 Zone-11 N37 T04S, R13W WILMINGTO MAPPED AC DISTURBED	e occurrence 11873) 18.28961 40388 E380621 , Sec. 30, SW (S) N DRAIN JUST SOUTH OF CORDING TO A 2011 ICF	Presence: Trend: 	Presumed Extant Unknown Accuracy: Elevation (fr Acres: LEVARD, BETWEEN I-110 A HELIOTROPIUM CURASSIV	Site Last Seen: Record Last Updated: specific area): 17 1.0	2016-07-XX 2019-02-12
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Good Natural/Nativ Torrance (33 Los Angeles 33.79693 / -1 Zone-11 N37 T04S, R13W WILMINGTO MAPPED AC DISTURBED INDICUS, AN 330 INDIVID	e occurrence 11873) 18.28961 40388 E380621 , Sec. 30, SW (S) N DRAIN JUST SOUTH OF CORDING TO A 2011 ICF ANNUAL GRASSLAND DO ND OTHER SPECIES. FLA	Presence: Trend: Trend: E LOMITA BOUI MAP. DMINATED BY T AREA NEAR F S. SITE WAS GR	Presumed Extant Unknown Accuracy: Elevation (ff Acres: LEVARD, BETWEEN I-110 A HELIOTROPIUM CURASSIV FENCE IN HEAVY SOIL. ADED SOMETIME BETWEE	Site Last Seen: Record Last Updated: specific area): 17 1.0 ND VERMONT AVENUE.	2016-07-XX 2019-02-12 ELILOTUS



California Natural Diversity Database



Element Code: PDAST4R0R4

Centromadia pungens ssp. laevis

smooth tarplant								
Listing Status:	Federal:	None		CNDDB Element Ran	ks: Global: G3G4T2			
	State:	None			State: S2			
	Other:	Rare Plant Rank - 1B.1, SB	_CalBG/RSABG	-California/Rancho Santa Ana Bo	otanic Garden			
Habitat:	General: VALLEY AND FOOTHILL GRASSLAND, CHENOPOD SCRUB, MEADOWS AND SEEPS, PLAYAS, RIPARIAN WOODLAND.							
	Micro:	ALKALI MEADOW, ALKALI	I SCRUB; ALSO	IN DISTURBED PLACES. 5-117	0 M.			
Occurrence No.	143	Map Index: 34592	EO Index:	113213	Element Last Seen:	1920-04-20		
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1920-04-20		
Осс. Туре:	Natural/N	ative occurrence	Trend:	Unknown	Record Last Updated:	2018-11-05		
Quad Summary:	San Pedr	o (3311863), Torrance (33118	73)					
County Summary:	Los Ange	les, Pacific Ocean						
Lat/Long:	33.73644	/ -118.28092		Accuracy:	1 mile			
UTM:	Zone-11	N3733670 E381341		Elevation (ft):				
PLSS:	T05S, R1	3W, Sec. 18 (S)		Acres:	0.0			
Location:	SAN PED	DRO.						
Detailed Location:	EXACT L	OCATION UNKNOWN. MAPP	PED BY CNDDB	IN THE GENERAL VICINITY OF	SAN PEDRO.			
Ecological:								
General:	ONLY SC	OURCE OF INFORMATION FO	OR THIS SITE IS	A 1920 EASTWOOD COLLECT	ION. NEEDS FIELDWORK.			
Owner/Manager:	UNKNOW	VN						

Isocoma menzi	iesii var. c	lecumbens				Eleme	nt Code: PDAS	ST57091
decumbent golde	nbush							
Listing Status:	Federal:	None		CNE	DDB Element Ranks	: Global:	G3G5T2T3	
	State:	None				State:	S2	
	Other:	Rare Plant Rank - 1B.2, BL	M_S-Sensitive, S	B_CRES-Sar	Diego Zoo CRES Na	ative Gene S	Seed Bank	
Habitat:	General:	COASTAL SCRUB, CHAPA	ARRAL.					
	Micro:	SANDY SOILS; OFTEN IN	DISTURBED SIT	ΓES. 1-915 M.				
Occurrence No.	101	Map Index: 26479	EO Index:	103371		Element	Last Seen:	1897-08-17
Occ. Rank:	None		Presence:	Extirpated		Site Last	Seen:	1897-08-17
Осс. Туре:	Natural/N	lative occurrence	Trend:	Unknown		Record L	ast Updated:	2016-09-08
Quad Summary:	San Pedr	ro (3311863), Long Beach (331	1872), Torrance	(3311873)				
County Summary:	Los Ange	eles, Pacific Ocean						
Lat/Long:	33.75713	8 / -118.23704			Accuracy:	1 mile		
UTM:	Zone-11 I	N3735914 E385434			Elevation (ft):			
PLSS:	T05S, R1	3W (S)			Acres:	0.0		
Location:	TERMINA	AL ISLAND.						
Detailed Location:	EXACT L	OCATION UNKNOWN. MAPP	ED AS BEST G	JESS AROUN	ID MAIN PORTION C	F TERMIN	AL ISLAND.	
Ecological:								
General:	ONLY SC	OURCE OF INFORMATION FO	OR THIS SITE IS	AN 1897 GR/	ANT COLLECTION.			
Owner/Manager:	UNKNOV	VN						





Lasthenia glabi	rata ssp. c	oulteri				Element Code: PDA	ST5L0A1
Coulter's goldfield	ds						
Listing Status:	Federal:	None		CND	DB Element Ran	ks: Global: G4T2	
	State:	None				State: S2	
	Other:	Rare Plant Rank - 1B.1, BL Santa Barbara Botanic Gard		SB_CalBG/RS/	ABG-California/Ra	ncho Santa Ana Botanic Garc	len, SB_SBBG-
Habitat:	General:	COASTAL SALT MARSHE	S, PLAYAS, VEF	RNAL POOLS.			
	Micro:	USUALLY FOUND ON ALK	ALINE SOILS IN	N PLAYAS, SIN	NKS, AND GRASS	LANDS. 1-1375 M.	
Occurrence No.	25	Map Index: 23784	EO Index:	25094		Element Last Seen:	1901-04-10
Occ. Rank:	None		Presence:	Possibly Exti	irpated	Site Last Seen:	1901-04-10
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown		Record Last Updated:	2010-12-07
Quad Summary:	Inglewood	(3311883)					
County Summary:	Los Angele	es					
Lat/Long:	33.98167 /	-118.33078			Accuracy:	1 mile	
UTM:	Zone-11 N	3760921 E377074			Elevation (ft):	160	
PLSS:	T02S, R14	W, Sec. 22 (S)			Acres:	0.0	
Location:	HYDE PAF	RK.					
Location: Detailed Location:		RK. DCATION UNKNOWN. MAPP	ED BY CNDDB	AS BEST GUE	ESS CENTERED C	ON HYDE PARK.	
			ED BY CNDDB	AS BEST GUE	ESS CENTERED C	DN HYDE PARK.	
Detailed Location:	EXACT LC		-				
Detailed Location: Ecological:	EXACT LC	CATION UNKNOWN. MAPP	-				
Detailed Location: Ecological: General:	EXACT LC	CATION UNKNOWN. MAPP	-				1917-04-11
Detailed Location: Ecological: General: Owner/Manager:	EXACT LC ONLY SOU UNKNOWI	OCATION UNKNOWN. MAPP JRCE OF INFORMATION FO	OR THIS SITE IS	A 1901 COLL	ECTION BY ABRA	AMS. NEEDS FIELDWORK.	1917-04-11 1917-04-11
Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	EXACT LC ONLY SOU UNKNOWI 26 None	OCATION UNKNOWN. MAPP JRCE OF INFORMATION FO	DR THIS SITE IS EO Index:	A 1901 COLL 24245	ECTION BY ABRA	AMS. NEEDS FIELDWORK.	
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	EXACT LC ONLY SOU UNKNOWI 26 None	CATION UNKNOWN. MAPP JRCE OF INFORMATION FO N Map Index: 80779 tive occurrence	DR THIS SITE IS EO Index: Presence:	A 1901 COLL 24245 Possibly Exti	ECTION BY ABRA	AMS. NEEDS FIELDWORK. Element Last Seen: Site Last Seen:	1917-04-11
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	EXACT LC ONLY SOU UNKNOWI 26 None Natural/Na	CATION UNKNOWN. MAPP URCE OF INFORMATION FO N Map Index: 80779 tive occurrence 3311873)	DR THIS SITE IS EO Index: Presence:	A 1901 COLL 24245 Possibly Exti	ECTION BY ABRA	AMS. NEEDS FIELDWORK. Element Last Seen: Site Last Seen:	1917-04-11
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	EXACT LC ONLY SOU UNKNOWI 26 None Natural/Na Torrance (3 Los Angele	CATION UNKNOWN. MAPP URCE OF INFORMATION FO N Map Index: 80779 tive occurrence 3311873)	DR THIS SITE IS EO Index: Presence:	A 1901 COLL 24245 Possibly Exti	ECTION BY ABRA	AMS. NEEDS FIELDWORK. Element Last Seen: Site Last Seen:	1917-04-11
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	EXACT LC ONLY SOU UNKNOWI 26 None Natural/Na Torrance (3 Los Angele 33.85124 /	CATION UNKNOWN. MAPP JRCE OF INFORMATION FO N Map Index: 80779 tive occurrence 3311873)	DR THIS SITE IS EO Index: Presence:	A 1901 COLL 24245 Possibly Exti	ECTION BY ABRA	AMS. NEEDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated:	1917-04-11
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	EXACT LC ONLY SOL UNKNOWI 26 None Natural/Na Torrance (3 Los Angele 33.85124 / Zone-11 N	CATION UNKNOWN. MAPP URCE OF INFORMATION FO N Map Index: 80779 tive occurrence 3311873) es -118.27455	DR THIS SITE IS EO Index: Presence:	A 1901 COLL 24245 Possibly Exti	ECTION BY ABRA	AMS. NEEDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated:	1917-04-11
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	EXACT LC ONLY SOL UNKNOWI 26 None Natural/Na Torrance (3 Los Angele 33.85124 / Zone-11 N T04S, R13	CATION UNKNOWN. MAPP JRCE OF INFORMATION FO N Map Index: 80779 tive occurrence 3311873) es -118.27455 3746393 E382089	EO Index: Presence: Trend:	A 1901 COLL 24245 Possibly Exti	ECTION BY ABRA irpated Accuracy: Elevation (ft):	AMS. NEEDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	1917-04-11
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	EXACT LC ONLY SOU UNKNOWI 26 None Natural/Na Torrance (3 Los Angele 33.85124 / Zone-11 N T04S, R13 DOMINGU EXACT LC	Map Index: 80779 Map Index: 80779 tive occurrence 3311873) 95 -118.27455 3746393 E382089 W, Sec. 06 (S) EZ SLOUGH, NEAR GARDE	DR THIS SITE IS EO Index: Presence: Trend:	A 1901 COLL 24245 Possibly Exti Unknown	ECTION BY ABRA irpated Accuracy: Elevation (ft): Acres:	AMS. NEEDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 0.0 DN HISTORIC LOCATION OF	1917-04-11 2010-11-22
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	EXACT LC ONLY SOU UNKNOWN 26 Natural/Na Torrance (3 Los Angele 33.85124 / Zone-11 N T04S, R13 DOMINGU EXACT LC SLOUGH.	CATION UNKNOWN. MAPP JRCE OF INFORMATION FC N Map Index: 80779 tive occurrence 3311873) 95 -118.27455 3746393 E382089 W, Sec. 06 (S) EZ SLOUGH, NEAR GARDE DCATION UNKNOWN. MAPP	DR THIS SITE IS EO Index: Presence: Trend:	A 1901 COLL 24245 Possibly Exti Unknown	ECTION BY ABRA irpated Accuracy: Elevation (ft): Acres:	AMS. NEEDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 0.0 DN HISTORIC LOCATION OF	1917-04-11 2010-11-22
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	EXACT LC ONLY SOU UNKNOWN 26 None Natural/Na Torrance (3 Los Angele 33.85124 / Zone-11 N T04S, R13 DOMINGU EXACT LC SLOUGH. GROWING SITE BASE	Map Index: 80779 Map Index: 80779 tive occurrence 3311873) 25 -118.27455 3746393 E382089 W, Sec. 06 (S) EZ SLOUGH, NEAR GARDE CATION UNKNOWN. MAPP SLOUGH WAS PART OF HIS 6 IN MOIST PASTURE.	EO Index: Presence: Trend:	A 1901 COLL 24245 Possibly Exti Unknown AS BEST GUE ERSHED OF I	ECTION BY ABRA irpated Accuracy: Elevation (ft): Acres: ESS CENTERED C LOS ANGELES RI	AMS. NEEDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 0.0 DN HISTORIC LOCATION OF	1917-04-11 2010-11-22



California Department of Fish and Wildlife



Occurrence No.	27	Map Index: 23785	EO Index:	30106		Element Last Seen:	1934-04-03
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1980-XX-XX
Осс. Туре:	Natural/Nati	ve occurrence	Trend:	Unknown		Record Last Updated:	2015-10-01
Quad Summary:	Venice (331	1884)					
County Summary:	Los Angeles	s, Pacific Ocean					
Lat/Long:	33.97291 / -	118.44837			Accuracy:	1 mile	
UTM:	Zone-11 N3	760097 E366198			Elevation (ft):		
PLSS:	T02S, R15V	V, Sec. 28 (S)			Acres:	0.0	
Location:	BALLONA N	/ARSHES.					
Detailed Location:		CATION UNKNOWN. MAPP OF BALLONA CREEK.	ED BY CNDDB	AS BEST GUE	ESS CENTERED (ON HISTORICAL BALLONA N	IARSH AREA
Ecological:		IN SALT MARSH. 1934 JOH GHED GROUND NOW OVE		CTION NOTES	THAT POPULAT	ION OCCURRED IN DENSE	PATCHES IN
0				NS FROM "BA	LLONA MARSHE	S." 1930 FOSBERG & 1933 J	OHNSON
General:	COLLECTIO		JOHNSON COL	LECTION "DEI	L REY HILLS, SAL	T MARSH" ATTRIBUTED TO	
General: Owner/Manager:		ONS "DEL REY" AND 1934	JOHNSON COL	LECTION "DEI	L REY HILLS, SAL	T MARSH" ATTRIBUTED TC	
		DNS "DEL REY" AND 1934 IN 1980 BUT NO LASTHE	JOHNSON COL	LECTION "DEI 81879	L REY HILLS, SAL	T MARSH" ATTRIBUTED TC	
Owner/Manager:	COLLECTIC SURVEYED DFG-BALLC	DNS "DEL REY" AND 1934 DIN 1980 BUT NO LASTHE DNA WETLANDS ER, PVT	JOHNSON COL NIA SEEN.) SITE. AREA
Owner/Manager: Occurrence No.	COLLECTIC SURVEYED DFG-BALLC 80 Unknown	DNS "DEL REY" AND 1934 DIN 1980 BUT NO LASTHE DNA WETLANDS ER, PVT	JOHNSON COL NIA SEEN. EO Index:	81879		Element Last Seen:	9 SITE. AREA 1973-06-15
Owner/Manager: Occurrence No. Occ. Rank:	COLLECTIC SURVEYED DFG-BALLC 80 Unknown	DNS "DEL REY" AND 1934 DIN 1980 BUT NO LASTHE DNA WETLANDS ER, PVT Map Index: 80900 ve occurrence	JOHNSON COL NIA SEEN. EO Index: Presence:	81879 Presumed E		Element Last Seen: Site Last Seen:	9 SITE. AREA 1973-06-15 1973-06-15
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	COLLECTIO SURVEYED DFG-BALLO 80 Unknown Natural/Nati	ONS "DEL REY" AND 1934 ONA WETLANDS ER, PVT Map Index: 80900 ve occurrence (3311872)	JOHNSON COL NIA SEEN. EO Index: Presence:	81879 Presumed E		Element Last Seen: Site Last Seen:	9 SITE. AREA 1973-06-15 1973-06-15
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	COLLECTIC SURVEYED DFG-BALLC 80 Unknown Natural/Nati	ONS "DEL REY" AND 1934 ONA WETLANDS ER, PVT Map Index: 80900 ve occurrence (3311872)	JOHNSON COL NIA SEEN. EO Index: Presence:	81879 Presumed E		Element Last Seen: Site Last Seen:	9 SITE. AREA 1973-06-15 1973-06-15
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	COLLECTIC SURVEYED DFG-BALLC 80 Unknown Natural/Nati Long Beach Los Angeles 33.84570 / -	ONS "DEL REY" AND 1934 ONA WETLANDS ER, PVT Map Index: 80900 ve occurrence (3311872)	JOHNSON COL NIA SEEN. EO Index: Presence:	81879 Presumed E	xtant	Element Last Seen: Site Last Seen: Record Last Updated:	9 SITE. AREA 1973-06-15 1973-06-15
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	COLLECTIC SURVEYED DFG-BALLC 80 Unknown Natural/Nati Long Beach Los Angeles 33.84570 / - Zone-11 N3	ONS "DEL REY" AND 1934 ONA WETLANDS ER, PVT Map Index: 80900 ve occurrence (3311872) 3 118.20445	JOHNSON COL NIA SEEN. EO Index: Presence:	81879 Presumed E	xtant Accuracy:	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	9 SITE. AREA 1973-06-15 1973-06-15
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	COLLECTIC SURVEYED DFG-BALLC 80 Unknown Natural/Nati Long Beach Los Angeles 33.84570 / - Zone-11 N3 T04S, R13V	DNS "DEL REY" AND 1934 DIN 1980 BUT NO LASTHE DNA WETLANDS ER, PVT Map Index: 80900 ve occurrence (3311872) 3 118.20445 745700 E388567 V, Sec. 11 (S)	JOHNSON COL NIA SEEN. EO Index: Presence: Trend:	81879 Presumed E Unknown	xtant Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 20	9 SITE. AREA 1973-06-15 1973-06-15 2010-12-20
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	COLLECTIC SURVEYED DFG-BALLC 80 Unknown Natural/Nati Long Beach Los Angeles 33.84570 / - Zone-11 N3 T04S, R13W WEST OF L ALONG OV	DNS "DEL REY" AND 1934 DIN 1980 BUT NO LASTHE DNA WETLANDS ER, PVT Map Index: 80900 ve occurrence (3311872) 5 118.20445 745700 E388567 V, Sec. 11 (S) OS ANGELES RIVER CHA	JOHNSON COL NIA SEEN. Presence: Trend: NNEL BETWEE	81879 Presumed E Unknown N LONG BEAC	xtant Accuracy: Elevation (ft): Acres: CH BLVD. AND DE APPED BY CNDDE	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 20 0.0	9 SITE. AREA 1973-06-15 1973-06-15 2010-12-20
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	COLLECTIC SURVEYED DFG-BALLC 80 Unknown Natural/Nati Long Beach Los Angeles 33.84570 / - Zone-11 N3 T04S, R13V WEST OF L ALONG OV LOS ANGEI	DNS "DEL REY" AND 1934 DIN 1980 BUT NO LASTHE DNA WETLANDS ER, PVT Map Index: 80900 ve occurrence (3311872) 5 118.20445 745700 E388567 V, Sec. 11 (S) .OS ANGELES RIVER CHA ERFLOW CHANNEL. EXAC	JOHNSON COL NIA SEEN. Presence: Trend: NNEL BETWEE CT LOCATION U NG BEACH BLV	81879 Presumed E Unknown NkNOWN BEAC	Accuracy: Elevation (ft): Acres: CH BLVD. AND DE APPED BY CNDDE MAR AVE.	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 20 0.0 EL MAR AVE, LONG BEACH. 3 AS BEST GUESS IN VICIN	9 SITE. AREA 1973-06-15 1973-06-15 2010-12-20
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	COLLECTIC SURVEYED DFG-BALLC 80 Unknown Natural/Nati Long Beach Los Angeles 33.84570 / - Zone-11 N3 T04S, R13V WEST OF L ALONG OV LOS ANGEL IN DISTURE ONLY SOU	ONS "DEL REY" AND 1934 ONA WETLANDS ER, PVT Map Index: 80900 ve occurrence (3311872) 3 118.20445 745700 E388567 V, Sec. 11 (S) OS ANGELES RIVER CHA ERFLOW CHANNEL. EXAC LES RIVER CHANNEL, LON BED WEEDY AREA WITH S	JOHNSON COL NIA SEEN. EO Index: Presence: Trend: NNEL BETWEE CT LOCATION U NG BEACH BLV SALSOLA SP., S DR THIS SITE IS	81879 Presumed E Unknown N LONG BEAC NKNOWN. MA D. AND DEL M TEPHANOME 5 A 1973 HENF	xtant Accuracy: Elevation (ft): Acres: CH BLVD. AND DE APPED BY CNDDE MAR AVE. RIA SP., GRASSE RICKSON COLLEC	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 20 0.0 EL MAR AVE, LONG BEACH. 3 AS BEST GUESS IN VICIN ES, ETC. CTION. COLLECTION STATE	D SITE. AREA 1973-06-15 1973-06-15 2010-12-20



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Occurrence No. Occ. Rank:										
Occ. Rank:	81	Map Index: 80349	EO Index:	81881	Element Last Seen:	1962-03-27				
	Unknown		Presence:	Presumed Extant	Site Last Seen:	1962-03-27				
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown	Record Last Updated	2019-05-06				
Quad Summary:	Torrance (33	11873)								
County Summary:	Los Angeles									
Lat/Long:	33.78887 / -1	18.28864		Accura	acy: 4/5 mile					
UTM:	Zone-11 N37	39493 E380698		Elevati	ion (ft):					
PLSS:	T04S, R13W	, Sec. 31 (S)		Acres:	0.0					
Location:	NORTHEAS ⁻	IORTHEAST OF BIXBY SLOUGH, NORTH OF WILMINGTON.								
Detailed Location:		ATION UNKNOWN. MAPPE ING MARSH AREAS. BIXB			HE VICINITY OF HARBOR LAKE AN	D				
Ecological:					IARSH WITH SALICORNIA SP.					
General:	ONLY SOUR	CE OF INFORMATION IS A	A 1962 RAVEN	COLLECTION. NEEDS	S FIELDWORK.					
Owner/Manager:	UNKNOWN									
Occurrence No.	83	Map Index: 01557	EO Index:	81892	Element Last Seen:	1930-01-20				
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1930-01-20				
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown	Record Last Updated	2010-11-30				
Quad Summary:	Venice (3311	884)								
County Summary:	Los Angeles,	Pacific Ocean								
Lat/Long:	33.91505 / -1	18.42810		Accura	acy: 1 mile					
UTM:	Zone-11 N37	'53655 E367981		Elevati	ion (ft):					
PLSS:	T03S, R15W	, Sec. 14 (S)		Acres:	0.0					
Location:	EL SEGUND	0.								
	EXACT LOC.	ATION UNKNOWN. MAPPE	D BY CNDDB	AS BEST GUESS CEN	ITERED ON EL SEGUNDO COASTLI	NE.				
Detailed Location:										
Detailed Location: Ecological:										
	ONLY SOUR	CE OF INFORMATION IS A	A 1930 DAVIDS	ON COLLECTION. NE	EDS FIELDWORK.					
Ecological:	ONLY SOUR UNKNOWN	CE OF INFORMATION IS A	A 1930 DAVIDS	ON COLLECTION. NE	EDS FIELDWORK.					
Ecological: General: Owner/Manager:	UNKNOWN	CE OF INFORMATION IS A	A 1930 DAVIDS	ON COLLECTION. NE						
Ecological: General:	UNKNOWN	CE OF INFORMATION IS #	A 1930 DAVIDS	ON COLLECTION. NE	EDS FIELDWORK. Element Code: PD/	AST6X060				

Listing Status:	Federal:	Endangered	CNDDB Element Ranks:	Global:	G1
	State:	Endangered		State:	S1
	Other:	Rare Plant Rank - 1B.1, SB_CalBG/RSABG-Californi	a/Rancho Santa Ana Botani	c Garden	
Habitat:	General:	CHAPARRAL, VALLEY AND FOOTHILL GRASSLAN	ID, COASTAL SCRUB.		
	Micro:	EDGES OF CLEARINGS IN CHAPARRAL, USUALL OR EDGES OF FIREBREAKS. 30-670 M.	Y AT THE ECOTONE BETW	/EEN GR/	ASSLAND AND CHAPARRAL



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Occurrence No.	1 Map Index: 01943	EO Index:	16675	Element Last Seen:	1910-03-21
Occ. Rank:	None	Presence:	Possibly Extirpated	Site Last Seen:	1997-XX-XX
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2008-09-24
Quad Summary:	San Pedro (3311863)				
County Summary:	Los Angeles, Pacific Ocean				
Lat/Long:	33.70639 / -118.29341		Accuracy:	1/5 mile	
UTM:	Zone-11 N3730352 E380142		Elevation (ft):	100	
PLSS:	T05S, R13W, Sec. 30 (S)		Acres:	0.0	
Location:	POINT FERMIN, SAN PEDRO.				
Detailed Location:	A 1899 BRANDEGEE COLLECTION FRO MENTIONS THAT THE PLANT WAS LAS DATE.	-			-
Ecological:					
General:	SITE MAPPED ACCORDING TO TWO 19 UNABLE TO LOCATE IN 1997, PRESUM				-
Owner/Manager:	UNKNOWN				
Occurrence No.	2 Map Index: 34591	EO Index:	48785	Element Last Seen:	1884-07-XX
Occ. Rank:	None	Presence:	Possibly Extirpated	Site Last Seen:	1994-XX-XX
Осс. Туре:	Natural/Native occurrence	Trend:	Decreasing	Record Last Updated:	2012-10-02
Quad Summary:	San Pedro (3311863), Torrance (3311873	3)			
County Summary:	Los Angeles				
Lat/Long:	33.74588 / -118.33602		Accuracy:	1 mile	
UTM:	Zone-11 N3734781 E376250		Elevation (ft):		
PLSS:	T05S, R14W, Sec. 15 (S)		Acres:	0.0	
Location:	PALOS VERDES MT (=SAN PEDRO HIL	LS).			
Detailed Location:	EXACT LOCATION UNKNOWN. MAPPE	D AT SAN PEI	DRO HILL AND SURROUNDING	S BY CNDDB.	
Ecological:					
General:	TYPE LOCALITY. ONLY SOURCES OF I THOMAS MENTIONS THAT HE SAW NO				TIONS.
Owner/Manager:	UNKNOWN				



California Department of Fish and Wildlife



Occurrence No.	7 Map Index: 39864	EO Index:	48741		Element Last Seen:	XXXX-XX-XX
Occ. Rank:	None	Presence:	Possibly Extir	pated	Site Last Seen:	XXXX-XX-XX
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown		Record Last Updated:	2002-09-06
Quad Summary: County Summary:	Long Beach (3311872), Torrance (331187 Los Angeles, Pacific Ocean	73)				
Lat/Long:	33.79001 / -118.24785			Accuracy:	1 mile	
UTM:	Zone-11 N3739572 E384477			Elevation (ft):		
PLSS:	T04S, R13W, Sec. 33 (S)			Acres:	0.0	
Location:	WILMINGTON.					
Detailed Location:						
Ecological:						
General:	LOCATION BASED UPON OLD (UNDAT ACCORDING TO FOTHERINGHAM. HIS				N PRESUMABLY EXTIRPAT	ED
Owner/Manager:	UNKNOWN					



