



June 23, 2016

Amy Rowland
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**Subject: San Diego Gas & Electric Company, ETS 25240 TL 695/6971
Reconductor Project, Supplemental Jurisdictional Delineation Letter
Report**

Dear Ms. Rowland,

This letter report documents a supplemental preliminary jurisdictional delineation performed by Pangea Biological (Pangea) and Borchers Environmental Management in support of SDG&E's proposed TL695/6971 Reconductor Project (Project). The original *Jurisdictional Delineation Report* was completed and submitted in November 2015. This letter report provides supplemental information on potentially jurisdictional areas in additional project areas (mostly existing access roads) that were added to the project since the original report. The purpose of the supplemental delineation was to identify wetlands and waters under jurisdiction of the Army Corps of Engineers (ACOE) pursuant to Section 404 of the Clean Water Act (CWA), Regional Water Quality Control Board (RWQCB) pursuant to Section 401 of the CWA, California Department of Fish and Wildlife (CDFW) pursuant to Section 1602 of the Fish and Game Code, and California Coastal Commission (CCC) pursuant to the Coastal Act.

The supplemental jurisdictional delineation survey areas include new project components that fall completely or partially outside of the original Project Study Area (PSA), as described and mapped in the 2015 Jurisdictional Delineation Report. These additional survey areas include possible direct bury pole work areas and a buffer of 150 feet to each side of the centerline (300 feet total survey corridor width). Other additional proposed components that fall partially or completely outside of the original survey area include footpaths for pedestrian access to poles, staging yards, stringing sites, work/staging/turnaround areas, helicopter incidental land areas (ILAs), and additional project access roads. These survey areas include an approximately 50-foot buffer around staging yards, stringing sites, and

work/staging/turnaround areas, and an approximately 20-foot buffer on either side of the proposed access roads (with an approximately 52-foot-wide survey corridor).

The supplemental survey corridor contains jurisdictional resources subject to regulation by the U.S. Army Corps of Engineers, Regional Water Quality Control Board, California Department of Fish and Wildlife, and California Coastal Commission. This jurisdictional delineation report describes the existing conditions of those resources and presents the results of the study. For information on the regulations that govern the jurisdictional resources located on the site and the methodology used to conduct the delineation please refer to the *Jurisdictional Delineation Report* submitted in 2015.

Results

Pangea biologist Dawn Huss and Borcher Environmental Management biologist Andrew Borcher conducted a wetlands and waters determination and delineation assessment of the project area on June 8, June 9 and June 14, 2016. Weather conditions were fair during the surveys, consisting of temperatures ranging from 68 to 74 degrees Fahrenheit, wind speeds were from 0 to 6 miles per hour, and generally overcast skies each morning and sunny skies in the afternoon.

Areas with and without hydrophytic vegetation were observed within the survey area. Areas with hydrophytic vegetation, in general, were considered potential wetland sites. Areas without hydrophytic vegetation were considered upland, unless evidence suggested that a wetland or other jurisdictional water might occur at the particular location. Sample point locations were determined based on the potential presence of water features and analyzed for the presence or absence of jurisdictional limits. If jurisdictional features were extensions of features already delineated in 2015 they were assessed for changes since the original survey. If it was determined the conditions have not changed delineation results were generally an extension of the 2015 survey. All jurisdictional boundaries were recorded with a GPS device.

Limited sample points (4 total) were evaluated, and only 4 new jurisdictional features were identified within the buffer zones of the new project components of the PSA. Features that were previously identified and numbered in 2015 that extended into the areas surveyed in 2016 retained the same identification. New features were numbered sequentially starting at Feature 27 (see Attachment A). The results of the analysis regarding vegetation, soils, and hydrology are presented below. In addition to jurisdictional features, other water conveyance features were also mapped and identified (Attachment B). These include natural and manufactured swales, erosional gull/rills, concrete brow/v-ditches, storm drain inlets/outlets, road shoulder chutes and culverts.

Within the survey area the eastern portion of the project alignment starts north of MCB Camp Pendleton near the Talega Substation, spans across several small canyons and valleys supporting ephemeral and intermittent channels, crosses San Mateo and San Onofre Creeks and ends near the Songs Mesa Facility. The western portion of the alignment starts at the Songs Mesa Facility and continues north also crossing both San Mateo and San Onofre Creeks in addition to ephemeral channels and vegetated basins. All jurisdictional features have a surface flow connection draining directly or through tributaries into San Mateo or San Onofre Creek. Both San Mateo and San Onofre Creeks drain directly into the Pacific Ocean within 0.5 miles west of the PSA.

Vegetation

The upland areas of the survey area supported sage scrub, chaparral and grassland communities. The intermittent channels, creek floodplains and vegetated basins support southern willow scrub, mule fat scrub, alkali marsh, emergent wetland, willow riparian forest, and sycamore willow riparian forest. Vegetation communities are described further in the short descriptions of each feature listed below.

Both the eastern and western portions of San Onofre Creek support mule fat scrub dominated by mule fat (*Baccharis salicifolia*). Additionally, the western portion of the San Onofre Creek supports mature riparian habitat including willow scrub and riparian forest dominated by willow (*Salix* spp.) and sycamore willow riparian forest dominated by western sycamore (*Plantanus racemosa*) and willows. The ephemeral channels delineated generally supported coastal sage scrub and chaparral vegetation communities.

Hydrology

A variety of hydrological indicators were observed within the jurisdictional features. The smaller ephemeral channels had evidence of recent flow by the presence of sediment deposits, surface soil cracks and sometimes drifts deposits. San Onofre Creek displayed surface soil cracks, sediment deposits, water-stained leaves, drift deposits, and inundation visible on the aerials. All channels and creeks were completely dry during the time of the survey. Areas that supported some hydrophytic vegetation but were dominated by upland vegetation generally supported scattered mule fat and California sage (*Artemisia californica*), elderberry (*Sambucus nigra*), California buckwheat (*Eriogonum fasciculatum*) and coyote bush (*Baccharis pilularis*).

Soils

The Soil Survey of San Diego and Orange, Counties and digital soil maps from NRCS' SSURGO 2.2 Database were consulted for this jurisdictional evaluation (NRCS 2016) and the mapped soil units occurring within the areas are summarized in Table 1. Terrace escarpments, riverwash and 11 soil series were identified within the mapped potential jurisdictional area (see table below). (USDA 1973).

Table 1: Mapped Soils within Jurisdictional Area Evaluated

Unit #	Unit Name	Drainage Class	Runoff Class	Taxonomic Class
100*	Alo clay, 30 to 50% slopes	Well	High	Fine, smectitic, thermic Aridic Haploxererts
AtD	Altamont clay, 9 to 15% slopes	Well	Very High	Fine, smectitic, thermic Aridic Haploxererts
149	Cropley clay, 2 to 9% slopes	Well drained	Very high	Fine, smectitic, thermic Aridic Haploxererts
GaF	Gaviota fine sandy loam, 30 to 50% slopes	Well drained	Medium	Loamy, mixed, superactive, nonacid, thermic Lithic Xerorthents
HaG	Hambright gravelly clay loam, 30 to 75% slopes	Well drained	High	Loamy-skeletal, mixed, superactive, thermic Lithic Haploxerolls
LeE	Las Flores loamy fine sand, 9 to 15% slopes	Moderately well drained	Low	Fine, smectitic Natric Palexeralfs
MIE	Marina loamy coarse sand, 9 to 30% slopes	Somewhat Excessive	High	Mixed, thermic Lamellic Xeropsamments
173	Myford sandy loam, 15 to 30% slopes	Moderately well drained	Low	Fine-loamy, mixed, superactive, thermic Typic Palexeralfs
Rm	Riverwash	Excessive	Negligible	NA
ScB	Salinas clay, 2 to 5% slopes	Well drained	Medium	Fine-loamy, mixed, superactive, thermic Pachic Haploxerolls
TeF	Terrace escarpments	NA	NA	NA
TuB	Tujunga sand, 0 to 5% slopes	Excessive	Negligible	Mixed, thermic Typic Xeropsamments
VaA	Visalia sandy loam, 0 to 2% slopes	Well	Very low	Loamy-skeltal, mixed, superactive, thermic Pachic Haploxerolls

Source: NRCS 2015

*Soils mapped within Orange County consist of number code and soils mapped within San Diego County consist of a letter code.

No soil samples were collected due to the high potential to disturb cultural resources. All sample points were assumed to contain hydric soils.

Data Sample Points

A total of 4 sample locations were evaluated. Sample points were numbered sequentially, continuing the numbering from the original 2015 sample points and starting at Sample Point 38. Sample points 40 and 41 were paired on opposite sides of the upland-wetland boundary, based on clear dominance by either wetland or non-wetland plant species. In areas that were determined to not be jurisdictional wetland a pair sample point was not taken. For example, Sample Point 38 was taken in a small depression below a culvert (Attachment B, Page 8; Attachment C, Photo 3). This point was determined to be not jurisdictional and no other sample points were taken at this location. For each location, an arid west wetland determination form was completed and a number was assigned (Attachment D).

A sub-meter GPS was used to record sample locations, and along jurisdictional boundaries. Supporting photographs and data forms are included in Attachments B and C, respectively. Observations and data in support of the delineation are summarized below. The mapbook in Attachment B shows the delineation of areas determined to be jurisdictional by ACOE, RWQCB and CDFW, just CDFW, and CCC.

Four new features were identified jurisdictional to ACOE, RWQCB and CDFW. Some features supported areas determined to be ACOE, RWQCB and CDFW wetland, but also supported non-wetland open channel, and CDFW jurisdictional adjacent riparian vegetation. Data forms were completed for all sample locations (Attachment C). Each feature including some sampling results are discussed below. Jurisdictional acreage within the survey area of each feature is shown in Table 2 below.

New Jurisdictional Features

Feature 27 (Intermittent Channel)

Feature 27 is an intermittent channel that drains a residential area northwest of Talega Substation into Talega Canyon south of the substation and into Cristianitos Creek. This feature flows through a box culvert under the paved road to the substation. The survey area extends into the channel and into the channel canopy vegetated with dense oak woodland (Attachment B, Page 1; Attachment C Photos 1 and 2). No sample points were taken within this feature due to dense poison oak (*Toxicodendron diversilobum*) and the lack of hydrophytic vegetation within the survey area. One project structure (Pole Location 174) occurs approximately 50 feet south of the coast live oak woodland associated with this feature.

Feature 28 (Ephemeral Channel)

Feature 28 consists of an ephemeral channel in a small narrow canyon (Attachment B, Page 19; Attachment C, Photo 6). This approximately 2-foot wide channel is culverted under the existing access road and drains local hillsides to the southwest eventually into Cristianitos Creek. No sample points were taken due to a lack of hydrophytic vegetation.

Feature 29 (Ephemeral Channel)

Feature 29 consists of an ephemeral channel on the lower south-facing slopes north of Cristianitos Road (Attachment B, Page 27; Attachment C, Photo 7). This approximately 2-foot wide channel runs parallel and west of the existing access road before it is culverted under Cristianitos Road and eventually into San Mateo Creek. This feature drains hillside runoff from the adjacent gentle slopes. No sample points were taken due to a lack of hydrophytic vegetation.

Feature 30 (Intermittent Channel, Wetland)

Feature 30 consists of an intermittent channel that supports wetland vegetation (southern willow scrub and mule fat scrub) both south and north of an existing access road (Attachment B, Page 62; Attachment C, Photos 13 and 14). This feature drains a large riparian forest that occurs to the southeast (Feature 20) into San Onofre Creek to the north. This channel is culverted under the existing access road. Two sample points were taken at this location. Sample Point 40 was taken within the channel and consisted of a dominance of hydrophytic vegetation and primary indicators of hydrology including surface soil cracks, sediment deposits and water-stained leaves. Sample Point 41 was taken outside of the channel above the area supporting hydrophytic vegetation. The area above the channel did not support hydrophytic vegetation and did not have primary indicators of hydrology.

Extension of Previously Identified Jurisdictional Features

Feature 5 (Intermittent Channel)

Feature 5 crosses under the existing access road draining the residential area and dog park to the west into Cristianitos Creek (Attachment B, Page 11; Attachment C, Photos 4 and 5). This portion of the channel consists of rip-rap and sand, and is maintained (recent vegetation removal evident). No sample points were taken due to a lack of hydrophytic vegetation. Further downstream, under the existing line this channel supports patches of wetland vegetation.

Feature 14 (Ephemeral Channel)

Feature 14 consists of an ephemeral channel southwest of an existing access road on the steep west-facing slopes south of San Mateo Canyon (Attachment B, Page 37; Attachment C, Photo 8). This approximately 2-foot wide channel occurs in a small ravine that drains the

hillsides down into San Mateo Canyon. No sample points were taken due to a lack of hydrophytic vegetation.

Feature 15 (San Onofre Creek, Intermittent Channel, Wetland and Non-Wetland)

Feature 15 is San Onofre Creek and occurs within the PSA at 3 locations. One location occurs in the westernmost portion of the channel approximately 0.5 miles from its outlet into the Pacific Ocean (Attachment B, Pages 55 and 56; Attachment C, Photos 10 and 11). In the western portion the survey area was extended due to the addition of a distribution pole (Pole Location 118) that occurs south of the channel. This western portion of the channel supports a large adjacent wetland habitat consisting mostly of sycamore willow riparian forest to the south and northwest, and willow riparian forest to the northeast. Braided unvegetated channels also occur. Sample Point 4 was taken on an island bench between two open channels. The island bench was dominated by hydrophytic vegetation and has primary indicators of hydrology including water marks, sediment deposits and surface soil cracks. Other wetland areas (southern willow scrub and sycamore willow riparian forest) also occur within the extended survey area. However, these features were mapped previously and no additional sample points were required. This portion of San Onofre Creek occurs within the CCC's boundary.

Two other crossings of San Onofre Creek were delineated during the supplemental survey further inland. Both of these portions were mostly unvegetated channel with mule fat scrub occurring on the channel fringe (Attachment B, Pages 45 and 82; Attachment C, Photos 9 and 16). No sample points were taken due to existing data from previous survey, and the lack of hydrological indicators outside of the channel.

Feature 20 (Riparian Canopy)

Riparian vegetation (sycamore willow riparian forest) supported by the convergence of Feature 20 and San Onofre Creek at the western edge of the supplemental survey area west of Pole Location 120 (Attachment B, Page 57; Attachment C, Photo 12). The canopy edge occurs approximately 80 feet west and downslope from Pole Location 120. No sample points were taken because the survey area only consists of riparian canopy and not the channel that supports the canopy.

Feature 24 (Ephemeral Channel)

Feature 24 is an ephemeral channel that drains the east-facing slopes and adjacent access roads east of Cristianitos Road (Attachment B, Page 72; Attachment C, Photo 15). This feature is culverted under the existing access road and eventually drains under Cristianitos Road and into San Mateo Creek to the east. No sample points were taken due to a lack of hydrophytic vegetation.

Within the supplemental survey area a total of approximately; 174,749 square feet (4.012 acres) of ACOE Waters of the U.S., RWQCB Waters of State, and CDFW Streambed, 580,743 square feet (13.332 acres) of ACOE Wetland of the U.S., RWQCB Wetland Waters of State, and CDFW Wetland Streambed, 77,438 square feet (1.777 acres) of RWQCB Waters of State, and CDFW Streambed, 14,622 square feet (0.336 acre) of ACOE Wetland and RWQCB Wetland Waters of the State 321,704 square feet (7.38 acres) of CDFW Riparian, and 575,985 square feet (13.222 acres) of CCC Wetland occur.

Conclusion

All wetlands and riparian areas identified continue outside of the survey area and are part of either the San Mateo or San Onofre Creek systems that flow directly into the Pacific Ocean. All waters, streambed, wetland and riparian features delineated are jurisdictional and will require permits/agreements from ACOE, RWQCB and CDFW if impacted. In addition to ACOE, RWQCB and CDFW all features identified within the Coastal Zone are also jurisdictional to the CCC, and if impacted may require a coastal development permit.

There are no additional project components that have been proposed that are expected to impact jurisdictional features located in supplemental survey areas. All jurisdictional areas either occur adjacent to existing roads that will not require expanded roadway, or occur outside of proposed work areas. Special precautions should be considered to avoid impacts to jurisdictional areas adjacent to access roads including identification of appropriate turnouts and flagging and/or fencing jurisdictional areas where appropriate.

Please let me know if you have any questions regarding the results presented in this letter report.



Andrew Borcher
Principal Biologist

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Attachment A

Table 2: Updated Summary of Jurisdictional Wetlands and Riparian Areas in Survey Area

Table 2: Updated Summary of Jurisdictional Wetlands and Riparian Areas in Survey Area

Wetland	Jurisdiction	Total Area (Square Feet)	Total Area (Acres)
Previously Surveyed Features (Including Added Extensions)			
Feature 1	ACOE/RWQCB/CDFW Waters	439	0.010
	RWQCB/CDFW Streambed	869	0.020
Feature 2	ACOE/RWQCB/CDFW Waters	834	0.019
	RWQCB/CDFW Streambed	840	0.019
Feature 3	ACOE/RWQCB/CDFW Wetland	6,001	0.138
	CDFW Riparian	6,705	0.154
Feature 4	ACOE/RWQCB/CDFW Waters	405	0.009
	RWQCB/CDFW Streambed	818	0.019
Feature 5	ACOE/RWQCB/CDFW Waters	149	0.003
	RWQCB/CDFW Streambed	833	0.019
	ACOE/RWQCB/CDFW Wetland	2,444	0.056
Feature 6	ACOE/RWQCB/CDFW Waters	1,071	0.025
	RWQCB/CDFW Streambed	1,075	0.025
Feature 7	ACOE/RWQCB/CDFW Waters	521	0.012
	RWQCB/CDFW Streambed	522	0.012
Feature 8	ACOE/RWQCB/CDFW Waters	5,120	0.118
	RWQCB/CDFW Streambed	10,274	0.236
Feature 9	ACOE/RWQCB/CDFW Waters	1,301	0.030
	RWQCB/CDFW Streambed	1,301	0.030
Feature 10	ACOE/RWQCB/CDFW Waters	1,233	0.028
	CDFW Riparian	31,349	0.720

Wetland	Jurisdiction	Total Area (Square Feet)	Total Area (Acres)
Feature 11	ACOE/RWQCB/CDFW Waters	458	0.011
	RWQCB/CDFW Streambed	459	0.011
Feature 12	ACOE/RWQCB/CDFW Waters	600	0.014
	RWQCB/CDFW Streambed	1,207	0.028
Feature (San Mateo East)	ACOE/RWQCB/CDFW Waters	66,508	1.527
	ACOE/RWQCB/CDFW Wetland	23,602	0.542
	CDFW Riparian	107,006	2.457
Feature 14	ACOE/RWQCB/CDFW Waters	1,299	0.03
	RWQCB/CDFW Streambed	1,261	0.029
Feature (San Onofre East)	ACOE/RWQCB/CDFW Waters	50,493	1.16
	RWQCB/CDFW Streambed	46,080	1.057
Feature 16	ACOE/RWQCB/CDFW Waters	979	0.022
	RWQCB/CDFW Streambed	2,956	0.068
Feature 17	ACOE/RWQCB/CDFW Wetland	8,909	0.205
	ACOE/RWQCB/CDFW Waters	2,002	0.046
	RWQCB/CDFW Streambed	2,016	0.046
Feature 18	ACOE/RWQCB/CDFW Wetland/CCC Wetland	40,714	0.935
Feature (San Onofre West)	ACOE/RWQCB/CDFW Wetland/CCC Wetland	137,243	3.151
	ACOE/RWQCB/CDFW Waters/CCC Waters	33,479	0.768
	CDFW Riparian/CCC Wetland	77,815	1.79
Feature 20	ACOE/RWQCB/CDFW Waters/CCC Wetland	991	0.023
	RWQCB/CDFW Streambed/CCC Wetland	1,419	0.033

Wetland	Jurisdiction	Total Area (Square Feet)	Total Area (Acres)
	CDFW Riparian/CCC Wetland	10,025	0.23
Feature 21	ACOE/RWQCB/CDFW Wetland/CCC Wetland	196,489	4.511
Feature (San Mateo West)	ACOE/RWQCB/CDFW Wetland/CCC Wetland	160,532	3.685
	CDFW Riparian/CCC Wetland	58,420	1.341
Feature 23	ACOE/RWQCB/CDFW Waters	1,829	0.042
	RWQCB/CDFW Streambed	3,062	0.070
	CDFW Riparian	21,072	0.484
Feature 24	ACOE/RWQCB/CDFW Waters	4,409	0.101
	RWQCB/CDFW Streambed	1,919	0.044
Feature 25	ACOE/RWQCB Wetland	6,307	0.145
Feature 26	ACOE/RWQCB Wetland	8,315	0.191
New Features			
Feature 27	ACOE/RWQCB/CDFW Waters	1,368	0.031
	CDFW Riparian	9,312	0.21
Feature 28	ACOE/RWQCB/CDFW Waters	46	0.001
	RWQCB/CDFW Streambed	92	0.002
Feature 29	ACOE/RWQCB/CDFW Waters	166	0.004
	RWQCB/CDFW Streambed	166	0.004
Feature 30	ACOE/RWQCB/CDFW/CCC Wetland	40	0.001
	RWQCB/CDFW Streambed/CCC Wetland	269	0.006
	ACOE/RWQCB/CDFW Wetland/CCC Wetland	4,809	0.11
Total ACOE/RWQCB/CDFW Waters		174,749	4.012
Total ACOE/RWQCB/CDFW Wetland		580,743	13.332

Wetland	Jurisdiction	Total Area (Square Feet)	Total Area (Acres)
Total RWQCB/CDFW Streambed		77,438	1.777
Total ACOE/RWQCB Wetland		14,622	0.336
Total CDFW Riparian		321,704	7.38
Total CCC Wetland		575,985	13.222

Attachment B – Aquatic Delineation Maps

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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

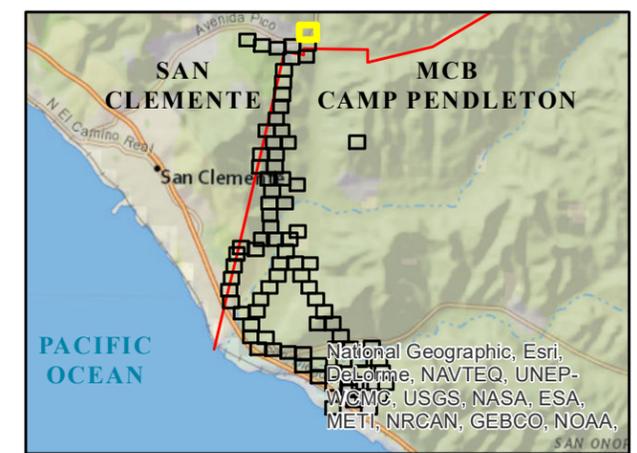
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Feet

Legend

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|  | Staging Area |  | Delineation Results |
|  | Project Study Area |  | Sample Points |
| | |  | Delineated Feature |
| | |  | Swale (Non-jurisdictional) |



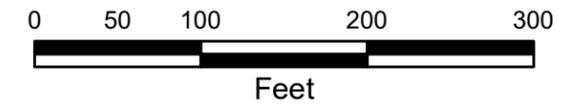
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Aquatic Delineation Maps