California Natural Diversity Database



San Bernardino a	im defoliat aster					Element Code: PDA	
Listing Status:	Federal:	None		CNI	DDB Element Ran	ks: Global: G2	
	State:	None				State: S2	
	Other:	Rare Plant Rank - 1B.2, SB CRES Native Gene Seed B			ncho Santa Ana Bo	otanic Garden, SB_CRES-Sa	n Diego Zoo
Habitat:	General:	FOREST, MARSHES AND	SWAMPS, VALL	EY AND FOC	THILL GRASSLAN		
	Micro:	VERNALLY MESIC GRASS	SLAND OR NEA	R DITCHES, S	STREAMS AND SP	RINGS; DISTURBED AREAS	S. 3-2045 M.
Occurrence No.	28	Map Index: 80779	EO Index:	60571		Element Last Seen:	1930-10-18
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1930-10-18
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2010-11-24
Quad Summary:	Torrance (3311873)					
County Summary:	Los Angele	es					
.at/Long:	33.85124 /	/ -118.27455			Accuracy:	1 mile	
JTM:	Zone-11 N	I3746393 E382089			Elevation (ft):		
PLSS:	T04S, R13	3W, Sec. 06 (S)			Acres:	0.0	
ocation:	LAGUNA I	DOMINGUEZ, GARDENA.					
	EXA OT LO						
Detailed Location:		DCATION UNKNOWN. MAPP AS LAGUNA DOMINGUEZ. S INE.					
	KNOWN A LONG GO	S LAGUNA DOMINGUEZ. S					
Ecological:	KNOWN A LONG GO DRY BOT	AS LAGUNA DOMINGUEZ. S INE.	LOUGH WAS PA	ART OF HISTO	ORICAL WATERSH	HED OF LOS ANGELES RIVI	
Ecological: General:	KNOWN A LONG GO DRY BOT	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO	LOUGH WAS PA	ART OF HISTO	ORICAL WATERSH	HED OF LOS ANGELES RIVI	
Ecological: General: Owner/Manager:	KNOWN A LONG GO DRY BOT ONLY SOI	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO	LOUGH WAS PA	ART OF HISTO	ORICAL WATERSH	HED OF LOS ANGELES RIVI	
Ecological: General: Dwner/Manager: Dccurrence No.	KNOWN A LONG GO DRY BOT ONLY SOI UNKNOW	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO	LOUGH WAS PA	ART OF HISTO	ORICAL WATERSH	HED OF LOS ANGELES RIVI	ER, NOW
Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank:	KNOWN A LONG GO DRY BOT ONLY SOI UNKNOW 76 None	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO	LOUGH WAS PA DR THIS SITE IS EO Index:	ART OF HIST(A 1930 FOSE 79628	ORICAL WATERSH	HED OF LOS ANGELES RIVI	ER, NOW 1932-07-07
Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type:	KNOWN A LONG GO DRY BOT ONLY SOI UNKNOW 76 None Natural/Na	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO N Map Index: 78718	LOUGH WAS PA DR THIS SITE IS EO Index: Presence:	ART OF HIST(A 1930 FOSE 79628 Extirpated	ORICAL WATERSH	HED OF LOS ANGELES RIVI ON. Element Last Seen: Site Last Seen:	ER, NOW 1932-07-07 1932-07-07
Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary:	KNOWN A LONG GO DRY BOT ONLY SOI UNKNOW 76 None Natural/Na	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO N Map Index: 78718 ative occurrence	LOUGH WAS PA DR THIS SITE IS EO Index: Presence:	ART OF HIST(A 1930 FOSE 79628 Extirpated	ORICAL WATERSH	HED OF LOS ANGELES RIVI ON. Element Last Seen: Site Last Seen:	ER, NOW 1932-07-07 1932-07-07
Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary:	KNOWN A LONG GO DRY BOT ONLY SOI UNKNOW 76 None Natural/Na Long Beac Los Angele	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO N Map Index: 78718 ative occurrence	LOUGH WAS PA DR THIS SITE IS EO Index: Presence:	ART OF HIST(A 1930 FOSE 79628 Extirpated	ORICAL WATERSH	HED OF LOS ANGELES RIVI ON. Element Last Seen: Site Last Seen:	ER, NOW 1932-07-07 1932-07-07
Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long:	KNOWN A LONG GO DRY BOT ONLY SOU UNKNOW 76 None Natural/Na Long Beac Los Angele 33.78852 /	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO N Map Index: 78718 ative occurrence ch (3311872) es	LOUGH WAS PA DR THIS SITE IS EO Index: Presence:	ART OF HIST(A 1930 FOSE 79628 Extirpated	DRICAL WATERSH	HED OF LOS ANGELES RIVI ON. Element Last Seen: Site Last Seen: Record Last Updated:	ER, NOW 1932-07-07 1932-07-07
Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long: JTM:	KNOWN A LONG GO DRY BOT ONLY SOU UNKNOW 76 None Natural/Na Long Beac Los Angela 33.78852 / Zone-11 N	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FON Map Index: 78718 Ative occurrence Sch (3311872) es	LOUGH WAS PA DR THIS SITE IS EO Index: Presence:	ART OF HIST(A 1930 FOSE 79628 Extirpated	DRICAL WATERSH BERG COLLECTIO	HED OF LOS ANGELES RIVI ON. Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile	ER, NOW 1932-07-07 1932-07-07
Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long: JTM: PLSS:	KNOWN A LONG GO DRY BOT ONLY SOU UNKNOW 76 None Natural/Na Long Beac Los Angele 33.78852 / Zone-11 N T04S, R12	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO N Map Index: 78718 ative occurrence ch (3311872) es / -118.13883 I3739290 E394568	LOUGH WAS PA DR THIS SITE IS EO Index: Presence: Trend:	ART OF HISTO A 1930 FOSE 79628 Extirpated Unknown	DRICAL WATERSH BERG COLLECTIO Accuracy: Elevation (ft): Acres:	HED OF LOS ANGELES RIVI	ER, NOW 1932-07-07 1932-07-07
Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long: JTM: PLSS: Location:	KNOWN A LONG GO DRY BOT ONLY SOU UNKNOW 76 None Natural/Na Long Beac Los Angela 33.78852 / Zone-11 N T04S, R12 BRYANT F MAPPED	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FON Map Index: 78718 ative occurrence ch (3311872) es / -118.13883 I3739290 E394568 2W, Sec. 33, NE (S)	LOUGH WAS PA DR THIS SITE IS EO Index: Presence: Trend: W OF HANSEN I W OF HANSEN I	ART OF HISTO A 1930 FOSE 79628 Extirpated Unknown RD, LONG BE NW1/4 OF NE	Accuracy: Elevation (ft): ACH. 21/4 OF SECTION 3	HED OF LOS ANGELES RIVI ON. Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 20 0.0 33" AS STATED ON COLLEC	ER, NOW 1932-07-07 1932-07-07 2010-04-28
Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: County Summary: Lat/Long: JTM: PLSS: Location: Detailed Location:	KNOWN A LONG GO DRY BOT ONLY SOU UNKNOW 76 None Natural/Na Long Beac Los Angele 33.78852 / Zone-11 N T04S, R12 BRYANT F MAPPED I UNABLE T	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO N Map Index: 78718 ative occurrence ch (3311872) es (-118.13883 (3739290 E394568 2W, Sec. 33, NE (S) RANCH; BIXBY AVE, 1.3 MI N BY CNDDB "~0.2 MI E OF SN	LOUGH WAS PA DR THIS SITE IS EO Index: Presence: Trend: W OF HANSEN I W CORNER OF R "HANSEN RD"	ART OF HISTO A 1930 FOSE 79628 Extirpated Unknown RD, LONG BE NW1/4 OF NE	Accuracy: Elevation (ft): ACH. 21/4 OF SECTION 3	HED OF LOS ANGELES RIVI ON. Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 20 0.0 33" AS STATED ON COLLEC	ER, NOW 1932-07-07 1932-07-07 2010-04-28
Ecological: General: Dwner/Manager: Dccurrence No. Dcc. Rank: Dcc. Type: Quad Summary: County Summary: Lat/Long: JTM: PLSS: Location: Detailed Location: Ecological:	KNOWN A LONG GO DRY BOT ONLY SOU UNKNOW 76 None Natural/Na Long Beac Los Angele 33.78852 / Zone-11 N T04S, R12 BRYANT F MAPPED UNABLE T EDGE OF	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO N Map Index: 78718 Ative occurrence ch (3311872) es / -118.13883 I3739290 E394568 2W, Sec. 33, NE (S) RANCH; BIXBY AVE, 1.3 MI N BY CNDDB "~0.2 MI E OF SV TO LOCATE "BIXBY AVE" OF	LOUGH WAS PA DR THIS SITE IS EO Index: Presence: Trend: W OF HANSEN I W CORNER OF R "HANSEN RD" 1.	ART OF HISTO ART OF HISTO 79628 Extirpated Unknown RD, LONG BE NW1/4 OF NE , THESE ROA	Accuracy: Elevation (ft): ACTES: ACH. 1/4 OF SECTION : D NAMES ARE FR	HED OF LOS ANGELES RIVI ON. Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 20 0.0 33" AS STATED ON COLLEC	ER, NOW 1932-07-07 1932-07-07 2010-04-28
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location: Ecological: General: Owner/Manager:	KNOWN A LONG GO DRY BOT ONLY SOU UNKNOW 76 None Natural/Na Long Beac Los Angele 33.78852 / Zone-11 N T04S, R12 BRYANT F MAPPED UNABLE T EDGE OF	AS LAGUNA DOMINGUEZ. S INE. TOM OF SLOUGH. URCE OF INFORMATION FO N Map Index: 78718 Ative occurrence ch (3311872) es (-118.13883 13739290 E394568 2W, Sec. 33, NE (S) RANCH; BIXBY AVE, 1.3 MI N BY CNDDB "~0.2 MI E OF SN TO LOCATE "BIXBY AVE, 1.3 MI N BY CNDDB "~0.2 MI E OF SN TO LOCATE "BIXBY AVE, 0F FIELD IN DRAINAGE DITCH URCE OF INFORMATION FO	LOUGH WAS PA DR THIS SITE IS EO Index: Presence: Trend: W OF HANSEN I W CORNER OF R "HANSEN RD" 1.	ART OF HISTO ART OF HISTO 79628 Extirpated Unknown RD, LONG BE NW1/4 OF NE , THESE ROA	Accuracy: Elevation (ft): ACTES: ACH. 1/4 OF SECTION : D NAMES ARE FR	HED OF LOS ANGELES RIVI ON. Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 20 0.0 33" AS STATED ON COLLEC	ER, NOW 1932-07-07 1932-07-07 2010-04-28

 State:
 Threatened
 State:
 S1

 Other:
 Rare Plant Rank - 1B.1, SB_SBBG-Santa Barbara Botanic Garden
 S1

Habitat: General: COASTAL DUNES, COASTAL SCRUB.

Commercial Version -- Dated February, 28 2021 -- Biogeographic Data Branch Report Printed on Tuesday, March 16, 2021



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	Micro:	SEA SHORES, ON SAND I	DUNES, AND SA	ANDY PLACES	S NEAR THE SHO	RE. 3-60 M.	
Occurrence No.	2	Map Index: 01655	EO Index:	20545		Element Last Seen:	1902-05-25
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1998-07-01
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2012-08-07
Quad Summary:	Redondo I	Beach (3311874), Venice (33 [.]	11884)				
County Summary:	Los Angel	es, Pacific Ocean					
Lat/Long:	33.86695	/ -118.40396			Accuracy:	1 mile	
UTM:	Zone-11 N	13748290 E370140			Elevation (ft):	20	
PLSS:	T03S, R15	5W, Sec. 36 (S)			Acres:	0.0	
Location:	HERMOS	A BEACH, 2 MILES NORTH (OF REDONDO.				
Detailed Location:		OCATION UNKNOWN. MAPP EAR REDONDO," "REDONDO					COLLECTIONS
Ecological:	SAND DU	NES.					
General:		CALITY. OCCURRENCE IS B ORDING TO P. AIGNER; SU					
Owner/Manager:	UNKNOW	Ń				ENDEST ENINGUER IN 1990	
Owner/Manager: Occurrence No.	UNKNOW	N Map Index: 01557	EO Index:	20552		Element Last Seen:	1934-05-09
Occurrence No.	3 None		EO Index:	20552		Element Last Seen:	1934-05-09
Occurrence No. Occ. Rank:	3 None	Map Index: 01557	EO Index: Presence:	20552 Extirpated		Element Last Seen: Site Last Seen:	1934-05-09 1998-07-01
Occurrence No. Occ. Rank: Occ. Type:	3 None Natural/Na Venice (33	Map Index: 01557	EO Index: Presence:	20552 Extirpated		Element Last Seen: Site Last Seen:	1934-05-09 1998-07-01
Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	3 None Natural/Na Venice (33 Los Angel	Map Index: 01557 ative occurrence 311884)	EO Index: Presence:	20552 Extirpated	Accuracy:	Element Last Seen: Site Last Seen:	1934-05-09 1998-07-01
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	3 None Natural/Na Venice (33 Los Angel 33.91505 /	Map Index: 01557 ative occurrence 311884) es, Pacific Ocean	EO Index: Presence:	20552 Extirpated		Element Last Seen: Site Last Seen: Record Last Updated:	1934-05-09 1998-07-01
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	3 None Natural/Na Venice (33 Los Angel 33.91505 Zone-11 N	Map Index: 01557 ative occurrence 311884) es, Pacific Ocean / -118.42810	EO Index: Presence:	20552 Extirpated	Accuracy:	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile	1934-05-09 1998-07-01
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	3 None Natural/Na Venice (33 Los Angel 33.91505 Zone-11 N	Map Index: 01557 ative occurrence 311884) es, Pacific Ocean / -118.42810 V3753655 E367981 5W, Sec. 14 (S)	EO Index: Presence:	20552 Extirpated	Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 10	1934-05-09 1998-07-01
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	3 None Natural/Na Venice (33 Los Angel 33.91505 Zone-11 N T03S, R15 EL SEGUI	Map Index: 01557 ative occurrence 311884) es, Pacific Ocean / -118.42810 V3753655 E367981 5W, Sec. 14 (S)	EO Index: Presence: Trend:	20552 Extirpated Unknown	Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 10 0.0	1934-05-09 1998-07-01
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	3 None Natural/Na Venice (33 Los Angel 33.91505 Zone-11 N T03S, R15 EL SEGUI EXACT LO	Map Index: 01557 ative occurrence 311884) es, Pacific Ocean / -118.42810 43753655 E367981 5W, Sec. 14 (S) NDO.	EO Index: Presence: Trend:	20552 Extirpated Unknown	Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 10 0.0	1934-05-09 1998-07-01
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	3 None Natural/Na Venice (33 Los Angel 33.91505 Zone-11 N T03S, R15 EL SEGUI EXACT LO IN ESTAB COLLECT VERDES	Map Index: 01557 ative occurrence 311884) es, Pacific Ocean / -118.42810 k3753655 E367981 5W, Sec. 14 (S) NDO. DCATION UNKNOWN. MAPP	EO Index: Presence: Trend: PED BY CNDDB R STRAND. 34. EXTIRPATEI IAL HABITAT R	20552 Extirpated Unknown IN THE GENE	Accuracy: Elevation (ft): Acres: RAL VICINITY OF	Element Last Seen: Site Last Seen: Record Last Updated: 1 mile 10 0.0 EL SEGUNDO.	1934-05-09 1998-07-01 2012-08-07



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Occurrence No.	4 Map Index: 23785	EO Index:	35194	Element Last Seen:	1903-04-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1903-04-XX
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	1998-11-17
Quad Summary:	Venice (3311884)				
County Summary:	Los Angeles, Pacific Ocean				
Lat/Long:	33.97291 / -118.44837		Accuracy:	1 mile	
UTM:	Zone-11 N3760097 E366198		Elevation (ft):		
PLSS:	T02S, R15W, Sec. 28 (S)		Acres:	0.0	
Location:	BALLONA, PLAYA DEL REY.				
Detailed Location:	EXACT LOCATION UNKNOWN. MAP PLAYA DEL REY.	PED AS BEST G	UESS BY CNDDB IN THE VICIN	IITY OF BALLONA MARSHES	S, NORTH OF
Ecological:					
General:	ONLY SOURCE OF INFORMATION F	OR THIS OCCUP	RRENCE IS A 1903 COLLECTIO	N BY BRAUNTON. NEEDS F	IELDWORK.
Owner/Manager:	UNKNOWN				
Occurrence No.	11 Map Index: 40194	EO Index:	35196	Element Last Seen:	1884-07-XX
Occ. Rank:	Unknown	Presence:	Presumed Extant	Site Last Seen:	1884-07-XX
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2015-05-15
Quad Summary:	Venice (3311884), Beverly Hills (34118	314), Topanga (34	411815)		
County Summary:	Los Angeles, Pacific Ocean				
Lat/Long:	34.01281 / -118.49073		Accuracy:	1 mile	
UTM:	Zone-11 N3764578 E362349		Elevation (ft):	20	
PLSS:	T02S, R15W, Sec. 07 (S)		Acres:	0.0	
Location:	DUNES OF COAST NEAR SANTA MO	ONICA.			
Detailed Location:	EXACT LOCATION UNKNOWN. MAP	PED BY CNDDB	NEAR THE BEACHES WEST O	F SANTA MONICA.	
Ecological:	COASTAL DUNES.				
General:	ONLY SOURCE OF INFORMATION F	OR THIS SITE IS	AN 1884 LYON COLLECTION.	NEEDS FIELDWORK.	
Owner/Manager:	UNKNOWN				
Aphanisma blito	pides			Element Code: PDCI	HE02010
aphanisma Listing Status:	Federal: None		CNDDB Element Ran	ks: Global: G3G4	

Listing Status:	Federal:	None	CNDDB Element Ranks:	Global:	G3G4
	State:	None		State:	S2
	Other:	Rare Plant Rank - 1B.2, SB_SBBG-Santa Barbara Bo	tanic Garden		
Habitat:	General:	COASTAL BLUFF SCRUB, COASTAL DUNES,	STAL SCRUB.		
	Micro:	ON BLUFFS AND SLOPES NEAR THE OCEAN IN SA	ANDY OR CLAY SOILS. 3-3	305 M.	



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Occurrence No.	1 Map I	Index: 37104	EO Index:	12882		Element Last Seen:	2015-01-09
Occ. Rank:	Good		Presence:	Presumed E	xtant	Site Last Seen:	2015-01-09
Осс. Туре:	Natural/Native occurr	ence	Trend:	Unknown		Record Last Updated:	2016-05-31
Quad Summary:	San Pedro (3311863))					
County Summary:	Los Angeles						
Lat/Long:	33.72737 / -118.348				Accuracy:	specific area	
UTM:	Zone-11 N3732743 E	375115			Elevation (ft):	100	
PLSS:	T05S, R14W, Sec. 27	1 (S)			Acres:	60.0	
Location:	PALOS VERDES PE	NINSULA; FROM NE	EAR PORTUG	UESE BEND S	SOUTHWARD TO I	NEAR ROYAL PALMS BEAC	H PARK.
Detailed Location:	SCATTERED COLOR OCEAN TRAILS RES					ORTION OF OCCURRENCE	WITHIN
Ecological:		A, CALANDRINIA M	ARITIMA, DUI			THE MARITIMA, LYCIUM CAI DRALIS, O. PROLIFERA, MIF	
General:		1995. 1350+ PLANT				CCESSIBILITY. FOUND IN 19 , 2001, AND 2010 (100 PLAN	
Owner/Manager:	PVT, OTHERS						
Occurrence No.	5 Map I	Index: 17565	EO Index:	11724		Element Last Seen:	1930-04-XX
Occ. Rank:	Unknown		Presence:	Presumed E	xtant	Site Last Seen:	1930-04-XX
Осс. Туре:	Natural/Native occurr	ence	Trend:	Unknown		Record Last Updated:	1991-10-07
Quad Summary:	Redondo Beach (331	1874)					
County Summary:	Los Angeles						
Lat/Long:	33.77685 / -118.3959	92			Accuracy:	1 mile	
UTM:	Zone-11 N3738289 E	370748			Elevation (ft):	1000	
PLSS:	T05S, R14W, Sec. 06	6 (S)			Acres:	0.0	
Location:	PALOS VERDES HIL	LS.					
Detailed Location:	EXACT LOCATION U	JNKNOWN. MAPPE	D BY CNDDB	IN THE VICINI	TY OF PALOS VE	RDES HILLS.	
Ecological:							
General:	ONLY SOURCE OF	INFORMATION FOR	THIS SITE IS	A 1930 CATE	Y COLLECTION. N	NEEDS FIELDWORK.	
Owner/Manager:	UNKNOWN						



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O a a suma mara Na	04 Man Indows 44075		44075		0045 04 05
Occurrence No. Occ. Rank:	31 Map Index: 41675 Fair	EO Index: Presence:	41675 Presumed Extant	Element Last Seen: Site Last Seen:	2015-01-05 2015-01-05
Occ. Type:	Pail Natural/Native occurrence	Trend:		Record Last Updated:	2015-01-05
		Trend.	Unknown	Record Last opdated.	2010-03-11
Quad Summary:	San Pedro (3311863)				
County Summary:	Los Angeles				
Lat/Long:	33.73867 / -118.37326		Accuracy:	specific area	
UTM:	Zone-11 N3734027 E372791		Elevation (ft):	100	
PLSS:	T05S, R14W, Sec. 17, S (S)		Acres:	3.0	
Location:	ABALONE COVE NEAR PORTUGUESE	POINT, PALO	S VERDES PENINSULA.		
Detailed Location:	MAPPED AS 3 POLYGONS ACCORDIN	G TO 2015 UE	LMAN COORDINATES.		
Ecological:	SOUTHERN CALIFORNIA COASTAL BL INTEGRIFOLIA, ENCELIA CALIFORNIC ROCK.				
General:	1 PLANT OBSERVED AT WEST END O HAD 5+ PLANTS, AND EASTERN POLY			N HAD 150+ PLANTS, MIDDL	E POLYGON
Owner/Manager:	CITY OF RANCHO PALOS VERDES				
Occurrence No.	47 Map Index: 75742		76611		
		EO Index:	76611	Element Last Seen:	2005-04-08
Occ. Rank:	Unknown	Presence:	Presumed Extant	Element Last Seen: Site Last Seen:	2005-04-08 2005-04-08
Occ. Rank: Occ. Type:					
	Unknown	Presence:	Presumed Extant	Site Last Seen:	2005-04-08
Осс. Туре:	Unknown Natural/Native occurrence	Presence:	Presumed Extant	Site Last Seen:	2005-04-08
Occ. Type: Quad Summary:	Unknown Natural/Native occurrence Redondo Beach (3311874)	Presence:	Presumed Extant	Site Last Seen:	2005-04-08
Occ. Type: Quad Summary: County Summary:	Unknown Natural/Native occurrence Redondo Beach (3311874) Los Angeles	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	2005-04-08
Occ. Type: Quad Summary: County Summary: Lat/Long:	Unknown Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.7389 / -118.39989	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: 80 meters	2005-04-08
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Unknown Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.7389 / -118.39989 Zone-11 N3734087 E370324	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 80 meters 100	2005-04-08
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Unknown Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.7389 / -118.39989 Zone-11 N3734087 E370324 T05S, R15W, Sec. 13, SE (S)	Presence: Trend: RINELAND SIT	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: TE ON LONG POINT. ENTE. MAPPED USING COORD	Site Last Seen: Record Last Updated: 80 meters 100 5.0	2005-04-08 2016-05-11
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Unknown Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.7389 / -118.39989 Zone-11 N3734087 E370324 T05S, R15W, Sec. 13, SE (S) PALOS VERDES PENINSULA; OLD MA ON LONG POINT AND BLUFFS TOWAF COLLECTION LABEL; DATUM AND PRI	Presence: Trend: RINELAND SIT RD POINT VICE ECISION OF C PES TOWARD	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: TE ON LONG POINT. ENTE. MAPPED USING COORD OORDINATES IS UNKNOWN, M	Site Last Seen: Record Last Updated: 80 meters 100 5.0 MINATES FROM 2005 SANDE MAPPED CENTERED BETWE	2005-04-08 2016-05-11 RS EN NAD 27
Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Unknown Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.7389 / -118.39989 Zone-11 N3734087 E370324 T05S, R15W, Sec. 13, SE (S) PALOS VERDES PENINSULA; OLD MA ON LONG POINT AND BLUFFS TOWAF COLLECTION LABEL; DATUM AND PRI AND NAD 83. MOSTLY DISTURBED AREAS; ON SLO	Presence: Trend: Trend: RINELAND SIT RD POINT VICE ECISION OF C PES TOWARD SISTING WITH	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: TE ON LONG POINT. ENTE. MAPPED USING COORD OORDINATES IS UNKNOWN, M POINT VICENTE, BUT ALSO IN OUT CARE SINCE 1987.	Site Last Seen: Record Last Updated: 80 meters 100 5.0 NATES FROM 2005 SANDE MAPPED CENTERED BETWE N NATIVE BLUFF SCRUB AN	2005-04-08 2016-05-11 RS EN NAD 27 D ROCKY



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Occurrence No.	48	Map Index: 75744	EO Index:	76662	Element Last Seen:	2008-03-08
Occ. Rank:	Good		Presence:	Presumed Extant	Site Last Seen:	2008-03-08
Осс. Туре:	Natural/Native	e occurrence	Trend:	Unknown	Record Last Updated:	2009-07-30
Quad Summary:	Redondo Bea	ich (3311874)				
County Summary:	Los Angeles					
Lat/Long:	33.76341 / -1 ⁻	18.41889		Accuracy:	80 meters	
UTM:	Zone-11 N373	36828 E368600		Elevation (ft):	85	
PLSS:	T05S, R15W,	Sec. 11, SE (S)		Acres:	0.0	
Location:	PALOS VERD	DES; PASEO DEL MAR &	VIA NEVE.			
Detailed Location:	TRAILHEAD I	DOWN CLIFFSIDE, WHEF	RE PASEO DEL	MAR CROSSES VIA NEVE.		
Ecological:	COASTAL BL	UFF SCRUB. CALANDRI		AND ANTIRRHINUM NUTTALL	IANUM ALSO AT THIS SITE.	
General:	8 PLANTS SE	EN IN 2008.				
Owner/Manager:	CITY OF PAL	OS VERDES ESTATES				
Occurrence No.	49	Map Index: 01700	EO Index:	76663	Element Last Seen:	xxxx-xx-xx
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	XXXX-XX-XX
Occ. Type:	Natural/Native	e occurrence	Trend:	Unknown	Record Last Updated:	2009-07-03
Quad Summary:	Torrance (331	11873), Redondo Beach (3	311874)		· · · · · · · · · · · · · · · · · · ·	
County Summary:		Pacific Ocean	511074)			
Lat/Long:	33.82921 / -1			Accuracy:	1 mile	
UTM:		44088 E371323		Elevation (ft):	1 mile	
PLSS:	T04S, R14W,			Acres:	0.0	
Location:	REDONDO.					
Detailed Location:		ATION UNKNOWN. MAPP	ED BY CNDDB	AS BEST GUESS IN THE VICI	NITY OF REDONDO BEACH,	LOS
Ecological:						
Ecological: General:	ONLY SOUR	CE OF INFORMATION FC	R THIS SITE IS	AN UNDATED RUSSELL COL	LECTION. NEEDS FIELDWOI	RK.
-	ONLY SOUR	CE OF INFORMATION FC	OR THIS SITE IS	AN UNDATED RUSSELL COL	LECTION. NEEDS FIELDWOI	RK.
General: Owner/Manager:	UNKNOWN				LECTION. NEEDS FIELDWOI	
General: Owner/Manager: Occurrence No.		CE OF INFORMATION FC	EO Index:	AN UNDATED RUSSELL COL 76767 Presumed Extant	Element Last Seen:	2009-04-05
General: Owner/Manager: Occurrence No. Occ. Rank:	UNKNOWN	Map Index: 75752		76767		2009-04-05 2009-04-05
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	UNKNOWN 51 Unknown Natural/Native	Map Index: 75752	EO Index: Presence:	76767 Presumed Extant	Element Last Seen: Site Last Seen:	2009-04-05
General: Owner/Manager: Occurrence No. Occ. Rank:	UNKNOWN 51 Unknown	Map Index: 75752	EO Index: Presence:	76767 Presumed Extant	Element Last Seen: Site Last Seen:	2009-04-05 2009-04-05
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	UNKNOWN 51 Unknown Natural/Native Redondo Bea	Map Index: 75752 e occurrence ach (3311874)	EO Index: Presence:	76767 Presumed Extant	Element Last Seen: Site Last Seen:	2009-04-05 2009-04-05
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	UNKNOWN 51 Unknown Natural/Native Redondo Bea Los Angeles 33.79697 / -1*	Map Index: 75752 e occurrence ach (3311874)	EO Index: Presence:	76767 Presumed Extant Unknown	Element Last Seen: Site Last Seen: Record Last Updated:	2009-04-05 2009-04-05
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	UNKNOWN 51 Unknown Natural/Native Redondo Bea Los Angeles 33.79697 / -1 ² Zone-11 N374	Map Index: 75752 e occurrence ach (3311874) 18.40738	EO Index: Presence:	76767 Presumed Extant Unknown Accuracy:	Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile	2009-04-05 2009-04-05
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	UNKNOWN 51 Unknown Natural/Native Redondo Bea Los Angeles 33.79697 / -1 Zone-11 N374 T04S, R15W,	Map Index: 75752 e occurrence ach (3311874) 18.40738 40535 E369717	EO Index: Presence: Trend:	76767 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 100	2009-04-05 2009-04-05
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	UNKNOWN 51 Unknown Natural/Native Redondo Bea Los Angeles 33.79697 / -1 ⁻¹ Zone-11 N374 T04S, R15W, FLAT ROCK I	Map Index: 75752 e occurrence ach (3311874) 18.40738 40535 E369717 Sec. 25, W (S) POINT, PALOS VERDES I	EO Index: Presence: Trend:	76767 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 100 0.0	2009-04-05 2009-04-05
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	UNKNOWN 51 Unknown Natural/Native Redondo Bea Los Angeles 33.79697 / -1 Zone-11 N374 T04S, R15W, FLAT ROCK I EXACT LOCA	Map Index: 75752 e occurrence ach (3311874) 18.40738 40535 E369717 Sec. 25, W (S) POINT, PALOS VERDES I	EO Index: Presence: Trend:	76767 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 100 0.0	2009-04-05 2009-04-05
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	UNKNOWN 51 Unknown Natural/Native Redondo Bea Los Angeles 33.79697 / -1 Zone-11 N374 T04S, R15W, FLAT ROCK I EXACT LOCA	Map Index: 75752 e occurrence	EO Index: Presence: Trend:	76767 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: 1/10 mile 100 0.0	2009-04-05 2009-04-05



California Department of Fish and Wildlife

California Natural Diversity Database



Occurrence No.	76	Map Index: A0142	EO Index:	101704	Element Last Seen:	2015-01-27				
Occ. Rank:	Fair		Presence:	Presumed Extant	Site Last Seen:	2015-01-27				
Осс. Туре:	Natural/N	lative occurrence	Trend:	Unknown	Record Last Updated:	2016-05-31				
Quad Summary:	Redondo	Beach (3311874)								
County Summary:	Los Ange	eles								
Lat/Long:	33.74151	/ -118.38587		Accuracy:	specific area					
UTM:	Zone-11	N3734359 E371626		Elevation (ft):	25					
PLSS:	T05S, R1	4W, Sec. 18, S (S)		Acres:	2.0					
Location:	NW SIDE	OF ABALONE COVE, BETW	EEN LONG POI	NT AND PORTUGUESE POINT.						
Detailed Location:	MAPPED	AS 3 POLYGONS ACCORD	NG TO 2015 UE	LMAN COORDINATES.						
Ecological:	DOMINA	SOUTHERN CALIFORNIA COASTAL BLUFF SCRUB. POPULATION ON LOOSE, GRAVELLY WEATHERED BASALT ROCK. DOMINANT SURROUNDING PLANTS WERE LYCIUM CALIFORNICUM, OPUNTIA ORICOLA, RHUS INTEGRIFOLIA, ENCELIA CALIFORNICA, AND DUDLEYA VIRENS SSP. INSULARIS.								
	CALIFOR	RNICA, AND DUDLEYA VIREN	NS SSP. INSULA	RIS.		, -				
General:				RIS. AST WERE 10+ PLANTS, 100+	PLANTS, AND 10+ PLANTS.					
General: Owner/Manager:	IN 2015,				PLANTS, AND 10+ PLANTS.					
	IN 2015, CITY OF	POPULATION NUMBERS FR			PLANTS, AND 10+ PLANTS. Element Code: PDC					
Owner/Manager:	IN 2015, CITY OF	POPULATION NUMBERS FR								
Owner/Manager: Atriplex coulte	IN 2015, CITY OF Pri	POPULATION NUMBERS FR			Element Code: PDC					
Owner/Manager: Atriplex coulte Coulter's saltbus	IN 2015, CITY OF Pri	POPULATION NUMBERS FR RANCHO PALOS VERDES		AST WERE 10+ PLANTS, 100+	Element Code: PDC					
Owner/Manager: Atriplex coulte Coulter's saltbus	IN 2015, CITY OF ri h Federal:	POPULATION NUMBERS FR RANCHO PALOS VERDES None None	OM WEST TO E	AST WERE 10+ PLANTS, 100+	Element Code: PDC ks: Global: G3 State: S1S2	HE040E0				
Owner/Manager: Atriplex coulte Coulter's saltbus	IN 2015, CITY OF eri sh Federal: State:	POPULATION NUMBERS FR RANCHO PALOS VERDES None None Rare Plant Rank - 1B.2, SE CRES Native Gene Seed E	OM WEST TO E B_CalBG/RSABG	AST WERE 10+ PLANTS, 100+	Element Code: PDC ks: Global: G3 State: S1S2 otanic Garden, SB_CRES-Sar	HE040E0 n Diego Zoo				
Owner/Manager: <i>Atriplex coulte</i> Coulter's saltbus Listing Status:	IN 2015, CITY OF ri h Federal: State: Other:	POPULATION NUMBERS FR RANCHO PALOS VERDES None None Rare Plant Rank - 1B.2, SE CRES Native Gene Seed E COASTAL BLUFF SCRUB	OM WEST TO E B_CalBG/RSABG sank , COASTAL DUN	AST WERE 10+ PLANTS, 100+ CNDDB Element Ran	Element Code: PDC ks: Global: G3 State: S1S2 Dtanic Garden, SB_CRES-Sar Y AND FOOTHILL GRASSLA	HE040E0 n Diego Zoo ND.				
Owner/Manager: Atriplex coulte Coulter's saltbus Listing Status:	IN 2015, CITY OF ori th Federal: State: Other: General:	POPULATION NUMBERS FR RANCHO PALOS VERDES None None Rare Plant Rank - 1B.2, SE CRES Native Gene Seed E COASTAL BLUFF SCRUB	OM WEST TO E B_CalBG/RSABG sank , COASTAL DUN	AST WERE 10+ PLANTS, 100+ CNDDB Element Ran G-California/Rancho Santa Ana Bo IES, COASTAL SCRUB, VALLE	Element Code: PDC ks: Global: G3 State: S1S2 Dtanic Garden, SB_CRES-Sar Y AND FOOTHILL GRASSLA	HE040E0 n Diego Zoo ND. -460 M.				
Owner/Manager: <i>Atriplex coulte</i> Coulter's saltbus Listing Status: Habitat:	IN 2015, CITY OF ri h Federal: State: Other: General: Micro:	POPULATION NUMBERS FR RANCHO PALOS VERDES None None Rare Plant Rank - 1B.2, SE CRES Native Gene Seed E COASTAL BLUFF SCRUB OCEAN BLUFFS, RIDGET	OM WEST TO E B_CalBG/RSABG Bank , COASTAL DUN OPS, AS WELL .	AST WERE 10+ PLANTS, 100+ CNDDB Element Ran G-California/Rancho Santa Ana Bo IES, COASTAL SCRUB, VALLE AS ALKALINE LOW PLACES. A	Element Code: PDC ks: Global: G3 State: S1S2 otanic Garden, SB_CRES-Sar Y AND FOOTHILL GRASSLA LKALINE OR CLAY SOILS. 2-	HE040E0 n Diego Zoo ND.				

Quad Summary:	Long Beach (3311872)				
County Summary:	Los Angeles				
Lat/Long:	33.83821 / -118.17658	Accuracy:	1 mile		
UTM:	Zone-11 N3744839 E391136 Elevation (ft):				
PLSS:	T04S, R12W (S)	Acres:	0.0		
Location:	BIXBY.				
Detailed Location:	EXACT LOCATION UNKNOWN. MAPPED BY CNDDB AT	BIXBY KNOLLS.			
Ecological:					
General:	ONLY SOURCE OF INFORMATION FOR THIS OCCURRE	NCE IS AN UNDATED COLI	LECTION BY BRANDEGEE.		

Owner/Manager: UNKNOWN



California Department of Fish and Wildlife



Occurrence No.	102	Map Index: 99025	EO Index:	100548		Element Last Seen:	2012-06-01			
Occ. Rank:	Unknown		Presence:	Presumed E	xtant	Site Last Seen:	2012-06-01			
Осс. Туре:	Natural/Nat	tive occurrence	Trend:	Unknown		Record Last Updated:	2016-02-01			
Quad Summary:	Redondo B	Beach (3311874)								
County Summary:	Los Angele	es								
Lat/Long:	33.80247 /	-118.39758			Accuracy:	specific area				
UTM:	Zone-11 N	3741132 E370634			Elevation (ft):	10				
PLSS:	T04S, R15	W, Sec. 25, NE (S)			Acres:	1.0				
Location:	PALOS VE	OS VERDES ESTATES; MALAGA COVE IMMEDIATELY SW OF THE PALOS VERDES BEACH AND ATHLETIC CLUB.								
Detailed Location:	MAPPED A	PED ACCORDING TO 2012 GEORGE COORDINATES.								
Ecological:	JUST ABO	VE HIGH TIDE LINE ON ROC	KY BEACH CU	JT FROM STO	ORM SURGE.					
General:	ONLY SOL	JRCE OF INFORMATION FOR	R THIS SITE IS	A 2012 GEO	RGE COLLECTION					
Owner/Manager:	CITY OF P	ALOS VERDES ESTATES								
Occurrence No.	103	Map Index: 99026	EO Index:	100549		Element Last Seen:	1902-05-15			
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1902-05-15			
Occ. Type:	Natural/Nat	tive occurrence	Trend:	Unknown		Record Last Updated:	2016-02-02			
Quad Summary:	Inglewood	(3311883)				· · ·				
County Summary:	Los Angele									
Lat/Long:	33.89139 /	-118.302			Accuracy:	1 mile				
UTM:	Zone-11 N	3750876 E379607			Elevation (ft):					
PLSS:	T03S, R14	W, Sec. 24 (S)			Acres:	1987.0				
Location:	GARDENA									
Detailed Location:	EXACT LO	CATION UNKNOWN. MAPPE	D AS BEST G	JESS AROUN	ID THE GARDENA	POST OFFICE.				
Ecological:										
General:	ONLY SOL	JRCE OF INFORMATION FOR	R THIS SITE IS	A 1902 BRAU	JNTON COLLECTI	ON. PRESUMED EXTIRPAT	ED.			
Owner/Manager:	UNKNOW	N								
Atriplay posifia	2					Element Code: PDC				
Atriplex pacific							1204100			
south coast saltso		None		CNI	DDB Element Rank	s: Global: G4				
Listing Status.	State:	None		CINI		State: S2				
	Other:	Rare Plant Rank - 1B.2, SB		-California/Pa	ncho Santa Ana Pa					
Habitat.		, _								
Habitat:	General:	COASTAL SCRUB, COASTA	AL BLUFF SCR	UB, PLAYAS,	COASTAL DUNES).				
	Micro:	ALKALI SOILS. 1-400 M.								



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Occurrence No.	3	Map Index: 34590	EO Index:	12350		Element Last Seen:	2006-XX-XX
Occ. Rank:	Fair		Presence:	Presumed E	xtant	Site Last Seen:	2006-XX-XX
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	2018-11-15
Quad Summary:	San Pedro (3	3311863)					
County Summary:	Los Angeles						
Lat/Long:	33.72441 / -′	118.33673			Accuracy:	specific area	
UTM:	Zone-11 N37	732402 E376155			Elevation (ft):	230	
PLSS:	T05S, R14W	/, Sec. 22, SW (S)			Acres:	6.0	
Location:	PALOS VER	DES PENINSULA, WEST S	LOPE OF SHO		ALONG BEACH	ACCESS TRAIL.	
Detailed Location:						P FROM BRINKMANN-BUSI 903, 1906, & 1931 ALSO AT	
Ecological:	IN COASTAI	SAGE SCRUB WITH NUM	EROUS NON-	NATIVE GRAS	SES.		
General:		IN 1992; BRINKMANN-BUSI JNKNOWN NUMBER SEEN				THAN IN 1991, BUT NO DE	TAILS GIVEN
Owner/Manager:	CITY OF RA	NCHO PALOS VERDES					
Occurrence No.	8	Map Index: 01700	EO Index:	759		Element Last Seen:	1903-10-15
Occ. Rank:	Unknown		Presence:	Presumed E	xtant	Site Last Seen:	1903-10-15
Осс. Туре:	Natural/Nativ	ve occurrence	Trend:	Unknown		Record Last Updated:	1996-02-12
Quad Summary:	Torrance (33	11873), Redondo Beach (33	11874)				
County Summary:	Los Angeles	, Pacific Ocean					
Lat/Long:	33.82921 / -^	118.39056			Accuracy:	1 mile	
UTM:	Zone-11 N37	744088 E371323			Elevation (ft):	12	
PLSS:	T04S, R14W	/, Sec. 18 (S)			Acres:	0.0	
Location:	REDONDO.						
Detailed Location:	EXACT LOC	ATION UNKNOWN. MAPPE	D AS BEST G	UESS BY CNE	DB IN VICINITY C	F REDONDO BEACH.	
Ecological:							
General:	ONLY SOUF	RCE OF INFORMATION FOR	R THIS OCCUP	RRENCE IS A	1903 COLLECTIO	N BY BRANDEGEE. NEEDS	FIELDWORK.
Owner/Manager:	UNKNOWN						



California Department of Fish and Wildlife



Occurrence No.	119	Map Index: B1438	EO Index:	113346		Element Last Seen:	2014-12-30		
Occ. Rank:	Unknown		Presence:	Presumed Ext	ant	Site Last Seen:	2014-12-30		
Осс. Туре:	Natural/Nat	ive occurrence	Trend:	Unknown		Record Last Updated:	2018-11-19		
Quad Summary:	San Pedro	(3311863), Redondo Beach (3311874)						
County Summary:	Los Angele	S							
Lat/Long:	33.74231 /	-118.38025			Accuracy:	non-specific area			
UTM:	Zone-11 N3	3734440 E372148			Elevation (ft):	35			
PLSS:	T05S, R14V	<i>N</i> , Sec. 17, SW (S)			Acres:	64.0			
Location:	ABALONE	COVE BLUFFS.							
Detailed Location:	EXACT LO	CATION UNKNOWN. MAPPE	ED AS BEST G	UESS AROUND	THE BLUFFS O	F ABALONE COVE.			
Ecological:	EDGE OF E	BLUFF AND TERRACE TOP,	ADJACENT TO	O A TRAIL.					
General:	PACIFICA.	ONLY SOURCES OF INFORMATION FOR THIS SITE ARE 2014 STEERS PHOTOS. "THIS SPECIMEN KEYED OUT TO A. PACIFICA. LEAF AND FRUIT SIZE WERE WELL UNDER RANGE FOR A. COULTERI. HOWEVER, THE BASE OF THIS SPECIMEN SEEMED WOODY"							
Owner/Manager:	UNKNOWN	I							
Occurrence No.	120	Map Index: B1439	EO Index:	113347		Element Last Seen:	2009-07-02		
Occ. Rank:	Unknown		Presence:	Presumed Ext	ant	Site Last Seen:	2009-07-02		
Осс. Туре:	Natural/Nat	ive occurrence	Trend:	Unknown		Record Last Updated:	2018-11-15		
Quad Summary:	San Pedro	(3311863)							
County Summary:	Los Angele	S							
Lat/Long:	33.73857 /	-118.36262			Accuracy:	specific area			
UTM:	Zone-11 N3	3734004 E373776			Elevation (ft):	50			
PLSS:	T05S, R14\	N, Sec. 16, SW (S)			Acres:	10.0			
Location:	MOUTH OF	PORTUGUESE CANYON A		SE BEND.					
Detailed Location:	MAPPED A	CCORDING TO VEGETATIO	ON SURVEY CO	OORDINATES, I	N THE SW 1/4 O	F THE SW 1/4 OF SECTION	16.		
Ecological:	LENTIFOR	ED WITH SALSOLA TRAGU MIS, BROMUS RUBENS, B. ∣ YANTHEMUM CRYSTALLIN	DIANDRUS, SC	CHINUS MOLLE	, BRASSICA NIG		x		
General:	LESS THAN	N 1% COVER OF ATRIPLEX	PACIFICA OB	SERVED DURIN	IG 2009 VEGETA	TION SURVEYS.			
Owner/Manager:	CITY OF R	ANCHO PALOS VERDES							



California Department of Fish and Wildlife



Occurrence No.	121	Map Index: B1440	EO Index:	113348		Element Last Seen:	2009-03-26
Occ. Rank:	Unknown		Presence:	Presumed E	xtant	Site Last Seen:	2009-03-26
Осс. Туре:	Natural/Nativ	/e occurrence	Trend:	Unknown		Record Last Updated:	2018-11-15
Quad Summary:	San Pedro (3	3311863)					
County Summary:	Los Angeles						
Lat/Long:	33.74471 / -1	118.36056			Accuracy:	80 meters	
UTM:	Zone-11 N37	734682 E373976			Elevation (ft):	345	
PLSS:	T05S, R14W	/, Sec. 16, NW (S)			Acres:	5.0	
Location:	EAST SIDE	OF PORTUGUESE CANYC	N, APPROXIM	ATELY 0.75 AI	R MILE NE OF INS	SPIRATION POINT.	
Detailed Location:	MAPPED AC	CORDING TO VEGETATIO	ON SURVEY CO	DORDINATES,	IN THE SOUTH 1	/2 OF THE NW 1/4 OF SECT	ION 16.
Ecological:	CYCLOPS, E		RASSICA NIGF		'	GARE, MELILOTUS INDICU PILULARIS, EUCALYPTUS,	,
General:	LESS THAN	1% COVER OF ATRIPLEX	PACIFICA OB	SERVED DURI	ING 2009 VEGETA	TION SURVEYS.	
Owner/Manager:	CITY OF RA	NCHO PALOS VERDES					





Atriplex parish Parish's brittlesca						Elemei	nt Code: PDCI	HE041D0
Listing Status:	Federal:	None		CNE	DB Element Rank	s: Global:	G1G2	
	State:	None				State:	S1	
	Other:	Rare Plant Rank - 1B.1, SB	_CRES-San Die	go Zoo CRES	Native Gene Seed	Bank, USFS_	S-Sensitive	
Habitat:	General:	VERNAL POOLS, CHENOR	POD SCRUB, PL	AYAS.				
	Micro:	USUALLY ON DRYING ALI	KALI FLATS WIT	TH FINE SOILS	S. 4-1420 M.			
Occurrence No.	5	Map Index: 23782	EO Index:	7795		Element	Last Seen:	XXXX-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last	Seen:	XXXX-XX-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record L	ast Updated:	2009-08-28
Quad Summary:	Long Beac	ch (3311872)						
County Summary:	Los Angele	es						
Lat/Long:	33.83821 /	/ -118.17658			Accuracy:	1 mile		
UTM:	Zone-11 N	3744839 E391136			Elevation (ft):	75		
PLSS:	T04S, R12	2W (S)			Acres:	0.0		
. =00.								
Location:	BIXBY.							
	EXACT LC	OCATION UNKNOWN. MAPP OLLS, N OF LONG BEACH.	ED BY CNDDB	AS BEST GUE	ESS ACCORDING	TO INFO GIV	EN BY BRAML	ET: NEAR
Location:	EXACT LC	OCATION UNKNOWN. MAPP OLLS, N OF LONG BEACH.	ED BY CNDDB	AS BEST GUE	ESS ACCORDING	TO INFO GIV	EN BY BRAML	ET: NEAR
Location: Detailed Location:	EXACT LO BIXBY KN ONLY SOI	OLLS, N OF LONG BEACH. URCE OF INFORMATION FO 3 BEACH AREA PROVIDED	OR THIS SITE IS	AN UNDATE	D BRANDEGEE CO	OLLECTION. I	BRAMLET BEL	IEVES THAT
Location: Detailed Location: Ecological:	EXACT LC BIXBY KN ONLY SOI THE LONG	OLLS, N OF LONG BEACH. URCE OF INFORMATION FO G BEACH AREA PROVIDED ED.	OR THIS SITE IS	AN UNDATE	D BRANDEGEE CO	OLLECTION. I	BRAMLET BEL	IEVES THAT
Location: Detailed Location: Ecological: General:	EXACT LC BIXBY KN ONLY SOU THE LONG DEVELOP	OLLS, N OF LONG BEACH. URCE OF INFORMATION FO G BEACH AREA PROVIDED ED.	OR THIS SITE IS	AN UNDATE	D BRANDEGEE CO	DLLECTION. PAST BUT THI	BRAMLET BEL	IEVES THAT
Location: Detailed Location: Ecological: General: Owner/Manager:	EXACT LC BIXBY KN ONLY SOU THE LONG DEVELOP UNKNOW	OLLS, N OF LONG BEACH. URCE OF INFORMATION FO G BEACH AREA PROVIDED ED. N	DR THIS SITE IS SUITABLE HAB	AN UNDATEI ITAT FOR A. F	D BRANDEGEE CO PARISHII IN THE P	DLLECTION. PAST BUT THI	BRAMLET BEL IS AREA IS NO Last Seen:	IEVES THAT W FULLY
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	EXACT LC BIXBY KN ONLY SOU THE LONG DEVELOP UNKNOW 9 Unknown	OLLS, N OF LONG BEACH. URCE OF INFORMATION FO G BEACH AREA PROVIDED ED. N	DR THIS SITE IS SUITABLE HAB EO Index:	AN UNDATEI ITAT FOR A. F 1401	D BRANDEGEE CO PARISHII IN THE P	DLLECTION. I PAST BUT THI Element Site Last	BRAMLET BEL IS AREA IS NO Last Seen:	IEVES THAT W FULLY XXXX-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	EXACT LC BIXBY KN ONLY SOI THE LONG DEVELOP UNKNOW 9 Unknown Natural/Na	OLLS, N OF LONG BEACH. URCE OF INFORMATION FO B BEACH AREA PROVIDED ED. N Map Index: 01700	DR THIS SITE IS SUITABLE HAB EO Index: Presence: Trend:	AN UNDATEI ITAT FOR A. F 1401 Presumed E	D BRANDEGEE CO PARISHII IN THE P	DLLECTION. I PAST BUT THI Element Site Last	BRAMLET BEL IS AREA IS NO Last Seen: Seen:	IEVES THAT W FULLY XXXX-XX-XX XXXX-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	EXACT LC BIXBY KN ONLY SOU THE LONG DEVELOP UNKNOW 9 Unknown Natural/Na Torrance (OLLS, N OF LONG BEACH. URCE OF INFORMATION FO 3 BEACH AREA PROVIDED ED. N Map Index: 01700	DR THIS SITE IS SUITABLE HAB EO Index: Presence: Trend:	AN UNDATEI ITAT FOR A. F 1401 Presumed E	D BRANDEGEE CO PARISHII IN THE P	DLLECTION. I PAST BUT THI Element Site Last	BRAMLET BEL IS AREA IS NO Last Seen: Seen:	IEVES THAT W FULLY XXXX-XX-XX XXXX-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	EXACT LC BIXBY KN ONLY SOI THE LONG DEVELOP UNKNOW 9 Unknown Natural/Na Torrance (Los Angele	OLLS, N OF LONG BEACH. URCE OF INFORMATION FO G BEACH AREA PROVIDED ED. N Map Index: 01700 ative occurrence 3311873), Redondo Beach (3	DR THIS SITE IS SUITABLE HAB EO Index: Presence: Trend:	AN UNDATEI ITAT FOR A. F 1401 Presumed E	D BRANDEGEE CO PARISHII IN THE P	DLLECTION. I PAST BUT THI Element Site Last	BRAMLET BEL IS AREA IS NO Last Seen: Seen:	IEVES THAT W FULLY XXXX-XX-XX XXXX-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Rank: Occ. Type: Quad Summary: County Summary:	EXACT LC BIXBY KN ONLY SOI THE LONG DEVELOP UNKNOW 9 Unknown Natural/Na Torrance (Los Angele 33.82921/	OLLS, N OF LONG BEACH. URCE OF INFORMATION FO BEACH AREA PROVIDED ED. N Map Index: 01700 ative occurrence 3311873), Redondo Beach (3 es, Pacific Ocean	DR THIS SITE IS SUITABLE HAB EO Index: Presence: Trend:	AN UNDATEI ITAT FOR A. F 1401 Presumed E	D BRANDEGEE CO PARISHII IN THE P	DLLECTION. I AST BUT THI Element Site Last Record L	BRAMLET BEL IS AREA IS NO Last Seen: Seen:	IEVES THAT W FULLY XXXX-XX-XX XXXX-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	EXACT LC BIXBY KN ONLY SOI THE LONG DEVELOP UNKNOW 9 Unknown Natural/Na Torrance (Los Angela 33.82921/ Zone-11 N	OLLS, N OF LONG BEACH. URCE OF INFORMATION FC 3 BEACH AREA PROVIDED ED. N Map Index: 01700 ative occurrence 3311873), Redondo Beach (3 es, Pacific Ocean	DR THIS SITE IS SUITABLE HAB EO Index: Presence: Trend:	AN UNDATEI ITAT FOR A. F 1401 Presumed E	D BRANDEGEE CC PARISHII IN THE P xtant Accuracy:	DLLECTION. I PAST BUT THI Element Site Last Record L	BRAMLET BEL IS AREA IS NO Last Seen: Seen:	IEVES THAT W FULLY XXXX-XX-XX XXXX-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	EXACT LC BIXBY KN ONLY SOI THE LONG DEVELOP UNKNOW 9 Unknown Natural/Na Torrance (Los Angele 33.82921 / Zone-11 N T04S, R14	OLLS, N OF LONG BEACH. URCE OF INFORMATION FC 3 BEACH AREA PROVIDED ED. N Map Index: 01700 ative occurrence 3311873), Redondo Beach (3 es, Pacific Ocean 7-118.39056 13744088 E371323	DR THIS SITE IS SUITABLE HAB EO Index: Presence: Trend:	AN UNDATEI ITAT FOR A. F 1401 Presumed E	D BRANDEGEE CO PARISHII IN THE P xtant Accuracy: Elevation (ft):	DLLECTION. I AST BUT THI Element Site Last Record L 1 mile 15	BRAMLET BEL IS AREA IS NO Last Seen: Seen:	IEVES THAT W FULLY XXXX-XX-XX XXXX-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	EXACT LC BIXBY KN ONLY SOI THE LONG DEVELOP UNKNOW 9 Unknown Natural/Na Torrance (Los Angele 33.82921/ Zone-11 N T04S, R14 REDONDO	OLLS, N OF LONG BEACH. URCE OF INFORMATION FC G BEACH AREA PROVIDED ED. N Map Index: 01700 ative occurrence 3311873), Redondo Beach (3 es, Pacific Ocean 7 -118.39056 13744088 E371323 IW, Sec. 18 (S)	DR THIS SITE IS SUITABLE HAB EO Index: Presence: Trend: 3311874)	AN UNDATEI ITAT FOR A. F 1401 Presumed E Unknown	D BRANDEGEE CO PARISHII IN THE P xtant Accuracy: Elevation (ft): Acres:	DLLECTION. I AST BUT THI Element Site Last Record L 1 mile 15 0.0	BRAMLET BEL IS AREA IS NO Last Seen: Seen:	IEVES THAT W FULLY XXXX-XX-XX XXXX-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	EXACT LC BIXBY KN ONLY SOI THE LONG DEVELOP UNKNOW 9 Unknown Natural/Na Torrance (Los Angele 33.82921/ Zone-11 N T04S, R14 REDONDO	OLLS, N OF LONG BEACH. URCE OF INFORMATION FC BEACH AREA PROVIDED ED. N Map Index: 01700 ative occurrence 3311873), Redondo Beach (3 es, Pacific Ocean 7 -118.39056 13744088 E371323 IW, Sec. 18 (S) D (BEACH?).	DR THIS SITE IS SUITABLE HAB EO Index: Presence: Trend: 3311874)	AN UNDATEI ITAT FOR A. F 1401 Presumed E Unknown	D BRANDEGEE CO PARISHII IN THE P xtant Accuracy: Elevation (ft): Acres:	DLLECTION. I AST BUT THI Element Site Last Record L 1 mile 15 0.0	BRAMLET BEL IS AREA IS NO Last Seen: Seen:	IEVES THAT W FULLY XXXX-XX-XX XXXX-XX-XX
Location: Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	EXACT LC BIXBY KN ONLY SOI THE LONG DEVELOP UNKNOW 9 Unknown Natural/Na Torrance (Los Angela 33.82921/ Zone-11 N T04S, R14 REDONDO EXACT LC	OLLS, N OF LONG BEACH. URCE OF INFORMATION FC G BEACH AREA PROVIDED ED. N Map Index: 01700 ative occurrence 3311873), Redondo Beach (3 es, Pacific Ocean 7-118.39056 13744088 E371323 W, Sec. 18 (S) D (BEACH?). DCATION UNKNOWN. MAPP JRCE OF LOCATION INFOR	EO Index: Presence: Trend: 3311874)	AN UNDATEI ITAT FOR A. F 1401 Presumed E Unknown	D BRANDEGEE CC PARISHII IN THE P xtant Accuracy: Elevation (ft): Acres: ESS AT REDONDC	Element Site Last Record L 1 mile 15 0.0 D BEACH.	BRAMLET BEL IS AREA IS NO Last Seen: .ast Updated:	IEVES THAT W FULLY XXXX-XX-XX XXXX-XX-XX 2009-08-28



California Natural Diversity Database



Element Code: PDCHE041T1

Atriplex serenana var. davidsonii

Davidson's saltsc	ale					
Listing Status:	Federal:	None		CNDDB Element Rar	nks: Global: G5T1	
	State:	None			State: S1	
	Other:	Rare Plant Rank - 1B.2, SE	_CalBG/RSABG	-California/Rancho Santa Ana B	Botanic Garden	
Habitat:	General:	COASTAL BLUFF SCRUB	, COASTAL SCR	UB.		
	Micro:	ALKALINE SOIL. 0-480 M.				
Occurrence No.	3	Map Index: 34592	EO Index:	253	Element Last Seen:	1906-06-02
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1906-06-02
Осс. Туре:	Natural/N	ative occurrence	Trend:	Unknown	Record Last Updated:	2013-01-16
Quad Summary:	San Pedr	o (3311863), Torrance (33118	373)			
County Summary:	Los Ange	les, Pacific Ocean				
Lat/Long:	33.73644	/ -118.28092		Accuracy:	1 mile	
UTM:	Zone-11 I	N3733670 E381341		Elevation (ft):		
PLSS:	T05S, R1	3W, Sec. 18 (S)		Acres:	0.0	
Location:	SAN PED	PRO.				
Detailed Location:	EXACT L	OCATION UNKNOWN. MAPP	PED BY CNDDB	IN GENERAL VICINITY OF SAI	N PEDRO.	
Ecological:						
General:				Y BRANDEGEE AND A 1906 C ATTRIBUTED TO THIS OCCUI		
Owner/Manager:	UNKNOV	VNI				

Chenopodium coastal goosefoor						Eleme	nt Code: PDC	HE091Z0
Listing Status:	Federal:	None		CND	DB Element Ranks	: Global:	G1	
	State:	None				State:	S1	
	Other:	Rare Plant Rank - 1B.2						
Habitat:	General:	COASTAL DUNES.						
	Micro:	GENERALLY ON SANDY S	OILS, AND ON	DUNES. 5-40 I	Μ.			
Occurrence No.	1	Map Index: 83468	EO Index:	84489		Element	Last Seen:	1904-05-14
Occ. Rank:	None		Presence:	Extirpated		Site Last	Seen:	1904-05-14
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record L	ast Updated:	2011-08-10
Quad Summary:	Venice (33	311884)						
County Summary:	Los Angel	es						
Lat/Long:	33.95590	/ -118.44603			Accuracy:	3/5 mile		
UTM:	Zone-11 N	13758208 E366387			Elevation (ft):			
PLSS:	T02S, R18	5W, Sec. 34 (S)			Acres:	0.0		
Location:	PLAYA DI	EL REY.						
Detailed Location:	EXACT LO CREEK.	OCATION UNKNOWN. MAPP	ED BY CNDDB	AS BEST GUE	ESS CENTERED ON	I PLAYA DE	L REY, SOUTH	OF BALLONA
Ecological:								
General:	ONLY SO	URCE OF INFORMATION IS	A 1904 GRANT	COLLECTION	I.			
Owner/Manager:	UNKNOW	'N						





Suaeda esteroa	3				Element Code: PDC	HE0P0D0
estuary seablite						
Listing Status:	Federal:	None		CNDDB Element Rar	nks: Global: G3	
	State:	None			State: S2	
	Other:	Rare Plant Rank - 1B.2				
Habitat:	General:	MARSHES AND SWAMPS.				
	Micro:	COASTAL SALT MARSHES	S IN CLAY, SILT	, AND SAND SUBSTRATES. 0	-80 M.	
Occurrence No.	17	Map Index: 34592	EO Index:	48871	Element Last Seen:	1904-09-06
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1904-09-06
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown	Record Last Updated:	2016-11-10
Quad Summary:	San Pedro	(3311863), Torrance (331187	73)			
County Summary:	Los Angele	es, Pacific Ocean				
Lat/Long:	33.73644 /	′ -118.28092		Accuracy:	1 mile	
UTM:	Zone-11 N	3733670 E381341		Elevation (ft):		
PLSS:	T05S, R13	W, Sec. 18 (S)		Acres:	0.0	
		S OF THE BAY, SAN PEDRO.	-			
Location:	DURDERS					
Location: Detailed Location:				IN GENERAL VICINITY OF SAM	N PEDRO.	
	EXACT LC			IN GENERAL VICINITY OF SAM	N PEDRO.	
Detailed Location:	EXACT LO BORDERS ONLY SOL	OCATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO	ED BY CNDDB OR THIS SITE IS	A 1904 ABRAMS COLLECTIO	N. POSSIBLY REFERENCING	3
Detailed Location: Ecological:	EXACT LO BORDERS ONLY SOL	OCATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (ED BY CNDDB OR THIS SITE IS		N. POSSIBLY REFERENCING	3
Detailed Location: Ecological: General:	EXACT LC BORDERS ONLY SOL OCCURRE	OCATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (ED BY CNDDB OR THIS SITE IS	A 1904 ABRAMS COLLECTIO	N. POSSIBLY REFERENCING	2006-01-21
Detailed Location: Ecological: General: Owner/Manager:	EXACT LC BORDERS ONLY SOU OCCURRE UNKNOW	OCATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (N	ED BY CNDDB OR THIS SITE IS OF SAN PEDRC	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE	N. POSSIBLY REFERENCING EDS FIELDWORK.	
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank:	EXACT LC BORDERS ONLY SOU OCCURRE UNKNOWN 18 Unknown	OCATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (N	ED BY CNDDB OR THIS SITE IS OF SAN PEDRO EO Index:	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE 48872	N. POSSIBLY REFERENCING EDS FIELDWORK. Element Last Seen:	2006-01-21
Detailed Location: Ecological: General: Owner/Manager: Occurrence No.	EXACT LC BORDERS ONLY SOU OCCURRE UNKNOW 18 Unknown Natural/Na	OCATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE ON Map Index: A2487	ED BY CNDDB OR THIS SITE IS OF SAN PEDRO EO Index: Presence:	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE 48872 Presumed Extant	N. POSSIBLY REFERENCING EDS FIELDWORK. Element Last Seen: Site Last Seen:	2006-01-21 2006-01-21
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	EXACT LC BORDERS ONLY SOU OCCURRE UNKNOW 18 Unknown Natural/Na	OCATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (N Map Index: A2487 tive occurrence	ED BY CNDDB OR THIS SITE IS OF SAN PEDRO EO Index: Presence:	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE 48872 Presumed Extant	N. POSSIBLY REFERENCING EDS FIELDWORK. Element Last Seen: Site Last Seen:	2006-01-21 2006-01-21
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	EXACT LC BORDERS ONLY SOU OCCURRE UNKNOWN 18 Unknown Natural/Na Long Beac Los Angele	OCATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (N Map Index: A2487 tive occurrence	ED BY CNDDB OR THIS SITE IS OF SAN PEDRO EO Index: Presence:	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE 48872 Presumed Extant	N. POSSIBLY REFERENCING EDS FIELDWORK. Element Last Seen: Site Last Seen:	2006-01-21 2006-01-21
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	EXACT LC BORDERS ONLY SOL OCCURRE UNKNOWN 18 Unknown Natural/Na Long Beac Los Angele	OCATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (N Map Index: A2487 tive occurrence th (3311872)	ED BY CNDDB OR THIS SITE IS OF SAN PEDRO EO Index: Presence:	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE 48872 Presumed Extant Unknown	N. POSSIBLY REFERENCING EDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated:	2006-01-21 2006-01-21
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	EXACT LC BORDERS ONLY SOU OCCURRE UNKNOWN 18 Unknown Natural/Na Long Beac Los Angele 33.77163 / Zone-11 N	CATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (N Map Index: A2487 tive occurrence th (3311872) es	ED BY CNDDB OR THIS SITE IS OF SAN PEDRO EO Index: Presence:	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE 48872 Presumed Extant Unknown Accuracy:	N. POSSIBLY REFERENCING EDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile	2006-01-21 2006-01-21
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	EXACT LC BORDERS ONLY SOL OCCURRE UNKNOWN 18 Unknown Natural/Na Long Beac Los Angele 33.77163 / Zone-11 N T05S, R12	CATION UNKNOWN. MAPPE S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (N Map Index: A2487 tive occurrence th (3311872) es 7 -118.13387 3737413 E395008 2W, Sec. 4, E (S)	ED BY CNDDB OR THIS SITE IS OF SAN PEDRO EO Index: Presence: Trend:	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE 48872 Presumed Extant Unknown Accuracy: Elevation (ft):	N. POSSIBLY REFERENCING EDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 5 70.0	2006-01-21 2006-01-21 2016-11-04
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	EXACT LC BORDERS ONLY SOU OCCURRE UNKNOWN 18 Unknown Natural/Na Long Beac Los Angele 33.77163 / Zone-11 N T05S, R12 BELMONT	CATION UNKNOWN. MAPPE S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (N Map Index: A2487 tive occurrence th (3311872) es 7 -118.13387 3737413 E395008 2W, Sec. 4, E (S)	ED BY CNDDB OR THIS SITE IS OF SAN PEDRO EO Index: Presence: Trend:	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE 48872 Presumed Extant Unknown Accuracy: Elevation (ft): Acres: TY OF PARK AVENUE AND CO	N. POSSIBLY REFERENCING EDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 5 70.0	2006-01-21 2006-01-21 2016-11-04
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	EXACT LC BORDERS ONLY SOL OCCURRE UNKNOWN 18 Unknown Natural/Na Long Beac Los Angele 33.77163 / Zone-11 N T05S, R12 BELMONT MAPPED I	CATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (N Map Index: A2487 tive occurrence th (3311872) es '-118.13387 3737413 E395008 W, Sec. 4, E (S) 'SHORES; COLORADO LAG	ED BY CNDDB OF THIS SITE IS OF SAN PEDRO EO Index: Presence: Trend: GOON IN VICINI AROUND THE	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE 48872 Presumed Extant Unknown Accuracy: Elevation (ft): Acres: TY OF PARK AVENUE AND CO	N. POSSIBLY REFERENCING EDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 5 70.0	2006-01-21 2006-01-21 2016-11-04
Detailed Location: Ecological: General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	EXACT LC BORDERS ONLY SOL OCCURRE UNKNOWN 18 Unknown Natural/Na Long Beac Los Angele 33.77163 / Zone-11 N T05S, R12 BELMONT MAPPED I DISTURBE SITE BASI	CATION UNKNOWN. MAPPI S OF THE BAY. JRCE OF INFORMATION FO ENCES ON THE EAST SIDE (N Map Index: A2487 (118.13387) 3737413 E395008 W, Sec. 4, E (S) SHORES; COLORADO LAG BY CNDDB AS BEST GUESS ED SALT MARSH IN SANDY 3	ED BY CNDDB OF THIS SITE IS OF SAN PEDRO EO Index: Presence: Trend: GOON IN VICINI S AROUND THE SOIL. LLECTION; MEN	A 1904 ABRAMS COLLECTIO D BAY NEAR SEAL BEACH. NE 48872 Presumed Extant Unknown Accuracy: Elevation (ft): Acres: TY OF PARK AVENUE AND CO	N. POSSIBLY REFERENCING EDS FIELDWORK. Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 5 70.0 DLORADO STREET, CITY OF	2006-01-21 2006-01-21 2016-11-04

Budicya mono					
island green dud	leya				
Listing Status:	Federal:	None	CNDDB Element Ranks:	Global:	G3?T3
	State:	None		State:	S3
	Other:	Rare Plant Rank - 1B.2			
Habitat:	General:	COASTAL BLUFF SCRUB, COASTAL SCRUB.			
	Micro:	ROCKY SOILS. 0-275 M.			