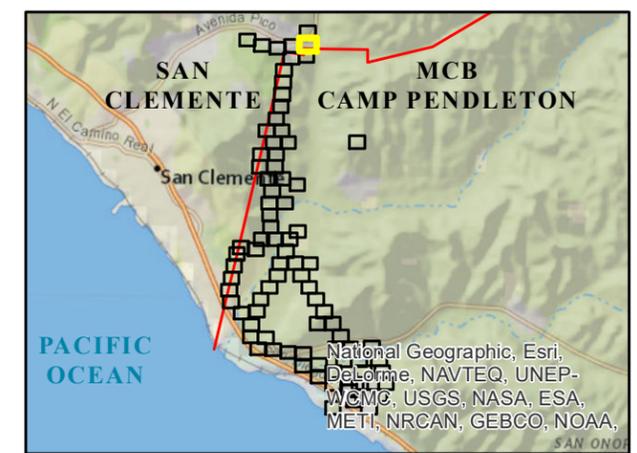
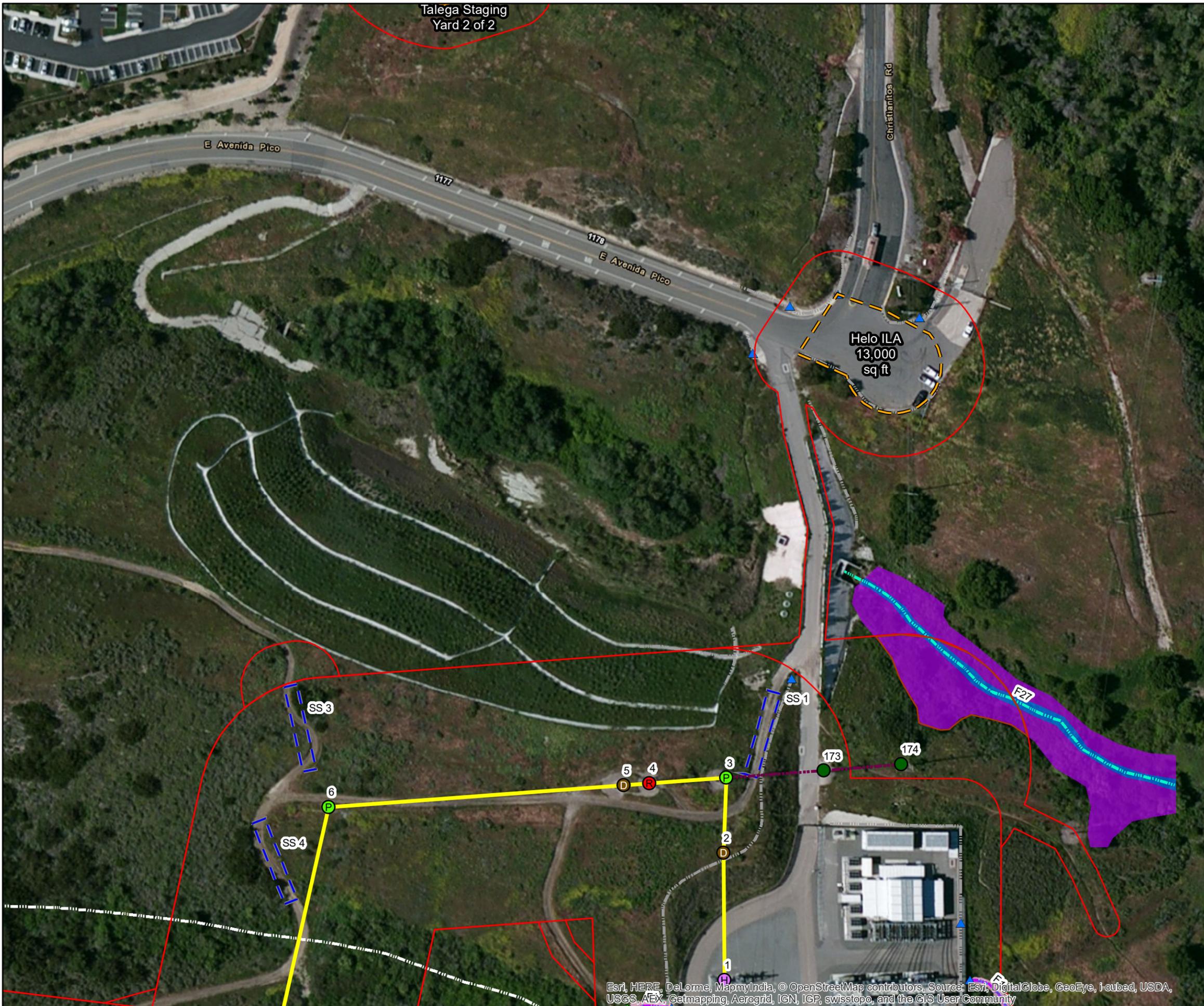
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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles		Delineation Results	
	Direct Bury		Sample Points
	Overhead Work		Culvert/Storm Drain
	Pier Foundation	Delineated Feature	
	PR		ACOE Waters/CDFW/RWQCB
	Remove From Service		Concrete ACOE Waters/CDFW/RWQCB
	Staging Area		Concrete V-Ditch/Channel (Non-jurisdictional)
	Overhead Route		Swale (Non-jurisdictional)
	Stringing Site	Jurisdictional Wetlands and Waters	
	Project Study Area		ACOE Waters/RWQCB/CDFW
			CDFW Streambed/RWQCB
			CDFW Riparian



Created By Pangea Biological, June 2016
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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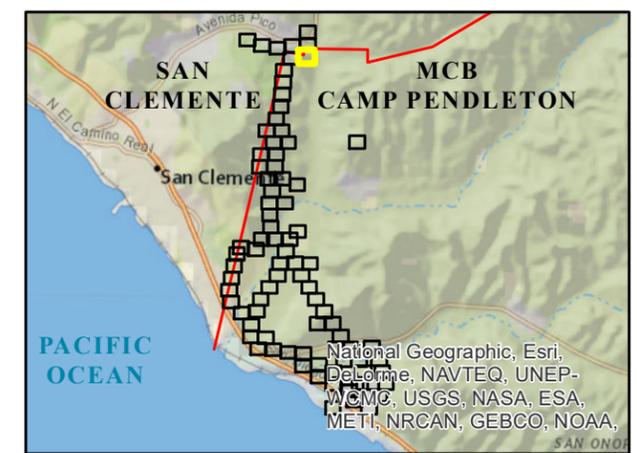
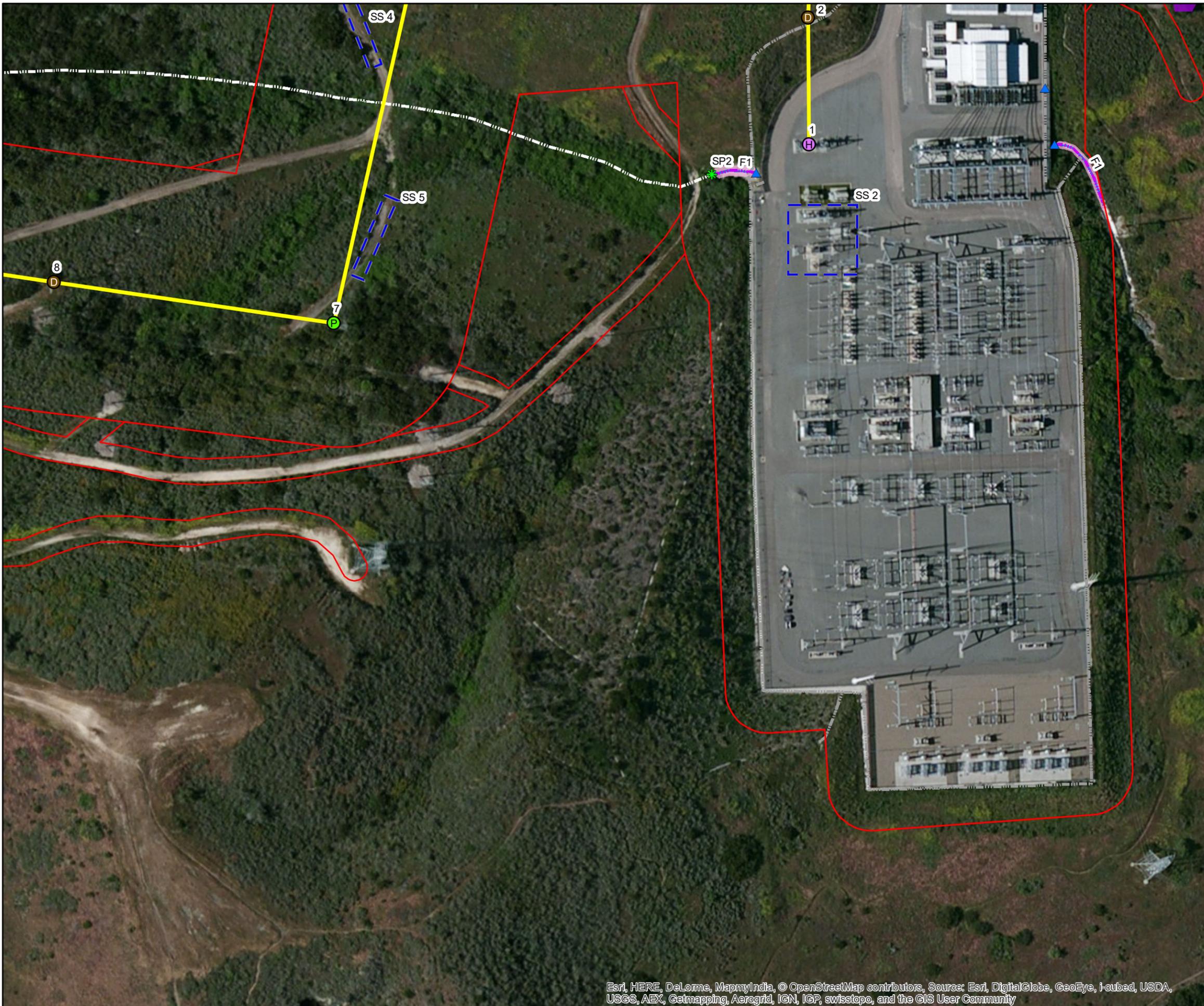
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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles		Delineation Results	
	Direct Bury		Sample Points
	Overhead Work		Culvert/Storm Drain
	Pier Foundation	Delineated Feature	
	Overhead Route		Concrete ACOE Waters/CDFW/RWQCB
	Stringing Site		Concrete V-Ditch/Channel (Non-jurisdictional)
	Project Study Area		Swale (Non-jurisdictional)
		Jurisdictional Wetlands and Waters	
			ACOE Waters/RWQCB/CDFW
			CDFW Streambed/RWQCB
			CDFW Riparian



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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Feet

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Project Utility Poles

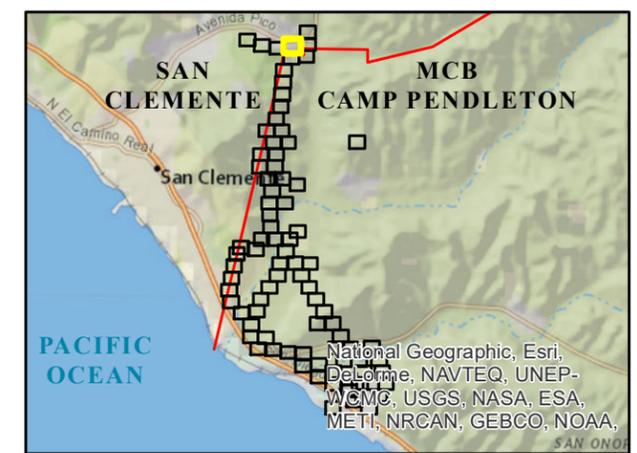
- Direct Bury
- Pier Foundation
- Remove From Service
- Staging Area
- Overhead Route
- Stringing Site
- Project Study Area

Delineation Results

- Sample Points
- Delineated Feature**
- ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB



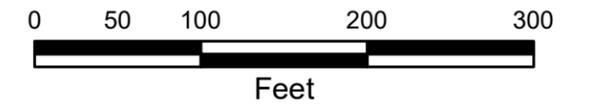
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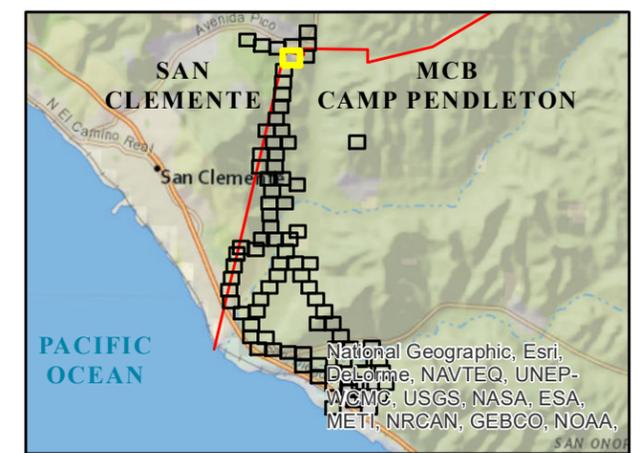
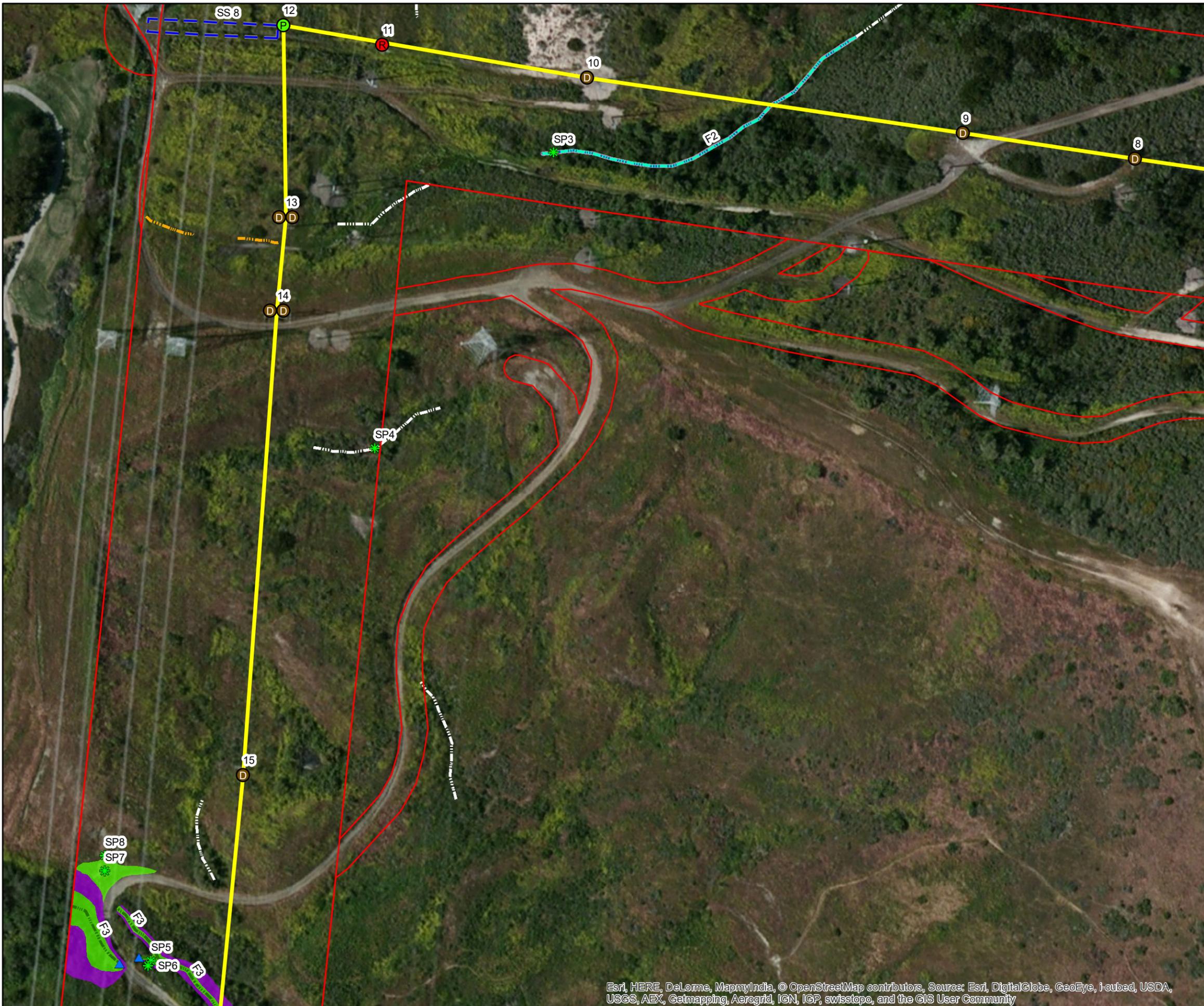
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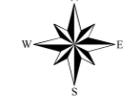


Legend

Project Utility Poles		Delineation Results	
	Direct Bury		Sample Points
	Direct Bury Multiple		Culvert/Storm Drain
	Pier Foundation	Delineated Feature	
	Remove From Service		ACOE Waters/CDFW/RWQCB
	Overhead Route		ACOE Wetland/CDFW/RWQCB
	Stringing Site		Erosional Feature (Non-jurisdictional)
	Project Study Area		Swale (Non-jurisdictional)
		Jurisdictional Wetlands and Waters	
			ACOE Wetland/RWQCB/CDFW
			ACOE Waters/RWQCB/CDFW
			CDFW Streambed/RWQCB
			CDFW Riparian



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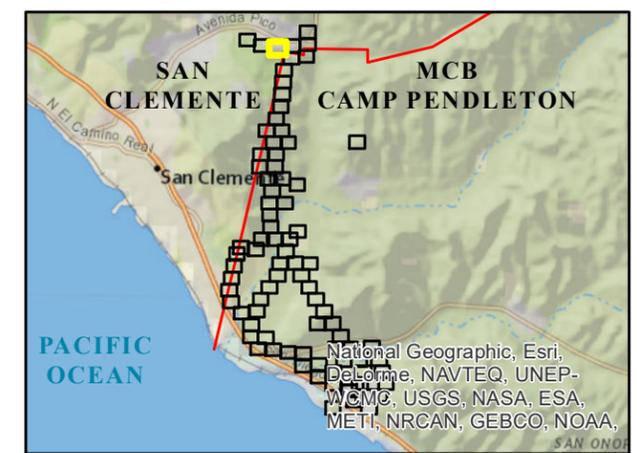
1 inch = 110 feet @11" x 17"



Feet

Legend

-  Stringing Site
-  Project Study Area
- Delineated Feature**
-  Concrete V-Ditch/Channel (Non-jurisdictional)
-  Erosional Feature (Non-jurisdictional)



Created By Pangea Biological, June 2016
 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



25240 TL695/6971
Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

0 50 100 200 300



Feet

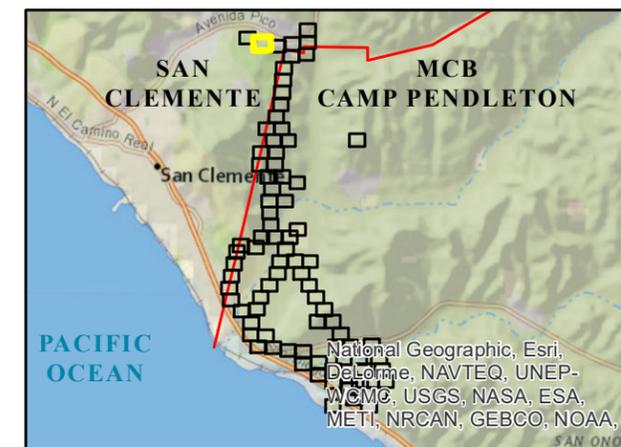
Legend

 Project Study

Delineated Feature

 Concrete V-Ditch/Channel (Non-jurisdictional)

 Swale (Non-jurisdictional)



Created By Pangea Biological, June 2016
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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1 inch = 110 feet @11" x 17"

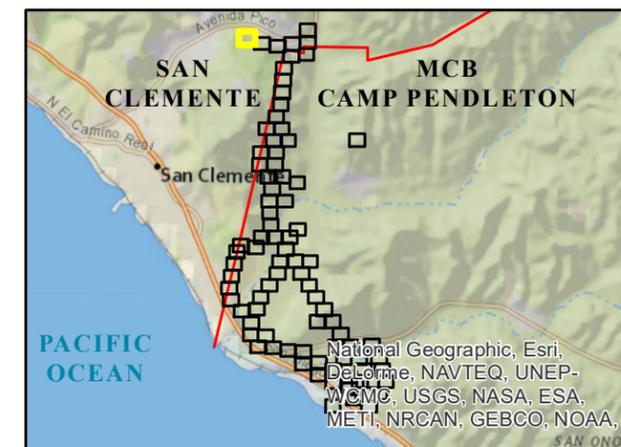
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Feet

Legend

- Project Study
- ✱ Delineation Results
Sample Points
- ▲ Culvert/Storm Drain
- Delineated Feature**
- Concrete V-Ditch/Channel (Non-jurisdictional)



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

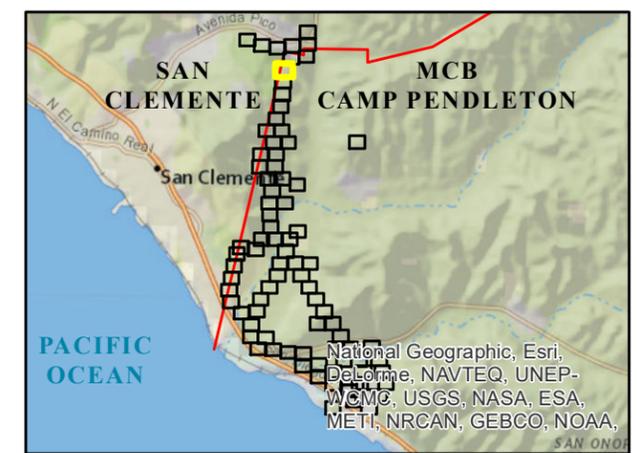
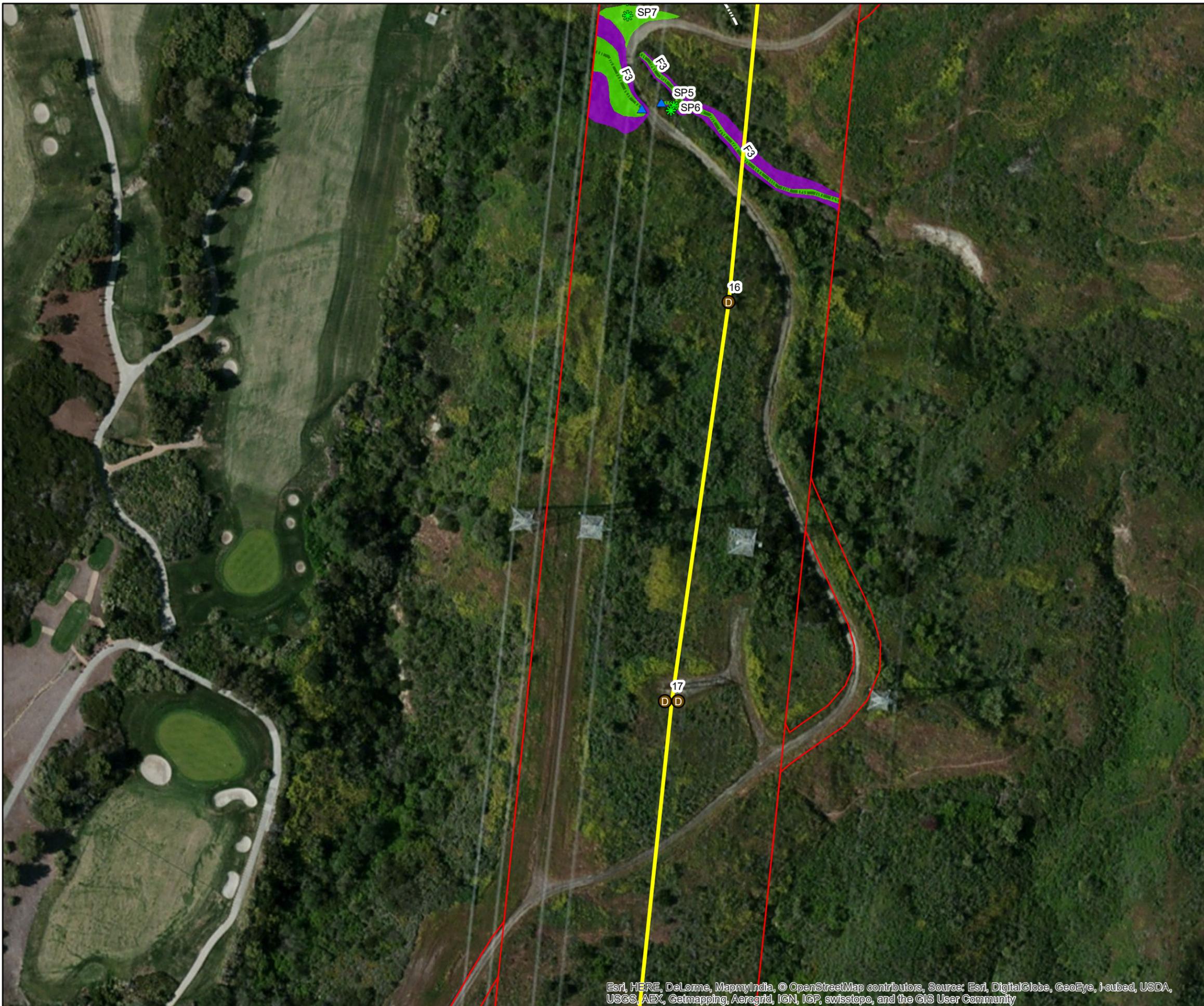
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Feet