California Department of Fish and Wildlife



Occurrence No.	3 Map Index: 17598	B EO Index:	47066	Element Last Seen:	2010-05-07
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	2010-05-07
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2012-12-12
Quad Summary:	San Pedro (3311863)				
County Summary:	Los Angeles				
Lat/Long:	33.72685 / -118.34605		Accuracy:	specific area	
UTM:	Zone-11 N3732683 E375293		Elevation (ft):	70	
PLSS:	T05S, R14W, Sec. 21 (S)		Acres:	55.0	
Location:	PALOS VERDES PENINSULA; FI	ROM NEAR PORTUG	UESE BEND SOUTHWARD TO	NEAR ROYAL PALMS BEAC	H PARK.
Detailed Location:	TWO POLYOGNS MAPPED ALO LSA ASSOCIATES.	NG COASTLINE ACC	ORDING TO A 1990 MAP BY BP	RINKMANN-BUSI AND A 199	2 MAP FROM
Ecological:	ROCKY OUTCROPS ON BLUFFS INTEGRIFOLIA, ENCELIA CALIF ERIOGONUM CINEREUM, AND I	ORNICA, OPUNTIA L			
General:	UNKNOWN NUMBER OF PLANT WITHIN SAN PEDRO QUAD. 201 COMMON."				
Owner/Manager:	PVT, UNKNOWN				
Occurrence No.	4 Map Index: 17574	4 EO Index:	47067	Element Last Seen:	1990-XX-XX
Occurrence No. Occ. Rank:	4 Map Index: 17574 Good	4 EO Index: Presence:	47067 Presumed Extant	Element Last Seen: Site Last Seen:	1990-XX-XX 1990-XX-XX
	· · · · · · · · · · · · · · · · · · ·				
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	1990-XX-XX
Occ. Rank: Occ. Type:	Good Natural/Native occurrence	Presence:	Presumed Extant	Site Last Seen:	1990-XX-XX
Occ. Rank: Occ. Type: Quad Summary:	Good Natural/Native occurrence Redondo Beach (3311874)	Presence:	Presumed Extant	Site Last Seen:	1990-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary:	Good Natural/Native occurrence Redondo Beach (3311874) Los Angeles	Presence:	Presumed Extant Unknown	Site Last Seen: Record Last Updated:	1990-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	Good Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.74151 / -118.40606	Presence:	Presumed Extant Unknown Accuracy:	Site Last Seen: Record Last Updated: specific area	1990-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	Good Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.74151 / -118.40606 Zone-11 N3734384 E369756	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: specific area 80 16.0	1990-XX-XX 2012-12-12
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Good Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.74151 / -118.40606 Zone-11 N3734384 E369756 T05S, R15W, Sec. 13 (S)	Presence: Trend:	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: CENTE LIGHTHOUSE TO 0.5 M	Site Last Seen: Record Last Updated: specific area 80 16.0 IILE EAST OF POINT VICEN	1990-XX-XX 2012-12-12
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Good Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.74151 / -118.40606 Zone-11 N3734384 E369756 T05S, R15W, Sec. 13 (S) PALOS VERDES PENINSULA, FI	Presence: Trend: ROM NEAR POINT VI BLUFFS ACCORDING S FACING THE OCEA OPAPPUS VENETUS,	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: CENTE LIGHTHOUSE TO 0.5 M G TO A 1990 MAP BY BRINKMA IN. ALSO ALONG A ROADCUT O	Site Last Seen: Record Last Updated: specific area 80 16.0 IILE EAST OF POINT VICEN NN-BUSI. GROWING WITH ERIOGONU	1990-XX-XX 2012-12-12 TE.
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Good Natural/Native occurrence Redondo Beach (3311874) Los Angeles 33.74151 / -118.40606 Zone-11 N3734384 E369756 T05S, R15W, Sec. 13 (S) PALOS VERDES PENINSULA, FI 2 POLYGONS MAPPED ALONG ROCKY OUTCROPS ON BLUFFS ENCELIA CALIFORNICA, HAPLO	Presence: Trend: ROM NEAR POINT VI BLUFFS ACCORDING S FACING THE OCEA PAPPUS VENETUS, I VULGARE. S SEEN IN 1990; "GC OF POINT VICENTE	Presumed Extant Unknown Accuracy: Elevation (ft): Acres: CENTE LIGHTHOUSE TO 0.5 M G TO A 1990 MAP BY BRINKMA IN. ALSO ALONG A ROADCUT (ANNUAL GRASSES, STEPHAN	Site Last Seen: Record Last Updated: specific area 80 16.0 IILE EAST OF POINT VICEN NN-BUSI. GROWING WITH ERIOGONL OMERIA VIRGATA, PENNIS	1990-XX-XX 2012-12-12 TE. JM CINEREUM, ETUM



California Department of Fish and Wildlife



Occurrence No.	19	Map Index: 01943	EO Index:	47104	Element Last Seen:	1934-06-07
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1934-06-07
Осс. Туре:	Natural/Nati	ve occurrence	Trend:	Unknown	Record Last Updated:	2002-01-28
Quad Summary:	San Pedro ((3311863)				
County Summary:	Los Angeles	s, Pacific Ocean				
Lat/Long:	33.70639 / -	118.29341		Accuracy:	1/5 mile	
UTM:	Zone-11 N3	730352 E380142		Elevation (ft):		
PLSS:	T05S, R13V	V, Sec. 30 (S)		Acres:	0.0	
Location:	POINT FER	MIN.				
Detailed Location:	EXACT LOC	CATION UNKNOWN. MAPP	ED BY CNDDB	IN GENERAL VICINITY OF POIL	NT FERMIN.	
Ecological:						
General:	ONLY SOU	RCE OF INFORMATION FO	OR THIS OCCUP	RRENCE IS A 1934 COLLECTIO	N BY FERMIN. NEEDS FEIL	DWORK.
General: Owner/Manager:	ONLY SOUI		OR THIS OCCUP	RRENCE IS A 1934 COLLECTIO	N BY FERMIN. NEEDS FEILI	DWORK.
			DR THIS OCCUF	RRENCE IS A 1934 COLLECTIO	N BY FERMIN. NEEDS FEILI	
Owner/Manager:	UNKNOWN					1946-06-12
Owner/Manager: Occurrence No.	UNKNOWN 20 Unknown		EO Index:	47105	Element Last Seen:	DWORK. 1946-06-12 1946-06-12 2002-01-28
Owner/Manager: Occurrence No. Occ. Rank:	UNKNOWN 20 Unknown	Map Index: 47105	EO Index: Presence:	47105 Presumed Extant	Element Last Seen: Site Last Seen:	1946-06-12 1946-06-12
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	UNKNOWN 20 Unknown Natural/Nati San Pedro (Map Index: 47105	EO Index: Presence:	47105 Presumed Extant	Element Last Seen: Site Last Seen:	1946-06-12 1946-06-12
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	UNKNOWN 20 Unknown Natural/Nati San Pedro (Map Index: 47105 ve occurrence (3311863) s, Pacific Ocean	EO Index: Presence:	47105 Presumed Extant	Element Last Seen: Site Last Seen:	1946-06-12 1946-06-12
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	UNKNOWN 20 Unknown Natural/Nati San Pedro (Los Angeles 33.71606 / -	Map Index: 47105 ve occurrence (3311863) s, Pacific Ocean	EO Index: Presence:	47105 Presumed Extant Unknown	Element Last Seen: Site Last Seen: Record Last Updated:	1946-06-12 1946-06-12
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	UNKNOWN 20 Unknown Natural/Nati San Pedro (Los Angeles 33.71606 / - Zone-11 N3	Map Index: 47105 ve occurrence (3311863) s, Pacific Ocean -118.31613	EO Index: Presence:	47105 Presumed Extant Unknown Accuracy:	Element Last Seen: Site Last Seen: Record Last Updated:	1946-06-12 1946-06-12
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	UNKNOWN 20 Unknown Natural/Nati San Pedro (Los Angeles 33.71606 / - Zone-11 N3 T05S, R14V	Map Index: 47105 ve occurrence (3311863) s, Pacific Ocean .118.31613 .731451 E378051	EO Index: Presence: Trend:	47105 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile	1946-06-12 1946-06-12
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	UNKNOWN 20 Unknown Natural/Nati San Pedro (Los Angeles 33.71606 / - Zone-11 N3 T05S, R14W WHITES PC	Map Index: 47105 ve occurrence (3311863) s, Pacific Ocean -118.31613 731451 E378051 V, Sec. 26 (S) DINT, WEST OF POINT FER	EO Index: Presence: Trend:	47105 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 0.0	1946-06-12 1946-06-12
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	UNKNOWN 20 Unknown Natural/Nati San Pedro (Los Angeles 33.71606 / - Zone-11 N3 T05S, R14W WHITES PC	Map Index: 47105 ve occurrence (3311863) s, Pacific Ocean -118.31613 731451 E378051 V, Sec. 26 (S) DINT, WEST OF POINT FER	EO Index: Presence: Trend:	47105 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 0.0	1946-06-12 1946-06-12
Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	UNKNOWN 20 Unknown Natural/Nati San Pedro (Los Angeles 33.71606 / - Zone-11 N3 T05S, R14W WHITES PC EXACT LOC	Map Index: 47105 ve occurrence (3311863) s, Pacific Ocean .118.31613 .731451 E378051 V, Sec. 26 (S) DINT, WEST OF POINT FER CATION UNKNOWN. MAPP	EO Index: Presence: Trend: RMIN.	47105 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: 1/5 mile 0.0 TES POINT.	1946-06-12 1946-06-12 2002-01-28





Crossosoma ca	lifornicum	1			Element Code: PDC	RO02020
Catalina crossoso						
Listing Status:		None		CNDDB Element Ran	ks: Global: G3	
J	State:	None			State: S3	
	Other:	Rare Plant Rank - 1B.2. SB	CalBG/RSABG	i-California/Rancho Santa Ana B	otanic Garden	
Habitat:	General:	CHAPARRAL, COASTAL S	_			
	Micro:	,		YONS, AND DRY, OPEN SUNN	Y SPOTS ON ROCKY CLAY.	5-535 M.
Occurrence No.	19	Map Index: 58899	EO Index:	58935	Element Last Seen:	1996-03-01
Occ. Rank:	Fair		Presence:	Presumed Extant	Site Last Seen:	1996-03-01
Осс. Туре:	Natural/Na	tive occurrence	Trend:	Unknown	Record Last Updated:	2019-09-16
Quad Summary:	San Pedro	(3311863)				
County Summary:	Los Angele	es				
Lat/Long:	33.74457 /	-118.35309		Accuracy:	80 meters	
UTM:	Zone-11 N	3734658 E374667		Elevation (ft):	580	
PLSS:	T05S, R14	W, Sec. 16, NE (S)		Acres:	0.0	
Location:	RANCHO	PALOS VERDES; NEAR UPF	PER END OF KL	ONDIKE CANYON.		
Detailed Location:	EAST OF I	DRAINAGE. MAPPED IN THE	E SW 1/4 OF TH	E NE 1/4 OF SECTION 16 ACC	ORDING TO A 1996 MAP BY	WOLF.
Ecological:	RIPARIAN					
		HABITIAT. ASSOCIATED W	TTH RHUS INTE	GRIFOLIA, DUDLEYA LANCEC	DLATA, AND GALIUM ANGUS	STIFOLIUM.
General:	2 PLANTS		1 SEED COLLE	EGRIFOLIA, DUDLEYA LANCEC CTION FROM "PALOS VERDES	,	
-	2 PLANTS IS ALSO A	OBSERVED IN 1996. A 1997	1 SEED COLLE		,	
General:	2 PLANTS IS ALSO A	OBSERVED IN 1996. A 199 ⁷ TTRIBUTED TO THIS OCCU	1 SEED COLLE		,	
General: Owner/Manager:	2 PLANTS IS ALSO A CITY OF R	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES	1 SEED COLLE IRRENCE.	CTION FROM "PALOS VERDES	S PENINSULA, N OF PORTUG	GUESE BEND"
General: Owner/Manager: Occurrence No.	2 PLANTS IS ALSO A CITY OF R 20 Good	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES	I SEED COLLE	CTION FROM "PALOS VERDES	Element Last Seen:	GUESE BEND" 2009-04-16
General: Owner/Manager: Occurrence No. Occ. Rank:	2 PLANTS IS ALSO A CITY OF R 20 Good Natural/Na	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES Map Index: 58910	I SEED COLLEG IRRENCE. EO Index: Presence:	CTION FROM "PALOS VERDES 58946 Presumed Extant	Element Last Seen:	GUESE BEND" 2009-04-16 2009-04-16
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type:	2 PLANTS IS ALSO A CITY OF R 20 Good Natural/Na	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES Map Index: 58910 tive occurrence (3311863)	I SEED COLLEG IRRENCE. EO Index: Presence:	CTION FROM "PALOS VERDES 58946 Presumed Extant	Element Last Seen:	GUESE BEND" 2009-04-16 2009-04-16
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	2 PLANTS IS ALSO A CITY OF R 20 Good Natural/Na San Pedro Los Angele	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES Map Index: 58910 tive occurrence (3311863)	I SEED COLLEG IRRENCE. EO Index: Presence:	CTION FROM "PALOS VERDES 58946 Presumed Extant	Element Last Seen:	GUESE BEND" 2009-04-16 2009-04-16
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	2 PLANTS IS ALSO A CITY OF R 20 Good Natural/Na San Pedro Los Angele 33.74167 /	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES Map Index: 58910 tive occurrence (3311863)	I SEED COLLEG IRRENCE. EO Index: Presence:	CTION FROM "PALOS VERDES 58946 Presumed Extant Unknown	Element Last Seen: Site Last Seen: Record Last Updated:	GUESE BEND" 2009-04-16 2009-04-16
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	2 PLANTS IS ALSO A CITY OF R 20 Good Natural/Na San Pedro Los Angele 33.74167 / Zone-11 N	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES Map Index: 58910 tive occurrence (3311863) es -118.34163	I SEED COLLEG IRRENCE. EO Index: Presence:	CTION FROM "PALOS VERDES 58946 Presumed Extant Unknown Accuracy:	Element Last Seen: Site Last Seen: Record Last Updated: specific area	GUESE BEND" 2009-04-16 2009-04-16
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	2 PLANTS IS ALSO A CITY OF R 20 Good Natural/Na San Pedro Los Angele 33.74167 / Zone-11 N T05S, R14	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES Map Index: 58910 tive occurrence (3311863) 25 -118.34163 3734321 E375725 W, Sec. 15, SW (S)	I SEED COLLE IRRENCE. EO Index: Presence: Trend:	CTION FROM "PALOS VERDES 58946 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Last Seen: Site Last Seen: Record Last Updated: specific area 1000 13.0	GUESE BEND" 2009-04-16 2009-04-16 2018-09-24
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	2 PLANTS IS ALSO A CITY OF R 20 Good Natural/Na San Pedro Los Angele 33.74167 / Zone-11 N T05S, R14 FORREST RANCHO I 3 POLYGO	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES Map Index: 58910 tive occurrence (3311863) 25 -118.34163 3734321 E375725 W, Sec. 15, SW (S) AL NATURE PRESERVE NE PALOS VERDES. DNS MAPPED ACCORDING	I SEED COLLE IRRENCE. EO Index: Presence: Trend: AR FORRESTA	CTION FROM "PALOS VERDES 58946 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Element Last Seen: Site Last Seen: Record Last Updated: specific area 1000 13.0 AIR MILE NW OF MARYMOU	GUESE BEND" 2009-04-16 2009-04-16 2018-09-24 JNT COLLEGE, N SURVEY
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	2 PLANTS IS ALSO A CITY OF R 20 Good Natural/Na San Pedro Los Angele 33.74167 / Zone-11 N T05S, R14 FORREST RANCHO I 3 POLYGO COORDIN COASTAL SALVIA M	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES Map Index: 58910 tive occurrence (3311863) 35 -118.34163 3734321 E375725 W, Sec. 15, SW (S) AL NATURE PRESERVE NE PALOS VERDES. DNS MAPPED ACCORDING ATES. WITHIN THE NORTH SAGE SCRUB ON N-FACING	AR FORRESTA	CTION FROM "PALOS VERDES 58946 Presumed Extant Unknown Accuracy: Elevation (ft): Acres: AL QUARRY BOWL, ABOUT 0.6 LAT/LONG COORDINATES FR / 1/4 OF SECTION 15 AND THE N-FACING ROCK OUTCROP. A DGONUM CINEREUM, ERIOPH	Element Last Seen: Site Last Seen: Record Last Updated: specific area 1000 13.0 AIR MILE NW OF MARYMOU ROM 2004, AND VEGETATIO EAST 1/2 OF THE SE 1/4 OI SSOCIATED WITH RHUS IN	GUESE BEND" 2009-04-16 2009-04-16 2018-09-24 JNT COLLEGE, N SURVEY F SECTION 16. TEGRIFOLIA,
General: Owner/Manager: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	2 PLANTS IS ALSO A CITY OF R 20 Good Natural/Na San Pedro Los Angele 33.74167 / Zone-11 N T05S, R14 FORREST RANCHO I 3 POLYGO COORDIN COASTAL SALVIA MI HETEROM SW POLY: FOR NE P	OBSERVED IN 1996. A 1997 TTRIBUTED TO THIS OCCU ANCHO PALOS VERDES Map Index: 58910 tive occurrence (3311863) 35 -118.34163 3734321 E375725 W, Sec. 15, SW (S) AL NATURE PRESERVE NE PALOS VERDES. DNS MAPPED ACCORDING ATES. WITHIN THE NORTH SAGE SCRUB ON N-FACING ELLIFERA, ARTEMISIA CALI IELES ARBUTIFOLIA, GALIL 2 PLANTS IN 1984, 4 PLAN	EO Index: Presence: Trend: AR FORRESTA TO 1991 MAPS 1/2 OF THE SW G SLOPE AND FORNICA, ERIO M ANGUSTIFC TS IN 1991. CEI	CTION FROM "PALOS VERDES 58946 Presumed Extant Unknown Accuracy: Elevation (ft): Acres: AL QUARRY BOWL, ABOUT 0.6 LAT/LONG COORDINATES FR / 1/4 OF SECTION 15 AND THE N-FACING ROCK OUTCROP. A DGONUM CINEREUM, ERIOPH	Element Last Seen: Site Last Seen: Record Last Updated: specific area 1000 13.0 AIR MILE NW OF MARYMOU ROM 2004, AND VEGETATIO EAST 1/2 OF THE SE 1/4 OI SSOCIATED WITH RHUS IN YLLUM CONFERTIFLORUM, SEEN IN 2009. 800 PLANTS	GUESE BEND" 2009-04-16 2009-04-16 2018-09-24 JNT COLLEGE, N SURVEY F SECTION 16. TEGRIFOLIA, REPORTED





Astragalus hor Horn's milk-vetch		ornii				Eleme	nt Code: PDFA	AB0F421
Listing Status:	Federal:	None		CND	DB Element Ranks	: Global:	GUT1	
	State:	None				State:	S1	
	Other:	Rare Plant Rank - 1B.1, BL	M_S-Sensitive					
Habitat:	General:	MEADOWS AND SEEPS, I	PLAYAS.					
	Micro:	LAKE MARGINS, ALKALIN	IE SITES. 75-350) M.				
Occurrence No.	28	Map Index: B4592	EO Index:	117528		Element	Last Seen:	1896-07-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last	Seen:	1896-07-XX
Осс. Туре:	Natural/N	ative occurrence	Trend:	Unknown		Record L	ast Updated:	2019-12-19
Quad Summary: County Summary:	•	Beach (3311768), Anaheim (3 les, Orange	311778), Seal Be	ach (3311861)), Los Alamitos (331°	1871), Long	Beach (331187	2)
Lat/Long:	33.78301	/ -118.06702			Accuracy:	5 miles		
UTM:	Zone-11 I	N3738609 E401211			Elevation (ft):			
PLSS:	T04S, R1	1W, Sec. 31 (S)			Acres:	49683.0		
Location:	ALAMITC	OS RANCH.						
Detailed Location:	ALAMITC	OCATION UNKNOWN. MAPF OS AND LOS ALAMITOS. THE AREA IS MUCH LOWER IN I	JEPSON MANU					
Ecological:	ALKALI F	LAT.						
General:	ONLY SC	OURCE OF INFORMATION FO	OR THIS SITE IS	AN 1896 MCC	CLATCHIE COLLEC	FION.		
	UNKNOV							





Astragalus pyc Ventura Marsh m	•	us var. lanosissimus			Element Code: PDF	AB0F7B1
Listing Status:	Federal:	Endangered		CNDDB Element Ra	nks: Global: G2T1	
	State:	Endangered			State: S1	
	Other:	Rare Plant Rank - 1B.1, SB Botanic Garden	_CalBG/RSABG	-California/Rancho Santa Ana I	Botanic Garden, SB_SBBG-Sa	nta Barbara
Habitat:	General:	MARSHES AND SWAMPS	, COASTAL DUN	IES, COASTAL SCRUB.		
	Micro:	WITHIN REACH OF HIGH BLUFFS. 1-60 M.	TIDE OR PROTE	ECTED BY BARRIER BEACHE	S, MORE RARELY NEAR SEE	EPS ON SANDY
Occurrence No.	4	Map Index: 01453	EO Index:	19295	Element Last Seen:	1951-07-19
Occ. Rank:	None		Presence:	Extirpated	Site Last Seen:	1981-XX-XX
Осс. Туре:	Natural/N	ative occurrence	Trend:	Unknown	Record Last Updated:	2010-02-03
Quad Summary:	Venice (3	311884), Beverly Hills (34118	14)			
County Summary:	Los Ange	les, Pacific Ocean				
Lat/Long:	33.98612	/ -118.45702		Accuracy:	1 mile	
UTM:	Zone-11 I	N3761573 E365419		Elevation (ft):	5	
PLSS:	T02S, R1	5W, Sec. 21 (S)		Acres:	0.0	
Location:	BALLON	A MARSHES AND RANCHO.				
Detailed Location:	"BALLON			OUTH PART OF VENICE. THIS MS", & COLLECTIONS FROM		
Ecological:						
General:				0 1951 ARE ATTRIBUTED TO IONS ARE PRESUMED EXTIR		BY BARNEBY
Owner/Manager:	UNKNOW	VN				



California Natural Diversity Database



Element Code: PDFAB0F8R2

Astragalus	tener	var	titi
Asuayalus	LEITEI	vai.	uu

Astragalus ten									
coastal dunes mi									
Listing Status:	Federal:	Endangered		CNDDB Element Ranks	s: Global: G2T1				
	State:	Endangered			State: S1				
	Other:	Rare Plant Rank - 1B.1, SB	_CalBG/RSABG	-California/Rancho Santa Ana Bot	anic Garden				
Habitat:	General:	eral: COASTAL BLUFF SCRUB, COASTAL DUNES, COASTAL PRAIRIE.							
	Micro:	MOIST, SANDY DEPRESS CLAY TERRACE. 1-45 M.	IONS OF BLUFF	S OR DUNES ALONG AND NEA	R THE PACIFIC OCEAN; O	NE SITE ON A			
Occurrence No.	4	Map Index: 23784	EO Index:	42744	Element Last Seen:	1903-04-12			
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1903-04-12			
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2017-02-22			
Quad Summary:	Inglewood	l (3311883)							
County Summary:	Los Angel	es							
Lat/Long:	33.98167	/ -118.33078		Accuracy:	1 mile				
UTM:	Zone-11 N	13760921 E377074		Elevation (ft):					
PLSS:	T02S, R14	4W, Sec. 22 (S)		Acres:	0.0				
Location:	NEAR HY	DE PARK.							
Detailed Location:	EXACT LO	OCATION UNKNOWN. MAPP	ED IN THE GEN	IERAL VICINITY OF HYDE PARK	•				
Ecological:	LOW GRO	DUND.							
General:		URCE OF INFORMATION FO	OR THIS SITE IS	A 1903 ABRAMS COLLECTION.	BARNEBY (1964) BELIEVE	S THIS SITE			
Owner/Manager:	UNKNOW	'N							



California Natural Diversity Database



Element Code: PDHYD0A0H0

Nama stenocarpa

Nama Stenocar	P					
mud nama						
Listing Status:		None		CNDDB Element Ranks		
	State:	None			State: S1S2	
	Other:	Rare Plant Rank - 2B.2				
Habitat:	General:	MARSHES AND SWAMPS.				
	Micro:	LAKE SHORES, RIVER BA	NKS, INTERMIT	TTENTLY WET AREAS. 15-815 M.		
Occurrence No.	21	Map Index: 80349	EO Index:	81336	Element Last Seen:	1924-07-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1924-07-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2010-10-11
Quad Summary:	Torrance (3311873)				
County Summary:	Los Angele	es				
Lat/Long:	33.78887	/ -118.28864		Accuracy:	4/5 mile	
UTM:	Zone-11 N	I3739493 E380698		Elevation (ft):		
PLSS:	T04S, R13	3W, Sec. 31 (S)		Acres:	0.0	
Location:	BIXBY SL	OUGH.				
Detailed Location:	-			MAPPED BY CNDDB AS BEST G	BUESS IN THE VICINITY O	F HARBOR
Ecological:	LAKE AND	D SURROUNDING MARSH A	REAS.			
LUUUUUU						
•						
General: Owner/Manager: Phacelia stellal	UNKNOW		OR THIS SITE IS	A 1924 DAVIDSON COLLECTION	N. NEEDS FIELDWORK.	YD0C510
General: Owner/Manager: Phacelia stellar Brand's star phace	UNKNOW	N	OR THIS SITE IS		Element Code: PDH	YD0C510
General: Owner/Manager: Phacelia stellar	UNKNOW ris celia Federal:	N	OR THIS SITE IS	A 1924 DAVIDSON COLLECTION	Element Code: PDH s: Global: G1	YD0C510
General: Owner/Manager: Phacelia stellar Brand's star phace	UNKNOW ris celia Federal: State:	N None None		CNDDB Element Ranks	Element Code: PDH s: Global: G1 State: S1	YD0C510
General: Owner/Manager: Phacelia stellar Brand's star phac Listing Status:	UNKNOW ris celia Federal: State: Other:	N None Rare Plant Rank - 1B.1, SB	_CalBG/RSABG		Element Code: PDH s: Global: G1 State: S1	YD0C510
General: Owner/Manager: Phacelia stellar Brand's star phace	UNKNOW ris celia Federal: State:	N None None	_CalBG/RSABG	CNDDB Element Ranks	Element Code: PDH s: Global: G1 State: S1	YD0C510
General: Owner/Manager: Phacelia stellar Brand's star phac Listing Status: Habitat:	UNKNOW ris Selia Federal: State: Other: General: Micro:	None None Rare Plant Rank - 1B.1, SB, COASTAL SCRUB, COAST OPEN AREAS. 3-370 M.	_CalBG/RSABG AL DUNES.	CNDDB Element Ranks	Element Code: PDH s: Global: G1 State: S1 anic Garden	
General: Owner/Manager: Phacelia stellar Brand's star phac Listing Status: Habitat: Occurrence No.	UNKNOW ris celia Federal: State: Other: General: Micro: 2	N None Rare Plant Rank - 1B.1, SB COASTAL SCRUB, COAST	_CaIBG/RSABG AL DUNES. EO Index:	CNDDB Element Ranks	Element Code: PDH s: Global: G1 State: S1 anic Garden Element Last Seen:	1909-XX-XX
General: Owner/Manager: Phacelia stellar Brand's star phac Listing Status: Habitat: Occurrence No. Occ. Rank:	UNKNOW ris celia Federal: State: Other: General: Micro: 2 Unknown	N None Rare Plant Rank - 1B.1, SB. COASTAL SCRUB, COAST OPEN AREAS. 3-370 M. Map Index: 83468	_CalBG/RSABG AL DUNES. EO Index: Presence:	CNDDB Element Ranks G-California/Rancho Santa Ana Bota 8663 Presumed Extant	Element Code: PDH s: Global: G1 State: S1 anic Garden Element Last Seen: Site Last Seen:	1909-XX-XX 1909-XX-XX
General: Owner/Manager: Phacelia stellar Brand's star phac Listing Status: Habitat: Occurrence No. Occ. Rank: Occ. Type:	UNKNOW ris Federal: State: Other: General: Micro: 2 Unknown Natural/Na	None None Rare Plant Rank - 1B.1, SB. COASTAL SCRUB, COAST OPEN AREAS. 3-370 M. Map Index: 83468	_CaIBG/RSABG AL DUNES. EO Index:	CNDDB Element Ranks	Element Code: PDH s: Global: G1 State: S1 anic Garden Element Last Seen:	1909-XX-XX
General: Owner/Manager: Phacelia stellar Brand's star phac Listing Status: Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	UNKNOW ris celia Federal: State: Other: General: Micro: 2 Unknown Natural/Na Venice (33	None None Rare Plant Rank - 1B.1, SB. COASTAL SCRUB, COAST OPEN AREAS. 3-370 M. Map Index: 83468 ative occurrence	_CalBG/RSABG AL DUNES. EO Index: Presence:	CNDDB Element Ranks G-California/Rancho Santa Ana Bota 8663 Presumed Extant	Element Code: PDH s: Global: G1 State: S1 anic Garden Element Last Seen: Site Last Seen:	1909-XX-XX 1909-XX-XX
General: Owner/Manager: Phacelia stellar Brand's star phac Listing Status: Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	UNKNOW ris celia Federal: State: Other: General: Micro: 2 Unknown Natural/Na Venice (33 Los Angele	None None Rare Plant Rank - 1B.1, SB. COASTAL SCRUB, COAST OPEN AREAS. 3-370 M. Map Index: 83468 ative occurrence 311884) es	_CalBG/RSABG AL DUNES. EO Index: Presence:	CNDDB Element Ranks G-California/Rancho Santa Ana Bota 8663 Presumed Extant Unknown	Element Code: PDH s: Global: G1 State: S1 anic Garden Element Last Seen: Site Last Seen: Record Last Updated:	1909-XX-XX 1909-XX-XX
General: Owner/Manager: Phacelia stellal Brand's star phac Listing Status: Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	UNKNOW ris celia Federal: State: Other: General: Micro: 2 Unknown Natural/Na Venice (33 Los Angele 33.95590 /	None None Rare Plant Rank - 1B.1, SB. COASTAL SCRUB, COAST OPEN AREAS. 3-370 M. Map Index: 83468 ative occurrence 311884) es	_CalBG/RSABG AL DUNES. EO Index: Presence:	CNDDB Element Ranks a-California/Rancho Santa Ana Bota 8663 Presumed Extant Unknown	Element Code: PDH s: Global: G1 State: S1 anic Garden Element Last Seen: Site Last Seen:	1909-XX-XX 1909-XX-XX
General: Owner/Manager: Phacelia stellar Brand's star phac Listing Status: Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	UNKNOW ris celia Federal: State: Other: General: Micro: 2 Unknown Natural/Na Venice (33 Los Angele 33.95590 / Zone-11 N	None None Rare Plant Rank - 1B.1, SB. COASTAL SCRUB, COAST OPEN AREAS. 3-370 M. Map Index: 83468 ative occurrence 311884) es (-118.44603 13758208 E366387	_CalBG/RSABG AL DUNES. EO Index: Presence:	CNDDB Element Ranks G-California/Rancho Santa Ana Bota 8663 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Code: PDH s: Global: G1 State: S1 anic Garden Element Last Seen: Site Last Seen: Record Last Updated: 3/5 mile	1909-XX-XX 1909-XX-XX
General: Owner/Manager: Phacelia stellal Brand's star phac Listing Status: Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	UNKNOW ris celia Federal: State: Other: General: Micro: 2 Unknown Natural/Na Venice (33 Los Angele 33.95590 / Zone-11 N	None None Rare Plant Rank - 1B.1, SB. COASTAL SCRUB, COAST OPEN AREAS. 3-370 M. Map Index: 83468 ative occurrence 311884) es	_CalBG/RSABG AL DUNES. EO Index: Presence:	CNDDB Element Ranks a-California/Rancho Santa Ana Bota 8663 Presumed Extant Unknown	Element Code: PDH s: Global: G1 State: S1 anic Garden Element Last Seen: Site Last Seen: Record Last Updated:	1909-XX-XX 1909-XX-XX
General: Owner/Manager: Phacelia stellar Brand's star phac Listing Status: Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	UNKNOW ris celia Federal: State: Other: General: Micro: 2 Unknown Natural/Na Venice (33 Los Angele 33.95590 / Zone-11 N T02S, R15 PLAYA DE	None None Rare Plant Rank - 1B.1, SB. COASTAL SCRUB, COAST OPEN AREAS. 3-370 M. Map Index: 83468 ative occurrence 311884) es (-118.44603 13758208 E366387 5W, Sec. 34 (S) EL REY.	_CalBG/RSABG AL DUNES. EO Index: Presence: Trend:	CNDDB Element Ranks G-California/Rancho Santa Ana Bota 8663 Presumed Extant Unknown Accuracy: Elevation (ft): Acres:	Element Code: PDH s: Global: G1 State: S1 anic Garden Element Last Seen: Site Last Seen: Record Last Updated: 3/5 mile 0.0	1909-XX-XX 1909-XX-XX 2013-09-17
General: Owner/Manager: Phacelia stellar Brand's star phac Listing Status: Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	UNKNOW ris celia Federal: State: Other: General: Micro: 2 Unknown Natural/Na Venice (33 Los Angele 33.95590 / Zone-11 N T02S, R15 PLAYA DE	None None Rare Plant Rank - 1B.1, SB. COASTAL SCRUB, COAST OPEN AREAS. 3-370 M. Map Index: 83468 ative occurrence 311884) es (-118.44603 13758208 E366387 5W, Sec. 34 (S) EL REY.	_CalBG/RSABG AL DUNES. EO Index: Presence: Trend:	CNDDB Element Ranks G-California/Rancho Santa Ana Bota 8663 Presumed Extant Unknown Accuracy: Elevation (ft):	Element Code: PDH s: Global: G1 State: S1 anic Garden Element Last Seen: Site Last Seen: Record Last Updated: 3/5 mile 0.0	1909-XX-XX 1909-XX-XX 2013-09-17

General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1909 COLLECTION BY DAVIDSON. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN



California Department of Fish and Wildlife



Coc. Rank: None Presence: Possibly Extipated Site Last Seen: 1923-03-19 Coc. Type: Nutural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-17 Quad Summary: Los Angleis 2013-09-17 County Summary: Los Angleis 2013-09-17 Cart Type: Natural/Native occurrence Accuracy: 1/5 mile Lat/Long: 33-01037 / -118.14066 Accres: 0.0 Location: DOWNEY CEMETERY. Elevation (ft): 90 Becological: SANDY SOLL SANDY SOLL SANDY SOLL General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE TWO 1923 OLLECTIONS BY MOSKEDAHL AND MUNZ. General: ONKNOWN Presence: Presence: Presence: Presence: 1937-03-20 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-29 Quad Summary: Los Angleis, Padilic Occon Instrumal/Native occurrence Trend:	VERSITY						
Occ. Type: NaturalNative occurrence Trend: Unknown Record Last Update: 2013-09-17 County Summary: Los Angeles	Occurrence No.	3	Map Index: 90351	EO Index:	1726	Element Last Seen:	1923-03-19
Guind Summary: South Gate (311882) Coundy Summary: Los Angeles LatUong: 33.91037 / 118.14066 LatUng: 33.91037 / 118.14066 LatUng: 33.91037 / 118.14066 Los Angeles 0.0 Location: DOWNEY CEMETERY. Detailed Location: DOWNEY CEMETERY. Benaind Location: DOWNEY CEMETERY. General: CNL 'y SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE TWO 1923 COLLECTIONS BY MOSKEDAHL AND MUNZ. REISE N SUGESTS THAT THIS POPULATION IS NO LONGER EXTANT (11994). OWNEY CEMETERY. Once: Manager: Unknown Presence: Presence: Presence: Presence: Presence: Presence: 1897-03-20 Occ. Rank: Unknown Presence: Trankown Record Last Seen: 1897-03-20 Occ. Rank: Unknown Presence: Trankown Record Last Updated: 2013-09-26 Quad Summary: Torrance (3311873). Redondo Beach (3311874) County Summary: Los Angeles, Paolfic Occan Los Angeles, Paolfic Occan LastLong: 33.82921 / -118.39056 Accuracy: 1 mile Location: NEAR REDONDO. Elevation (11;<	Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1923-03-19
County Summary: Los Angeles LarUlong: 33 d1037 / 116.14066 Acuracy: 1/5 mile UTM: Zone-11 N3752804 E394548 Elevation (th): 90 PLSS: T03S, R12V, Sec. 16. E (5) Acres: 0.0 Location: DOWNEY CEMETERY. Detailed Location: ExACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN THE VICINITY OF THE OLD DOWNEY CEMETERY. Reological: SANDY SOL. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE TWO 1923 COLLECTIONS BY MOSKEDAHL AND MUNZ. RebER SUGGEST STHAT THIS POPULATION IS NO LONGER EXTANT (1994). UNKNOWN Bresence: Presumed Extant Site Last Seen: 1897-03-20 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1897-03-20 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1897-03-20 County Summary: Los Angeles, Padific Ocuan Torrance (3311873), Redondo Beach (311874) County Summary: Site Last Seen: 1897-03-20 County Summary: Zos Angeles, Padific Ocuan Keres: 0.0 County Summary: Site Last Seen: 1897-03-20 </td <td>Осс. Туре:</td> <td>Natural/Nati</td> <td>ive occurrence</td> <td>Trend:</td> <td>Unknown</td> <td>Record Last Updated:</td> <td>2013-09-17</td>	Осс. Туре:	Natural/Nati	ive occurrence	Trend:	Unknown	Record Last Updated:	2013-09-17
LaULong: 33.91037/-118.14066 Accuracy: 1/5 mile UTM: Zone-11 N3752804 E394548 Elevation (ft): 90 PLSE: T03S, R12W, Sec. 16. E (S) Acres: 0.0 Location: DOWNEY CEMETERY. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN THE VICINITY OF THE OLD DOWNEY CEMETERY. Bealed Location: GAVE SO ENDOWNESS OF INFORMATION FOR THIS OCCURRENCE ARE TWO 1223 COLLECTIONS BY MOSKEDAHL AND MUNZ. REISER SUGGESTS THAT THIS POPULATION IS NO LONGER EXTANT (1994). Overer/Manager: UNKNOWN Cocurrence No. 4 Map Index: 01700 EO Index: 757 Element Last Seen: 1897-03-20 Occ. Rank: Unknown Cocurrence Trend: Unknown Record Last Updated: 2013-09-28 Quad Summary: Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.8221 /-118.39056 Accuracy: 1 mile UTM: Zone-11 N3794698 E371233 Elevation (ft): 50 PLSS: T04S, R14W, Sec. 18 (S) Acres: 0.0 Location: EXACT LOCATION UNKNOWN, ORIGINAL LABEL CITES 'NEAR RIDONDO,' MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Ecological: Control Summary: Venice (3311874) Cocurrence No. 15 Map Index: 01557 EO Index: 91447 Element Last Seen: 1932-04-24 Occ. Type: Natural/Native occurrence Trend: Unknown Cocurrence No. 15 Map Index: 01557 EO Index: 91447 Presence: Presumed Extant Site Last Seen: 1932-04-24 Occ. Type: Natural/Native occurrence Trend: Unknown Cocurrence No. 15 Map Index: 01557 EO Index: 91447 Element Last Seen: 1932-04-24 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-38 Quad Summary: Unein (331184) County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.91656 - 18.62179 Cocurrence No. 15 Map Index: 01557 EO Index: 91447 Element Last Seen: 1932-04-24 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-18 Quad Summary: Venice (331184) County Summary: Los Angeles, Pacific Ocean Lat/Long: Sangles, Paci	Quad Summary:	South Gate	(3311882)				
Control Construction Construction Construction Construction Construction PLSS: T03S, RT2W, Sec. 16, E (S) Acres: 0.0 0.0 Location: DOWNEY CEMETERY. Double (California) DOWNEY CEMETERY. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN THE VICINITY OF THE OLD DOWNEY CEMETERY. Sandy Soil. ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE TWO 1923 COLLECTIONS BY MOSKEDAHL AND MUNZ. REISER SUGGESTS THAT THIS POPULATION IS NO LONGER EXTANT (1994). Owner/Manager: UNKNOWN Occurrence No. 4 Map Index: 01700 EO Index: 757 Element Last Seen: 1897-03-20 Coc. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-26 Quad Summary: Coraction: Static Ceean Lat/Long: 33.8221 / -118.39066 Acres: 0.0 Lat/Long: 33.8221 / -118.39066 Acres: 0.0 Location: NEAR REDONDO. PLSS: Todas, R14W, Sec. 18 (S) Acres: 0.0 Location: Presence: Presumed Extant Site Last Seen: 1932-04-24 Courty Summary: LocAtTION	County Summary:	Los Angeles	S				
PLSS: T03S, R12W, Sec. 16, E (S) Acres: 0.0 Location: DOWNEY CEMETERY. Estimated Location: EAACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN THE VICINITY OF THE OLD DOWNEY CEMETERY. SANDY SOIL. SANDY SOIL. General: SANDY SOIL. SANDY SOIL. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE TWO 1923 COLLECTIONS BY MOSKEDAHL AND MUNZ. RESER SUGGESTS THAT THIS POPULATION IS NO LONGER EXTANT (1994). Owner/Manager: UNKNOWN Map Index: 01700 EO Index: 757 Element Last Seen:: 1897-03-20 Occ. Rank: Unknown Presence: Presence: Presence: 11897-03-20 Occ. Type: Natural/Native occurrence Tend: Unknown Record Last Updated: 2013-09-26 Outunt Summary: Torrance (3311873), Redondo Beach (3311874) Cocuracy: 1 mile 1897-03-20 Cound Summary: Torrance (3311873), Redondo Beach (3311874) Cocuracy: 1 mile 193-04-24 Cound Summary: Torrance (3311873), Redondo Beach (3311874) Cocuracy: 1 mile 193-04-24 Cound Summary: Volas, RI4W, Sec. 18 (S) Acrer	Lat/Long:	33.91037 / -	-118.14066		Accuracy:	1/5 mile	
Location: DOWNEY CEMETERY. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN THE VICINITY OF THE OLD DOWINEY CEMETERY. SANDY SOIL. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE TWO 1923 COLLECTIONS BY MOSKEDAHL AND MUNZ. Refiser SUGGESTS THAT THIS POPULATION IS NO LONGER EXTANT (1994). OWNEYNOWN Element Last Seen: 1897-03-20 Occ. Rank: Unknown Presence: Presence: Presence: 1897-03-20 Occ. Rank: Unknown Presence: Presence: Immov Record Last Updated: 2013-09-26 Quad Summary: Torrance (3311873), Redondo Beach (3311874) Unknown Record Last Updated: 2013-09-26 Quad Summary: Torrance (3311873), Redondo Beach (3311874) Unknown Record Last Updated: 2013-09-26 Quad Summary: Los Angeles, Pacific Ocean Lat/Long: 33.82921 / -118.39066 Accuracy: 1 mile Lat/Long: 33.82921 / -118.39065 Acreres: 0.0 Location: NEAR REDONDO. PLSS: Tods, Rithy, Sec. 18 (S) Acreres: 0.0 Location: NEAR REDONDO BEACH. Ste Last Seen:<	UTM:	Zone-11 N3	3752804 E394548		Elevation (ft)	: 90	
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN THE VICINITY OF THE OLD DOWNEY CEMETERY. General: ONLY SOUL. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE TWO 1523 COLLECTIONS BY MOSKEDAHL AND MUNZ. REISER SUGGESTS THAT THIS POPULATION IS NO LONGER EXTANT (1934). UNKNOWN Orner/Manager: UNKNOWN Occ. Type: Map Index: 01700 EO Index: 757 Element Last Seen: 1897-03-20 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-26 Quad Summary: Torrance (3311873). Redondo Beach (3311874) Record Last Updated: 2013-09-26 County Summary: Los Angeles, Pacific Ocean Lat/Long: 38.82921 / -118.39066 Accuracy: 1 mile LordLong: 38.8291 / -118.39066 Accuracy: 1 mile Image: Start St	PLSS:	T03S, R12V	N, Sec. 16, E (S)		Acres:	0.0	
Ecological: SANDY SOIL. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE TWO 1923 COLLECTIONS BY MOSKEDAHL AND MUNZ. REISER SUGGESTS THAT THIS POPULATION IS NO LONGER ARE TWO 1923 COLLECTIONS BY MOSKEDAHL AND MUNZ. REISER SUGGESTS THAT THIS POPULATION IS NO LONGER ARE TWO 1923 COLLECTIONS BY MOSKEDAHL AND MUNZ. Owner/Manager: UNKNOWN VINNOWN Presence: Presumed Extant (1994). Site Last Seen: 1897-03-20 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1897-03-20 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-26 Quad Summary: Torrance (3311873), Redondo Beach (3311874) Record Last Updated: 2013-09-26 Quad Summary: Los Angeles, Pacific Ocean Elevation (ft): 50 1897 Lat/Long: 33.8221 /-118.39056 Acres: 0.0 Location: NEAR REDONDO. Detailed Location: NEAR REDONDO. Elevation (ft): 50 1992-92 Ste Last Seen: 1932-0424 Acres: 0.0 1932-0424 Courrence No. 15 Map Index: 01557 El Index: 91447 Element Last Seen: <	Location:	DOWNEY C	CEMETERY.				
General: ONLY SQURCES OF INFORMATION FOR THIS OCCURRENCE ARE TWO 1923 COLLECTIONS BY MOSKEDAHL AND MUNZ. REISER SUGGESTS THAT THIS POPULATION IS NO LONGER EXTANT (1994). Owner/Manager: UNKNOWN Occurrence No. 4 Map Index: 01700 EO Index: 757 Element Last Seen: 1897-03-20 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1897-03-20 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1897-03-20 Occ. Type: Natural/Native occurrence Ternd: Unknown Record Last Updated: 2013-09-20 Oads Summary: Los Angeles, Pacific Ocean Kernd: Inile Stel Last Seen: 1897-03-20 Lat/Long: 33.8291 / -118.39056 Acres: 0.0 Elevation (ft): 50 PLSS: To4S, R14W, Sec. 18 (S) Acres: 0.0 Elevation (ft): 50 Detailed Location: NEAR REDONDO ELACT LOCATION UNKNOWN. ORIGINAL LABEL CITES 'NEAR RIDONDO,' MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Site Last Seen: 1932-04-24 General: ONLY SOURCE OF INFORMATION FOR THIS OCC	Detailed Location:	EXACT LOO	CATION UNKNOWN. MAPP	PED AS BEST G	UESS BY CNDDB IN THE VI	CINITY OF THE OLD DOWNEY	CEMETERY.
REISER SUGGESTS THAT THIS POPULATION IS NO LONGER EXTANT (1994). Owner/Manager: UNKNOWN Occurrence No. 4 Map Index: 01700 EO Index: 757 Element Last Seen: 1897-03-20 Doc. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1897-03-20 Doc. Type: Natural/Native occurrence Trend: Unknown Record Last Updated. 2013-09-26 Quad Summary: Torrance (3311873, Redondo Beach (3311874) Unknown Record Last Updated. 2013-09-26 Caunty Summary: Los Angeles, Pacific Ocean Accuracy: 1 mile Lat/Long: 33.82921 / -118.39056 Accuracy: 1 mile UTM: Zone-11 N3744088 E371323 Elevation (ft): 50 Record Last Updated. Detailed Location: NEAR REDONDO. Elevation (ft): 50 Record Last Updated. Owner/Manager: UNKNOWN Versen: SEST GUESS BY CNDDB NEAR Record Last Updated. Obtailed Location: PCATION UNKNOWN.<	Ecological:	SANDY SO	IL.				
Downer/Manager: UNKNOWN Docurrence No. 4 Map Index: 01700 EO Index: 767 Element Last Seen:: 1897-03-20 Doc. Rank: Unknown Presence: Presumed Extant Site Last Seen:: 1897-03-20 Doc. Type: Natural/Native occurrence Tend: Unknown Record Last Updated: 2013-09-26 Dada Summary: Los Angeles, Pacific Ocean Imile 2013-09-26 38.2921 /-118.39066 Accuracy:: 1 mile JTM: Zone-11 N3744088 E371323 Elevation (ft): 50 - - JSS: T045, R14W, Sec. 18 (S) Acres: 0.0 - - Location: NEAR REDONDO. Elevation (ft): 50 - - Pactorece No. EXACT LOCATION UNKNOWN, ORIGINAL LABEL CITES "NEAR RIDONDO," MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. - - - Sociogical: Son/LY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS FIELDWORK. - - - - - - - - - - - - - - - - - - </td <td>General:</td> <td></td> <td></td> <td></td> <td></td> <td>OLLECTIONS BY MOSKEDAHL</td> <td>AND MUNZ.</td>	General:					OLLECTIONS BY MOSKEDAHL	AND MUNZ.
Occurrence No. 4 Map Index: 01700 EO Index: 757 Element Last Seen: 1897-03-20 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1897-03-20 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-26 Qued Summary: Torrance (3311873), Redondo Beach (3311874) Unknown Record Last Updated: 2013-09-26 Qued Summary: Los Angeles, Pacific Ocean Elevation (ft): 50 1 <td>o "M</td> <td></td> <td></td> <td>ULATION IS NO</td> <td>LONGER EXTANT (1994).</td> <td></td> <td></td>	o "M			ULATION IS NO	LONGER EXTANT (1994).		
Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen:: 1897-03-20 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-26 Oud Summary: Los: Angeles, Pacific Ocean Imile 2013-09-26 Lat/Long: 33.82921 / -118.39056 Accuracy: 1 mile Imile UTM: Zone-11 N374088 E371323 Elevation (ft): 50 Imile PLSS: Tods, R14W, Sec. 18 (S) Acres: 0.0 Imile Location: NEAR REDONDO. Betailed Location EACCUT COCATION UNKNOWN, ORIGINAL LABEL CITES 'NEAR RIDONDO,' MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Imile Imile Ecological: General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS Imile Occurrence No. 15 Map Index: 01557 Presence: Presumed Extant Site Last Seen: 1932-04-24 Occur Type: Natural/Native occurrence Trend: Unknow Record Last Update: 2013-09-18 Quad Summary: Venice (3311824) Imile	Owner/Manager:	UNKNOWN					
Dec. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-26 Quad Summary: Los Angeles, Pacific Ocean Los Angeles, Pacific Ocean Imile Imile <td>Occurrence No.</td> <td>4</td> <td>Map Index: 01700</td> <td>EO Index:</td> <td>757</td> <td>Element Last Seen:</td> <td>1897-03-20</td>	Occurrence No.	4	Map Index: 01700	EO Index:	757	Element Last Seen:	1897-03-20
Qued Summary: Torrance (3311873), Redondo Beach (3311874) County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.82921 /-118.39056 Accuracy: 1 mile UTM: Zone-11 N3744088 E371323 Elevation (tt): 50 PLSS: T04S, R14W, Sec. 18 (S) Acres: 0.0 Location: NEAR REDONDO. EXACT LOCATION UNKNOWN, ORIGINAL LABEL CITES "NEAR RIDONDO," MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Ecological: General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS FIELDWORK. Owner/Manager: UNKNOWN Onc. The Source of the Courtence of the	Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1897-03-20
County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.82921 /-118.39056 Accuracy: 1 mile UTM: Zone-11 N3744088 E371323 Elevation (ft): 50 PLSS: T04S, R14W, Sec. 18 (S) Acres: 0.0 Location: NEAR REDONDO. EXACT LOCATION UNKNOWN, ORIGINAL LABEL CITES "NEAR RIDONDO," MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Ecological: General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS FIELDWORK. Owner/Manager: UNKNOWN Onc. The Source of the second seco	Осс. Туре:	Natural/Nati	ive occurrence	Trend:	Unknown	Record Last Updated:	2013-09-26
County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.82921 / -118.39056 Accuracy: 1 mile Lat/Long: 33.82921 / -118.39056 Accuracy: 1 mile UTM: Zone-11 N3744088 E371323 Elevation (ft): 50 PLSS: T04S, R14W, Sec. 18 (S) Acres: 0.0 Location: NEAR REDONDO. ExaCt LOCATION UNKNOWN. ORIGINAL LABEL CITES *NEAR RIDONDO,* MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Ecological: SALT LOCATION UNKNOWN. ORIGINAL LABEL CITES *NEAR RIDONDO,* MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Ecological: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS FIELDWORK. Owner/Manager: UNKNOWN Docc. Take: UNKNOWN Occ. Rank: Unknown Presence: Occ. Type: Natural/Native occurrence Trend: Unknown Cocc. datk: Unknown Presence: Presence: 1 mile County Summary: Los Angeles, Pacific Ocean 1 mile 2013-09-18 Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile 1 Location: El SEGUNDO. Elevation (ft):	Quad Summary:	Torrance (3	311873), Redondo Beach (3	3311874)			
UTM: Zone-11 N3744088 E371323 Elevation (ft): 50 PLSS: T04S, R14W, Sec. 18 (S) Acres: 0.0 Location: NEAR REDONDO. Acres: 0.0 Detailed Location: EXACT LOCATION UNKNOWN. ORIGINAL LABEL CITES "NEAR RIDONDO," MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Ecological: General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS FIELDWORK. Presence: 91447 Element Last Seen: 1932-04-24 Occurrence No. 15 Map Index: 01557 EO Index: 91447 Element Last Seen: 1932-04-24 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1932-04-24 Quad Summary: Venice (3311884) Unknown Record Last Updated: 2013-09-18 Quad Summary: Los Angeles, Pacific Ocean Elevation (ft): Imile Imile Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile Imile	County Summary:	,		,			
UTM: Zone-11 N3744088 E371323 Elevation (ft): 50 PLSS: T04S, R14W, Sec. 18 (S) Acres: 0.0 Location: NEAR REDONDO. Acres: 0.0 Detailed Location: EXACT LOCATION UNKNOWN. ORIGINAL LABEL CITES "NEAR RIDONDO," MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Ecological: General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS FIELDWORK. Image: 1932-04-24 Occurrence No. 15 Map Index: 01557 EO Index: 91447 Element Last Seen: 1932-04-24 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1932-04-24 Quad Summary: Venice (3311884) Unknown Record Last Updated: 2013-09-18 Quad Summary: Los Angeles, Pacific Ocean Accuracy: 1 mile Image: Image: Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile Image: Image: Image: Image: Image: Location: El SEGUNDO. Elevation (ft): Acres: 0.0 Image: Image: Image: Image: Image: Image: Im	Lat/Long:	33.82921 / -	-118.39056		Accuracy:	1 mile	
PLSS: T04S, R14W, Sec. 18 (S) Acres: 0.0 Location: NEAR REDONDO. Detailed Location: EXACT LOCATION UNKNOWN. ORIGINAL LABEL CITES "NEAR RIDONDO," MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Ecological: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS FIELDWORK. Owner/Manager: UNKNOWN Occ. Rank: UNknown Presence: Presence: Presence: Presumed Extant Site Last Seen: 1932-04-24 Occ. Rank: Unknown Presence: Presumed Extant Occ. Type: Natural/Native occurrence Trend: Unknown Quad Summary: Venice (3311884) Coean Imile County Summary: Los Angeles, Pacific Ocean Elevation (ft): Imile UTM: Zone-11 N3753655 E367981 Elevation (ft): Imile Imile PLSS: T03S, R15W, Sec. 14 (S) Acres: 0.0 Imile Location: El SEGUNDO. Elevation (ft): Imile Imile PLSS: T03S, R15W, Sec. 14 (S) Acres: 0.0 Imile	•				•		
Detailed Location: EXACT LOCATION UNKNOWN, ORIGINAL LABEL CITES "NEAR RIDONDO," MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Ecological: General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS FIELDWORK. Owner/Manager: UNKNOWN VINKNOWN Element Last Seen: 1932-04-24 Occurrence No. 15 Map Index: 01557 EO Index: 91447 Element Last Seen: 1932-04-24 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1932-04-24 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-18 Quad Summary: Los Angeles, Pacific Ocean Trend: Unknown Record Last Updated: 2013-09-18 Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile Elevation (ft): VIIII (S) Elevation (ft): VIIII (S) Elevation (ft): VIIII (S) VIIII (S) VIIII (S) Elevation (ft): VIIII (S) VIIII (S) <t< td=""><td>PLSS:</td><td>T04S, R14V</td><td><i>N</i>, Sec. 18 (S)</td><td></td><td></td><td></td><td></td></t<>	PLSS:	T04S, R14V	<i>N</i> , Sec. 18 (S)				
Detailed Location: EXACT LOCATION UNKNOWN, ORIGINAL LABEL CITES "NEAR RIDONDO," MAPPED AS BEST GUESS BY CNDDB NEAR PRESENT-DAY REDONDO BEACH. Ecological: General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS FIELDWORK. Owner/Manager: UNKNOWN VINKNOWN Element Last Seen: 1932-04-24 Occurrence No. 15 Map Index: 01557 EO Index: 91447 Element Last Seen: 1932-04-24 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1932-04-24 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-18 Quad Summary: Los Angeles, Pacific Ocean Trend: Unknown Record Last Updated: 2013-09-18 Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile Elevation (ft): VIIII PLSS: T03S, R15W, Sec. 14 (S) Acres: 0.0 VIIII VIIII SACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. SACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. SACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Bearied Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENER	Location:	NEAR RED	ONDO.				
PRESENT-DAY REDONDO BEACH. Ecological: General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS FIELDWORK. Owner/Manager: UNKNOWN Doccurrence No. 15 Map Index: 01557 EO Index: 91447 Element Last Seen: 1932-04-24 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1932-04-24 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-18 Quad Summary: Venice (3311884) Kecuracy: 1 mile 2013-09-18 Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile 1 1 UTM: Zone-11 N3753655 E367981 Elevation (ft): 1 1 1 PLSS: T03S, R15W, Sec. 14 (S) Acres: 0.0 1 1 Location: EL SEGUNDO. Elevation (ft): 1 1 1 1 1 PLSS: T03S, R15W, Sec. 14 (S) Acres: 0.0 0.0 1 1 1 1 1 1 1 1 1				INAL LABEL CIT	ES "NEAR RIDONDO." MAP	PED AS BEST GUESS BY CND	DB NEAR
General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS AN 1897 COLLECTION BY MCCLATCHIE. NEEDS Owner/Manager: UNKNOWN Occurrence No. 15 Map Index: 01557 EO Index: 91447 Element Last Seen: 1932-04-24 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1932-04-24 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-18 Quad Summary: Venice (3311884) Venice (3311884) Imile							
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Occurrence No. 15 Map Index: 01557 EO Index: 91447 Element Last Seen: 1932-04-24 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1932-04-24 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-18 Quad Summary: Venice (3311884) Venice (3311884) Accuracy: 1 mile Presence: 1 mile County Summary: Los Angeles, Pacific Ocean Accuracy: 1 mile Presence: 0.0 Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile Presence: 0.0 UTM: Zone-11 N3753655 E367981 Elevation (ft): O.0 Presence: 0.0 Location: El SEGUNDO. Acres: 0.0 O.0 Presence:	General:			OR THIS OCCUP	RENCE IS AN 1897 COLLE	CTION BY MCCLATCHIE. NEED	S
Occ. Rank:UnknownPresence:Presence:Presumed ExtantSite Last Seen:1932-04-24Occ. Type:Natural/Native occurrenceTrend:UnknownRecord Last Updated:2013-09-18Quad Summary:Venice (3311884)Venice (3311884)Ios Angeles, Pacific OceanIos Angeles, Pacific Ocea	Owner/Manager:						
Occ. Rank:UnknownPresence:Presence:Presumed ExtantSite Last Seen:1932-04-24Occ. Type:Natural/Native occurrenceTrend:UnknownRecord Last Updated:2013-09-18Quad Summary:Venice (3311884)UnknownLos Angeles, Pacific OceanImage: County Summary:Site Last Seen:1932-04-24Lat/Long:33.91505 / -118.42810Accuracy:1 mileImage: County Summary:Image: County Summary:<							
Doc. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2013-09-18 Quad Summary: Venice (3311884) Los Angeles, Pacific Ocean Accuracy: 1 mile 2013-09-18 Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile 1 mile UTM: Zone-11 N3753655 E367981 Elevation (ft): 0.0 Los Angeles, Pacific Ocean Acres: 0.0 2013-09-18 UTM: Zone-11 N3753655 E367981 Elevation (ft): 0.0 2013-09-18 Los Cantion: El SEGUNDO. Acres: 0.0 2013-09-18 Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Second DUNES, NEAR STRAND. Second DUNES, NEAR STRAND. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1931 COLLECTION BY BAUER AND A 1932 COLLECTION BY REMPEL. NEEDS FIELDWORK.			Map Index: 01557		-		
Quad Summary: Venice (3311884) County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile UTM: Zone-11 N3753655 E367981 PLSS: T03S, R15W, Sec. 14 (S) Acres: 0.0 Location: EL SEGUNDO. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Ecological: SAND DUNES, NEAR STRAND. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1931 COLLECTION BY BAUER AND A 1932 COLLECTION BY REMPEL. NEEDS FIELDWORK.							
County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile UTM: Zone-11 N3753655 E367981 Elevation (ft): PLSS: T03S, R15W, Sec. 14 (S) Acres: 0.0 Location: EL SEGUNDO. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Ecological: SAND DUNES, NEAR STRAND. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1931 COLLECTION BY BAUER AND A 1932 COLLECTION BY REMPEL. NEEDS FIELDWORK.	осс. Туре:	Natural/Nati	ive occurrence	I rend:	Unknown	Record Last Updated:	2013-09-18
Lat/Long: 33.91505 / -118.42810 Accuracy: 1 mile UTM: Zone-11 N3753655 E367981 Elevation (ft): PLSS: T03S, R15W, Sec. 14 (S) Acres: 0.0 Location: EL SEGUNDO. Exact LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Ecological: SAND DUNES, NEAR STRAND. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1931 COLLECTION BY BAUER AND A 1932 COLLECTION BY REMPEL. NEEDS FIELDWORK.	•	· ·					
UTM: Zone-11 N3753655 E367981 Elevation (ft): PLSS: T03S, R15W, Sec. 14 (S) Acres: 0.0 Location: EL SEGUNDO. Elevation UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Ecological: SAND DUNES, NEAR STRAND. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1931 COLLECTION BY BAUER AND A 1932 COLLECTION BY REMPEL. NEEDS FIELDWORK.	County Summary:	Los Angeles	s, Pacific Ocean				
PLSS: T03S, R15W, Sec. 14 (S) Acres: 0.0 Location: EL SEGUNDO. EL SEGUNDO. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Ecological: SAND DUNES, NEAR STRAND. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1931 COLLECTION BY BAUER AND A 1932 COLLECTION BY REMPEL. NEEDS FIELDWORK.	Lat/Long:	33.91505 / -	-118.42810		Accuracy:	1 mile	
Location: EL SEGUNDO. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Ecological: SAND DUNES, NEAR STRAND. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1931 COLLECTION BY BAUER AND A 1932 COLLECTION BY REMPEL. NEEDS FIELDWORK.	UTM:	Zone-11 N3	753655 E367981		Elevation (ft	:	
Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF EL SEGUNDO. Ecological: SAND DUNES, NEAR STRAND. General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1931 COLLECTION BY BAUER AND A 1932 COLLECTION BY REMPEL. NEEDS FIELDWORK.	PLSS:	T03S, R15V	N, Sec. 14 (S)		Acres:	0.0	
Ecological:SAND DUNES, NEAR STRAND.General:ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1931 COLLECTION BY BAUER AND A 1932 COLLECTION BY REMPEL. NEEDS FIELDWORK.	Location:	EL SEGUNI	DO.				
General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE A 1931 COLLECTION BY BAUER AND A 1932 COLLECTION BY REMPEL. NEEDS FIELDWORK.	Detailed Location:	EXACT LOO	CATION UNKNOWN. MAPP	PED BY CNDDB	IN THE GENERAL VICINITY	OF EL SEGUNDO.	
COLLECTION BY REMPEL. NEEDS FIELDWORK.	Ecological:	SAND DUN	ES, NEAR STRAND.				
	General:				JRRENCE ARE A 1931 COLL	ECTION BY BAUER AND A 193	2
Owner/Manager: UNKNOWN		COLLECTIC	IN BY REMPEL NEEDS F	IFLDWORK.			