Legend

Project Utility Poles	Delineation Results
Direct Bury	Sample Points
Direct Bury Multiple	Culvert/Storm Drain
Overhead Route	Delineated Feature
Project Study	ACOE Wetland/CDFW/RWQCB
	Swale (Non-jurisdictional)
	Jurisdictional Wetlands and Waters
	ACOE Wetland/RWQCB/CDFW
	CDFW Riparian



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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Reconductor Project
Aquatic Delineation Maps

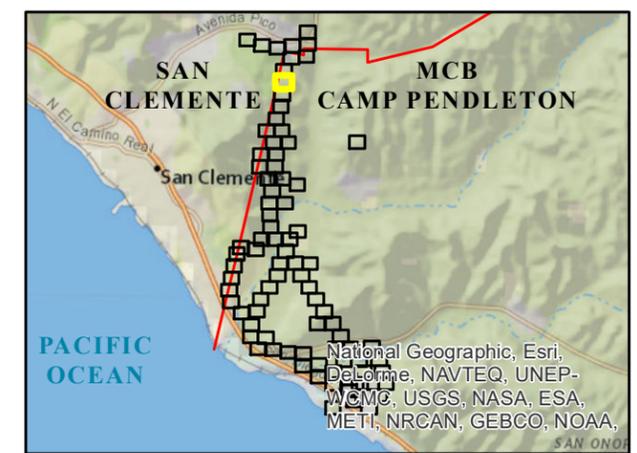
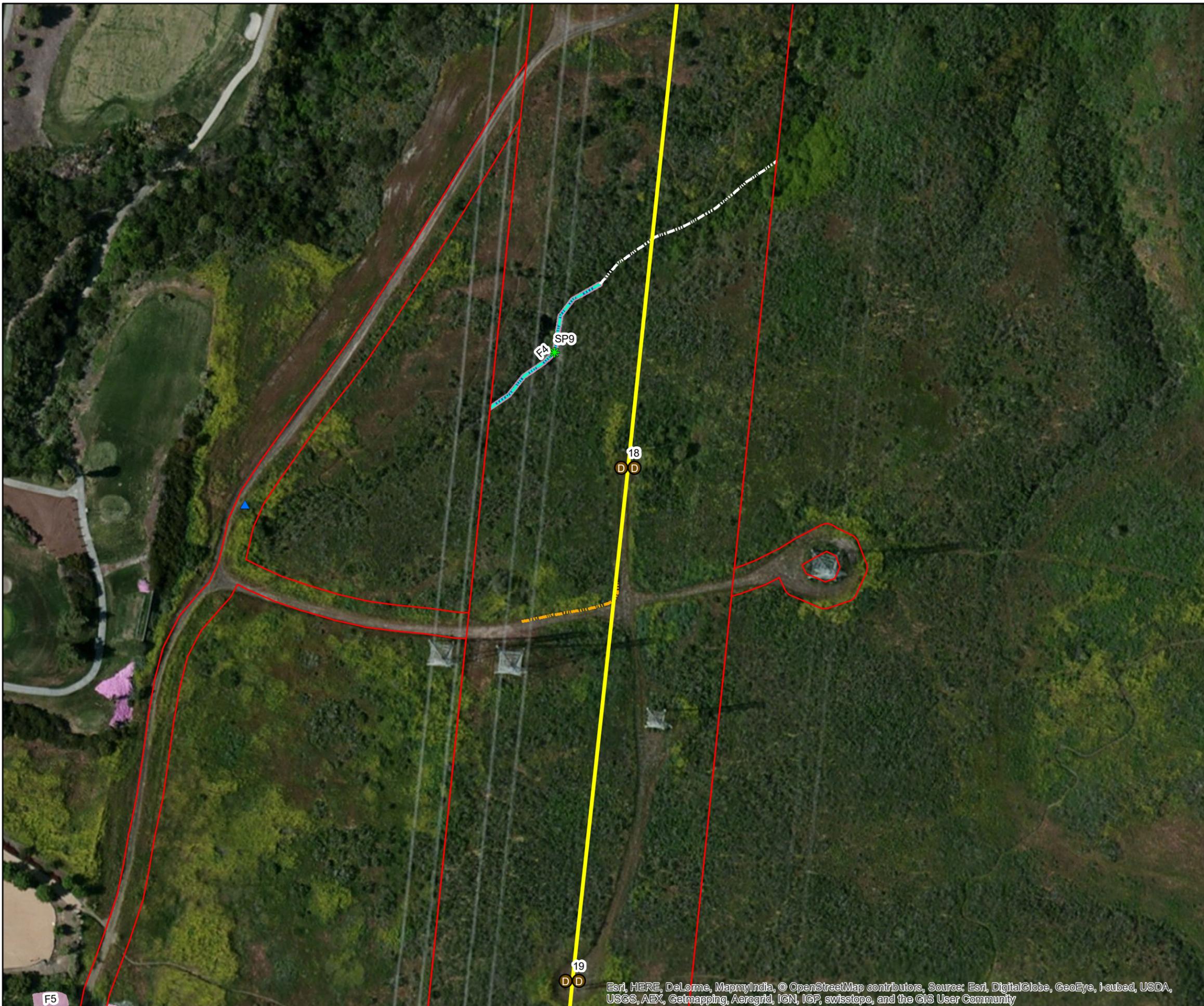
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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles		Delineation Results	
	Direct Bury Multiple		Sample Points
	Overhead Route		Culvert/Storm Drain
	Project Study Area	Delineated Feature	
			ACOE Waters/CDFW/RWQCB
			Erosional Feature (Non-jurisdictional)
			Swale (Non-jurisdictional)
		Jurisdictional Wetlands and Waters	
			ACOE Waters/RWQCB/CDFW
			CDFW Streambed/RWQCB



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Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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Reconductor Project
Aquatic Delineation Maps

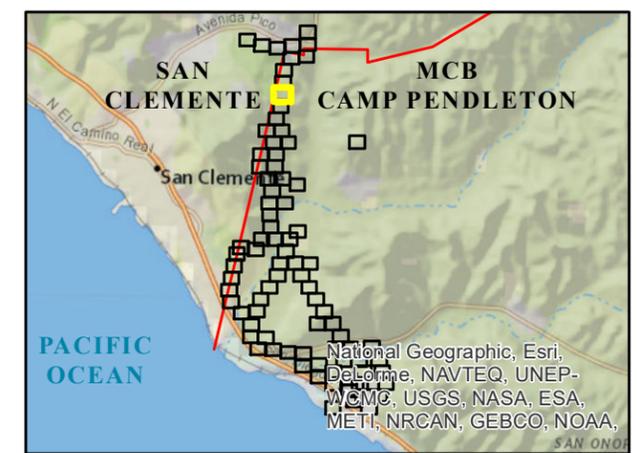
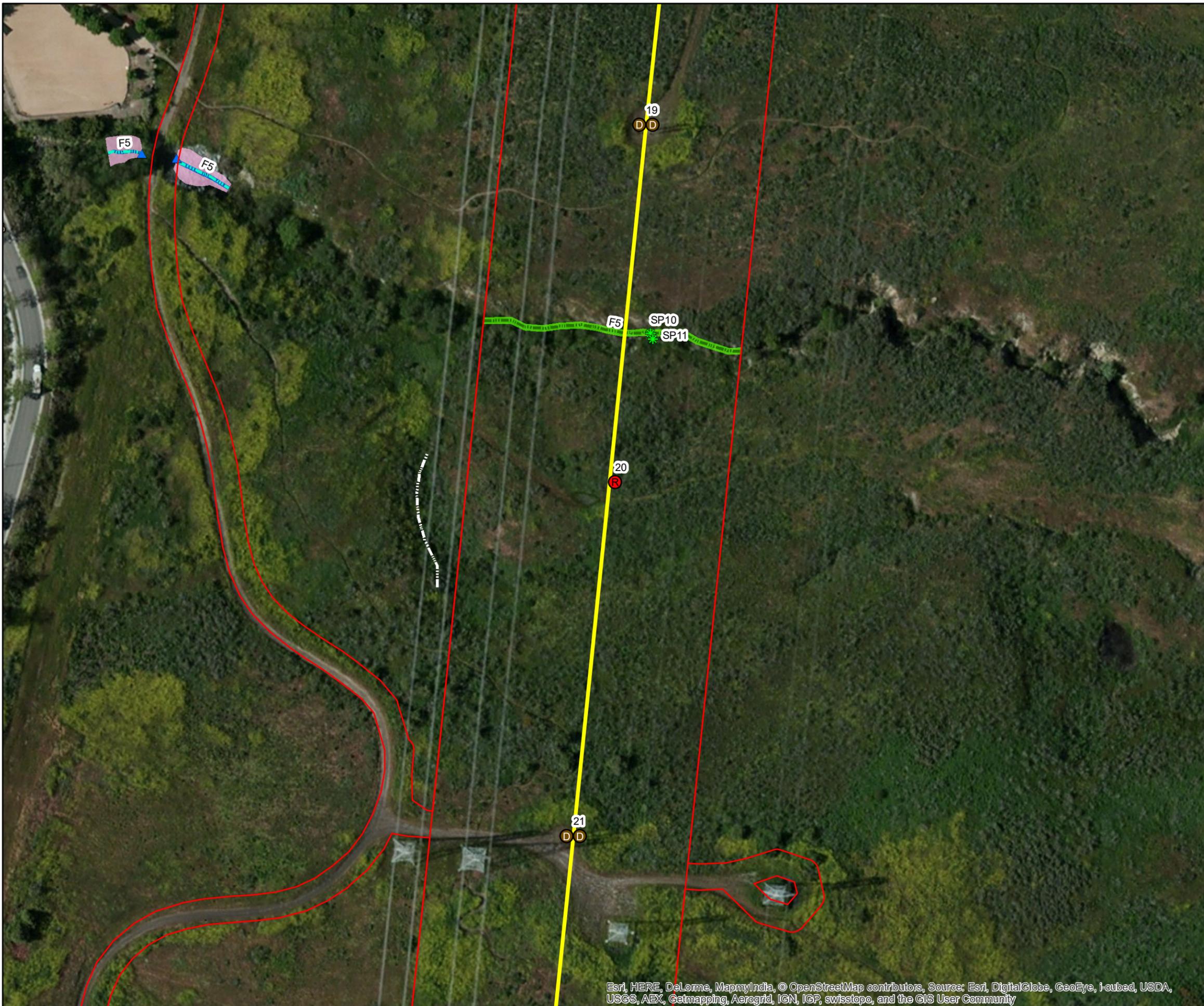
Page 11 of 88

1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles	Delineation Results
Direct Bury Multiple	Sample Points
Remove From Service	Culvert/Storm Drain
Overhead Route	Delineated Feature
Project Study Area	ACOE Waters/CDFW/RWQCB
	ACOE Wetland/CDFW/RWQCB
	Swale (Non-jurisdictional)
	Jurisdictional Wetlands and Waters
	ACOE Wetland/RWQCB/CDFW
	ACOE Waters/RWQCB/CDFW
	CDFW Streambed/RWQCB



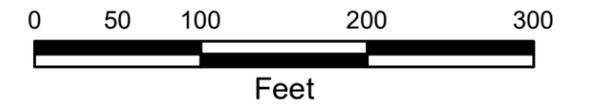
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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles

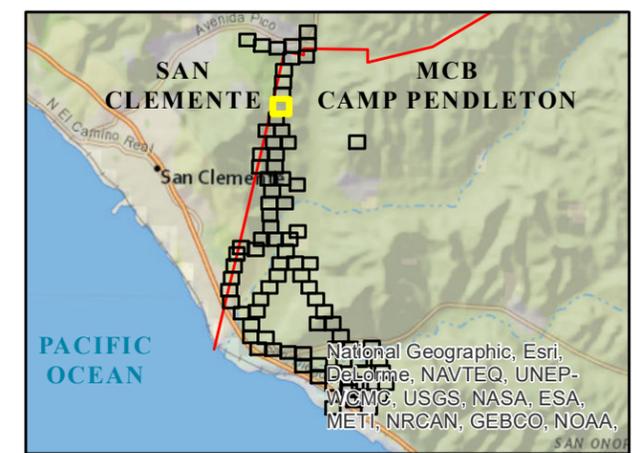
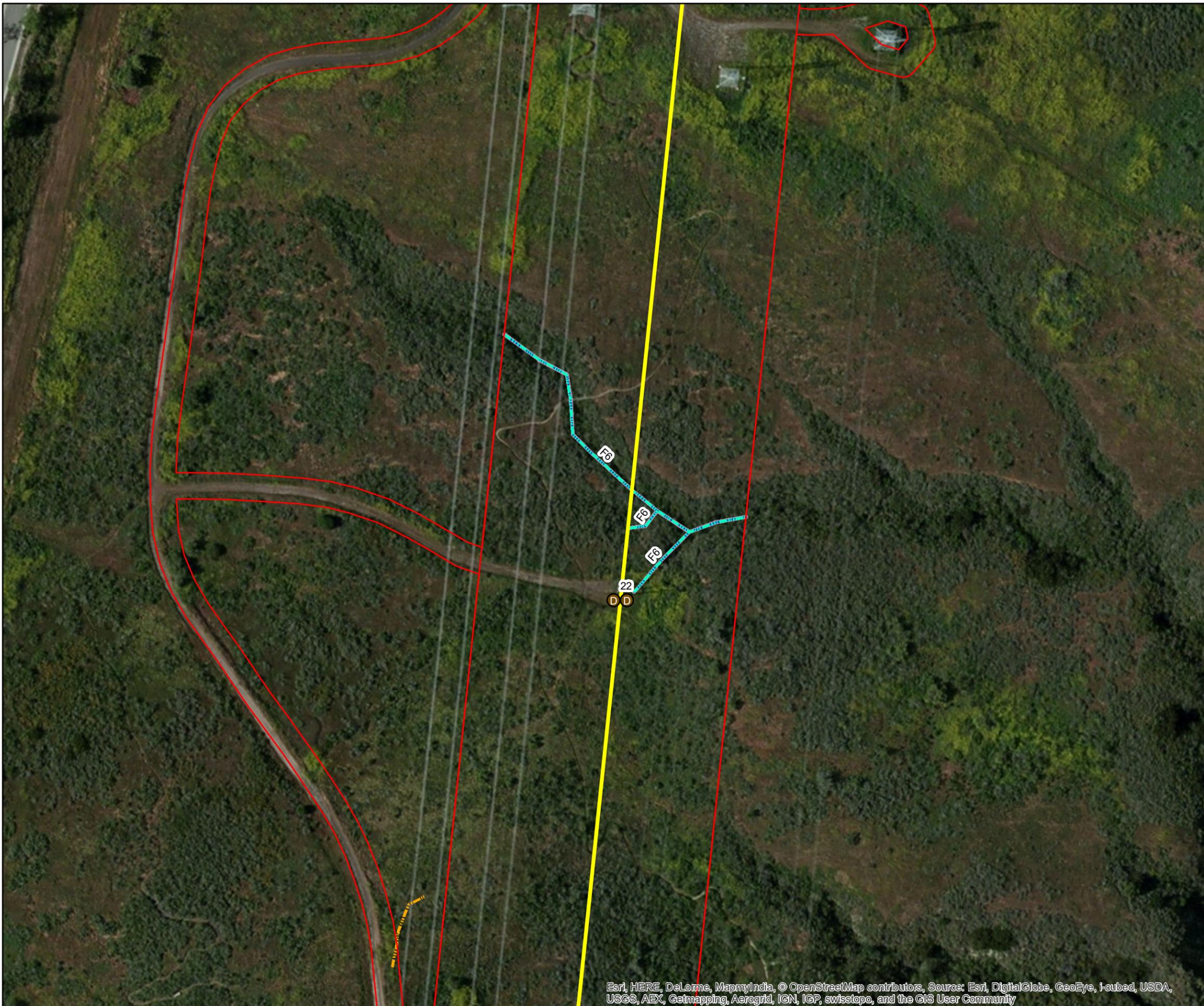
- DD Direct Bury Multiple
- Overhead Route

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- Erosional Feature (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

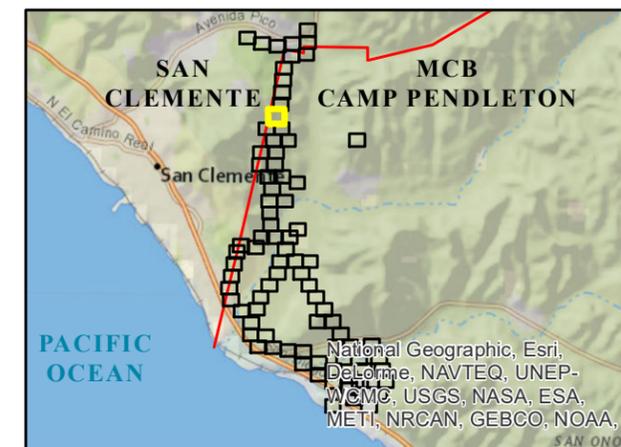
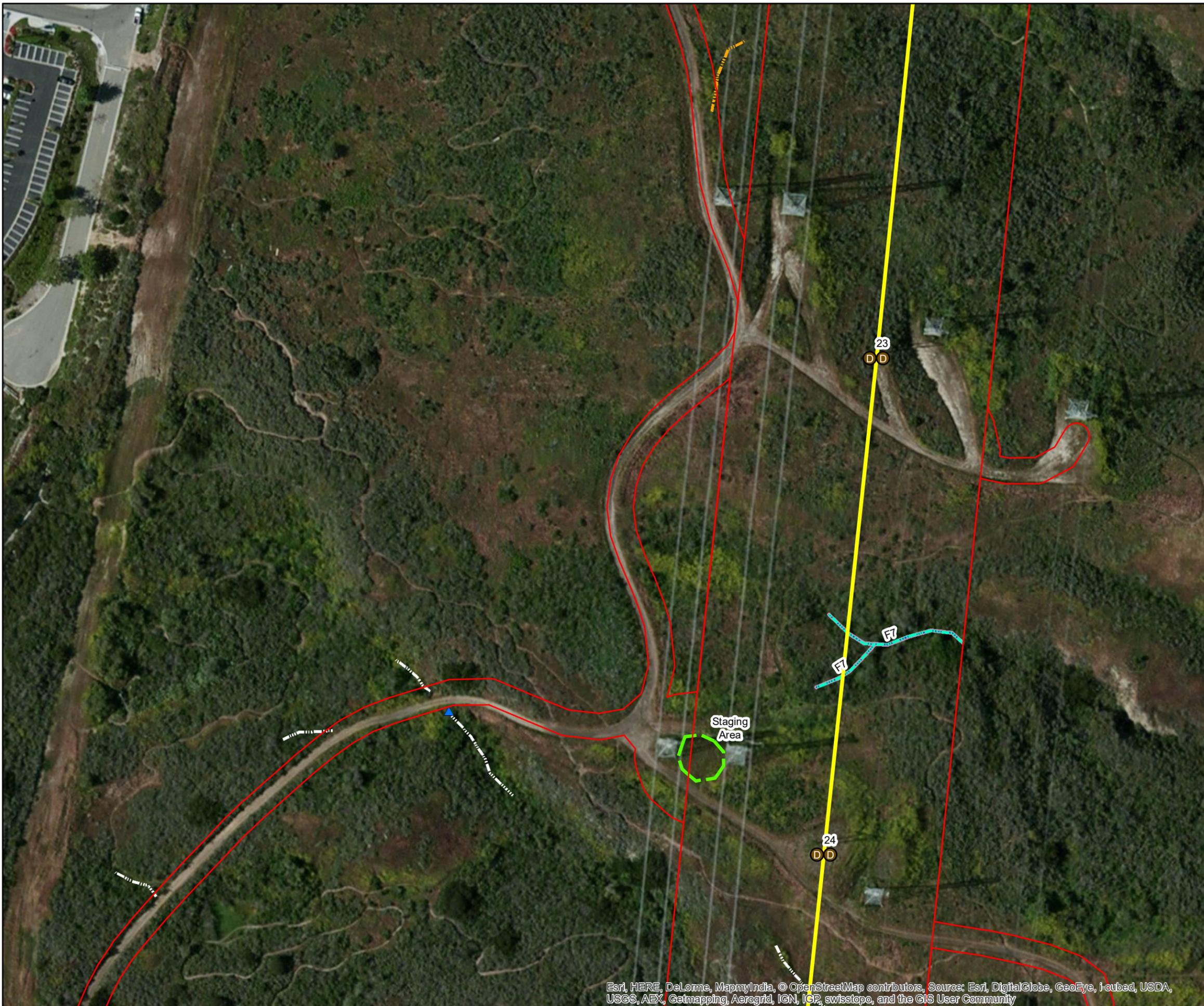
- Direct Bury Multiple
- Overhead Route
- Work/Turnaround/
Staging Area
- Project Study
- Culvert/Stom Drain

Delineated Feature

- ACOE
Waters/CDFW/RWQCB
- Erosional Feature (Non-
jurisdictional)
- Swale (Non-
jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE
Waters/RWQCB/CDFW
- CDFW
Streambed/RWQCB



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

- Direct Bury Multiple
- Remove From Service
- Overhead Route

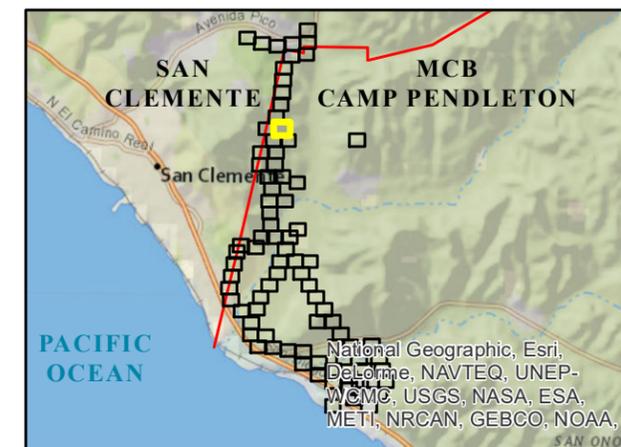
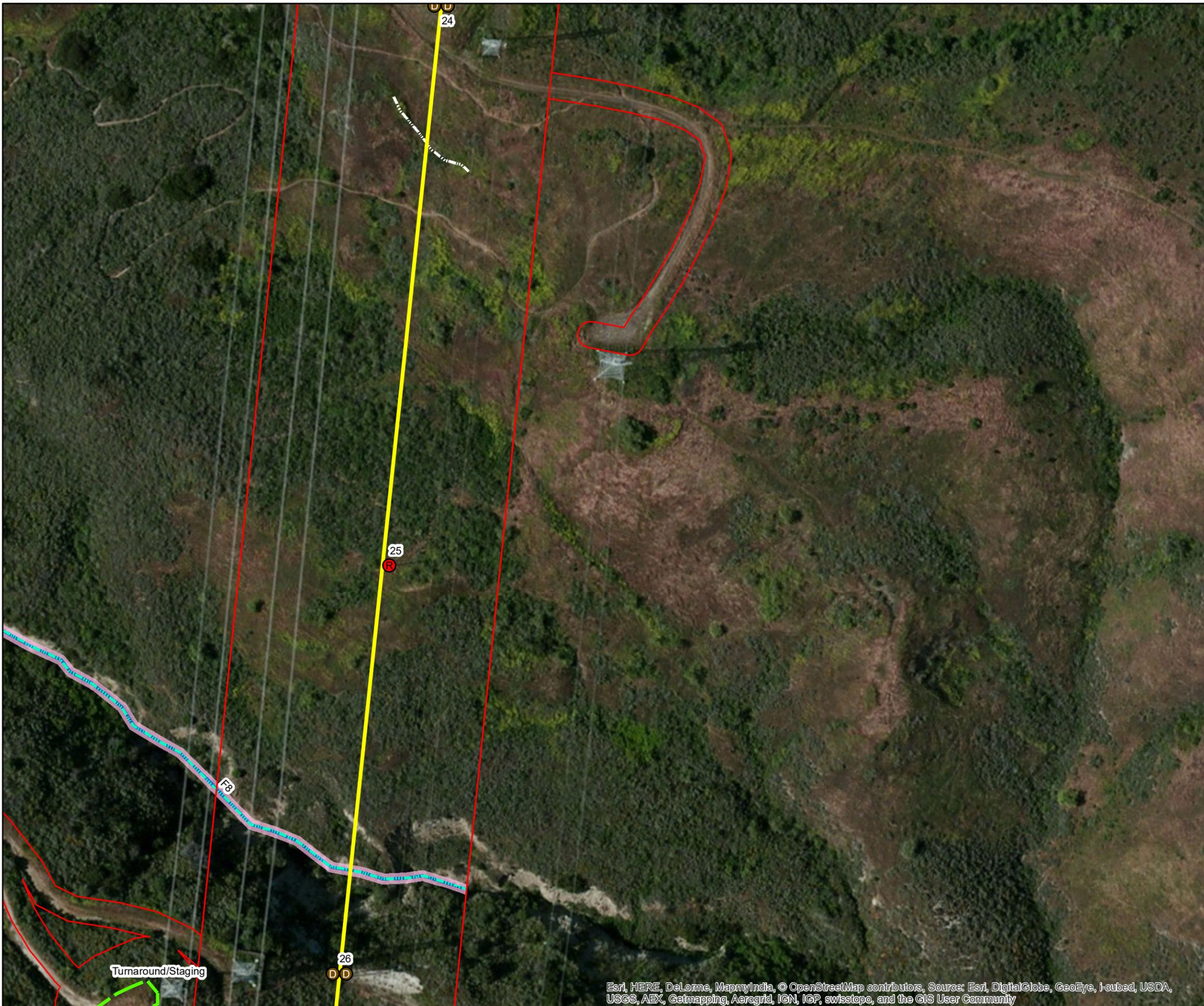
- Work/Turnaround/
Staging Area
- Project Study

Delineated Feature

- ACOE
Waters/CDFW/RWQCB
- Swale (Non-
jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE
Waters/RWQCB/CDFW
- CDFW
Streambed/RWQCB



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Legend

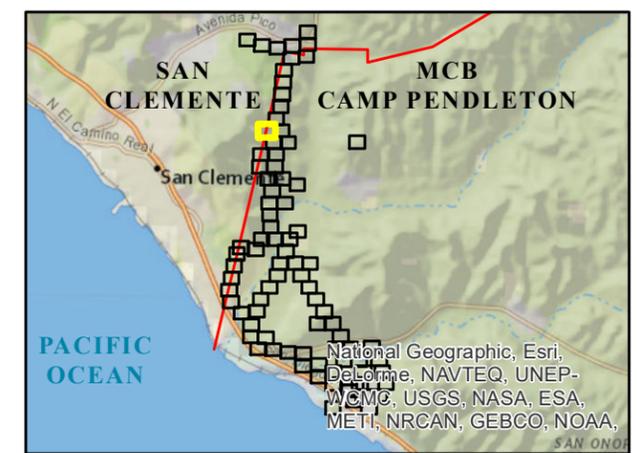
- Work/Turnaround/Staging Area
- Project Study
- Culvert/Stom Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



Turnaround/Staging

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Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles

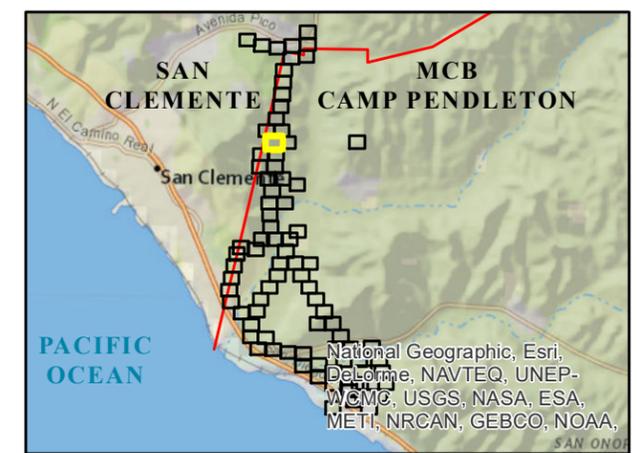
- DD Direct Bury Multiple
- Overhead Route
- Work/Turnaround/Staging Area
- Project Study Area

Delineated Feature

- ACOE Waters/CDFW/RWQCB

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB



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Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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Datum: North American 1983



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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

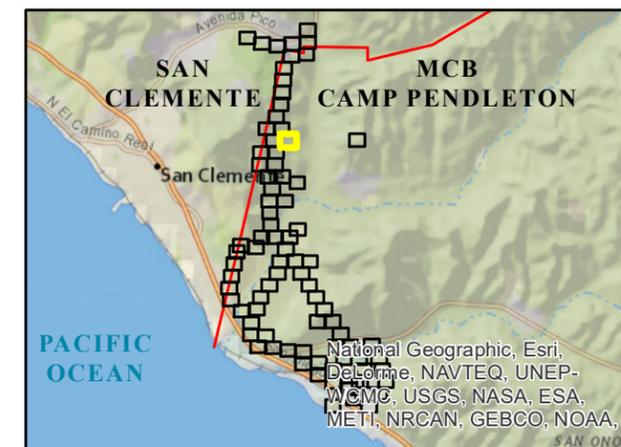
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Feet

Legend

- Project Study
- Delineated Feature**
- ACOE Waters/CDFW/RWQCB
- Jurisdictional Wetlands and Waters**
- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB



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 Projection: Lambert Conformal Conic
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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

Direct Bury Multiple

Overhead Route

Work/Turnaround/
Staging Area

Project Study

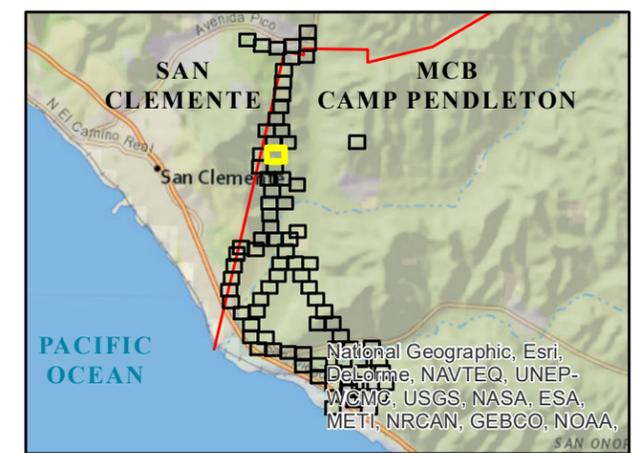
Delineated Feature

ACOE
Waters/CDFW/RWQCB

Jurisdictional Wetlands and Waters

ACOE
Waters/RWQCB/CDFW

CDFW
Streambed/RWQCB



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 Aquatic Delineation Maps

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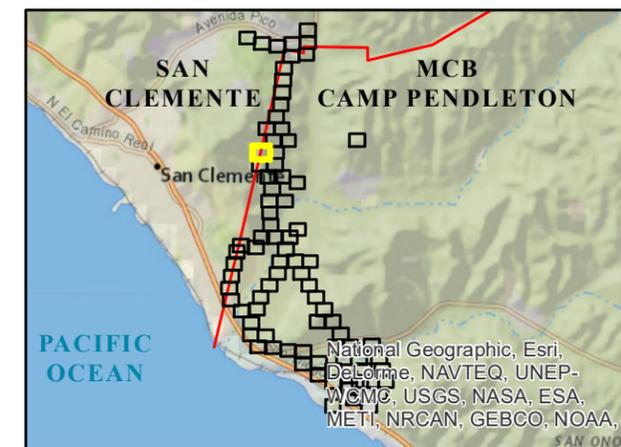
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Feet

Legend

- Work/Turnaround/
Staging Area
- Project Study
- Culvert/Stom Drain
- Delineated Feature**
- ACOE
Waters/CDFW/RWQCB
- Jurisdictional Wetlands and
Waters**
- ACOE
Waters/RWQCB/CDFW
- CDFW
Streambed/RWQCB



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

- Direct Bury
- Direct Bury Multiple
- Overhead Route

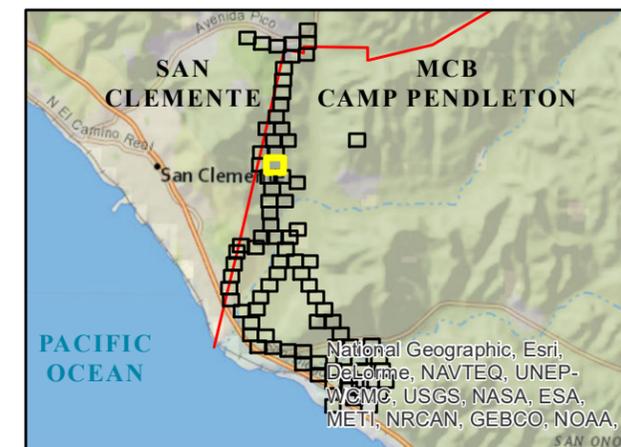
- Work/Turnaround/Staging Area
- Project Study Area

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

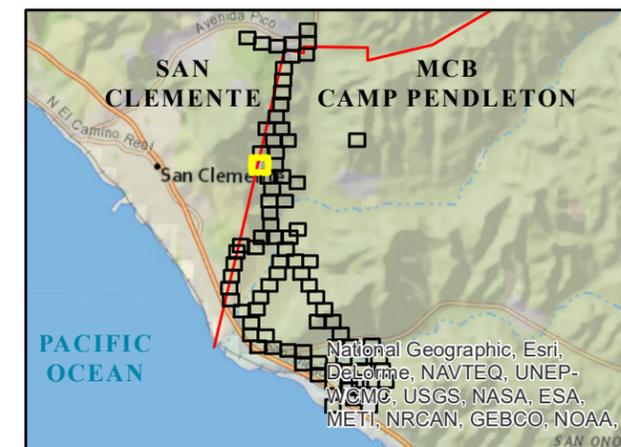
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Feet

Legend

-  Work/Turnaround/
Staging Area
-  Project Study Area



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Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

0 50 100 200 300



Feet

Legend

Project Utility Poles

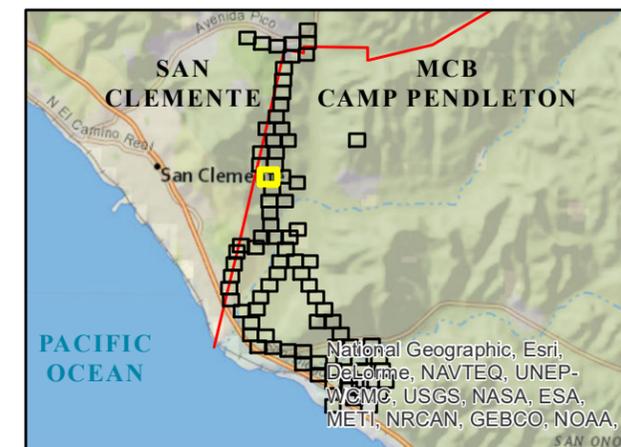
Direct Bury Multiple

Overhead Route

Project Study

Delineated Feature

Swale (Non-jurisdictional)



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Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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 Reconductor Project
 Aquatic Delineation Maps

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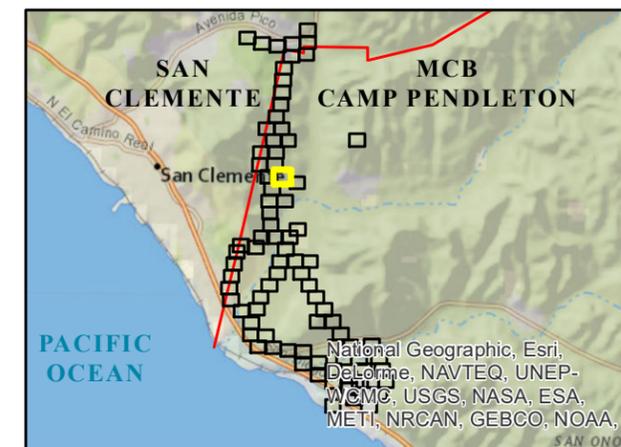
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Feet

Legend

-  Overhead Route
-  Work/Turnaround/
Staging Area
-  Project Study
- Delineated Feature**
-  Swale (Non-jurisdictional)



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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 Datum: North American 1983



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 Aquatic Delineation Maps

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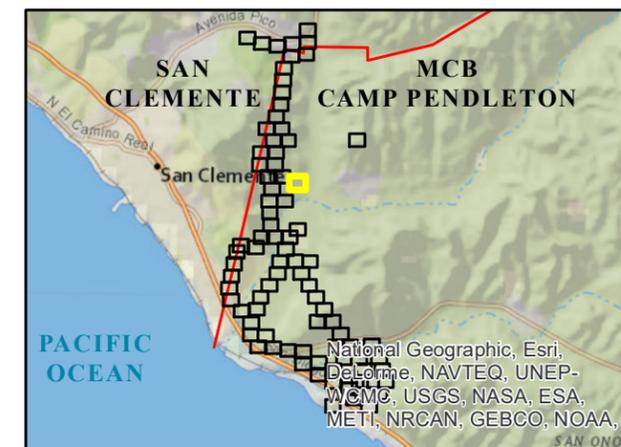
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Feet

Legend

- Work/Turnaround/
Staging Area
- Project Study
- Culvert/Stom Drain
- Delineated Feature**
- Erosional Feature (Non-
jurisdictional)
- Swale (Non-
jurisdictional)



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 Datum: North American 1983



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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



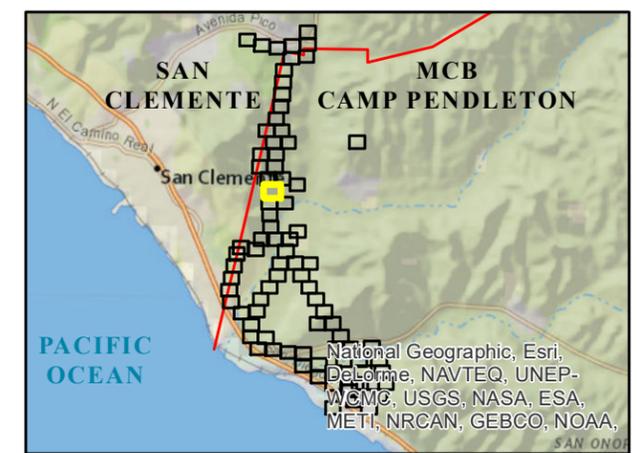
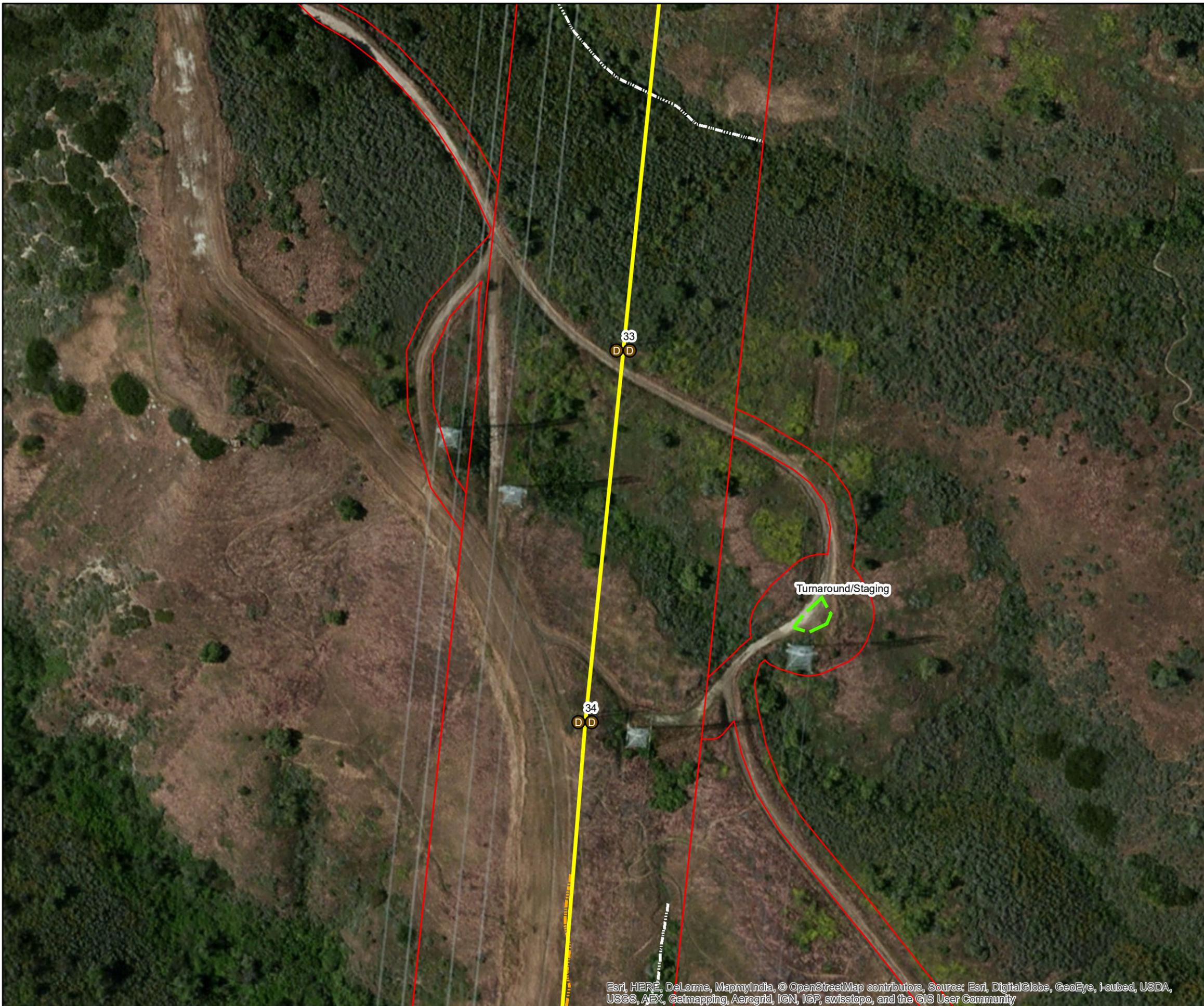
Legend

Project Utility Poles

- Direct Bury Multiple
- Overhead Route
- Work/Turnaround/Staging Area
- Project Study

Delineated Feature

- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)



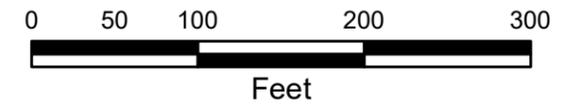
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 Reconductor Project
 Aquatic Delineation Maps

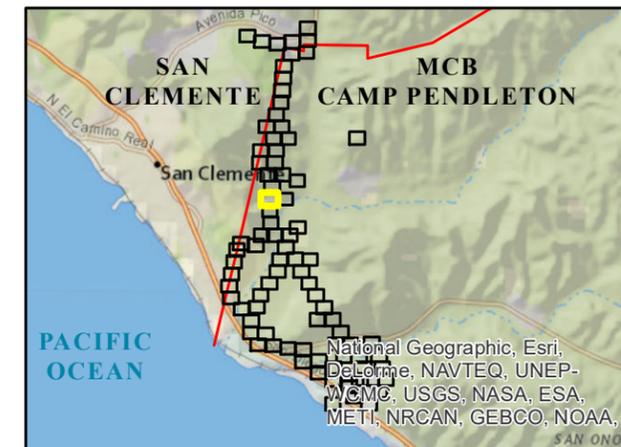
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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles		Delineation Results	
	Direct Bury		Sample Points
	Remove From Service	Delineated Feature	
	Overhead Route		ACOE Waters/CDFW/RWQCB
	Project Study		Erosional Feature (Non-jurisdictional)
			Swale (Non-jurisdictional)
		Jurisdictional Wetlands and Waters	
			ACOE Waters/RWQCB/CDFW
			CDFW Riparian



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Aquatic Delineation Maps

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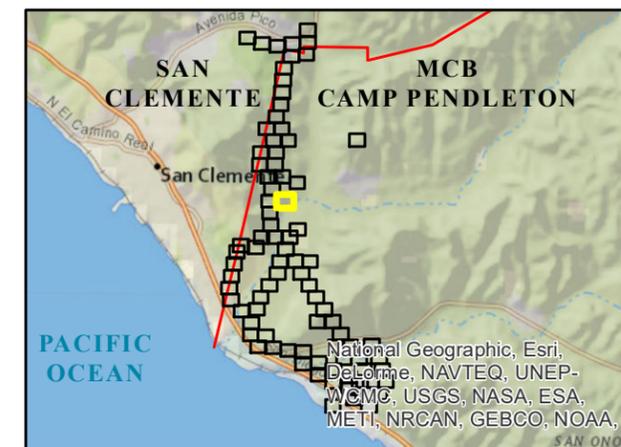
1 inch = 110 feet @11" x 17"



Feet

Legend

- Project Study Area
- ▲ Culvert/Storm Drain
- Delineated Feature**
- ACOE Waters/CDFW/RWQCB
- Jurisdictional Wetlands and Waters**
- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

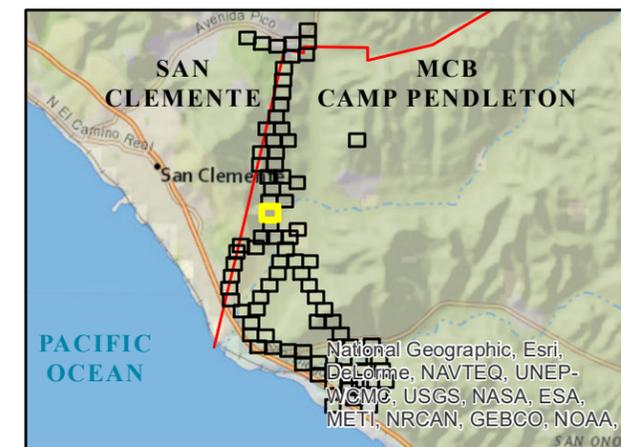
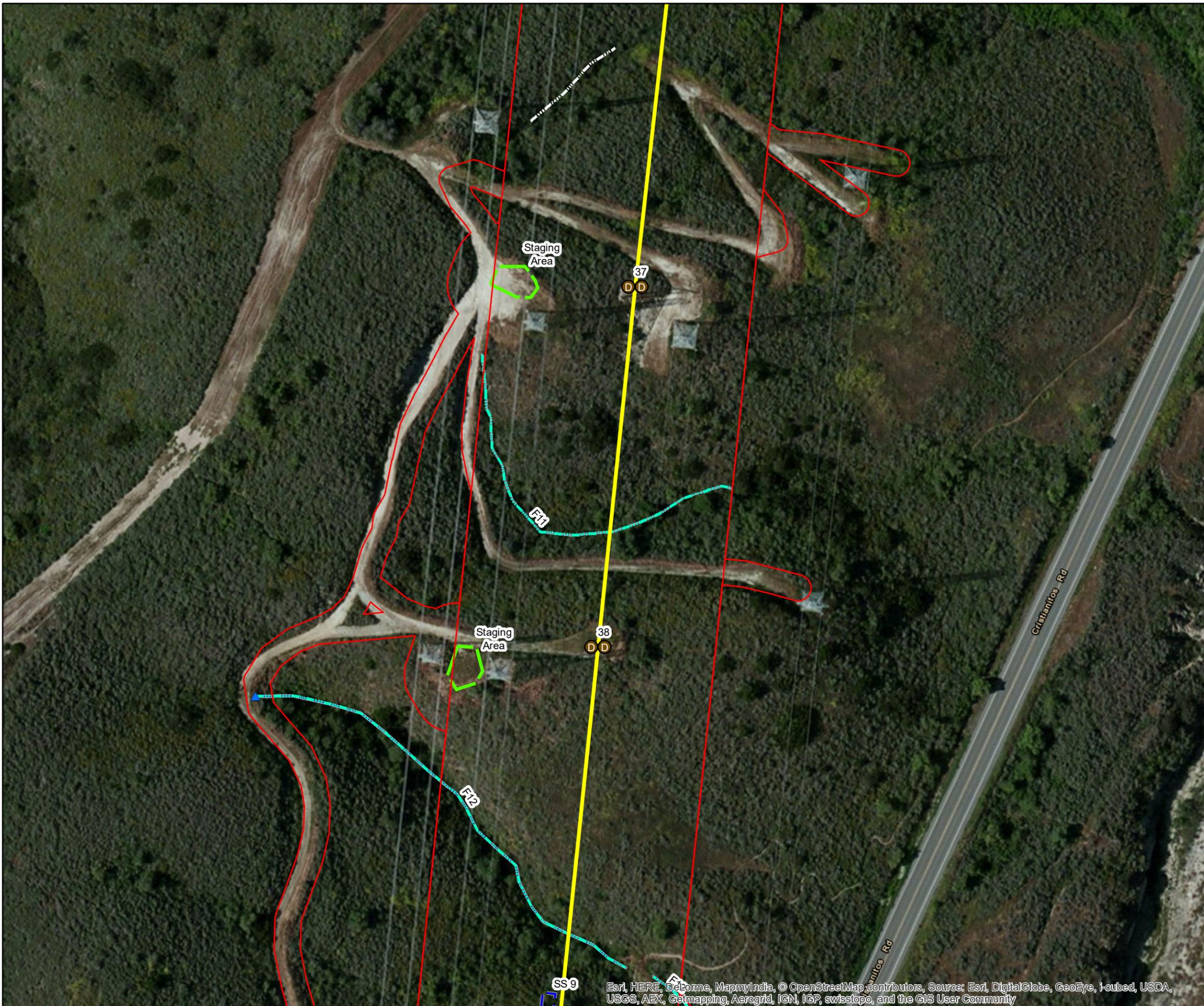
- Direct Bury Multiple
- Overhead Route
- Work/Turnaround/Staging Area
- Stringing Site
- Project Study
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