	exicana				Element Code: PDM	AL110J0
salt spring check						
Listing Status:		None		CNDDB Element Ranks	s: Global: G4	
U	State:	None			State: S2	
	Other:	Rare Plant Rank - 2B.2, US	SFS_S-Sensitive			
Habitat:	General:	PLAYAS, CHAPARRAL, C SCRUB.	OASTAL SCRUE	8, LOWER MONTANE CONIFERC	OUS FOREST, MOJAVEAN I	DESERT
	Micro:	ALKALI SPRINGS AND MA	ARSHES. 3-2380	М.		
Occurrence No.	27	Map Index: A3696	EO Index:	105338	Element Last Seen:	1922-05-XX
Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1922-05-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2017-02-09
Quad Summary:	Inglewood	d (3311883), Venice (3311884	I), Hollywood (34	11813), Beverly Hills (3411814)		
County Summary:	Los Angel	les				
Lat/Long:	34.01264	/ -118.37575		Accuracy:	1 mile	
UTM:	Zone-11 N	N3764410 E372967		Elevation (ft):		
PLSS:	T02S, R14	4W, Sec. 8 (S)		Acres:	1987.0	
Location:	BETWEE	N W ADAMS AND CULVER (CITY.			
	EV A OT L					
Detailed Location:				UESS BY CNDDB AROUND HILL	S JUST EAST OF CULVER	CITY AND
	SOUTH O	OF THE WEST END OF WES			S JUST EAST OF CULVER	CITY AND
Ecological:	SOUTH O HILLSIDE	OF THE WEST END OF WES	T ADAMS STREI	ET.		CITY AND
Ecological: General:	SOUTH O HILLSIDE ONLY SO	DF THE WEST END OF WES	T ADAMS STREI			CITY AND
Ecological:	SOUTH O HILLSIDE	DF THE WEST END OF WES	T ADAMS STREI	ET.		CITY AND
Ecological: General: Owner/Manager:	SOUTH O HILLSIDE ONLY SO UNKNOW	DF THE WEST END OF WES URCE OF INFORMATION FO	T ADAMS STREI	ET.		
Ecological: General: Owner/Manager: Chorizanthe pa	SOUTH O HILLSIDE ONLY SO UNKNOW	DF THE WEST END OF WES URCE OF INFORMATION FO /N ernandina	T ADAMS STREI	ET.	NEEDS FIELDWORK.	
Ecological: General: Owner/Manager:	SOUTH O HILLSIDE ONLY SO UNKNOW	DF THE WEST END OF WES URCE OF INFORMATION FO /N ernandina	T ADAMS STREI	ET.	NEEDS FIELDWORK.	
Ecological: General: Owner/Manager: Chorizanthe pa San Fernando V	SOUTH O HILLSIDE ONLY SO UNKNOW	DF THE WEST END OF WES DURCE OF INFORMATION FO /N Pernandina wer	T ADAMS STREI	ET.	NEEDS FIELDWORK.	
Ecological: General: Owner/Manager: Chorizanthe pa San Fernando V	SOUTH O HILLSIDE ONLY SO UNKNOW Arryi var. fe alley spineflow Federal:	DF THE WEST END OF WES URCE OF INFORMATION FO /N ernandina wer None Endangered	T ADAMS STREI	ET.	NEEDS FIELDWORK. Element Code: PDPC s: Global: G2T1 State: S1	 GN040J1
Ecological: General: Owner/Manager: Chorizanthe pa San Fernando V	SOUTH O HILLSIDE ONLY SO UNKNOW Arryi var. fe alley spineflow Federal: State:	DF THE WEST END OF WES URCE OF INFORMATION FO /N ernandina wer None Endangered	T ADAMS STREI OR THIS SITE IS	ET. A 1922 MOREY COLLECTION. N CNDDB Element Ranks -California/Rancho Santa Ana Bot	NEEDS FIELDWORK. Element Code: PDPC s: Global: G2T1 State: S1	 GN040J1
Ecological: General: Owner/Manager: Chorizanthe pa San Fernando V Listing Status:	SOUTH O HILLSIDE ONLY SO UNKNOW Arryi var. fe alley spineflow Federal: State: Other:	DF THE WEST END OF WES DURCE OF INFORMATION FO /N ernandina ver None Endangered Rare Plant Rank - 1B.1, SE	T ADAMS STREI OR THIS SITE IS 3_CaIBG/RSABG	ET. A 1922 MOREY COLLECTION. N CNDDB Element Ranks -California/Rancho Santa Ana Bot	NEEDS FIELDWORK. Element Code: PDPC s: Global: G2T1 State: S1	GN040J1
Ecological: General: Owner/Manager: Chorizanthe pa San Fernando V Listing Status:	SOUTH O HILLSIDE ONLY SO UNKNOW Arryi var. fe alley spineflow Federal: State: Other: General:	DF THE WEST END OF WES URCE OF INFORMATION FO /N ernandina wer None Endangered Rare Plant Rank - 1B.1, SE COASTAL SCRUB, VALLE	T ADAMS STREI OR THIS SITE IS 3_CaIBG/RSABG	ET. A 1922 MOREY COLLECTION. N CNDDB Element Ranks -California/Rancho Santa Ana Bot	NEEDS FIELDWORK. Element Code: PDPC s: Global: G2T1 State: S1	 GN040J1
Ecological: General: Owner/Manager: Chorizanthe pa San Fernando V Listing Status: Habitat: Occurrence No.	SOUTH O HILLSIDE ONLY SO UNKNOW Arryi var. fe alley spineflow Federal: State: Other: General: Micro:	DF THE WEST END OF WES URCE OF INFORMATION FO /N ernandina wer None Endangered Rare Plant Rank - 1B.1, SE COASTAL SCRUB, VALLE SANDY SOILS. 15-1015 M	T ADAMS STREI OR THIS SITE IS 3_CaIBG/RSABG EY AND FOOTHII	ET. A 1922 MOREY COLLECTION. N CNDDB Element Ranks -California/Rancho Santa Ana Bot LL GRASSLAND. 41266	NEEDS FIELDWORK. Element Code: PDPC s: Global: G2T1 State: S1 anic Garden, USFS_S-Sens	GN040J1 itive
Ecological: General: Owner/Manager: Chorizanthe pa San Fernando V Listing Status: Habitat:	SOUTH O HILLSIDE ONLY SO UNKNOW Federal: State: Other: General: Micro: 9 None	DF THE WEST END OF WES URCE OF INFORMATION FO /N ernandina wer None Endangered Rare Plant Rank - 1B.1, SE COASTAL SCRUB, VALLE SANDY SOILS. 15-1015 M	T ADAMS STREI OR THIS SITE IS 3_CaIBG/RSABG Y AND FOOTHIN EO Index:	ET. A 1922 MOREY COLLECTION. N CNDDB Element Ranks -California/Rancho Santa Ana Bot LL GRASSLAND.	Element Code: PDPC s: Global: G2T1 State: S1 anic Garden, USFS_S-Sens Element Last Seen:	GN040J1 itive 1901-04-01
Ecological: General: Owner/Manager: Chorizanthe pa San Fernando V Listing Status: Habitat: Occurrence No. Occ. Rank: Occ. Type:	SOUTH O HILLSIDE ONLY SO UNKNOW Farryi var. fe alley spineflow Federal: State: Other: General: Micro: 9 None Natural/Na	DF THE WEST END OF WES DURCE OF INFORMATION FO /N ernandina ver None Endangered Rare Plant Rank - 1B.1, SE COASTAL SCRUB, VALLE SANDY SOILS. 15-1015 M Map Index: 23785 ative occurrence	T ADAMS STREI OR THIS SITE IS 3_CalBG/RSABG EY AND FOOTHIN EO Index: Presence:	ET. A 1922 MOREY COLLECTION. N CNDDB Element Ranks -California/Rancho Santa Ana Bot LL GRASSLAND. 41266 Possibly Extirpated	Element Code: PDPC S: Global: G2T1 State: S1 anic Garden, USFS_S-Sens Element Last Seen: Site Last Seen:	GN040J1 itive 1901-04-01 1901-04-01
Ecological: General: Owner/Manager: Chorizanthe pa San Fernando V Listing Status: Habitat: Occurrence No. Occ. Rank:	SOUTH O HILLSIDE ONLY SO UNKNOW Arryi var. fe alley spineflow Federal: State: Other: General: Micro: 9 None Natural/Na Venice (33	DF THE WEST END OF WES DURCE OF INFORMATION FO /N ernandina ver None Endangered Rare Plant Rank - 1B.1, SE COASTAL SCRUB, VALLE SANDY SOILS. 15-1015 M Map Index: 23785 ative occurrence	T ADAMS STREI OR THIS SITE IS 3_CalBG/RSABG EY AND FOOTHIN EO Index: Presence:	ET. A 1922 MOREY COLLECTION. N CNDDB Element Ranks -California/Rancho Santa Ana Bot LL GRASSLAND. 41266 Possibly Extirpated	Element Code: PDPC S: Global: G2T1 State: S1 anic Garden, USFS_S-Sens Element Last Seen: Site Last Seen:	GN040J1 itive 1901-04-01 1901-04-01
Ecological: General: Owner/Manager: Chorizanthe pa San Fernando V Listing Status: Habitat: Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	SOUTH O HILLSIDE ONLY SO UNKNOW Federal: State: Other: General: Micro: 9 None Natural/Na Venice (33 Los Angel	DF THE WEST END OF WES URCE OF INFORMATION FO /N ernandina wer None Endangered Rare Plant Rank - 1B.1, SE COASTAL SCRUB, VALLE SANDY SOILS. 15-1015 M Map Index: 23785 ative occurrence 311884)	T ADAMS STREI OR THIS SITE IS 3_CalBG/RSABG EY AND FOOTHIN EO Index: Presence:	ET. A 1922 MOREY COLLECTION. N CNDDB Element Ranks -California/Rancho Santa Ana Bot LL GRASSLAND. 41266 Possibly Extirpated	Element Code: PDPC S: Global: G2T1 State: S1 anic Garden, USFS_S-Sens Element Last Seen: Site Last Seen:	GN040J1 itive 1901-04-01 1901-04-01

UTM:	Zone-11 N3760097 E366198	Elevation (ft):	50
PLSS:	T02S, R15W, Sec. 28 (S)	Acres:	0.0
Location:	BALLONA HARBOR.		
Detailed Location:	MAPPED IN VICINITY OF THE MOUTH OF BALLONA CREEK & MA	RINA DEL REY.	
Ecological:			
General:	ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1901 COLLE	CTION BY ABRAM	S. NEEDS FIELDWORK.
Owner/Manager:	DFG-BALLONA WETLANDS ER, PVT		





Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1951-08-18 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2012-07-31 Ouad Summary: Seal Beach (3311861), Los Alamitos (3311871), Long Beach (3311872)	Nemacaulis de	nudata vai	r. denudata			Element Code: PDPC	GN0G011
State: None State: S2 Other: Rare Plant Rank - 1B.2, SB_CalBG/RSABG-Callfornia/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Zoo Habitat: General: COASTAL DUNES. Micro: 0-5 M. Occurrence No. 19 Map Index: 86418 EO Index: 1006 Element Last Seen: 1951-08-18 Occurrence No. 19 Map Index: 86418 EO Index: 1006 Record Last Updated: 2012-07-31 Doc. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2012-07-31 Dadd Summary: Los Angeles. Orange Los Angeles. Orange Los Angeles. Orange Los Angeles. Orange Los Angeles. 0.0 Location: SEAL BEACH AND ALAMITOS, LONG BEACH. Accuracy:: 1 mile Los Angeles. Orange Los Angeles. Orange Los Angeles. Orange Los Angeles. O.0 Location: SEAL BEACH AND ALAMITOS, LONG BEACH. Accuracy:: 1 mile Los Angeles. Orange Los Angeles. Coll Coll Tons NUNCOWN, MAPPED AS BEST GUESS BY CNDDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH AND ALAMITOS BAYPENNSULL EACH. Los Angeles. Dach	coast woolly-hea	ds					
Other: Rare Plant Rank + 1B.2, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Zoo CRES Native Gene Seed Bank CRES Native Gene Seed Bank Habitat: General: COASTAL DUNES. Micro: 0-5 M. Element Last Seen: 1951-08-18 Docc. Tape: Unknown Presence: Presumed Extant Site Last Seen: 1951-08-18 Occ. Tape: Natural/Native occurrence Trend: Unknown Record Last Updated: 2012-07-31 Quad Summary: Seal Beach (3311861), Los Alamitos (3311871), Long Beach (3311872) Los Angeles, Orange Imile Imile Lat/Long: 32,74819 /-118,11288 Accuracy: 1 mile Imile Imile UTM: Zone-11 N3734792 E396922 Elevation (ft):	Listing Status:	Federal:	None		CNDDB Element Rar	nks: Global: G3G4T2	
CRES Native Gene Seed Bank Habitat: General: COASTAL DUNES. Micro: 0-5 M. Decurrence No. 19 Map Index: 86418 EO Index: 1006 Element Last Seen: 1951-08-18 Dec. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1951-08-18 Dec. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2012-07-31 Buad Summary: Seal Beach (3311861), Los Alamitos (3311871), Long Beach (3311872) Los Angeles, Orange 1 mile Lat/Long: 33.7449 /-118.1128 Accuracy: 1 mile I UTM: Zone-11 N3734792 E396922 Elevation (ft): Accuracy: 1 mile UTM: Zone-11 N3734792 E396922 Elevation (ft): D.0 D.0 Detailed Location: EAX LEACH AND ALAMITOS, LONG BEACH. Accuracy: 1 mile I Detailed Location: COATTONS UNKNOWN. MAPPED AS BEST GUESS BY CNDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH AND ALAMITOS, LOUE SEAW/PENINSULA. COLLECTION FROM ANAHEIM LANDING ALSO ATTRIBUTED HERE; FORMER ANAHEIM LANDING LOCATTED IN CURRENT SEAL BEACH. Image: Image: Image: Image: Image: Image: </th <th></th> <th>State:</th> <th>None</th> <th></th> <th></th> <th>State: S2</th> <th></th>		State:	None			State: S2	
Micro: 0-6 M. Docurrence No. 19 Map Index: 86418 EO Index: 1006 Element Last Seen: 1951-08-18 Doc. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1951-08-18 Doc. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2012-07-31 Duad Summary: Los Angeles, Orange Los Angeles, Orange Imile Imile Imile Lat/Long: 33.74819 /-118.11288 Accuracy: 1 mile Imile Imile Los Angeles, Orange Elevation (ft): - 0.0 Imile Imile Location: SEAL BEACH AND ALAMITOS, LONG BEACH. Accuracy: 0.0 Imile Imile Location: SEAL BEACH AND ALAMITOS, LONG BEACH. Elevation (ft): 0 Imile Imile<		Other:			-California/Rancho Santa Ana B	otanic Garden, SB_CRES-Sa	n Diego Zoo
Occurrence No. 19 Map Index: 86418 EO Index: 1006 Element Last Seen: 1951-08-18 Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1951-08-18 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2012-07-31 Quad Summary: Los Angeles, Orange Los Angeles, Orange 1 mile 2012-07-31 Lat/Long: 33.74819 /-118.11228 Accuracy: 1 mile 2012-07-31 UTM: Zone-11 N374792 E396922 Elevation (ft): 2012-07-31 Lat/Long: 33.74819 /-118.11228 Accuracy: 1 mile Lat/Location: SEAL BEACH AND ALAMITOS, LONG BEACH. Acces: 0.0 Location: EXACT LOCATIONS UNKNOWN, MAPPED AS BEST GUESS BY CNDDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH. ANDING LOCATED IN CURRENT SEAL BEACH. Ecological: GoccurRENCE IS PRIMARILY BASED ON A 1901 ABRAMS COLLECTION, NAND ANA 1951 PERSON COLLECTION, GUENERAL COLLECTION S FORM LONG BEACH FROM 1891, 1896, AND 1900 ARE ALSO ATTRIBUTED TO THE OCCURRENCE. INCLUDES FORMER E0 #22. Outerence No. 21 Map Index: 27996 EO Index: 22217 Element Last Seen: <th>Habitat:</th> <th>General:</th> <th>COASTAL DUNES.</th> <th></th> <th></th> <th></th> <th></th>	Habitat:	General:	COASTAL DUNES.				
Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1951-08-18 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2012-07-31 Oud Summary: Seal Beach (3311861), Los Alamitos (3311871), Long Beach (3311872) Image: Comparison of Compar		Micro:	0-5 M.				
Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2012-07-31 Quad Summary: Seal Beach (3311861), Los Alamitos (3311871), Long Beach (3311872). Los Angeles, Orange 1 1 2	Occurrence No.	19	Map Index: 86418	EO Index:	1006	Element Last Seen:	1951-08-18
Dud Summary: Seal Beach (3311861), Los Alamitos (3311871), Long Beach (3311872) County Summary: Los Angeles, Orange Lat/Long: 33.74819 / -118.11288 Accuracy: 1 mile UTM: Zone-11 N3734792 E396922 Elevation (ft): PLSS: TOSS, R12W, Sec. 14 (S) Acres: 0.0 Location: SEAL BEACH AND ALAMITOS, LONG BEACH. EXACT LOCATIONS UNKNOWN. MAPPED AS BEST GUESS BY CNDDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH AND ALAMITOS BAY/PENINSULA. COLLECTION FROM ANAHEIM LANDING ALSO ATTRIBUTED HERE; FORMER ANAHEIM LANDING LOCATED IN CURRENT SEAL BEACH. Ecological: General: OCCURRENCE IS PRIMARILY BASED ON A 1901 ABRAMS COLLECTION, A 1925 JONES COLLECTION, AND A 1951 PEIRSOL COLLECTION, GENERAL COLLECTIONS FROM LONG BEACH FROM 1891, 1896, AND 1900 ARE ALSO ATTRIBUTED TO THIS OCCURRENCE. INCLUDES FORMER EO #22. Owner/Manager: UNKNOWN Occurrence No. 21 Map Index: 27996 EO Index: 22217 Element Last Seen: 1905-XX-XX Occurrence No. 21 Map Index: 27996 EO Index: 22217 Elevation (ft): 20 County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.74045 / -118.26454 Accuracy: 3/5 mile Lat/Long: 33.74045 / -118.26454 Acres: 0.0 Location: Los Angeles, Pacific Ocean Lat/Long: 20<	Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1951-08-18
County Summary: Los Angeles, Orange Lat/Long: 33.74819 / -118.11288 Accuracy: 1 mile Lat/Long: 23.74819 / -118.11288 Accuracy: 1 mile UTM: Zone-11 N3734792 E396922 Elevation (ft): PLSS: TOSS, R12W, Sec. 14 (S) Acres: 0.0 Location: SEAL BEACH AND ALAMITOS, LONG BEACH. EXACT LOCATIONS UNKNOWN, MAPPED AS BEST GUESS BY CNDDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH AND ALAMITOS BAY/PENINSULA. COLLECTION FROM ANAHEIM LANDING ALSO ATTRIBUTED HERE; FORMER ANAHEIM LANDING LOCATED IN CURRENT SEAL BEACH. Ecological: General: OCCURRENCE IS PRIMARILY BASED ON A 1901 ABRAMS COLLECTION, A 1925 JONES COLLECTION, AND A 1951 PEIRSOI COLLECTION, GENERAL COLLECTIONS FROM LONG BEACH FROM 1891, 1896, AND 1900 ARE ALSO ATTRIBUTED TO THIS OCCURRENCE. INCLUDES FORMER EO 422. Owner/Manager: UNKNOWN Occurrence No. 21 Map Index: 27996 EO Index: 22217 Element Last Seen: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1996-06-11 Quad Summary: San Pedro (3311863) County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.74045 / -118.26454 Accuracy: 3/5 mile Lat/Long: 33.74045 / -118.26454 Acres: 0.0 OL PLSS	Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	2012-07-31
Latuong: 33.74819 / -118.11288 Accuracy: 1 mile Lutong: 33.74819 / -118.11288 Accuracy: 1 mile UTM: Zone-11 N3734792 E396922 Elevation (ft): PLSS: T05S, R12W, Sec. 14 (S) Acres: 0.0 Location: SEAL BEACH AND ALAMITOS, LONG BEACH. EXACT LOCATIONS UNKNOWN, MAPPED AS BEST GUESS BY CNDDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH AND ALAMITOS BAY/PENINSULA. COLLECTION FROM ANAHEIM LANDING ALSO ATTRIBUTED HERE; FORMER ANAHEIM LANDING LOCATED IN CURRENT SEAL BEACH. Ecological: General: OCCURRENCE IS PRIMARILY BASED ON A 1901 ABRAMS COLLECTION, A 1925 JONES COLLECTION, AND A 1951 PEIRSOI COLLECTION, GENERAL COLLECTIONS FROM LONG BEACH FROM 1881, 1896, AND 1900 ARE ALSO ATTRIBUTED TO THIS OCCURRENCE. INCLUDES FORMER EO #22. Owner/Manager: UNKNOWN Presence: Presumed Extant Site Last Seen: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 196-06-11 Quad Summary: San Pedro (3311863) County Summary: Sa 7.4045 / -118.26454 Accuracy: 3/5 mile Lat/Long: 33.74045 / -118.26454 Acres: 0.0 Location: EAST SAN PEDRO, TERMINAL ISLAND. Detailed Location: EAST SAN PEDRO, TERMINAL ISLAND. Eleva	Quad Summary:	Seal Beac	h (3311861), Los Alamitos (33	11871), Long B	each (3311872)		
UTM: Zone-11 N3734792 E396922 Elevation (ft): PLSS: T05S, R12W, Sec. 14 (S) Acres: 0.0 Location: SEAL BEACH AND ALAMITOS, LONG BEACH. EXACT LOCATIONS UNKNOWN, MAPPED AS BEST GUESS BY CNDDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH AND ALAMITOS BAY/PENINSULA. COLLECTION FROM ANAHEIM LANDING ALSO ATTRIBUTED HERE; FORMER ANAHEIM LANDING LOCATED IN CURRENT SEAL BEACH. Ecological: OCCURRENCE IS PRIMARILY BASED ON A 1901 ABRAMS COLLECTION, A 1925 JONES COLLECTION, AND A 1951 PEIRSOI COLLECTION, GENERAL CULDES FORMER EO #22. Owner/Manager: UNKNOWN Doccurrence No. 21 Map Index: 27996 EO Index: 22217 Elevation (ft): Site Last Seen: 1905-XX-XX Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1906-06-11 Quad Summary: San Pedro (3311863) Elevation (ft): 20 PLSS: T05S, R13W (S) Collection: Elevation (ft): 20 PLSS: T05S, R13W (S) Acres: 0.0 Location: EAST SAN PEDRO, TERMINAL ISLAND. Defailed Location: EAST SAN PEDRO, TERMINAL ISLAND.	County Summary:	Los Angele	es, Orange				
UTM: Zone-11 N3734792 E396922 Elevation (ft): PLSS: T05S, R12W, Sec. 14 (S) Acres: 0.0 Location: SEAL BEACH AND ALAMITOS, LONG BEACH. EXACT LOCATIONS UNKNOWN, MAPPED AS BEST GUESS BY CNDDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH AND ALAMITOS BA/PENINSULA. COLLECTION FROM ANAHEIM LANDING ALSO ATTRIBUTED HERE; FORMER ANAHEIM LANDING LOCATED IN CURRENT SEAL BEACH. Ecological: OCCURRENCE IS PRIMARILY BASED ON A 1901 ABRAMS COLLECTION, A 1925 JONES COLLECTION, AND A 1951 PEIRSOI COLLECTION, GENERAL CULDES FORME RO #22. Owner/Manager: UNKNOWN VOner/Manager: UNKNOWN Occurrence No. 21 Map Index: 27996 EO Index: 22217 Element Last Seen: 1905-XX-XX Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1906-611 Quad Summary: San Pedro (3311863) Elevation (ft): 20 Elevation (ft): 20 Location: EAST SAN PEDRO, TERMINAL ISLAND. Acres: 0.0 Elevation (ft): 20 PLSS: ToSS, R13W (S) Acres: 0.0 Elevation (ft): 20 Elevation	Lat/Long:	33.74819	/ -118.11288		Accuracy:	1 mile	
Location: SEAL BEACH AND ALAMITOS, LONG BEACH. Detailed Location: EXACT LOCATIONS UNKNOWN. MAPPED AS BEST GUESS BY CNDDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH AND ALAMITOS BAY/PENINSULA. COLLECTION FROM ANAHEIM LANDING ALSO ATTRIBUTED HERE; FORMER ANAHEIM LANDING LOCATED IN CURRENT SEAL BEACH. Ecological: General: OCCURRENCE IS PRIMARILY BASED ON A 1901 ABRAMS COLLECTION, A 1925 JONES COLLECTION, AND A 1951 PEIRSOI COLLECTION, GENERAL COLLECTIONS FROM LONG BEACH FROM 1891, 1896, AND 1900 ARE ALSO ATTRIBUTED TO THIS OCCURRENCE. INCLUDES FORMER EO #22. Downer/Manager: UNKNOWN Doccurrence No. 21 Map Index: 27996 EO Index: 22217 Element Last Seen: 1905-XX-XX Doc. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1905-XX-XX Doc. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1996-06-11 Quad Summary: San Pedro (3311863) County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.74045 / -118.26454 ACCURACY: 3/5 mile UTM: Zone-11 N3734096 E382864 Elevation (ft): 20 PLSS: TOSS, R13W (S) Acres: 0.0 Location: EAST SAN PEDRO, TERMINAL ISLAND. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN GENERAL VICINITY OF EAST SAN PEDRO ON TERMINAL ISLAND. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN GENERAL VICINITY OF EAST SAN PEDRO ON TERMINAL ISLAND. TERMINAL ISLAND. Betological: SANDY SEA BEACHES. General: OCCURRENCE IS BASED ON A 1898 GRANT COLLECTION FROM EAST SAN PEDRO AND A 1901-1905 GRANT COLLECTION FROM TERMINAL ISLAND. NEEDS FIELDWORK.	UTM:	Zone-11 N	I3734792 E396922		Elevation (ft):		
Detailed Location: EXACT LOCATIONS UNKNOWN. MAPPED AS BEST GUESS BY CNDDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH AND ALAMITOS BAY/PENINSULA. COLLECTION FROM ANAHEIM LANDING ALSO ATTRIBUTED HERE; FORMER ANAHEIM LANDING LOCATED IN CURRENT SEAL BEACH. Ecological: OCCURRENCE IS PRIMARILY BASED ON A 1901 ABRAMS COLLECTION, A 1925 JONES COLLECTION, AND A 1951 PEIRSOI COLLECTION, GENERAL COLLECTIONS FROM LONG BEACH FROM 1891, 1896, AND 1900 ARE ALSO ATTRIBUTED TO THIS OCCURRENCE. INCLUDES FORMER EO #22. Owner/Manager: UNKNOWN VNKNOWN Map Index: 27996 EO Index: 22217 Element Last Seen: 1905-XX-XX Occ. Rank: Unknown Unknown Presence: Presumed Extant Site Last Seen: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1905-XX-XX Occurrence is San Pedro (3311863) Cocurencocci 3/5 mile Untrendot	PLSS:	T05S, R12	2W, Sec. 14 (S)		Acres:	0.0	
Detailed Location: EXACT LOCATIONS UNKNOWN. MAPPED AS BEST GUESS BY CNDDB TO INCLUDE GENERAL VICINITIES OF SEAL BEACH AND ALAMITOS BAY/PENINSULA. COLLECTION FROM ANAHEIM LANDING ALSO ATTRIBUTED HERE; FORMER ANAHEIM LANDING LOCATED IN CURRENT SEAL BEACH. Ecological: OCCURRENCE IS PRIMARILY BASED ON A 1901 ABRAMS COLLECTION, A 1925 JONES COLLECTION, AND A 1951 PEIRSOI COLLECTION, GENERAL COLLECTIONS FROM LONG BEACH FROM 1891, 1896, AND 1900 ARE ALSO ATTRIBUTED TO THIS OCCURRENCE. INCLUDES FORMER EO #22. Owner/Manager: UNKNOWN VNKNOWN Map Index: 27996 EO Index: 22217 Element Last Seen: 1905-XX-XX Occ. Rank: Unknown Unknown Presence: Presumed Extant Site Last Seen: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1905-XX-XX Occurrence is San Pedro (3311863) Cocurencocci 3/5 mile Untrendot	Location:	SEAL BEA	ACH AND ALAMITOS. LONG E	BEACH.			
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COLLECTION. GENERAL COLLECTIONS FROM LONG BEACH FROM 1891, 1896, AND 1900 ARE ALSO ATTRIBUTED TO THIS OCCURRENCE. INCLUDES FORMER EO #22. Owner/Manager: UNKNOWN Occurrence No. 21 Map Index: 27996 EO Index: 22217 Element Last Seen: 1905-XX-XX Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1996-06-11 Quad Summary: San Pedro (3311863)	Ecological:	-		-			
Occurrence No. 21 Map Index: 27996 EO Index: 22217 Element Last Seen: 1905-XX-XX Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1996-06-11 Quad Summary: San Pedro (3311863) Unknown Record Last Updated: 1996-06-11 Quad Summary: Los Angeles, Pacific Ocean Accuracy: 3/5 mile Image: San Pedro (3311863) Image: San Ped	General:	COLLECT	ION. GENERAL COLLECTION	NS FROM LONG			
Occ. Rank: Unknown Presence: Presumed Extant Site Last Seen: 1905-XX-XX Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1905-XX-XX Qued Summary: San Pedro (3311863) Uos Angeles, Pacific Ocean Interval Accuracy: 3/5 mile Lat/Long: 33.74045 / -118.26454 Accuracy: 3/5 mile Interval Interval UTM: Zone-11 N3734096 E382864 Elevation (ft): 20 Interval Inte	Owner/Manager:	UNKNOW	N				
Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 1996-06-11 Quad Summary: San Pedro (3311863) Los Angeles, Pacific Ocean Accuracy: 3/5 mile Lat/Long: 33.74045 / -118.26454 Accuracy: 3/5 mile UTM: Zone-11 N3734096 E382864 Elevation (ft): 20 PLSS: T05S, R13W (S) Acres: 0.0 Location: EAST SAN PEDRO, TERMINAL ISLAND. Elevation (ft): 20 Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN GENERAL VICINITY OF EAST SAN PEDRO ON TERMINAL ISLAND. Ecological: SANDY SEA BEACHES. General: OCCURRENCE IS BASED ON A 1898 GRANT COLLECTION FROM EAST SAN PEDRO AND A 1901-1905 GRANT COLLECTION FROM TERMINAL ISLAND. NEEDS FIELDWORK.	Occurrence No.	21	Map Index: 27996	EO Index:	22217	Element Last Seen:	1905-XX-XX
Quad Summary: San Pedro (3311863) County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.74045 / -118.26454 Accuracy: 3/5 mile Lat/Long: 33.74045 / -118.26454 Accuracy: 3/5 mile UTM: Zone-11 N3734096 E382864 Elevation (ft): 20 PLSS: T05S, R13W (S) Acres: 0.0 Location: EAST SAN PEDRO, TERMINAL ISLAND. Exact LocAtion UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN GENERAL VICINITY OF EAST SAN PEDRO ON TERMINAL ISLAND. Ecological: SANDY SEA BEACHES. OCCURRENCE IS BASED ON A 1898 GRANT COLLECTION FROM EAST SAN PEDRO AND A 1901-1905 GRANT COLLECTION FROM TERMINAL ISLAND. NEEDS FIELDWORK.	Occ. Rank:	Unknown		Presence:	Presumed Extant	Site Last Seen:	1905-XX-XX
County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.74045 / -118.26454 Accuracy: 3/5 mile UTM: Zone-11 N3734096 E382864 Elevation (ft): 20 PLSS: T05S, R13W (S) Acres: 0.0 Location: EAST SAN PEDRO, TERMINAL ISLAND. Exact Location UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN GENERAL VICINITY OF EAST SAN PEDRO ON TERMINAL ISLAND. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN GENERAL VICINITY OF EAST SAN PEDRO ON TERMINAL ISLAND. Ecological: SANDY SEA BEACHES. OCCURRENCE IS BASED ON A 1898 GRANT COLLECTION FROM EAST SAN PEDRO AND A 1901-1905 GRANT COLLECTION FROM TERMINAL ISLAND. NEEDS FIELDWORK.	Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown	Record Last Updated:	1996-06-11
County Summary: Los Angeles, Pacific Ocean Lat/Long: 33.74045 / -118.26454 Accuracy: 3/5 mile UTM: Zone-11 N3734096 E382864 Elevation (ft): 20 PLSS: T05S, R13W (S) Acres: 0.0 Location: EAST SAN PEDRO, TERMINAL ISLAND. Exact Location UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN GENERAL VICINITY OF EAST SAN PEDRO ON TERMINAL ISLAND. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN GENERAL VICINITY OF EAST SAN PEDRO ON TERMINAL ISLAND. Ecological: SANDY SEA BEACHES. OCCURRENCE IS BASED ON A 1898 GRANT COLLECTION FROM EAST SAN PEDRO AND A 1901-1905 GRANT COLLECTION FROM TERMINAL ISLAND. NEEDS FIELDWORK.	Quad Summary:	San Pedro) (3311863)				
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UTM: Zone-11 N3734096 E382864 Elevation (ft): 20 PLSS: T05S, R13W (S) Acres: 0.0 Location: EAST SAN PEDRO, TERMINAL ISLAND. Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN GENERAL VICINITY OF EAST SAN PEDRO ON TERMINAL ISLAND. Ecological: SANDY SEA BEACHES. General: OCCURRENCE IS BASED ON A 1898 GRANT COLLECTION FROM EAST SAN PEDRO AND A 1901-1905 GRANT COLLECTION FROM TERMINAL ISLAND. NEEDS FIELDWORK.	Lat/Long:	33.74045	/ -118.26454		Accuracy:	3/5 mile	
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General: OCCURRENCE IS BASED ON A 1898 GRANT COLLECTION FROM EAST SAN PEDRO AND A 1901-1905 GRANT COLLECTION FROM TERMINAL ISLAND. NEEDS FIELDWORK.	Ecological:		-				
	General:				CTION FROM EAST SAN PEDF	RO AND A 1901-1905 GRANT	COLLECTION
	Owner/Manager:	-					