0 50 100 200 300



Feet

Legend

Project Utility Poles

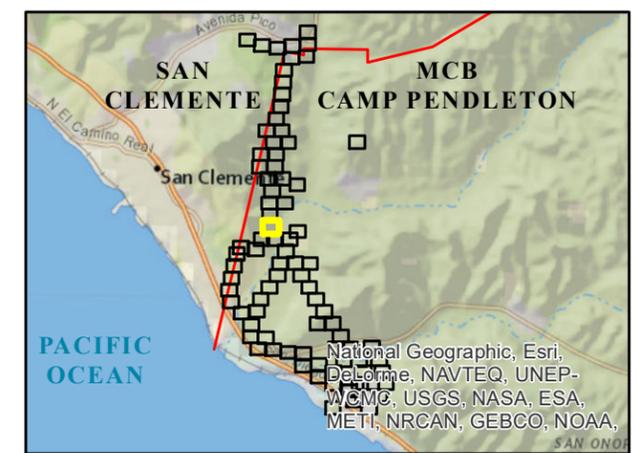
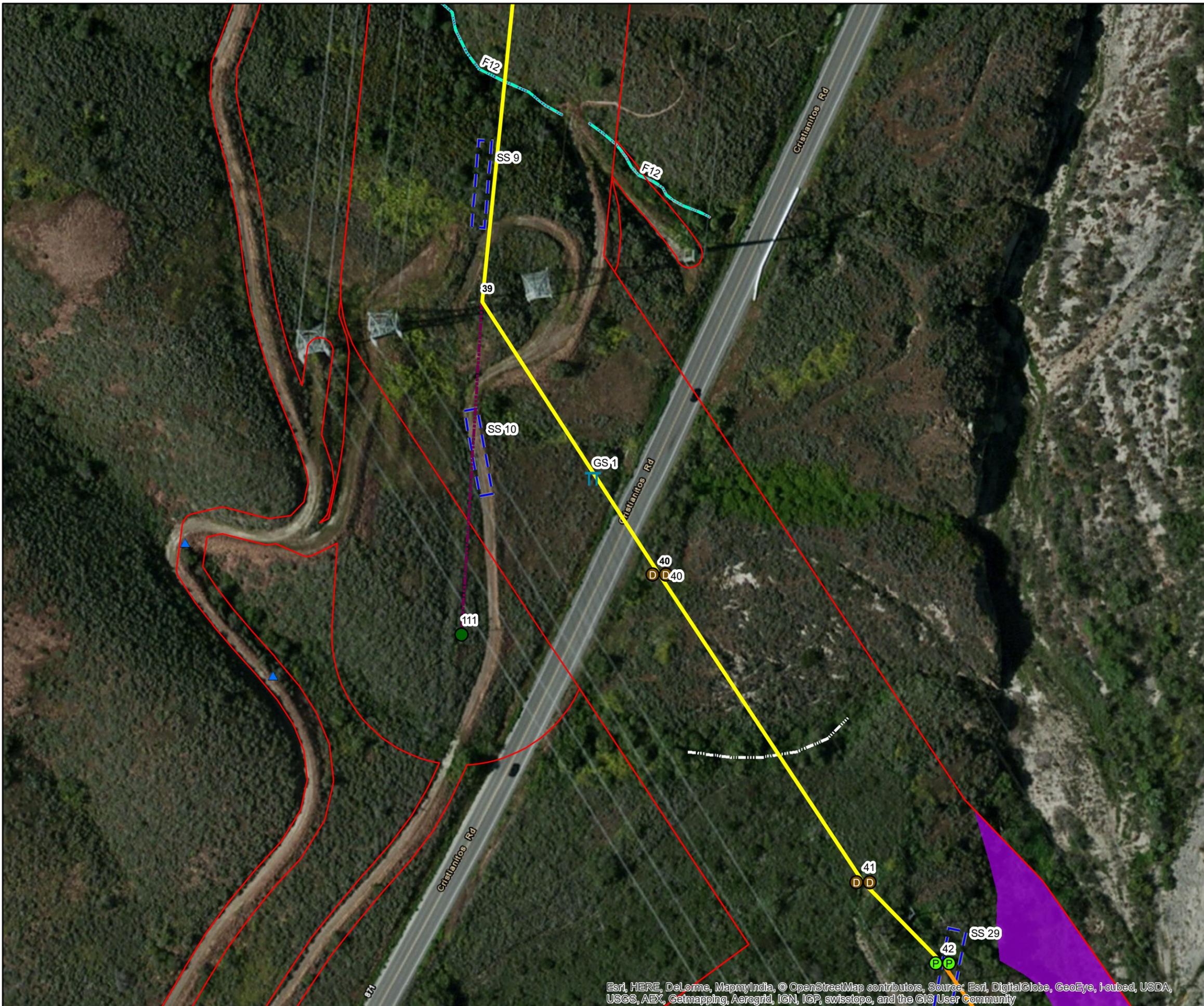
- Direct Bury Multiple
- Pier Foundation Multiple
- PR
- Guard Structure
- Overhead Route
- Proposed Route
- Stringing Site
- Project Study
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB
- CDFW Riparian



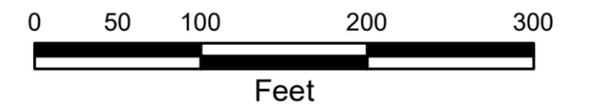
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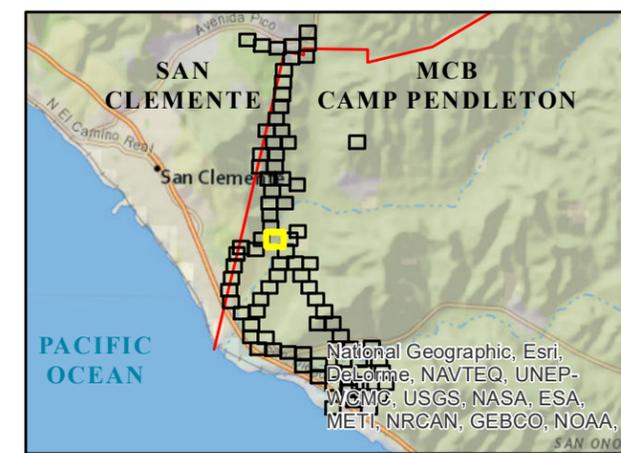
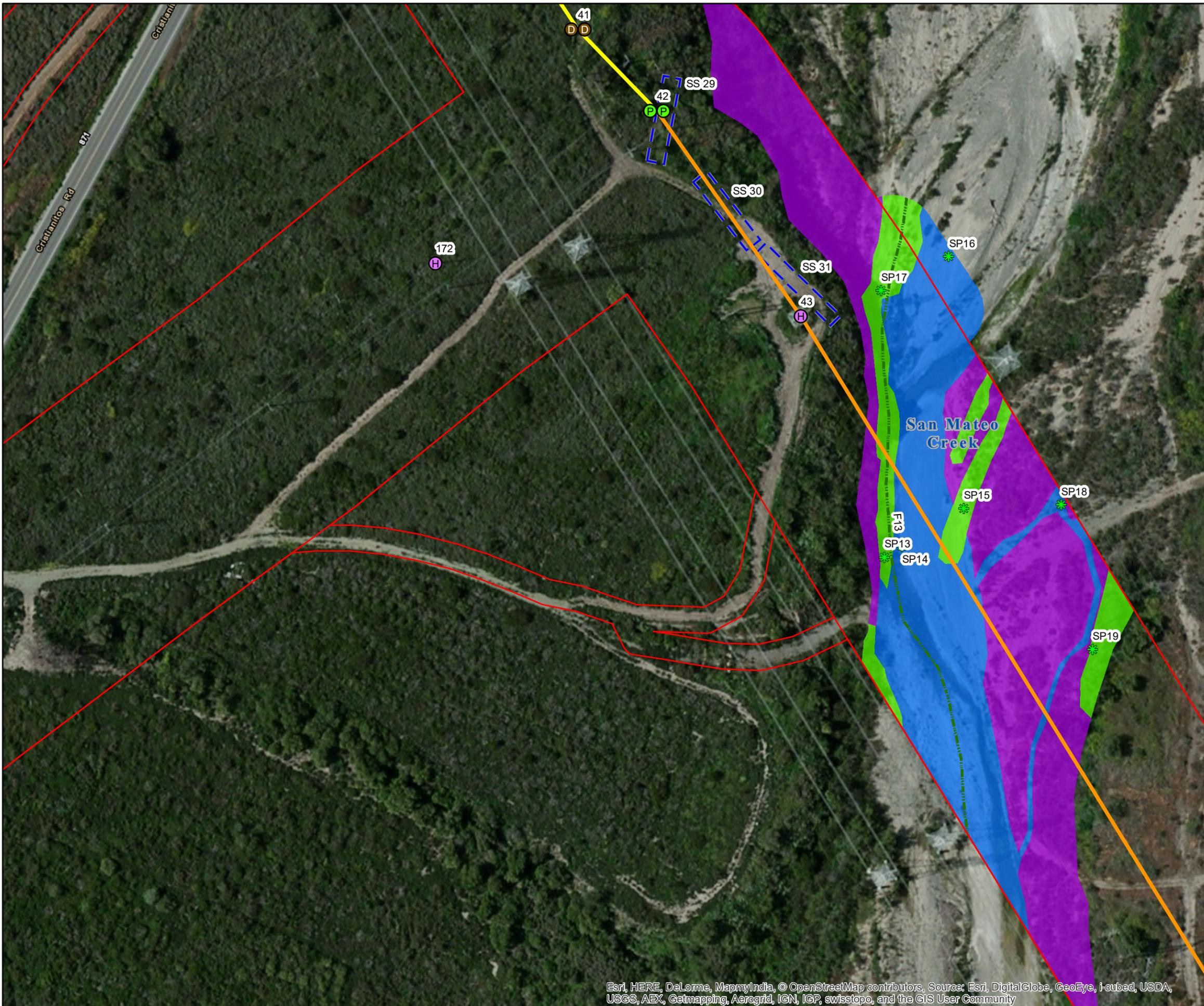
25240 TL695/6971
 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Legend	
Project Utility Poles	
DD	Direct Bury Multiple
H	Overhead Work
PP	Pier Foundation Multiple
	Overhead Route
	Proposed Route
	Stringing Site
	Project Study
Delineation Results	
	Sample Points
Delineated Feature	
	ACOE
	Wetland/CDFW/RWQCB
Jurisdictional Wetlands and Waters	
	ACOE Wetland/RWQCB/CDFW
	ACOE Waters/RWQCB/CDFW
	CDFW Riparian



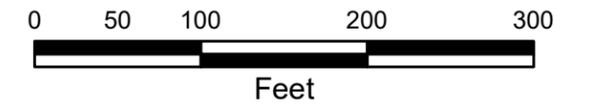
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 Datum: North American 1983



25240 TL695/6971
Reconductor Project
Aquatic Delineation Maps

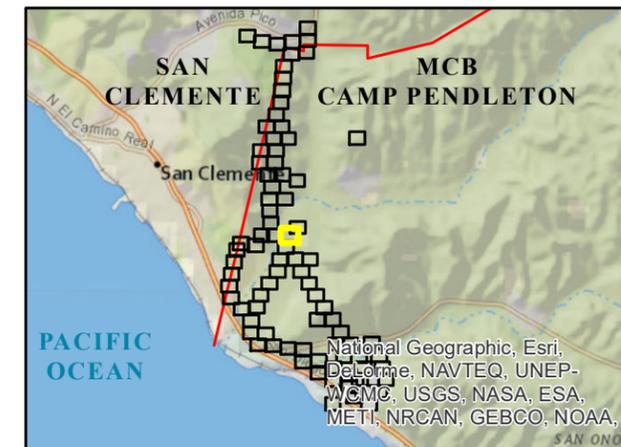
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1 inch = 110 feet @11" x 17"



Legend

Staging	Delineation Results
Proposed Route	Sample Points
Project Study	Jurisdictional Wetlands and Waters
	ACOE Wetland/RWQCB/CDFW
	ACOE Waters/RWQCB/CDFW
	CDFW Riparian



Created By Pangea Biological, June 2016
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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Reconductor Project
Aquatic Delineation Maps

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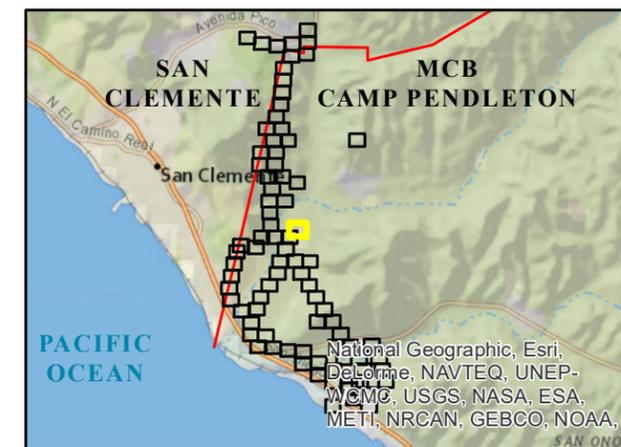
1 inch = 110 feet @11" x 17"



Feet

Legend

- Staging Area
- Project Study
- Culvert/Stom Drain
- Delineated Feature
- Swale (Non-jurisdictional)



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Datum: North American 1983



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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

Overhead Work

PR

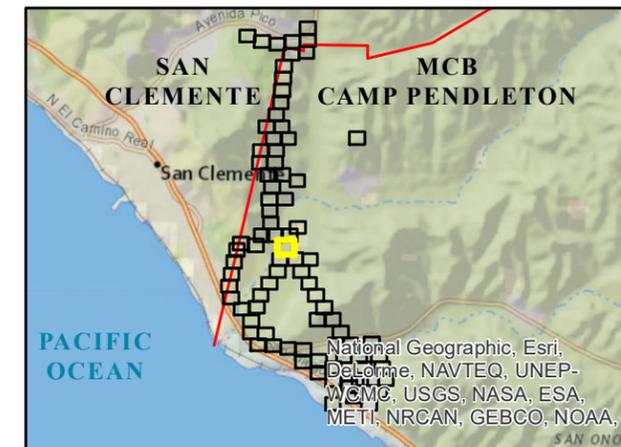
Proposed Route

Project Study

Jurisdictional Wetlands and Waters

ACOE Waters/RWQCB/CDFW

CDFW Riparian



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

- Direct Bury
- Overhead Work
- PR

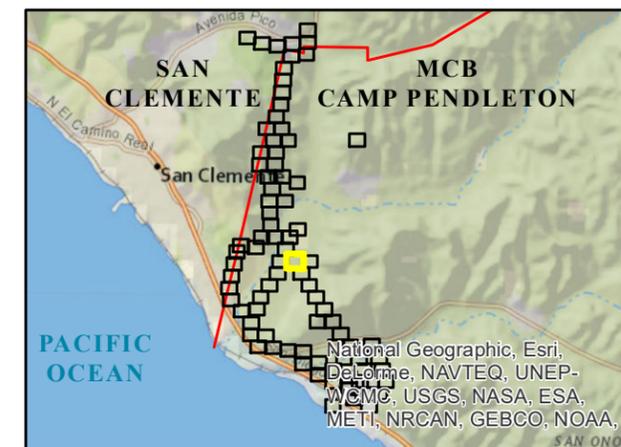
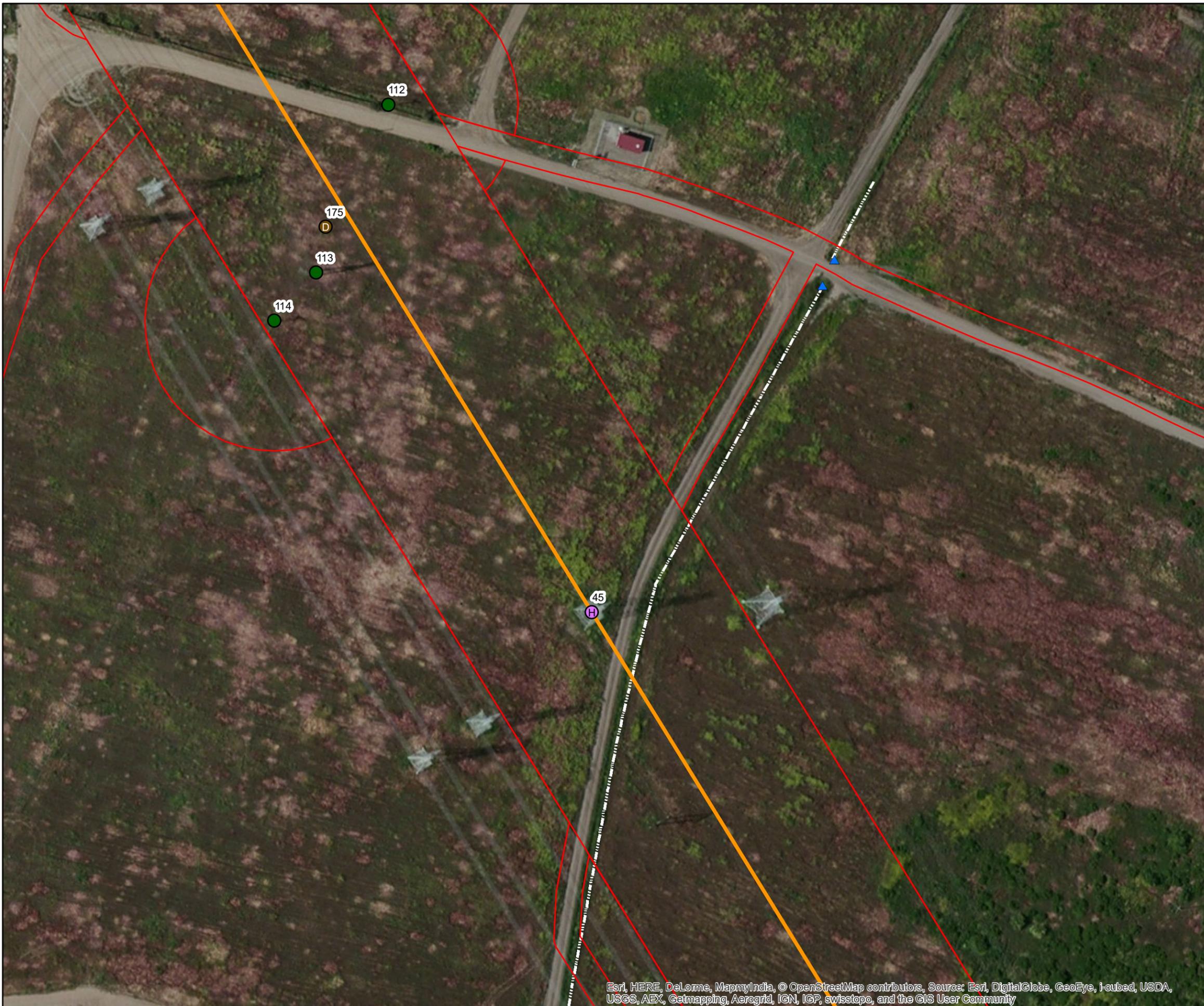
Proposed Route

Project Study

Culvert/Storm Drain

Delineated Feature

Swale (Non-jurisdictional)



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Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

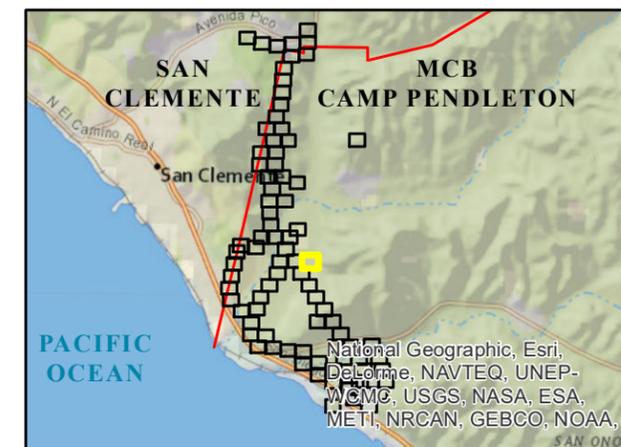
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Feet

Legend

 Project Study



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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

0 50 100 200 300



Feet

Legend

Project Utility Poles

Overhead Work

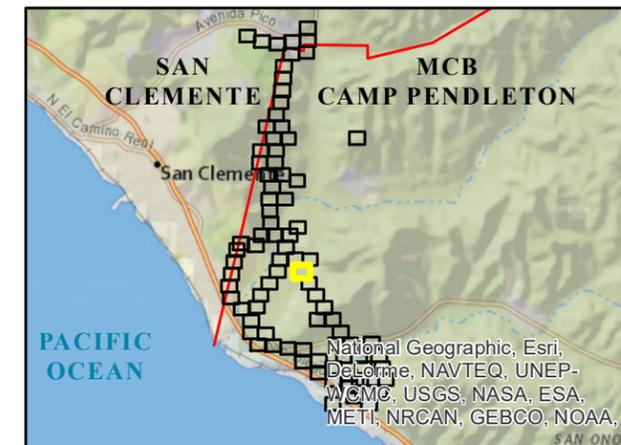
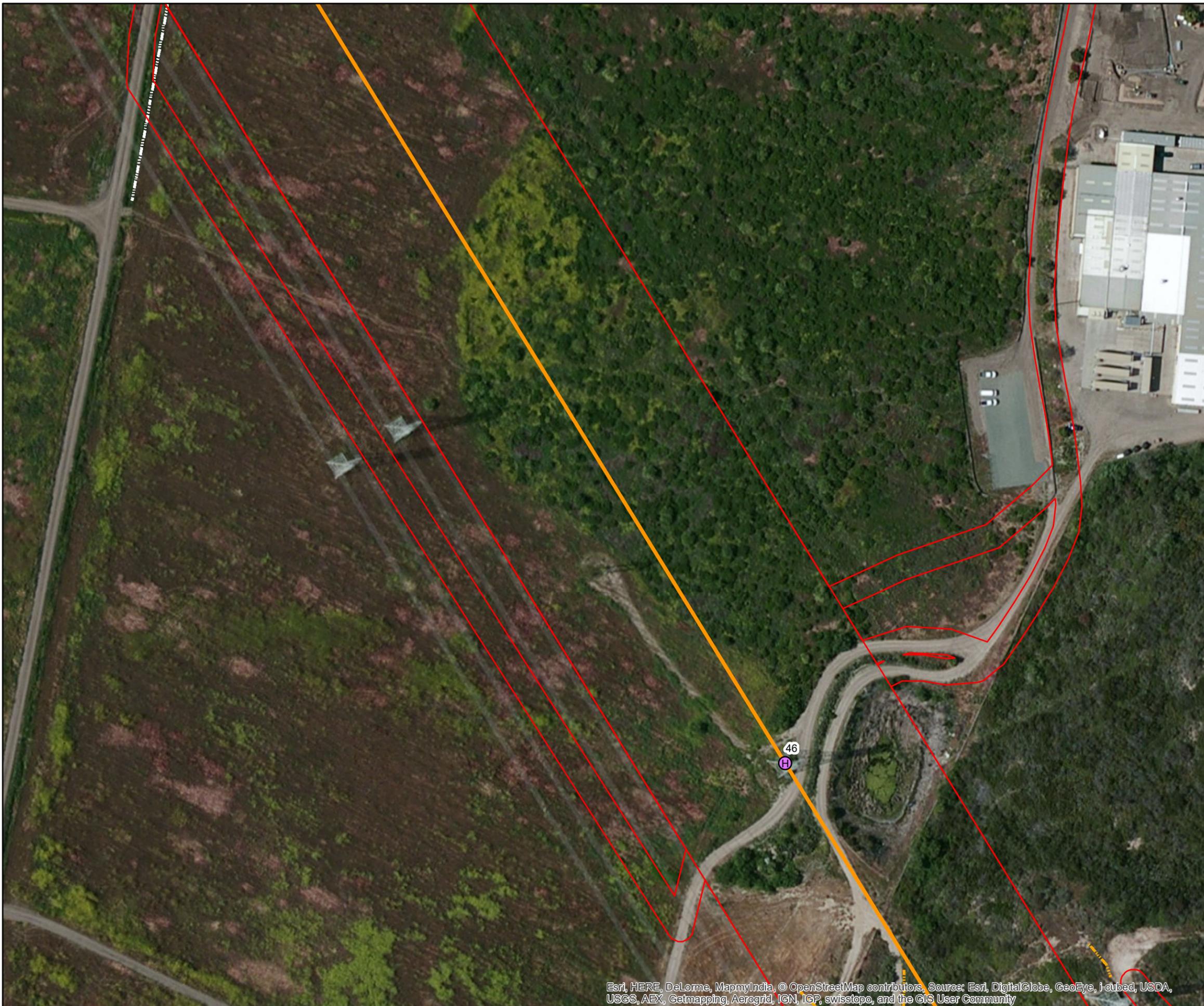
Proposed Route

Project Study Area

Delineated Feature

Erosional Feature (Non-jurisdictional)

Swale (Non-jurisdictional)



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 110 feet @11" x 17"

0 50 100 200 300



Feet

Legend

Project Utility Poles

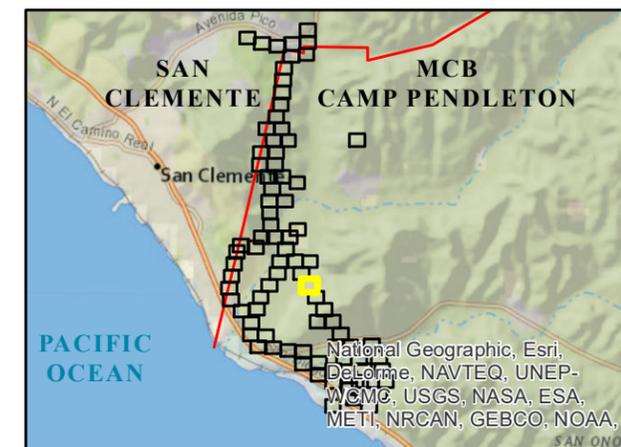
- Overhead Work
- Proposed Route
- Project Study

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- Erosional Feature (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

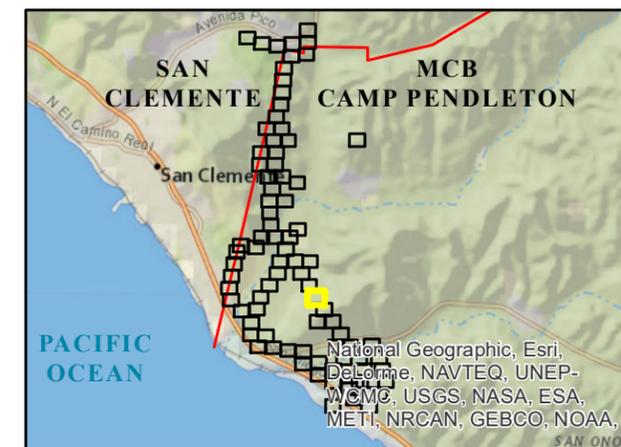
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Project Utility Poles

- Overhead Work
- Proposed Route
- Project Study

Delineated Feature

- Erosional Feature (Non-jurisdictional)



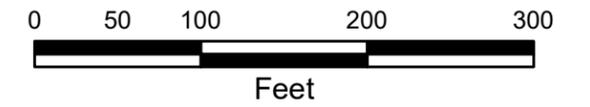
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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



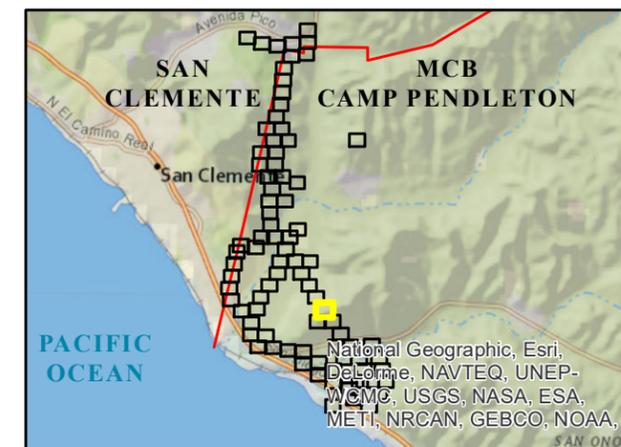
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Project Utility Poles

- Overhead Work
- Proposed Route
- Project Study
- Culvert/Stom Drain

Delineated Feature

- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)



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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

0 50 100 200 300



Feet

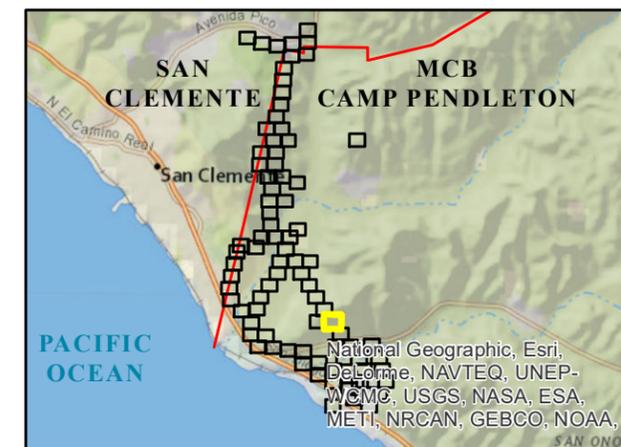
Legend

Project Utility Poles

- Overhead Work
- Proposed Route
- Work/Turnaround/Staging Area
- Project Study
- Culvert/Stom Drain

Delineated Feature

- Erosional Feature (Non-jurisdictional)
- Swale (Non-jurisdictional)



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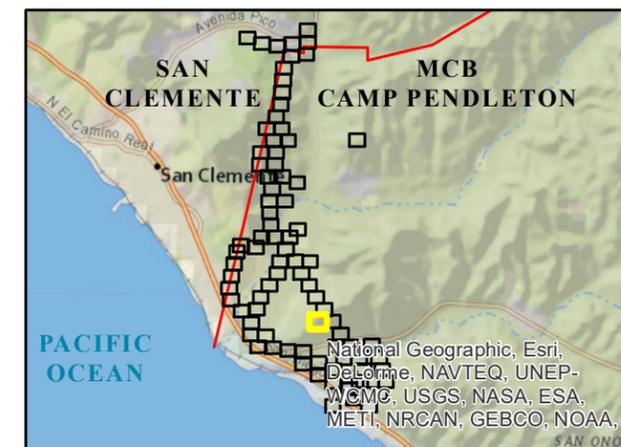
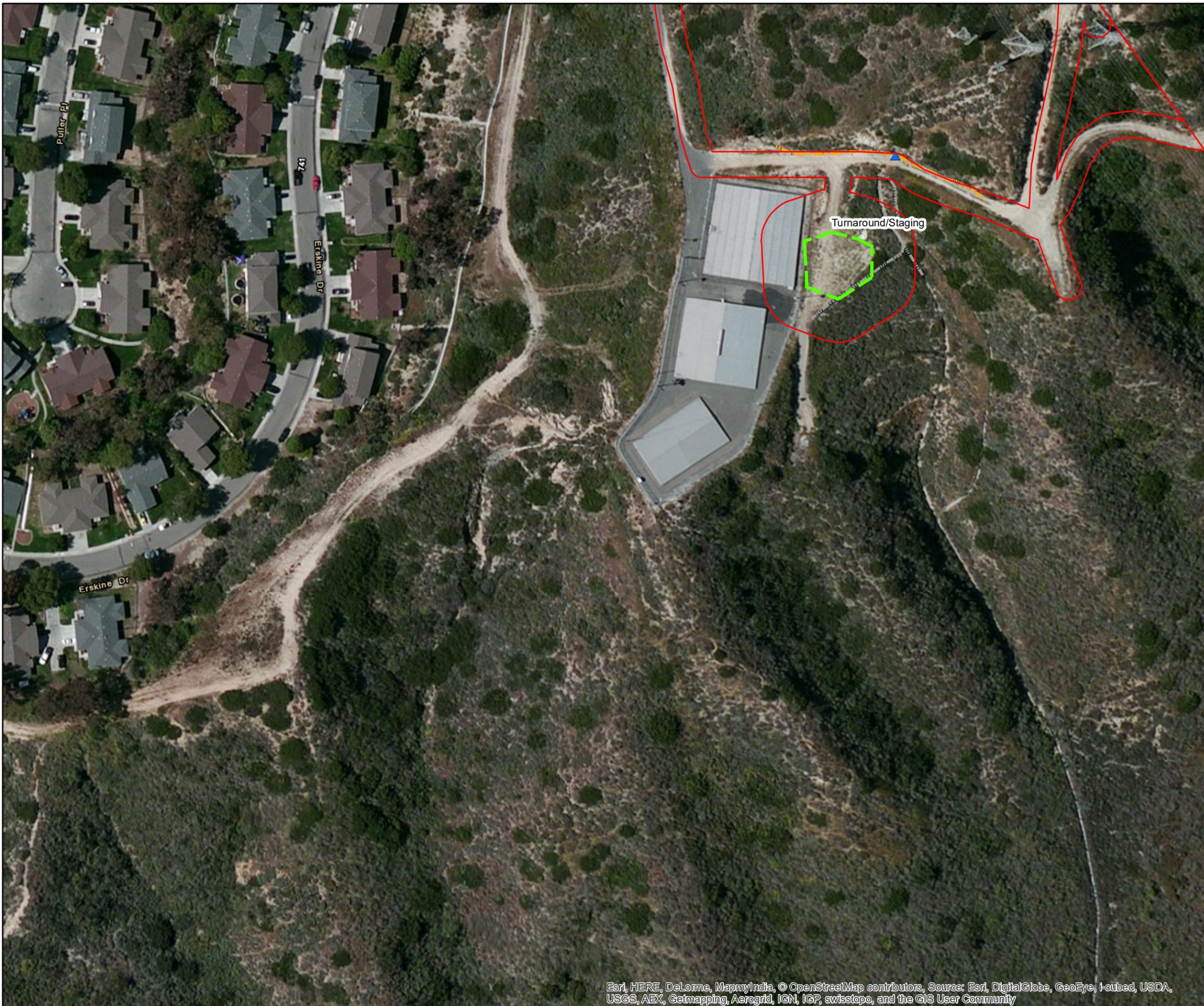
1 inch = 110 feet @11" x 17"



Feet

Legend

-  Work/Turnaround/
Staging Area
-  Project Study
-  Culvert/Stom Drain
- Delineated Feature**
-  Concrete V-
Ditch/Channel (Non-
jurisdictional)
-  Erosional Feature (Non-
jurisdictional)



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 Projection: Lambert Conformal Conic
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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

0 50 100 200 300

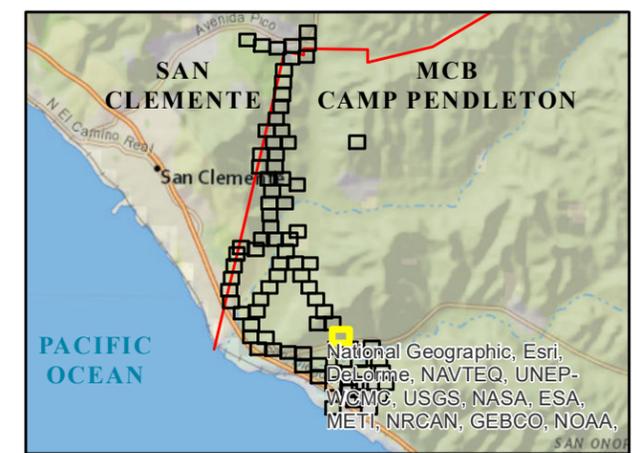


Feet

Legend

Project Utility Poles

-  Overhead Work
-  Guard Structure
-  Proposed Route
-  Project Study



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Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

Overhead Work

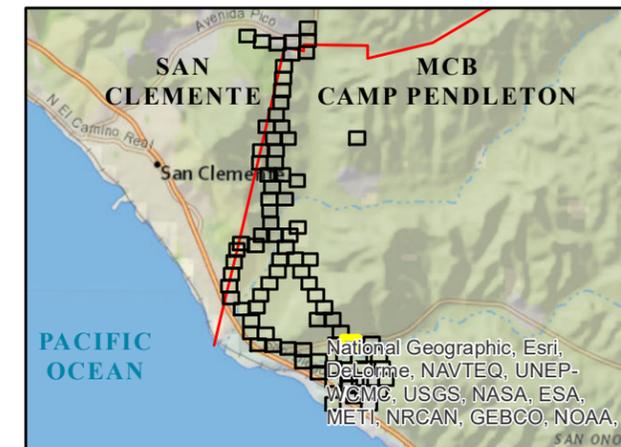
Guard Structure

Proposed Route

Project Study Area

Delineated Feature

Swale (Non-jurisdictional)



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Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

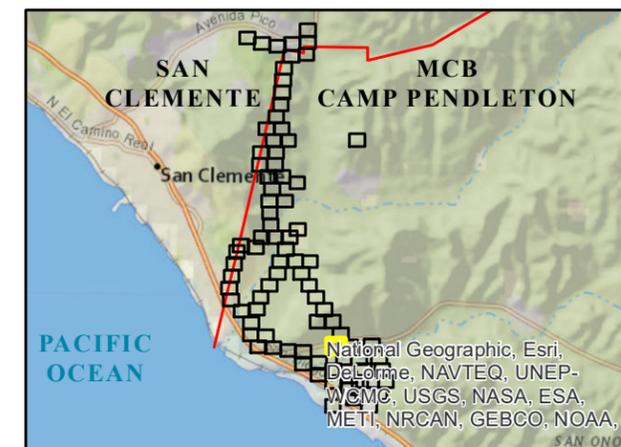
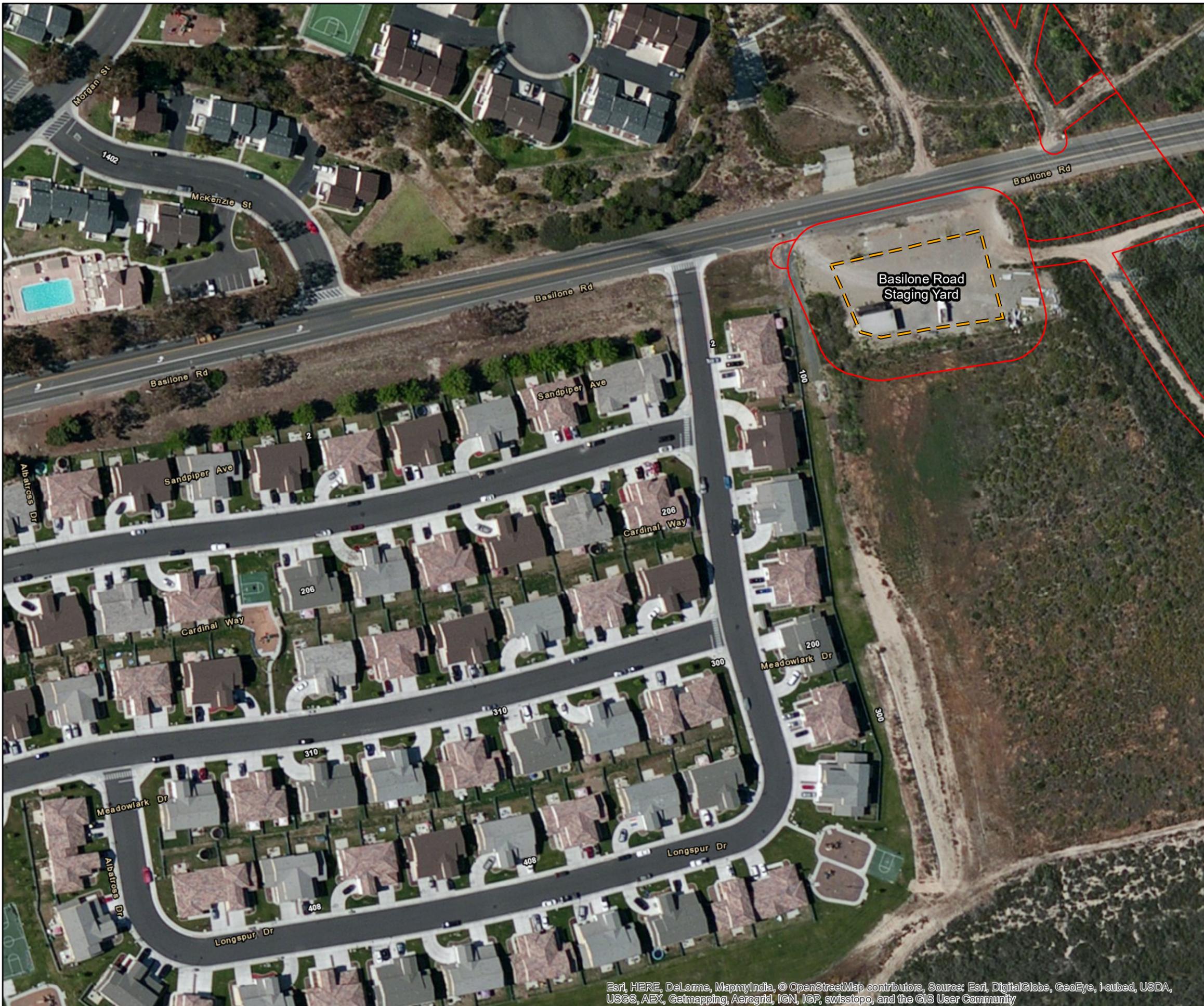
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Feet

Legend

-  Staging Area
-  Project Study



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 Datum: North American 1983



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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

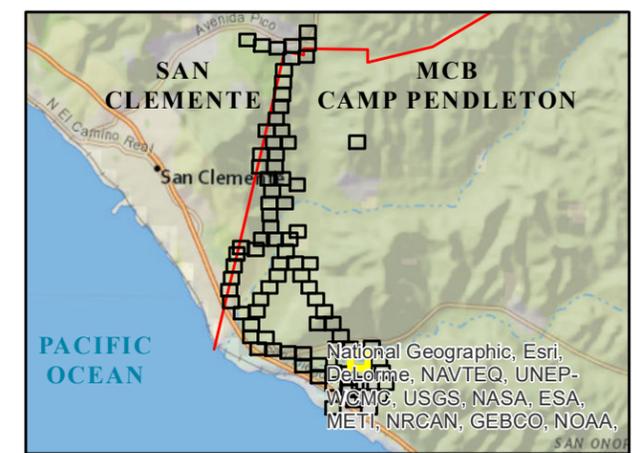
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Feet

Legend

Project Utility Poles		Delineation Results	
	Overhead Work		Sample Points
	Proposed Route	Delineated Feature	
	Project Study Area		ACOE Waters/CDFW/RWQCB
		Jurisdictional Wetlands and Waters	
			ACOE Waters/RWQCB/CDFW
			CDFW Streambed/RWQCB
			CDFW Riparian



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 Aquatic Delineation Maps

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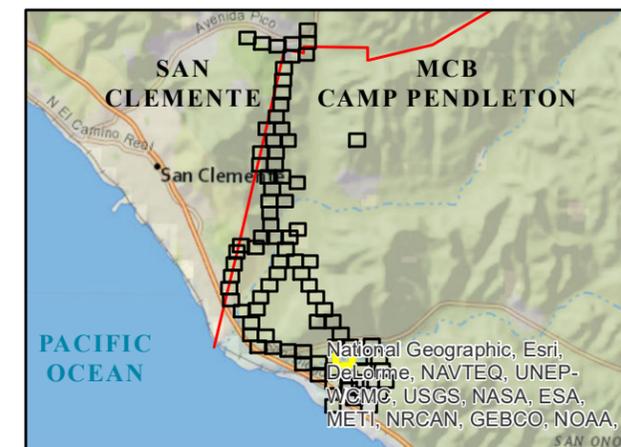
1 inch = 110 feet @11" x 17"



Feet

Legend

- Project Study Area
- Delineated Feature**
- ACOE Waters/CDFW/RWQCB
- Jurisdictional Wetlands and Waters**
- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB
- CDFW Riparian



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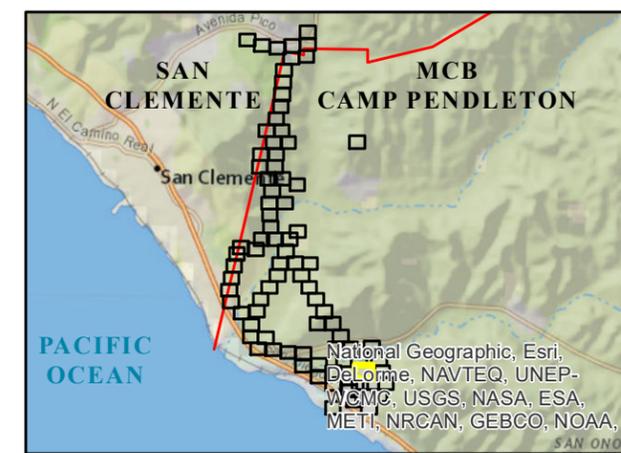
25240 TL695/6971
 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Legend	
Project Utility Poles	Delineation Results
Ⓢ Cable Pole	🌿 Sample Points
Ⓛ Direct Bury	▲ Culvert/Storm Drain
Ⓜ Overhead Work	Delineated Feature
Ⓟ Pier Foundation	👉 ACOE Waters/CDFW/RWQCB
▨ Proposed 69kV Underground Vault	👉 ACOE Wetland/CDFW/RWQCB
▭ Staging	▭ Concrete V-Ditch/Channel (Non-jurisdictional)
👉 Overhead Route	Jurisdictional Wetlands and Waters
👉 Proposed Route	🟩 ACOE Wetland/RWQCB/CDFW
👉 Underground Route	🟦 ACOE Waters/RWQCB/CDFW
▭ Stringing Site	🟨 ACOE Wetland/RWQCB
▭ Project Study	🟪 CDFW Streambed/RWQCB



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 Projection: Lambert Conformal Conic
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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

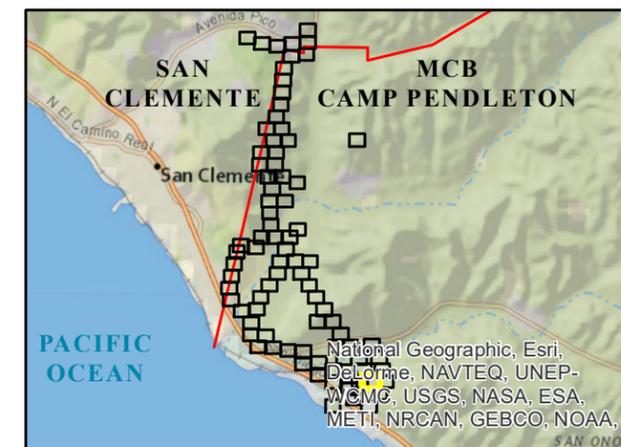
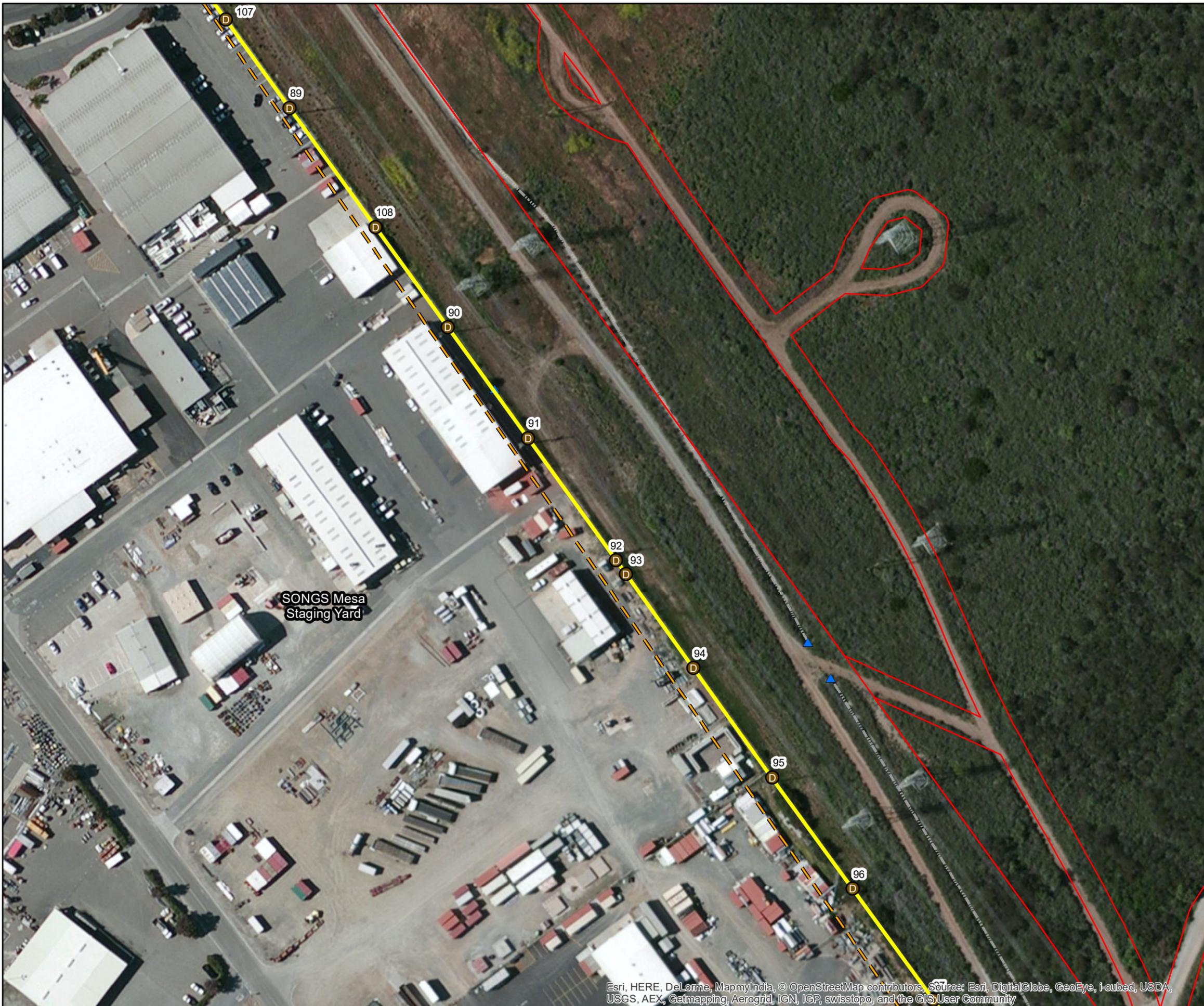
Legend