Navarretia foss	salis					Eleme	nt Code: PDPI	_M0C080
spreading navarr	etia							
Listing Status:	Federal:	Threatened		CNI	DDB Element Rank	s: Global:	G2	
	State:	None				State:	S2	
	Other:	Rare Plant Rank - 1B.1, SE CRES Native Gene Seed E		i-California/Ra	ncho Santa Ana Bo	tanic Garden	, SB_CRES-Sa	n Diego Zoo
Habitat:	General:	VERNAL POOLS, CHENO	POD SCRUB, M	ARSHES AND	SWAMPS, PLAYA	S.		
	Micro:	SAN DIEGO HARDPAN A SURROUDED BY OTHER			RNAL POOLS; IN S	WALES & VI	ERNAL POOLS	, OFTEN
Occurrence No.	40	Map Index: 28742	EO Index:	47436		Element	Last Seen:	1906-07-19
Occ. Rank:	None		Presence:	Extirpated		Site Last	t Seen:	1906-07-19
Осс. Туре:	Natural/N	ative occurrence	Trend:	Unknown		Record I	_ast Updated:	2002-03-15
Quad Summary:	Inglewood	d (3311883)						
County Summary:	Los Ange	les						
Lat/Long:	33.95930	/ -118.35104			Accuracy:	1 mile		
UTM:	Zone-11 I	N3758465 E375170			Elevation (ft):			
PLSS:	T02S, R1	4W (S)			Acres:	0.0		
Location:	SINK NE	AR INGLEWOOD.						
Detailed Location:	EXACT L	OCATION UNKNOWN. MAPI	PED BY CNDDB	AS BEST GUI	ESS IN GENERAL '	VICINITY OF	INGLEWOOD.	
Ecological:	IN SINK.							
General:	IS NOW I	OURCE OF INFO FOR THIS S DEVELOPED. SITE IS EXTIR T RIVERSIDE COUNTY SITE	PATED ACCORI					
Owner/Manager:	UNKNOV	VN						
Navarretia pros	strata					Eleme	nt Code: PDPI	_M0C0Q0
prostrate vernal	oool navarret	ia						
Listing Status:	Federal:	None		CNI	DDB Element Rank	s: Global:	G2	
	State:	None				State:	S2	
	Other:	Rare Plant Rank - 1B.2						
Habitat:	General:	COASTAL SCRUB, VALLE	EY AND FOOTHI	LL GRASSLAI	ND, VERNAL POOL	S, MEADOW	/S AND SEEPS	
	Micro:	ALKALINE SOILS IN GRA	SSLAND, OR IN	VERNAL POC	DLS. MESIC, ALKAI	INE SITES.	3-1235 M.	



California Department of Fish and Wildlife



OVERSIT							-
Occurrence No.	10	Map Index: 39864	EO Index:	47944		Element Last Seen:	1882-05-XX
Occ. Rank:	None		Presence:	Possibly Extir	rpated	Site Last Seen:	1882-05-XX
Осс. Туре:	Natural/Nati	ve occurrence	Trend:	Unknown		Record Last Updated:	2015-02-11
Quad Summary:	Long Beach	(3311872), Torrance (3311	873)				
County Summary:	Los Angeles	s, Pacific Ocean					
Lat/Long:	33.79001 / -	118.24785			Accuracy:	1 mile	
UTM:	Zone-11 N3	739572 E384477			Elevation (ft):		
PLSS:	T04S, R13V	V, Sec. 33 (S)			Acres:	0.0	
Location:	WILMINGTO	DN.					
Detailed Location:							
Ecological:							
General:	ONLY SOU	RCE OF INFORMATION FO	OR THIS SITE IS	AN 1882 NEVI	IN COLLECTION.	NEEDS FIELDWORK.	
Owner/Manager:	UNKNOWN						
Occurrence No.	11	Map Index: 26503	EO Index:	47952		Element Last Seen:	1895-05-XX
Occ. Rank:	None	Map maex. 20000	Presence:	Possibly Extir	rnated	Site Last Seen:	1895-05-XX
Occ. Type:		ve occurrence	Trend:	Unknown	patoa	Record Last Updated:	2015-02-11
				Children			2010 02 11
Quad Summary:		11881), South Gate (331188	32)				
County Summary:	Los Angeles				_		
Lat/Long:	33.94216 / -				Accuracy:	1 mile	
UTM:		756324 E395032			Elevation (ft):		
PLSS:	T03S, R12V	V (S)			Acres:	0.0	
Location:	DOWNEY.						
Detailed Location:							
Ecological:							
General:			OR THIS SITE IS	AN 1895 DAVI	IDSON COLLECT	ION. NEEDS FIELDWORK.	
Owner/Manager:	UNKNOWN						
Occurrence No.	12	Map Index: 01965	EO Index:	47953		Element Last Seen:	1882-XX-XX
Occ. Rank:	None		Presence:	Possibly Extir	rpated	Site Last Seen:	1882-XX-XX
Осс. Туре:	Natural/Nati	ve occurrence	Trend:	Unknown		Record Last Updated:	2015-02-11
Quad Summary:	South Gate	(3311882)					
County Summary:	Los Angeles	5					
Lat/Long:	33.90327 / -	118.22273			Accuracy:	1 mile	
UTM:		752103 E386952			Elevation (ft):		
PLSS:	T03S, R13V	V, Sec. 15 (S)			Acres:	0.0	
Location:	COMPTON.						
Detailed Location:							
Detailed Location: Ecological: General:					882, AND THE 19	00S (DATE GIVEN AS 190_ I	BUT MAY
Detailed Location: Ecological:		D BEEN FROM THE 1880S			882, AND THE 19	00S (DATE GIVEN AS 190_ I	BUT MAY



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Occurrence No.	13	Map Index: 83433	EO Index:	47954		Element Last Seen:	1963-05-08
Occ. Rank:	None		Presence:	Possibly Extirpated	h	Site Last Seen:	1963-05-08
Occ. Type:	Natural/Nativ	e occurrence	Trend:	Unknown	~	Record Last Updated:	2015-02-11
Quad Summary:	Inglewood (3	311883)					
County Summary:	Los Angeles						
Lat/Long:	33.90781 / -1	10 21102		A	uracy:	1 mile	
UTM:		752708 E378793			vation (ft):	40	
PLSS:	T03S, R14W			Acre	.,	0.0	
Location:		E WESTERN AVE WITH R		VE AND WESTERN	AVF WITH 1	31ST ST, NORTH OF GARD	FNA
Detailed Location:	EXACT LOC	ATION UNKNOWN. MAPPE	ED BY CNDDB	AS BEST GUESS TO	O ENCOMPA	SS LOCATIONS FROM TW	С
		ERN AVE" (CRAMPTON 19	,				
Ecological:		MEADOW, IN ADOBE SOIL					
General: Owner/Manager:		Z] SLOUGH" ALSO ATTRIE				CTION FROM "NEAR GARD	ΞNΑ,
Occurrence No.	14	Map Index: 47545	EO Index:	47955		Element Last Seen:	1944-04-15
Occ. Rank:	None	Map maex. 47545	Presence:	Possibly Extirpated	4	Site Last Seen:	1944-04-15
Occ. Type:	Natural/Nativ	e occurrence	Trend:	Unknown	u .	Record Last Updated:	2015-02-11
							2010 02 11
Quad Summary: County Summary:	Venice (3311 Los Angeles	004)					
		18 20620		A a a a		2/E mile	
Lat/Long: UTM:	33.90242 / -1 Zone-11 N37	752214 E370902			uracy: /ation (ft):	3/5 mile 100	
PLSS:	T03S, R14W			Acre	ς, γ	0.0	
Location:	-						
Detailed Location:		TION OF SEPULVEDA BOI				F SEPULVEDA BLVD WHEF	
Detailed Looation.		S TWO RAILROAD LINES,					
Ecological:	ON MARGIN	OF VERNAL POOL.					
General:	ONLY SOUR	CE OF INFORMATION FO	R THIS SITE IS	A 1944 GOULD CO	LLECTION. I	NEEDS FIELDWORK.	
Owner/Manager:	UNKNOWN						
Occurrence No.	33	Map Index: 28742	EO Index:	83691		Element Last Seen:	1906-07-19
Occ. Rank:	None	-	Presence:	Extirpated		Site Last Seen:	1906-07-19
Осс. Туре:	Natural/Nativ	e occurrence	Trend:	Unknown		Record Last Updated:	2015-02-11
Quad Summary:	Inglewood (3	311883)					
County Summary:	Los Angeles						
Lat/Long:	33.95930 / -1	18.35104		Acci	uracy:	1 mile	
UTM:	Zone-11 N37	58465 E375170			vation (ft):		
PLSS:	T02S, R14W	(S)		Acre		0.0	
Location:	SINK NEAR	INGLEWOOD.					
Detailed Location:		ATION UNKNOWN. MAPPE	ED BY CNDDB	AS BEST GUESS AF	ROUND INGI	_EWOOD.	
Ecological:							
General:	SITE IS BAS	ED ON AN 1899 ABRAMS	COLLECTION A	AND A 1906 PEIRSO	ON COLLECT	ION.	





Horkelia cunea mesa horkelia	ta var. pub	erula				Eleme	nt Code: PDR	OS0W045
Listing Status:	Federal: State:	None None		CND	DB Element Ranks	s: Global: State:	G4T1 S1	
Habitat:	Other: General: Micro:	Rare Plant Rank - 1B.1, USF CHAPARRAL, CISMONTAN SANDY OR GRAVELLY SIT	IE WOODLAND		CRUB.			
Occurrence No.	67	Map Index: 17565	EO Index:	100201		Element	Last Seen:	1931-03-26
Occ. Rank:	None		Presence:	Possibly Exti	rpated	Site Last	Seen:	1931-03-26
Осс. Туре:	Natural/Nat	tive occurrence	Trend:	Unknown		Record L	ast Updated:	2016-01-20
Quad Summary: County Summary:	Redondo B Los Angele	Beach (3311874) es						
Lat/Long:	33.77685 /	-118.39592			Accuracy:	1 mile		
UTM:	Zone-11 N	3738289 E370748			Elevation (ft):			
PLSS:	T05S, R14	W, Sec. 06 (S)			Acres:	0.0		
Location: Detailed Location: Ecological: General: Owner/Manager:	EXACT LO HILLSIDE.	ED ON TWO 1931 PURER CO		GUESS.				
Occurrence No.	68	Map Index: 01557	EO Index:	100202		Element	Last Seen:	1932-04-24
Occ. Rank:	None		Presence:	Possibly Exti	rpated	Site Last	Seen:	1932-04-24
Осс. Туре:	Natural/Nat	tive occurrence	Trend:	Unknown		Record L	ast Updated:	2016-01-28
Quad Summary: County Summary:	Venice (33 Los Angele	11884) es, Pacific Ocean						
Lat/Long:	33.91505 /	-118.42810			Accuracy:	1 mile		
UTM:	Zone-11 N	3753655 E367981			Elevation (ft):			
PLSS:	T03S, R15	W, Sec. 14 (S)			Acres:	0.0		
Location:	EL SEGUN	IDO.						
Detailed Location:	EXACT LO	CATION UNKNOWN. MAPPE	ED AS A BEST	GUESS.				
Ecological:	SAND DUN	NES, ESTABLISHED PORTIC	ON OF LEE SLO	PE.				
General:	ONLY SOL	JRCE OF INFORMATION FO	R THIS SITE IS	A 1932 REMF	PEL COLLECTION.			
Owner/Manager:	UNKNOW	Ν						



California Natural Diversity Database



Potentilla mult	ijuga					Elemei	nt Code: PDR	OS1B120
Ballona cinquefo	il							
Listing Status:	Federal:	None		CNE	DDB Element Ranks	: Global:	GX	
	State:	None				State:	SX	
	Other:	Rare Plant Rank - 1A						
Habitat:	General:	MEADOWS AND SEEPS.						
	Micro:	BRACKISH MEADOWS. 0-2	2 M.					
Occurrence No.	1	Map Index: 23785	EO Index:	14622		Element	Last Seen:	1890-08-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last	Seen:	1890-08-XX
Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record L	ast Updated:	1996-01-11
Quad Summary:	Venice (33	311884)						
County Summary:	Los Angel	es, Pacific Ocean						
Lat/Long:	33.97291	/ -118.44837			Accuracy:	1 mile		
UTM:	Zone-11 N	13760097 E366198			Elevation (ft):	5		
PLSS:	T02S, R1	5W, Sec. 28 (S)			Acres:	0.0		
Location:	FLATS NE	EAR BALLONA (PRESENT DA	Y VENICE).					
Detailed Location:	BALLONA	WAS NAME OF SPANISH LA	ND GRANT AN	D EXTENSIV	E MARSH, NOW DE	STROYED.		
Ecological:	HABITAT	REPORTED BY MUNZ (1959)	AS BRACKISH	I MEADOW IN	COASTAL SAGE S	CRUB.		
General:	TYPE LO	CALITY.						
Owner/Manager:	DFG-BAL	LONA WETLANDS ER, PVT						

		ssp. maritimum				Eleme	nt Code: PDS	CR0J0C2
salt marsh bird's-							0.0074	
Listing Status:	Federal:	Endangered		CND	DB Element Rank	s: Global:		
	State:	Endangered				State:	S1	
	Other:	Rare Plant Rank - 1B.2, BLI San Diego Zoo CRES Nativ						en, SB_CRES-
Habitat:	General:	MARSHES AND SWAMPS,	COASTAL DUN	IES.				
	Micro:	LIMITED TO THE HIGHER	ZONES OF SAL	T MARSH HA	BITAT. 0-10 M.			
Occurrence No.	12	Map Index: 35371	EO Index:	34952		Element	Last Seen:	1932-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last	t Seen:	1932-XX-XX
Осс. Туре:	Natural/N	ative occurrence	Trend:	Unknown		Record I	Last Updated:	2009-08-18
Quad Summary:	Long Bea	ch (3311872)						
County Summary:	Los Ange	les						
Lat/Long:	33.78593	/ -118.18194			Accuracy:	non-specifi	c area	
UTM:	Zone-11	N3739048 E390574			Elevation (ft):	10		
PLSS:	T04S, R1	2W, Sec. 31 (S)			Acres:	184.7		
Location:	LONG BE	ACH.						
Detailed Location:	MAPPED SECTION	BY CNDDB ACCORDING TO I 31.	THE TRS INFO	RMATION ON	SNOW HERBARI	JM LABEL A	ROUND THE N	W1/4 OF
Ecological:	SALT MA	RSH.						
General:		ED ON A 1932 SNOW COLLE TRIBUTED TO THIS SITE.	ECTION. AN 189	96 MCCLATCH	IE AND AN 1893 D	AVY COLLE	CTION FROM "	LONG BEACH"
Owner/Manager:	UNKNOW	/N						

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(ERM)						
Occurrence No.	13	Map Index: 26479	EO Index:	6167	Element Last Seen:	1901-05-25
Occ. Rank:	None		Presence:	Possibly Extirpated	Site Last Seen:	1980-XX-XX
Осс. Туре:	Natural/Nativ	/e occurrence	Trend:	Unknown	Record Last Updated:	1995-05-18
Quad Summary:	San Pedro (3311863), Long Beach (3311	1872), Torrance	(3311873)		
County Summary:	Los Angeles	, Pacific Ocean				
Lat/Long:	33.75713 / -	118.23704		Accuracy:	1 mile	
UTM:	Zone-11 N3	735914 E385434		Elevation (ft):	5	
PLSS:	T05S, R13W	/ (S)		Acres:	0.0	
Location:	TERMINAL	ISLAND, SAN PEDRO HAR	BOR.			
Detailed Location:						
Ecological:	SALINE ME	ADOWS.				
General:		N FROM 1901 COLLECTIO FOX AND KNUDSEN, 1982)		NO PLANTS SEEN IN 1980; SP	ECIES IS PRESUMED EXTIR	PATED AT
		FUA AND KNUDSEN, 1902)).			
Owner/Manager:		· ,				
Owner/Manager:	UNKNOWN	. ,				
Owner/Manager: Occurrence No.		Map Index: A4685	EO Index:	106381	Element Last Seen:	1901-06-06
_	UNKNOWN		EO Index: Presence:	106381 Possibly Extirpated	Element Last Seen: Site Last Seen:	1901-06-06 1901-06-06
Occurrence No.	UNKNOWN 50 None					
Occurrence No. Occ. Rank:	UNKNOWN 50 None Natural/Nativ	Map Index: A4685	Presence: Trend:	Possibly Extirpated	Site Last Seen:	1901-06-06
Occurrence No. Occ. Rank: Occ. Type: Quad Summary:	UNKNOWN 50 None Natural/Nativ	Map Index: A4685 ve occurrence 1884), Beverly Hills (341181	Presence: Trend:	Possibly Extirpated	Site Last Seen:	1901-06-06
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary:	UNKNOWN 50 None Natural/Nativ Venice (331	Map Index: A4685 ve occurrence 1884), Beverly Hills (341181/	Presence: Trend:	Possibly Extirpated	Site Last Seen:	1901-06-06
Occurrence No. Occ. Rank: Occ. Type:	UNKNOWN 50 None Natural/Nativ Venice (331 Los Angeles 33.98812 / -	Map Index: A4685 ve occurrence 1884), Beverly Hills (341181/	Presence: Trend:	Possibly Extirpated Unknown	Site Last Seen: Record Last Updated:	1901-06-06
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	UNKNOWN 50 None Natural/Nativ Venice (331 Los Angeles 33.98812 / - Zone-11 N3	Map Index: A4685 ve occurrence 1884), Beverly Hills (341181- 118.40409	Presence: Trend:	Possibly Extirpated Unknown Accuracy:	Site Last Seen: Record Last Updated:	1901-06-06
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	UNKNOWN 50 None Natural/Nativ Venice (331 Los Angeles 33.98812 / - Zone-11 N3 T02S, R15W	Map Index: A4685 ve occurrence 1884), Beverly Hills (341181 118.40409 761727 E370312	Presence: Trend: 4)	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1 mile	1901-06-06
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	UNKNOWN 50 None Natural/Nativ Venice (331) Los Angeles 33.98812 / Zone-11 N3 T02S, R15W MESMER, E	Map Index: A4685 /e occurrence 1884), Beverly Hills (341181/ 118.40409 761727 E370312 /, Sec. 24 (S)	Presence: Trend: 4) E BALLONA WI	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1 mile 1987.0	1901-06-06
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	UNKNOWN 50 None Natural/Nativ Venice (331) Los Angeles 33.98812 / Zone-11 N3 T02S, R15W MESMER, E	Map Index: A4685 /e occurrence 1884), Beverly Hills (341181/ 118.40409 761727 E370312 /, Sec. 24 (S)	Presence: Trend: 4) E BALLONA WI	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: ETLANDS.	Site Last Seen: Record Last Updated: 1 mile 1987.0	1901-06-06
Occurrence No. Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	UNKNOWN 50 None Natural/Nativ Venice (331 Los Angeles 33.98812 / - Zone-11 N3 T02S, R15W MESMER, E MAPPED BY	Map Index: A4685 ve occurrence 1884), Beverly Hills (341181- 118.40409 761727 E370312 v, Sec. 24 (S) ASTERN PORTION OF THE CNDDB AS BEST GUESS	Presence: Trend: 4) E BALLONA WI	Possibly Extirpated Unknown Accuracy: Elevation (ft): Acres: ETLANDS.	Site Last Seen: Record Last Updated: 1 mile 1987.0 CREEK.	1901-06-06

Lycium brevipe	5 Val. Ilas	5EI		Liemen	
Santa Catalina Is	land desert-t	norn			
Listing Status:	Federal:	None Cl	NDDB Element Ranks:	Global:	G5T1Q
	State:	None		State:	S1
	Other:	Rare Plant Rank - 3.1			
Habitat:	General:	COASTAL BLUFF SCRUB, COASTAL SCRUB.			
	Micro:	COASTAL BLUFFS AND SLOPES. 30-95 M.			