Project Utility Poles

- Direct Bury
- Staging Area
- Overhead Route
- Project Study Area
- Culvert/Stom Drain

Delineated Feature

- Concrete V-Ditch/Channel (Non-jurisdictional)



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 Datum: North American 1983



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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

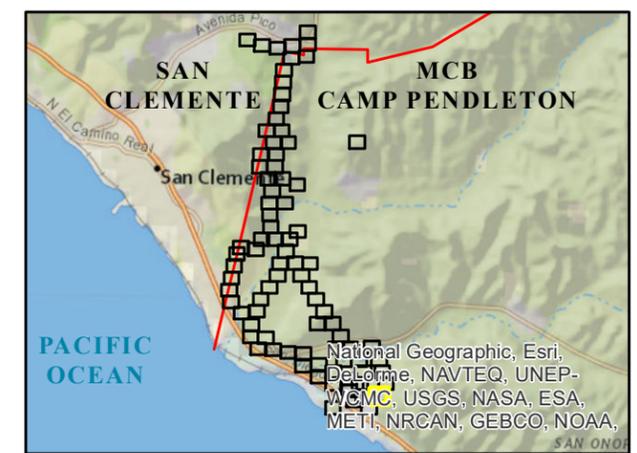
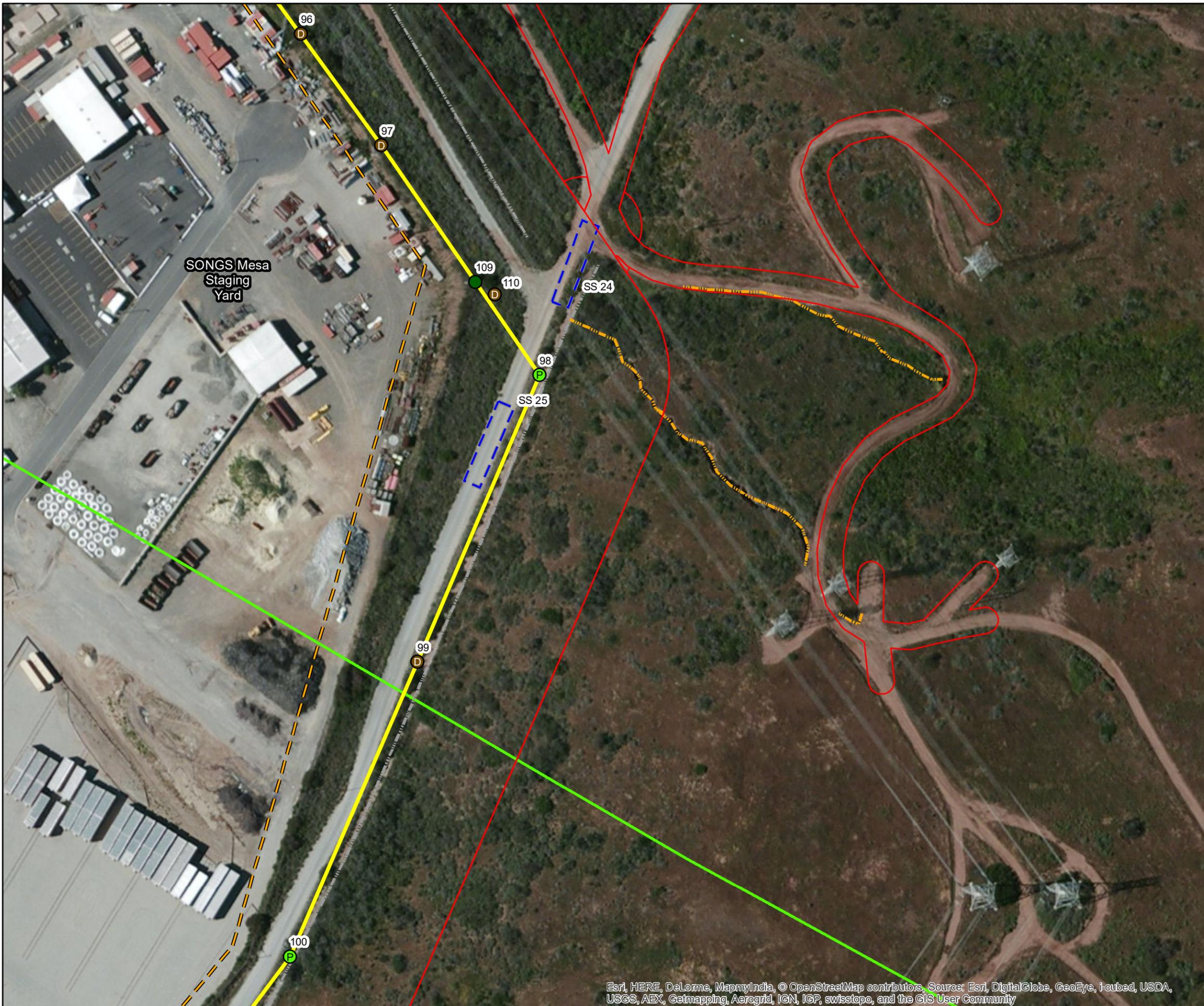
Project Utility Poles

-  Direct Bury
-  Pier Foundation
-  PR

-  Staging Area
-  Overhead Route
-  Stringing Site
-  Project Study

Delineated Feature

-  Concrete V-Ditch/Channel (Non-jurisdictional)
-  Erosional Feature (Non-jurisdictional)



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 Data Source: SDG&E
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Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

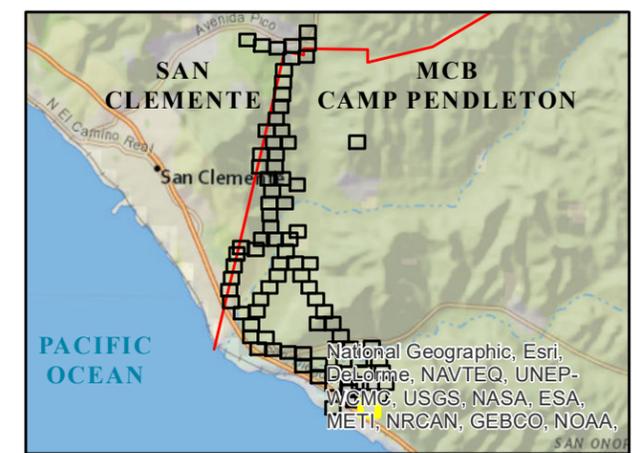
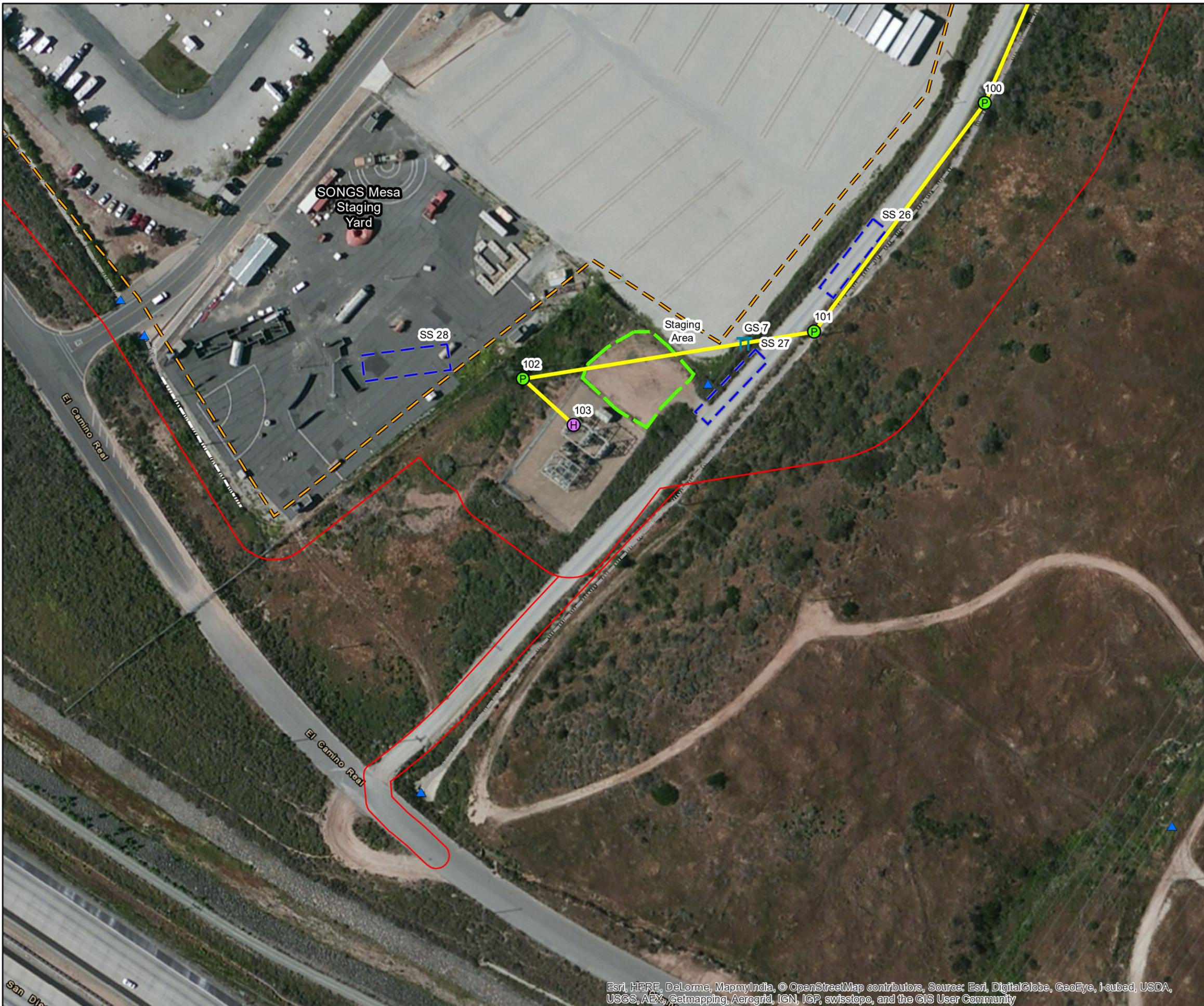
Legend

Project Utility Poles

-  Overhead Work
-  Pier Foundation
-  Guard Structure
-  Staging Area
-  Overhead Route
-  Work/Turnaround/Staging Area
-  Stringing Site
-  Project Study
-  Culvert/Storm Drain

Delineated Feature

-  Concrete V-Ditch/Channel (Non-jurisdictional)
-  Swale (Non-jurisdictional)



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Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

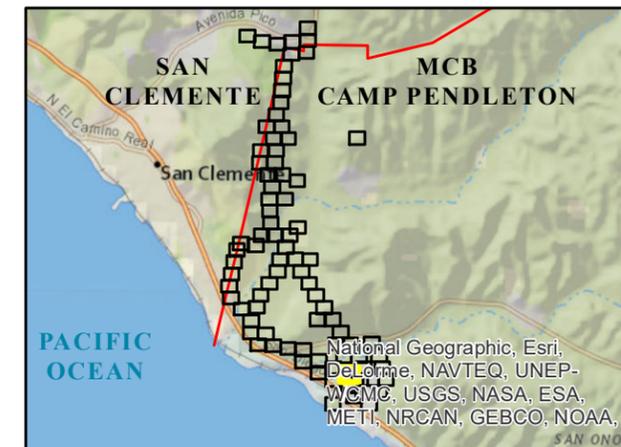
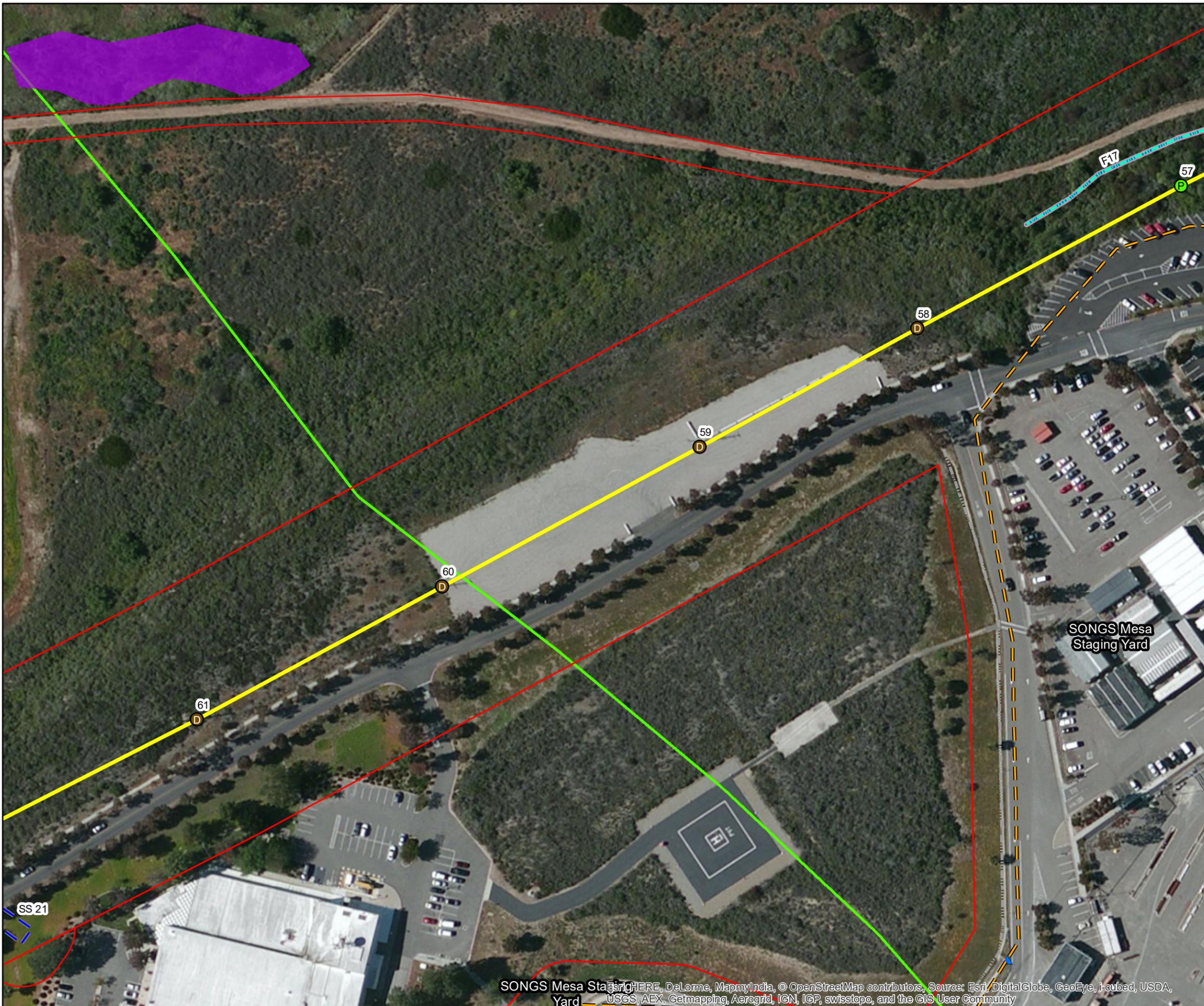
- Direct Bury
- Pier Foundation
- Staging Area
- Overhead Route
- Stringing Site
- Project Study
- Culvert/Stom Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB
- CDFW Riparian



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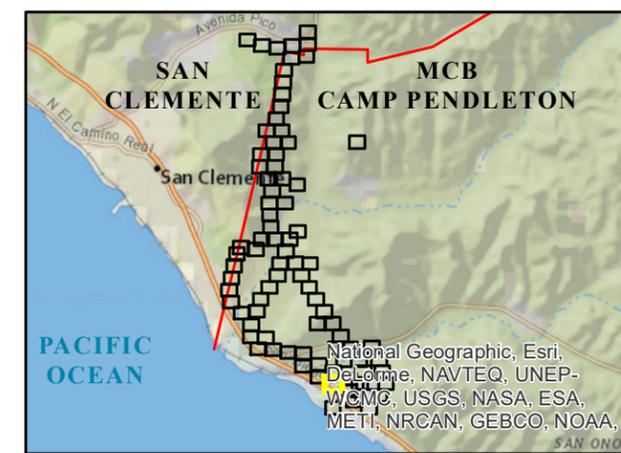
25240 TL695/6971
Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Project Utility Poles		Delineation Results	
	Direct Bury		Sample Points
	Overhead Work		Culvert/Storm Drain
	Pier Foundation	Delineated Feature	
	Remove From Service		ACOE Wetland/CDFW/RWQCB
	Overhead Route		Concrete V-Ditch/Channel (Non-jurisdictional)
	Work/Turnaround/Staging Area	Jurisdictional Wetlands and Waters	
	Stringing Site		ACOE Wetland/RWQCB/CDFW
	Project Study Area		California Coastal Commission Wetland



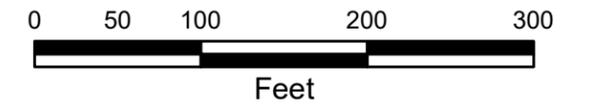
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 Reconductor Project
 Aquatic Delineation Maps

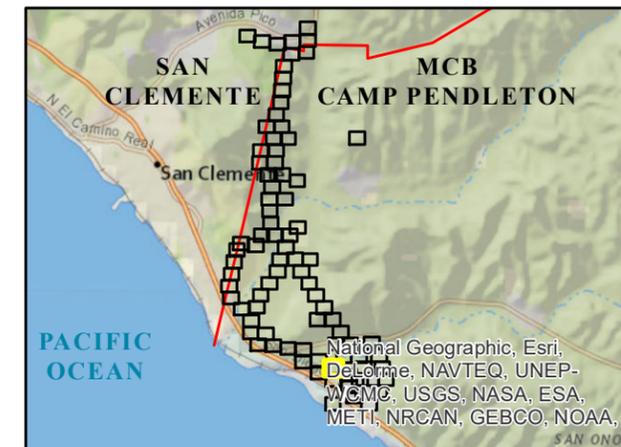
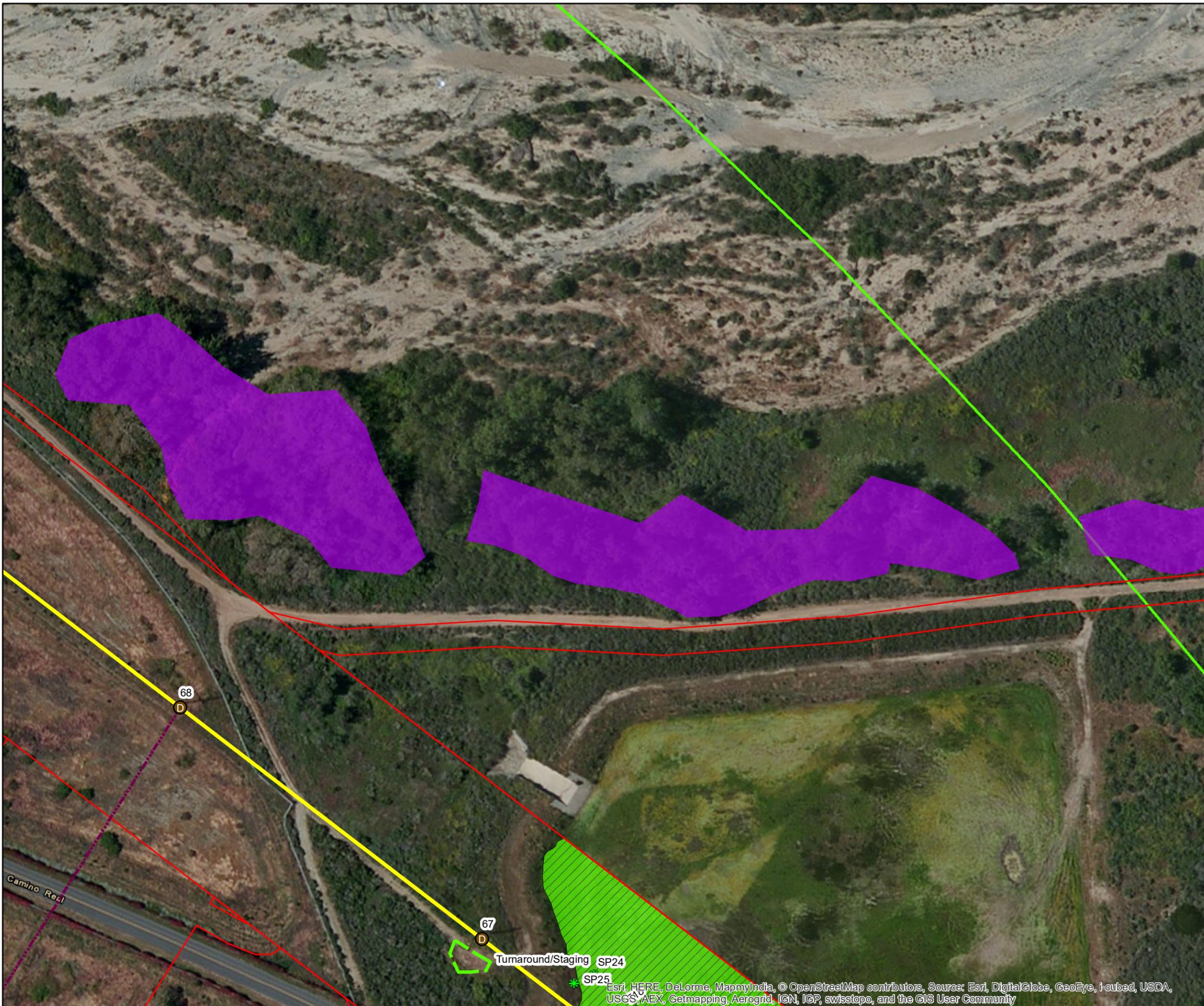
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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles		Delineation Results	
	Direct Bury		Sample Points
	PR	Delineated Feature	
	Overhead Route		ACOE
	Work/Turnaround/ Staging Area		Wetland/CDFW/RWQCB
	Project Study Area	Jurisdictional Wetlands and Waters	
			ACOE Wetland/RWQCB/CDFW
			CDFW Riparian
			California Coastal Commission Wetland



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 Datum: North American 1983



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Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