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Occurrence No.	4 Map Index: 557	709 EO Index:	55725	Element Last Seen:	2014-08-01
Occ. Rank:	Fair	Presence:	Presumed Extant	Site Last Seen:	2014-08-01
Occ. Type:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2016-05-10
Quad Summary:	San Pedro (3311863)				
County Summary:	Los Angeles				
	33.73791 / -118.37479		A 001/2001/1	specific area	
Lat/Long: UTM:			Accuracy:	•	
	Zone-11 N3733945 E372648		Elevation (ft):	100	
PLSS:	T05S, R14W, Sec. 17 (S)		Acres:	3.0	
Location:	· · ·		E COVE SHORELINE PARK, RA		
Detailed Location:	ALONG WEST EDGE AND SO VANDERHOFF PHOTO FROM		APPED ACCORDING TO A 199 " ATTRIBUTED TO THIS SITE.	2 MAP BY BRINKMANN-BUS	I. 2014
Ecological:			RUB COMMUNITY, WHILE MOS MUSTARDS WITH PATCHES		NTOP
General:		TIONS FROM 1991 & 19	M TALL THICKET. FIRST DISCO 95 ALSO ATTRIB HERE. SAND		
Owner/Manager:	CITY OF RANCHO PALOS VEI				
Occurrence No.	6 Map Index: 999	EO Index:	101506	Element Last Seen:	2018-03-04
Occ. Rank:	Good	Presence:	Presumed Extant	Site Last Seen:	2018-03-04
Осс. Туре:	Natural/Native occurrence	Trend:	Unknown	Record Last Updated:	2019-01-04
Occ. Type: Quad Summary:	Natural/Native occurrence Redondo Beach (3311874)	Trend:	Unknown	Record Last Updated:	2019-01-04
		Trend:	Unknown	Record Last Updated:	2019-01-04
Quad Summary:	Redondo Beach (3311874)	Trend:	Unknown Accuracy:	Record Last Updated:	2019-01-04
Quad Summary: County Summary:	Redondo Beach (3311874) Los Angeles	Trend:			2019-01-04
Quad Summary: County Summary: Lat/Long:	Redondo Beach (3311874) Los Angeles 33.79026 / -118.40719	Trend:	Accuracy:	specific area	2019-01-04
Quad Summary: County Summary: Lat/Long: UTM:	Redondo Beach (3311874) Los Angeles 33.79026 / -118.40719 Zone-11 N3739791 E369725 T04S, R15W, Sec. 36, N (S)		Accuracy: Elevation (ft):	specific area 300 2.0	
Quad Summary: County Summary: Lat/Long: UTM: PLSS:	Redondo Beach (3311874) Los Angeles 33.79026 / -118.40719 Zone-11 N3739791 E369725 T04S, R15W, Sec. 36, N (S) BLUFF COVE; NEAR INTERSE PENINSULA.	ECTION OF PASEO DEL	Accuracy: Elevation (ft): Acres:	specific area 300 2.0 R AND TO THE EAST, PALOS	S VERDES
Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	Redondo Beach (3311874) Los Angeles 33.79026 / -118.40719 Zone-11 N3739791 E369725 T04S, R15W, Sec. 36, N (S) BLUFF COVE; NEAR INTERSE PENINSULA. MAPPED AS 3 POLYGONS FR	ECTION OF PASEO DEL ROM 2011 AND 2013 RIE 3.	Accuracy: Elevation (ft): Acres: MAR AND PALOS VERDES DF EFNER COORDINATES, AND 20	specific area 300 2.0 R AND TO THE EAST, PALOS	S VERDES
Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	Redondo Beach (3311874) Los Angeles 33.79026 / -118.40719 Zone-11 N3739791 E369725 T04S, R15W, Sec. 36, N (S) BLUFF COVE; NEAR INTERSE PENINSULA. MAPPED AS 3 POLYGONS FR NORTH HALF OF SECTION 36 ON BLUFF-TOP AND ALONG T WEST POLYGON: 2 THICKET-	ECTION OF PASEO DEL ROM 2011 AND 2013 RIE S. TRAIL IN COASTAL BLU FORMING SHRUBS OE	Accuracy: Elevation (ft): Acres: MAR AND PALOS VERDES DF EFNER COORDINATES, AND 20	specific area 300 2.0 R AND TO THE EAST, PALOS 018 VANDERHOFF COORDII	S VERDES NATES, IN THE



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Occ. Rank: Occ. Type:UnknownSite Last Seen: Record Last Updated:2009-00 2019-00Occ. Type:Natural/Native occurrenceTrend:UnknownRecord Last Updated:2019-00Quad Summary: County Summary:Redondo Beach (3311874)County Summary:Los Angeles2019-00Lat/Long:33.74098 / -118.40305Accuracy:80 meters80 metersUTM:Zone-11 N373421 E370035Elevation (tt):5090PLSS:T05S, R15W, Sec. 13, S (S)Acres:5.090Location:PELICAN COVE, JUST EAST OF POINT VICENTEAcres:5.090Detailed Location:MAPPED ACCORDING TO VEGETATION SURVEY COORDINATES.Elevation (tt):50Cological:General:22% COVER OF LYCIUM BREVIPES VAR. HASSEI IN 2009.90Owner/Manager:CITY OF RANCHO PALOS VERDESElement Code:PMD-AdG01California Orcutt grassEndangeredState:S1651Listing Status:Federal:EndangeredState:S191Other:Rare Plant Rank - 18, 1, SB_CalBG/RSABG-California/Rancho Santa Ana Botaric Garden, SB_CRES-San Diego Z CRES Native Gene Seed BankState:S191Habitat:General:VERNAL POOLS.10-660 M.10-660 M.10-660 M.10-660 M.Occ. Rank:NoneYesence:EVInpatedSite Last Seen:196-60Occ. Rank:NonePresence:ExtipatedSite Last Seen:196-60								
Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2019-0 Quad Summary: Los Angeles Los Angeles Image: State Sta	Occurrence No.	7	Map Index: B1772	EO Index:	113687		Element Last Seen:	2009-02-27
Cued Summary: Redondo Beach (3311874) County Summary: Los Angeles Lat/Long: 33.74098 / -118.40305 Accuracy: 80 meters UTM: Zone-11 N3734231 E370035 Elevation (ft): 50 PLSS: T05S, R15W, Sec. 13, S (S) Acres: 5.0 Location: MPPED ACCORDING TO VEGETATION SURVEY COORDINATES. Ecological: General: 22% COVER OF LYCIUM BREVIPES VAR. HASSEI IN 2009. Owner/Manager: CITY OF RANCHO PALOS VERDES Orturtia californica Element Code: PMPOA4G01 California Orcut grass State: S1 Listing Status: Federal: Endangered CNDDB Element Ranks: Global: G1 State: Endangered CNDDB California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego 2 CRES Native Gene Seed Bank State: S1 Habitat: General: VERNAL POOLS. Micro: 10-660 M. Site Last Seen: 1976-3	Occ. Rank:	Unknown		Presence:	Presumed Ex	xtant	Site Last Seen:	2009-02-27
County Summary: Los Angeles Lat/Long: 33 74098 / -118.40305 Accuracy: 80 meters UTM: Zon11 N3734321 E370035 Elevation (ft): 50 PLSS: T05S, R15W, Sec. 13, S (S) Acres: 5.0 Location: PELCAN COVE, JUST EAST OF POINT VICENTE Acres: 5.0 Detailed Location: MAPPED ACCORDING TO VEGETATION SURVEY COORDINATS. Ecological: General: 22%, COVER OF LYCIUM BREVIPES VAR. HASSEI IN 2009. Element Code: PMPOA4601 California Orcutt grass Endangered CNDDB Element Ranks: Golati: G1 Listing Status: Federal: Endangered CNDDB Element Ranks: Golati: G1 State: Endangered State: S1 S1 Orber: Raro Plant Rank · 18.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego 2 CRES Native Gene Seed Bank State: S1 Habitat: General: VERNAL POOLS. Presence: Extirpated Site Last Seen: 1976-3 Occ. Rank: None Presence: Extirpated Site Last Seen: 1976-3 Occ. Rank: S003 / -118.3141 Accuracy:	Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2019-01-02
LatU.org: 33.74098 / -118.40305 Accuracy: 80 meters LutV.m: Zone-11 N3734321 E370035 Elevation (ff): 50 PLSS: T05S, R15W, Sec. 13, S (S) Acres: 5.0 Location: PELICAN COVE, JUST EAST OF POINT VICENTE Detailed Location: MAPPED ACCORDING TO VEGETATION SUVEY COORDINATES. Ecological: General: 22% COVER OF LYCIUM BREVIPES VAR, HASSEI IN 2009. General: 22% COVER OF LYCIUM BREVIPES VAR, HASSEI IN 2009. Owner/Manager: CITY OF RANCHO PALOS VERDES Element Code: PMPOA4G01 California Orcutt grass Listing Status: Federal: Endangered State: S1 Listing Status: Federal: Endangered CNDDB Element Ranks: Global: G1 State: S1 Micro: 10-660 M. CRES Native Gene Seed Bank General: VERNAL POOLS. Micro: 10-660 M. 2016-0 Occurrence No. 12 Map Index: 01899 E0 Index: 22413 Element Last Seen: 1946-0 Occ. Tone: Trend: Unknown Record Last Updated: 2016-0 Occ. None Presencce: Extipated Site Last	Quad Summary:	Redondo	Beach (3311874)					
UTM: Zone-11 N3734321 E370035 Elevation (ft): 50 PLSS: TOSS, R15W, Sec. 13, S (S) Acres: 5.0 Location: PELICAN COVE, JUST EAST OF POINT VICENTE MAPPED ACCORDING TO VEGETATION SURVEY COORDINATES. Detailed Location: MAPPED ACCORDING TO VEGETATION SURVEY COORDINATES. Ecological: State: State: State: State: State: State: S1 California Orcutt grass Endangered CNDDB Element Ranks: Global: G1 State: S1 California Orcutt grass Endangered CNDDB Element Ranks: Global: G1 State: S1 Matrix: Persence: Exting State: Endangered State: S1 Other: Rare Plant Rank - 18.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego 2 State: S1 S1 Matrix: VERNAL POOLS. Micro: 10-660 M. State: S1 S2 Occurrence No. 12 Map Index: 01899 EO Index: 22413 Element Last Seen: 1976-3 Occ. Rank:	County Summary:	Los Angel	les					
PLSS: T05S, R15W, Sec. 13, S (S) Acres: 5.0 Location: PELICAN COVE, JUST EAST OF POINT VICENTE	Lat/Long:	33.74098	/ -118.40305			Accuracy:	80 meters	
Location: PELICAN COVE, JUST EAST OF POINT VICENTE Detailed Location: MAPPED ACCORDING TO VEGETATION SURVEY COORDINATES. Ecological: General: 22% COVER OF LYCIUM BREVIPES VAR. HASSEI IN 2009. Owner/Manager: CITY OF RANCHO PALOS VERDES Element Code: PMPOA4G01 California Orcutt grass Element Code: PMPOA4G01 California Orcutt grass Listing Status: Federal: Endangered State: S1 Other: Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego 2 CRES Native Gene Seed Bank Habitat: General: VERNAL POOLS. Micro: 10-660 M. Occ. Rank: None Presence: Extirpated Site Last Seen: 1946-0 Occ. Rank: None Presence: Extirpated Site Last Seen: 1976-> Occ. Type: Natura/Native occurrence Trend: Unknown Record Last Updated: 2016-0 Quad Summary: Loglewood (3311883) County Summary: 2/5 mile 2/5 mile Lat/Long: 33.9073 / -118.3141 Accuracy: 2/5 mile 2/5 mile UTM: Zone-11 N3752655 E378510 Elevation (ft): 2/5 mile 2/5 mile <t< th=""><th>UTM:</th><th>Zone-11 N</th><th>N3734321 E370035</th><th></th><th></th><th>Elevation (ft):</th><th>50</th><th></th></t<>	UTM:	Zone-11 N	N3734321 E370035			Elevation (ft):	50	
Detailed Location: MAPPED ACCORDING TO VEGETATION SURVEY COORDINATES. Ecological: 22% COVER OF LYCIUM BREVIPES VAR. HASSEI IN 2009. Ormer/Manager: CITY OF RANCHO PALOS VERDES Orcuttia california CITY OF RANCHO PALOS VERDES Orcuttia california CITY OF RANCHO PALOS VERDES Orcuttia california Element Code: PMPOA4G01 California Orcutt grass Element Code: PMPOA4G01 Listing Status: Federal: Endangered State: S1 Other: Randagered CNDDB Element Ranks: Global: G1 State: Endangered State: S1 G1 Other: Randagered State: S1 G1 Micro: 10-660 M. CRES Native Gene Seed Bank Element Last Seen: 1946-00 Occ. Rank: None Presence: Extipated Site Last Seen: 1976-30 Occ. Rank: None Presence: Extipated Site Last Vended: 2016-00 Guad Summary: Los Angeles Lat/Long: 33.9073/-118.3141 Accuracy: 2/5 mile 1976-30 Lat/Long: 33.9073/-118.3141 Accurac	PLSS:	T05S, R1	5W, Sec. 13, S (S)			Acres:	5.0	
Ecological: General: 22% COVER OF LYCIUM BREVIPES VAR. HASSEI IN 2009. Owner/Manager: CITY OF RANCHO PALOS VERDES California Croutt grass Element Code: Listing Status: Federal: Endangered State: Endangered State: S1 Other: Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego 2 CRES Native Gene Seed Bank Habitat: General: VERNAL POOLS. Element Last Seen: 1946-0 Micro: 10-660 M. Occurrence No. 12 Map Index: 01899 EO Index: 22413 Element Last Seen: 1976-> Occ. Rank: None Presence: Extirpated Site Last Seen: 1976-> Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2016-0 Quad Summary: Inglewood (3311883) County Summary: Los Angeles Last/Long: 23.9073 /-118.3141 Accuracy: 2/5 mile Elevation (ft): PLSS: T03S, R14W, Sec. 14 (S) Acres: 280.0 County Summary: Los Angeles Location: DRY DITCHES AROUND OLD MUNICIPAL A	Location:	PELICAN	COVE, JUST EAST OF POI	NT VICENTE				
General: 22% COVER OF LYCIUM BREVIPES VAR. HASSEI IN 2009. Owner/Manager: CITY OF RANCHO PALOS VERDES California Orcutt grass Element Code: Listing Status: Federal: Endangered State: S1 Catifornia Orcutt grass State: S1 State: S1 Micro: 0 ther: Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Z CRES Native Gene Seed Bank State: S1 Habitat: General: VERNAL POOLS. Micro: 10 e60 M. Occurrence No. 12 Map Index: 01899 EO Index: 22413 Element Last Seen: 1976-2 Occ. Rank: None Presence: Extirpated Site Last Seen: 1976-2 Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2016-0 Quad Summary: Inglewood (3311883) County Summary: Los Angeles 25 106-0 Lat/Long: 33.9073 / -118.3141 Accuracy: 25 mile 107-0 PLSS: T03S, R14W, Sec. 14 (S) Acres: 280.0 106-0 Location: <th>Detailed Location:</th> <th>MAPPED</th> <th>ACCORDING TO VEGETAT</th> <th>ION SURVEY CO</th> <th>OORDINATES.</th> <th></th> <th></th> <th></th>	Detailed Location:	MAPPED	ACCORDING TO VEGETAT	ION SURVEY CO	OORDINATES.			
Owner/Manager: CITY OF RANCHO PALOS VERDES Orcuttia california Orcutt grass Element Code: PMPOA4G01 California Orcutt grass Endangered CNDDB Element Ranks: Global: G1 State: Endangered State: S1 Other: Rare Plant Rank - 18.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Z CRES Native Gene Seed Bank Habitat: General: VERNAL POOLS. Element Last Seen: 1946-00 Micro: 10-660 M. Presence: Extipated Site Last Seen: 1976-> Occ. Rank: None Presence: Extipated Site Last Seen: 1976-> Quad Summary: Inglewood (3311883) County Summary: Los Angeles Elevation (ft): P Lat/Long: 33.9073 /-118.3141 Accuracy: 2/5 mile Elevation (ft): P PLSS: T03S, R14W, Sec. 14 (S) Acres: 280.0 Angeles Elevation (ft): P Detailed Location: MAPED AS BEST GUESS AROUND DLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Acres: 280.0 General: NORY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW.	Ecological:							
Creating califormica Element Code: PMPOA4601 California Orcutt grass Listing Status: Federal: Endangered State: Endangered State: S1 Other: Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Z CRES Native Gene Seed Bank Habitat: General: VERNAL POOLS. Micro: 10-660 M. Occurrence No. 12 Map Index: 01899 EO Index: 22413 Element Last Seen: 1976-> Occ. Rank: None Presence: Extirpated Site Last Seen: 1976-> Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2016-0 Quad Summary: Inglewood (3311883) County Summary: Los Angeles Lat/Long: 33.9073 / -118.3141 Accuracy: 2/5 mile Lat/Long: 20.0 Location: PLSS: T03S, R14W, Sec. 14 (S) Acres: 280.0 Location: MAPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WE AVENUE AND ROSECRANS AVENUE. Ecological: IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW. Concentary Distremain and presented and pr	General:	22% COV	ER OF LYCIUM BREVIPES	VAR. HASSEI IN	2009.			
California Orcutt grass Listing Status: Federal: Endangered CNDDB Element Ranks: Global: G1 State: Endangered State: S1 Other: Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego 2 CRES Native Gene Seed Bank Habitat: General: VERNAL POOLS. Micro: 10-660 M. Occurrence No. 12 Map Index: 01899 EO Index: 22413 Element Last Seen: 1946-0 Occ. Rank: None Presence: Extirpated Site Last Seen: 1976-X Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2016-0 Quad Summary: Inglewood (3311883) County Summary: Los Angeles Lat/Long: 33.9073 / -118.3141 Accuracy: 2/5 mile UTM: Zone-11 N3752655 E378510 Elevation (ft): PLSS: T03S, R14W, Sec. 14 (S) Acres: 280.0 Location: DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Detailed Location: MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WE AVENUE AND ROSECRANS AVENUE. Ecological: IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW. General: OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	Owner/Manager:	CITY OF	RANCHO PALOS VERDES					
California Orcutt grass Listing Status: Federal: Endangered CNDDB Element Ranks: Global: G1 State: Endangered State: S1 Other: Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego 2 CRES Native Gene Seed Bank Habitat: General: VERNAL POOLS. Micro: 10-660 M. Occurrence No. 12 Map Index: 01899 EO Index: 22413 Element Last Seen: 1946-0 Occ. Rank: None Presence: Extirpated Site Last Seen: 1976-X Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2016-0 Quad Summary: Inglewood (3311883) County Summary: Los Angeles Lat/Long: 33.9073 / -118.3141 Accuracy: 2/5 mile UTM: Zone-11 N3752655 E378510 Elevation (ft): PLSS: T03S, R14W, Sec. 14 (S) Acres: 280.0 Location: DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Detailed Location: MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WE AVENUE AND ROSECRANS AVENUE. Ecological: IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW. General: OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	Orcuttia califo	nica					Element Code: PMP	OA4G010
Listing Status: Federal: Endangered CNDDB Element Ranks: Global: G1 State: Endangered State: S1 S1<								
State: Endangered State: S1 Other: Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Z CRES Native Gene Seed Bank Habitat: General: VERNAL POOLS. Micro: 10-660 M. Occ. rank: None None Presence: Extirpated Site Last Seen: 1976-X Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2016-0 Quad Summary: Inglewood (3311883) Inglewood (3311883) 2016-0 20 20 County Summary: Los Angeles Inglewood (3311883) 20 20 20 20 Lat/Long: 33.9073 / -118.3141 Accuracy: 2/5 mile 2		-	Endangered		CND	DB Element Ran	ks: Global: G1	
Other: Rare Plant Rank + 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Z CRES Native Gene Seed Bank Habitat: General: VERNAL POOLS. Micro: 10-660 M. Element Last Seen: 1946-00 Occ. Rank: None Presence: Extirpated Site Last Seen: 1976-X Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2016-00 Quad Summary: Inglewood (3311883) County Summary: Los Angeles Z/5 mile Z/5 mile Lat/Long: 33.9073 / -118.3141 Accuracy: 2/5 mile Z/5 mile Z/5 mile UTM: Zone-11 N3752655 E378510 Elevation (ft): 280.0 Z/5 mile Z/5 mile Lostoin: DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Zeal.0 Zeal.0 Zeal.0 Location: DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Zeal.0 Zeal.0 Zeal.0 Zeal.0 Detailed Location: MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST TW OF THE JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Zeal.0 Zeal.0 Zeal.0 <t< th=""><th>J</th><th></th><th>•</th><th></th><th>-</th><th></th><th>State: S1</th><th></th></t<>	J		•		-		State: S1	
Micro: 10-660 M. Occurrence No. 12 Map Index: 01899 EO Index: 22413 Element Last Seen: 1946-0 Occ. Rank: None Presence: Extirpated Site Last Seen: 1976-X Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2016-0 Quad Summary: Inglewood (3311883) County Summary: Los Angeles 4		Other:			-California/Ran	ncho Santa Ana Bo	otanic Garden, SB_CRES-Sa	n Diego Zoo
Occurrence No. 12 Map Index: 01899 EO Index: 22413 Element Last Seen: 1946-0 Occ. Rank: None Presence: Extirpated Site Last Seen: 1976-X Occ. Type: Natural/Native occurrence Trend: Unknown Record Last Updated: 2016-0 Quad Summary: Inglewood (3311883) County Summary: Los Angeles Inglewood (3311883) Elevation (ft): Quite: 33.9073 / -118.3141 Accuracy: 2/5 mile 2/5 mile UTM: Zone-11 N3752655 E378510 Elevation (ft): PLSS: 703S, R14W, Sec. 14 (S) Acres: 280.0 Location: DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Detailed Location: MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WESTERN AVE, LOS ANGELES Avenue AND ROSECRANS AVENUE. Ecological: IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW. General: OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS. Count of the strence of th	Habitat:	General:	VERNAL POOLS.					
Occ. Rank:NonePresence:ExtirpatedSite Last Seen:1976-XOcc. Type:Natural/Native occurrenceTrend:UnknownRecord Last Updated:2016-0Quad Summary:Inglewood (3311883)Los AngelesInglewood (3311883)Inglewood (3311883)County Summary:Los AngelesAccuracy:2/5 mileLat/Long:33.9073 / -118.3141Accuracy:2/5 mileUTM:Zone-11 N3752655 E378510Elevation (ft):PLSS:T03S, R14W, Sec. 14 (S)Acres:280.0Location:DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELESDetailed Location:MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WEEcological:IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW.General:OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.		Micro:	10-660 M.					
Occ. Type:Natural/Native occurrenceTrend:UnknownRecord Last Updated:2016-0Quad Summary:Inglewood (3311883)County Summary:Los AngelesLat/Long:33.9073 / -118.3141Accuracy:2/5 mileUTM:Zone-11 N3752655 E378510Elevation (ft):PLSS:T03S, R14W, Sec. 14 (S)Acres:280.0Location:DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELESDetailed Location:MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WEAVENUEEcological:IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW.General:OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	Occurrence No.	12	Map Index: 01899	EO Index:	22413		Element Last Seen:	1946-06-11
Quad Summary: Inglewood (3311883) County Summary: Los Angeles Lat/Long: 33.9073 / -118.3141 Accuracy: 2/5 mile UTM: Zone-11 N3752655 E378510 Elevation (ft): PLSS: T03S, R14W, Sec. 14 (S) Acres: 280.0 Location: DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Detailed Location: MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Ecological: IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW. General: OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	1976-XX-XX
County Summary:Los AngelesLat/Long:33.9073 / -118.3141Accuracy:2/5 mileUTM:Zone-11 N3752655 E378510Elevation (ft):PLSS:T03S, R14W, Sec. 14 (S)Acres:280.0Location:DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELESDetailed Location:MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WESTERN AVEEcological:IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW.General:OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATE DER GRIGGS.	Осс. Туре:	Natural/Na	ative occurrence	Trend:	Unknown		Record Last Updated:	2016-02-05
Lat/Long: 33.9073 / -118.3141 Accuracy: 2/5 mile UTM: Zone-11 N3752655 E378510 Elevation (ft): PLSS: T03S, R14W, Sec. 14 (S) Acres: 280.0 Location: DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Detailed Location: MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WEAVENUE. Ecological: IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW. General: OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	Quad Summary:	Inglewood	d (3311883)					
UTM: Zone-11 N3752655 E378510 Elevation (ft): PLSS: T03S, R14W, Sec. 14 (S) Acres: 280.0 Location: DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Detailed Location: MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WESTERN AVE AVENUE AND ROSECRANS AVENUE. Ecological: IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW. General: OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	County Summary:	Los Angel	les					
PLSS: T03S, R14W, Sec. 14 (S) Acres: 280.0 Location: DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELES Detailed Location: MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WEAVENUE AND ROSECRANS AVENUE. Ecological: IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW. General: OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	Lat/Long:	33.9073 /	-118.3141			Accuracy:	2/5 mile	
Location:DRY DITCHES AROUND OLD MUNICIPAL AIRPORT, JUNCTION OF WESTERN AVE & ROSECRANS AVE, LOS ANGELESDetailed Location:MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WE AVENUE AND ROSECRANS AVENUE.Ecological:IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW.General:OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	UTM:	Zone-11 N	N3752655 E378510			Elevation (ft):		
Detailed Location:MAPPED AS BEST GUESS AROUND THE HISTORIC GARDENA VALLEY AIRPORT JUST NW OF THE JUNCTION OF WE AVENUE AND ROSECRANS AVENUE.Ecological:IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW.General:OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	PLSS:	T03S, R14	4W, Sec. 14 (S)			Acres:	280.0	
AVENUE AND ROSECRANS AVENUE.Ecological:IN DRY DITCHES SIMULATING VERNAL POOLS. WITH CRYPSIS ACULEATA IN LOW MEADOW.General:OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	Location:	DRY DIT	CHES AROUND OLD MUNIC	IPAL AIRPORT,	JUNCTION OF	WESTERN AVE	& ROSECRANS AVE, LOS A	NGELES.
General: OBSERVED IN 1944 AND 1946. NO PLANTS SEEN IN 1976; POPULATION EXTIRPATED PER GRIGGS.	Detailed Location:				GARDENA VA	LLEY AIRPORT J	UST NW OF THE JUNCTION	OF WESTER
	Ecological:	IN DRY D	ITCHES SIMULATING VERN	IAL POOLS. WIT	H CRYPSIS A	CULEATA IN LOV	/ MEADOW.	
Owner/Manager: UNKNOWN	General:	OBSERVI	ED IN 1944 AND 1946. NO P	LANTS SEEN IN	1976; POPUL/	ATION EXTIRPAT	ED PER GRIGGS.	
	Owner/Manager:	UNKNOW	/N					



California Department of Fish and Wildlife



Occurrence No.	13 Map Inc	dex: 47232	EO Index:	47232		Element Last Seen:	XXXX-XX-XX
Occ. Rank:	None		Presence:	Extirpated		Site Last Seen:	XXXX-XX-XX
Осс. Туре:	Natural/Native occurrer	nce	Trend:	Unknown		Record Last Updated:	2002-02-14
Quad Summary:	Los Alamitos (3311871), Long Beach (331	1872)				
County Summary:	Los Angeles						
Lat/Long:	33.83581 / -118.11743				Accuracy:	1 mile	
UTM:	Zone-11 N3744512 E3	96606			Elevation (ft):	40	
PLSS:	T04S, R12W, Sec. 10 ((S)			Acres:	0.0	
Location:	NEAR LAKEWOOD, W	EST LOS ANGELE	ES COUNTY.				
Detailed Location:							
Ecological:							
General:	COLLECTED NEAR LA	AKEWOOD ACCOF	RDING TO GR	IGGS (1977),	UNKNOWN WHEN	SEEN. APPARENTLY EXT	RPATED.
Owner/Manager:	UNKNOWN						
Occurrence No.	14 Map Inc	dex: 26503	EO Index:	47231		Element Last Seen:	XXXX-XX-XX
Occurrence No. Occ. Rank:	14 Map In	dex: 26503	EO Index: Presence:	47231 Extirpated		Element Last Seen: Site Last Seen:	XXXX-XX-XX XXXX-XX-XX
	•			-			
Occ. Rank:	None	nce	Presence: Trend:	Extirpated		Site Last Seen:	XXXX-XX-XX
Occ. Rank: Occ. Type:	None Natural/Native occurrer	nce	Presence: Trend:	Extirpated		Site Last Seen:	XXXX-XX-XX
Occ. Rank: Occ. Type: Quad Summary:	None Natural/Native occurrer Whittier (3311881), Sou	nce uth Gate (3311882)	Presence: Trend:	Extirpated	Accuracy:	Site Last Seen:	XXXX-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary:	None Natural/Native occurrer Whittier (3311881), Sou Los Angeles	nce uth Gate (3311882)	Presence: Trend:	Extirpated	Accuracy: Elevation (ft):	Site Last Seen: Record Last Updated:	XXXX-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long:	None Natural/Native occurrer Whittier (3311881), Son Los Angeles 33.94216 / -118.13586	nce uth Gate (3311882)	Presence: Trend:	Extirpated	-	Site Last Seen: Record Last Updated: 1 mile	XXXX-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM:	None Natural/Native occurrer Whittier (3311881), Son Los Angeles 33.94216 / -118.13586 Zone-11 N3756324 E3	nce uth Gate (3311882) 95032	Presence: Trend:	Extirpated	Elevation (ft):	Site Last Seen: Record Last Updated: 1 mile 125	XXXX-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS:	None Natural/Native occurrer Whittier (3311881), Son Los Angeles 33.94216 / -118.13586 Zone-11 N3756324 E3 T03S, R12W (S)	nce uth Gate (3311882) 95032	Presence: Trend:	Extirpated	Elevation (ft):	Site Last Seen: Record Last Updated: 1 mile 125	XXXX-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location:	None Natural/Native occurrer Whittier (3311881), Son Los Angeles 33.94216 / -118.13586 Zone-11 N3756324 E3 T03S, R12W (S)	nce uth Gate (3311882) 95032	Presence: Trend:	Extirpated	Elevation (ft):	Site Last Seen: Record Last Updated: 1 mile 125	XXXX-XX-XX
Occ. Rank: Occ. Type: Quad Summary: County Summary: Lat/Long: UTM: PLSS: Location: Detailed Location:	None Natural/Native occurrer Whittier (3311881), Son Los Angeles 33.94216 / -118.13586 Zone-11 N3756324 E3 T03S, R12W (S) NEAR DOWNEY, WES	nce uth Gate (3311882) 95032 ST LOS ANGELES	Presence: Trend:	Extirpated Unknown	Elevation (ft): Acres:	Site Last Seen: Record Last Updated: 1 mile 125	XXXX-XX-XX 2002-02-14



United States Department of the Interior

FISH AND WILDLIFE SERVICE Carlsbad Fish And Wildlife Office 2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385 Phone: (760) 431-9440 Fax: (760) 431-5901 http://www.fws.gov/carlsbad/



March 22, 2021

In Reply Refer To: Consultation Code: 08ECAR00-2021-SLI-0775 Event Code: 08ECAR00-2021-E-01727 Project Name: Former Union Carbide Torrance Distribution Facility RAP

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, and proposed species, designated critical habitat, and candidate species that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq*.), and projects affecting these species may require development of an eagle conservation plan

(http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

http://

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Carlsbad Fish And Wildlife Office

2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385 (760) 431-9440

Project Summary

Consultation Code:	08ECAR00-2021-SLI-0775
Event Code:	08ECAR00-2021-E-01727
Project Name:	Former Union Carbide Torrance Distribution Facility RAP
Project Type:	** OTHER **
Project Description:	The proposed project would be located in an industrial area in the City of
	Torrance, in the County of Los Angeles. The existing 37-acre Torrance
	Distribution Facility is located at 19500 Mariner Avenue (Assessor's
	Parcel Number: 7352-001-030) and is owned by the Union Carbide
	Corporation (UCC), a wholly owned subsidiary of The Dow Chemical
	Company. The project site consists of a 13.8-acre area within the
	southeastern portion of the larger facility.

Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@33.85360420000001,-118.34753625903303,14z</u>



Counties: Los Angeles County, California

Endangered Species Act Species

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Pacific Pocket Mouse <i>Perognathus longimembris pacificus</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8080</u>	Endangered
Birds	
NAME	STATUS
California Least Tern <i>Sterna antillarum browni</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/8104</u>	Endangered
Coastal California Gnatcatcher <i>Polioptila californica californica</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/8178</u>	Threatened
Least Bell's Vireo Vireo bellii pusillus There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/5945</u>	Endangered
Western Snowy Plover Charadrius nivosus nivosus Population: Pacific Coast population DPS-U.S.A. (CA, OR, WA), Mexico (within 50 miles of Pacific coast) There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/8035</u>	Threatened

Insects

NAME	STATUS
Palos Verdes Blue Butterfly <i>Glaucopsyche lygdamus palosverdesensis</i> There is final critical habitat for this species. The location of the critical habitat is not available.	Endangered
Species profile: <u>https://ecos.fws.gov/ecp/species/8535</u>	

Crustaceans

NAME	STATUS
Riverside Fairy Shrimp Streptocephalus woottoni	Endangered
There is final critical habitat for this species. The location of the critical habitat is not available.	
Species profile: <u>https://ecos.fws.gov/ecp/species/8148</u>	

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

APPENDIX C Cultural Resources Records Search Results (Confidential)