Direct Bury

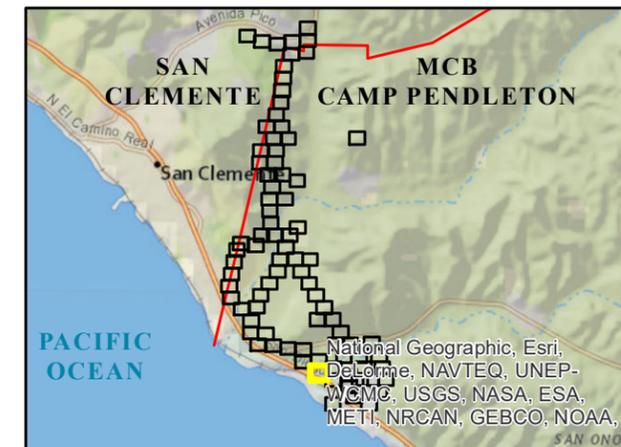
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Overhead Route

Project Study Area

Jurisdictional Wetlands and Waters

CDFW Riparian



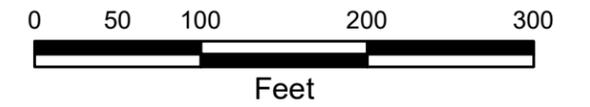
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 Reconductor Project
 Aquatic Delineation Maps

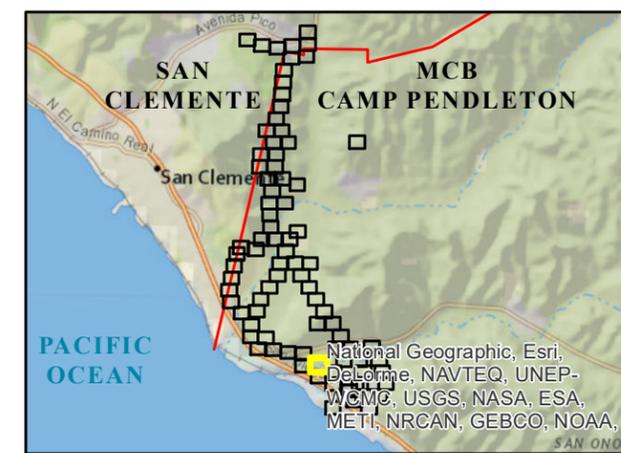
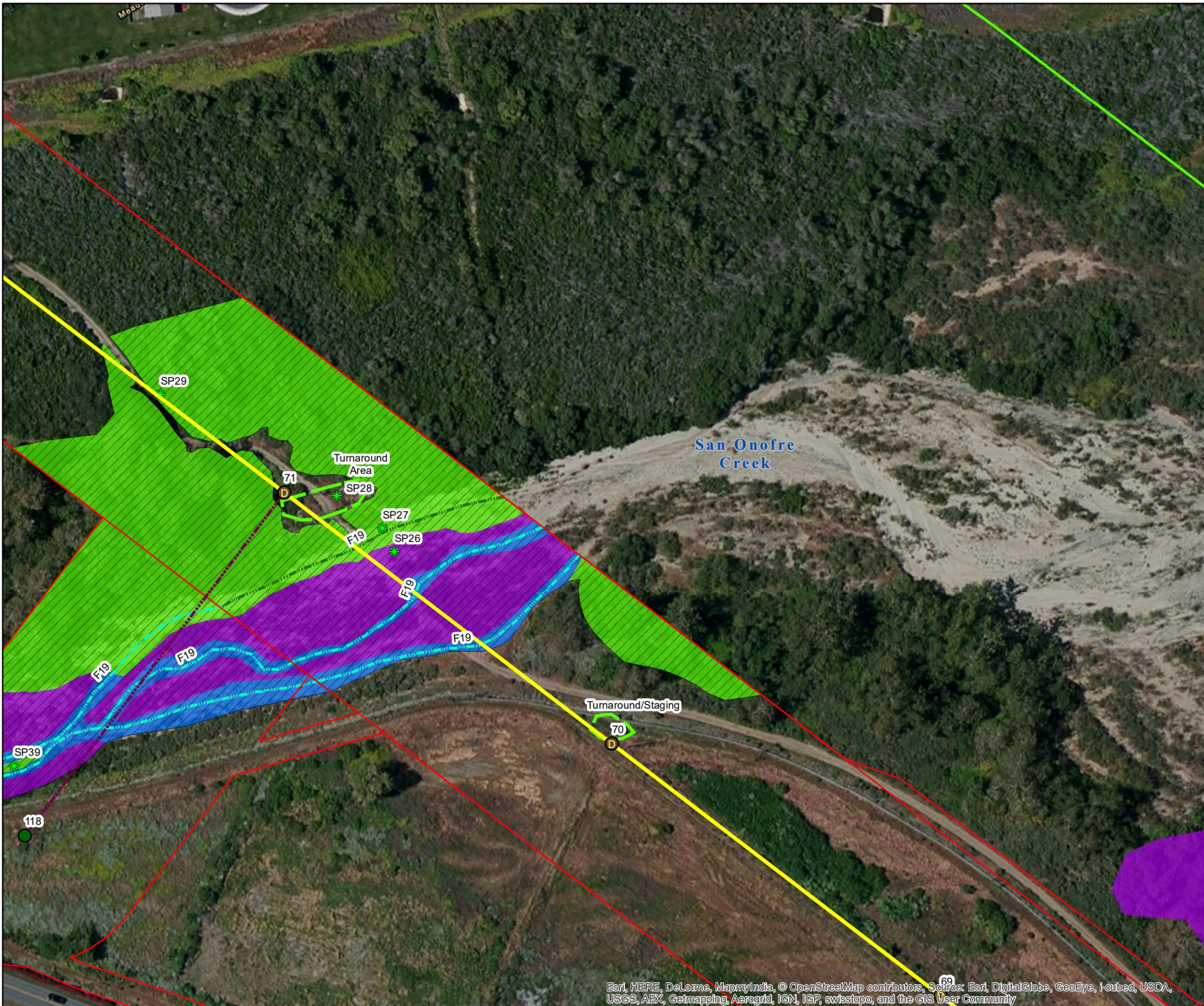
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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles		Delineation Results	
	Direct Bury		Sample Points
	PR	Delineated Feature	
	Overhead Route		ACOE Waters/CDFW/RWQCB
	Work/Turnaround/Staging Area		ACOE Wetland/CDFW/RWQCB
	Project Study Area	Jurisdictional Wetlands and Waters	
			ACOE Wetland/RWQCB/CDFW
			ACOE Waters/RWQCB/CDFW
			CDFW Riparian
			California Coastal Commission Wetland



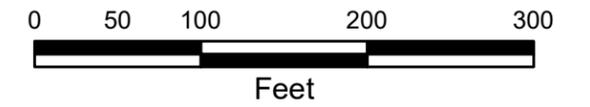
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Reconductor Project
Aquatic Delineation Maps

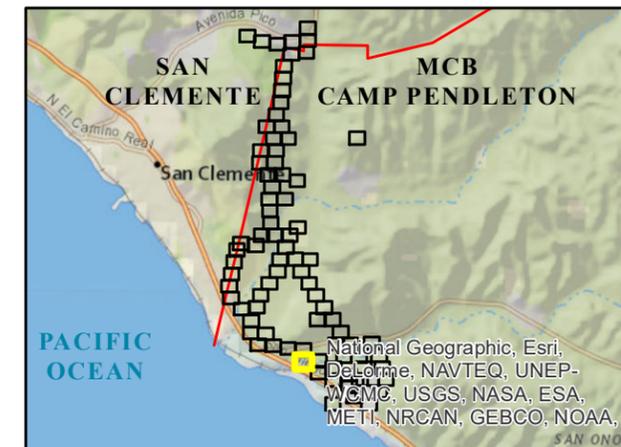
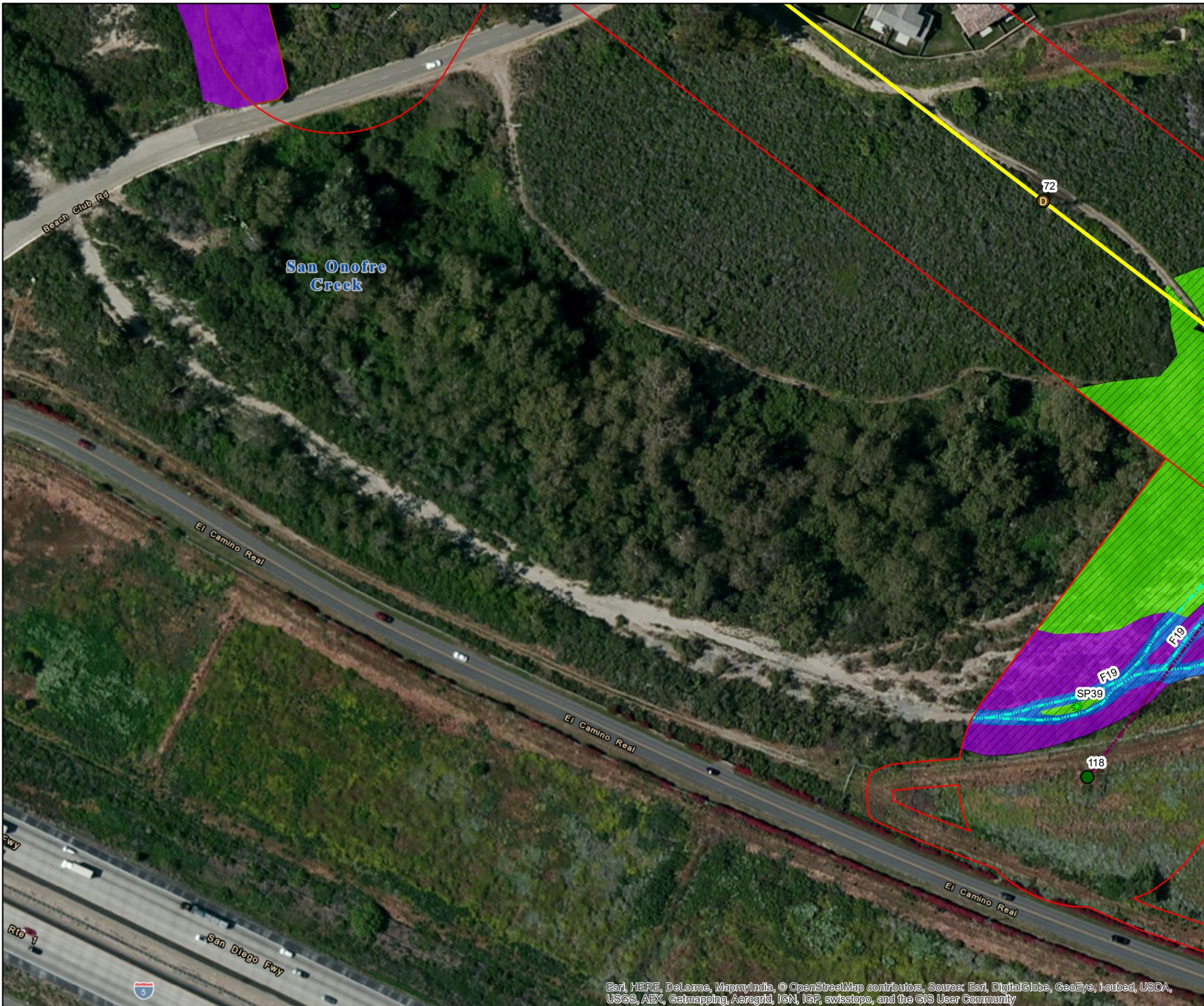
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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles		Delineation Results	
Direct Bury		Sample Points	
PR		Delineated Feature	
Overhead Route		ACOE Waters/CDFW/RWQCB	
Project Study Area		Concrete V-Ditch/Channel (Non-jurisdictional)	
		Jurisdictional Wetlands and Waters	
		ACOE Wetland/RWQCB/CDFW	
		ACOE Waters/RWQCB/CDFW	
		CDFW Riparian	
		California Coastal Commission Wetland	



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Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

0 50 100 200 300



Feet

Legend

Project Utility Poles

- Direct Bury
- Pier Foundation
- PR
- Guard Structure

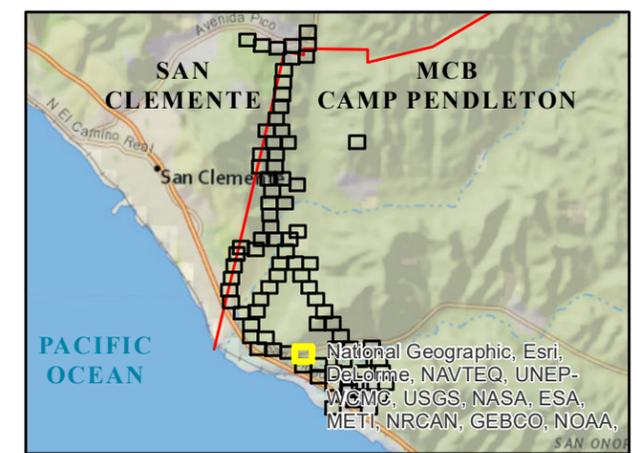
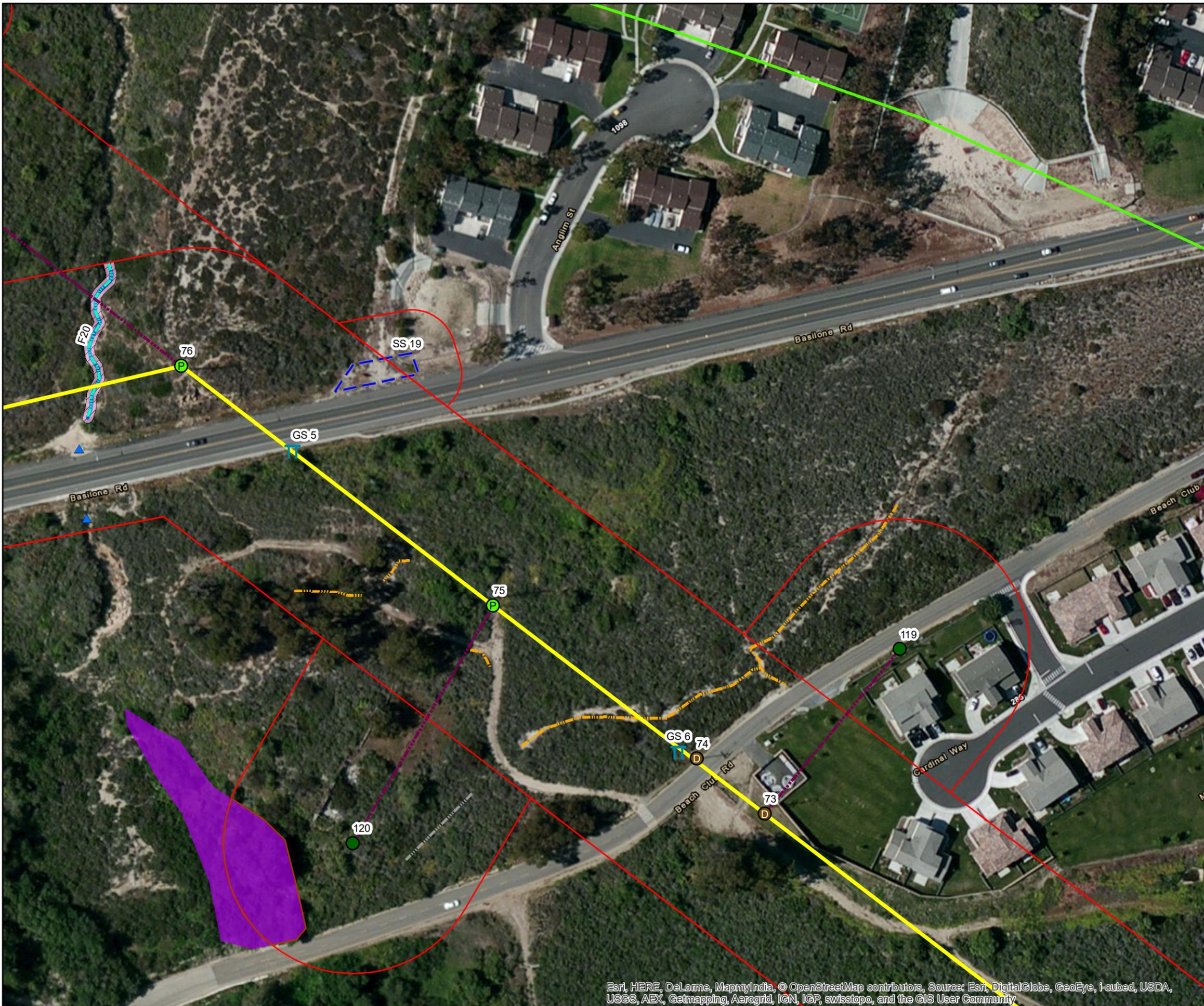
- Overhead Route
- Stringing Site
- Project Study Area
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB
- CDFW Riparian
- California Coastal Commission Wetland



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Datum: North American 1983



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Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

0 50 100 200 300

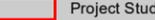


Feet

Legend

Project Utility Poles

-  Direct Bury
-  Pier Foundation
-  PR

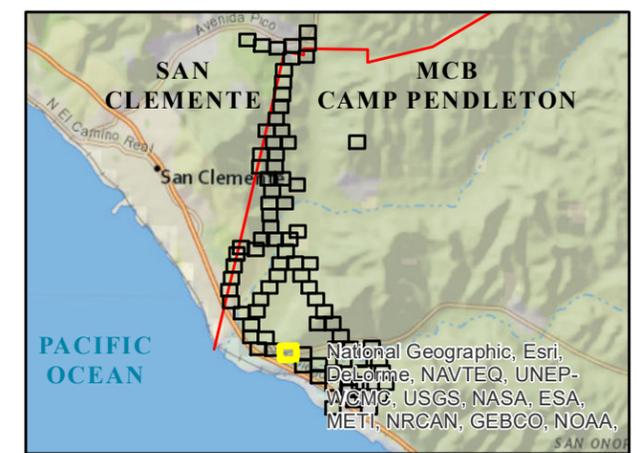
-  Overhead Route
-  Project Study
-  Culvert/Storm Drain

Delineated Feature

-  ACOE Waters/CDFW/RWQCB
-  Concrete V-Ditch/Channel (Non-jurisdictional)
-  Erosional Feature (Non-jurisdictional)

Jurisdictional Wetlands and Waters

-  ACOE Waters/RWQCB/CDFW
-  CDFW Streambed/RWQCB
-  CDFW Riparian
-  California Coastal Commission Wetland



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Projection: Lambert Conformal Conic
Datum: North American 1983



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Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

- Direct Bury
- Overhead Work
- Pier Foundation
- PR
- Guard Structure

- Overhead Route

- Work/Turnaround/Staging Area

- Stringing Site

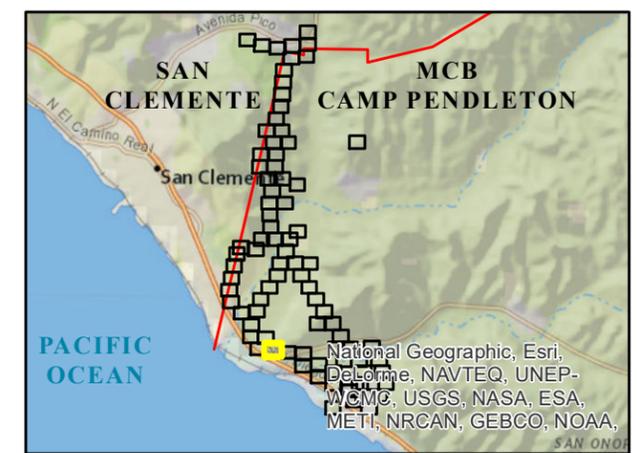
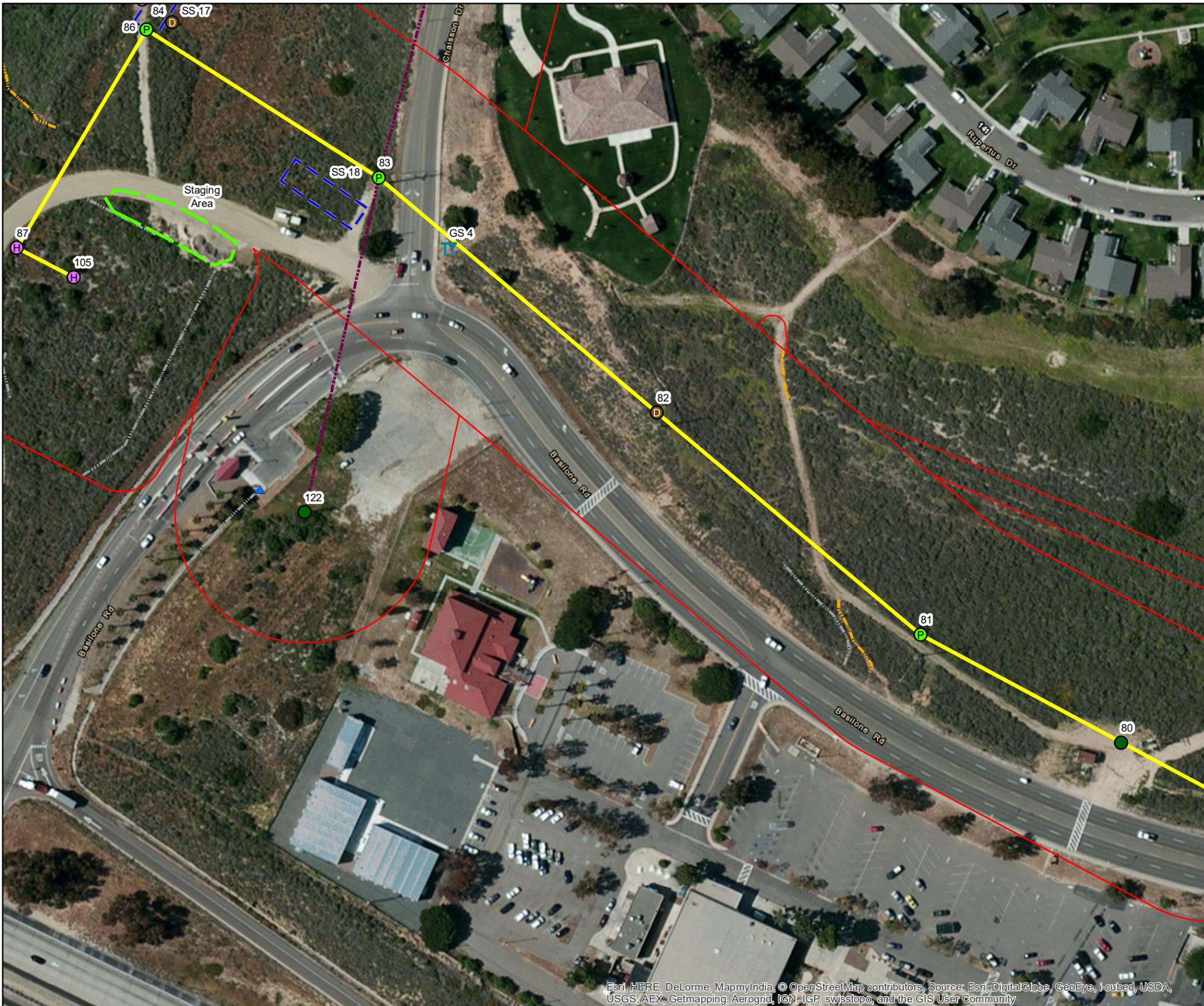
- Project Study

- Culvert/Storm Drain

Delineated Feature

- Concrete V-Ditch/Channel (Non-jurisdictional)

- Erosional Feature (Non-jurisdictional)



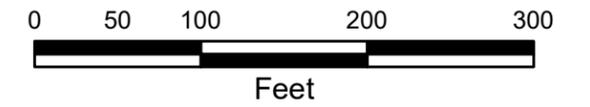
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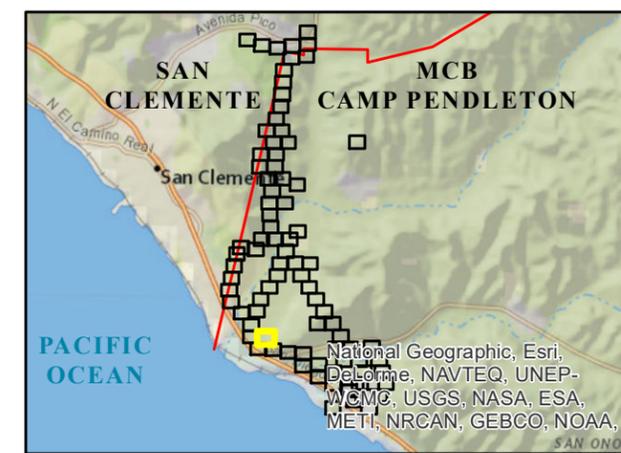
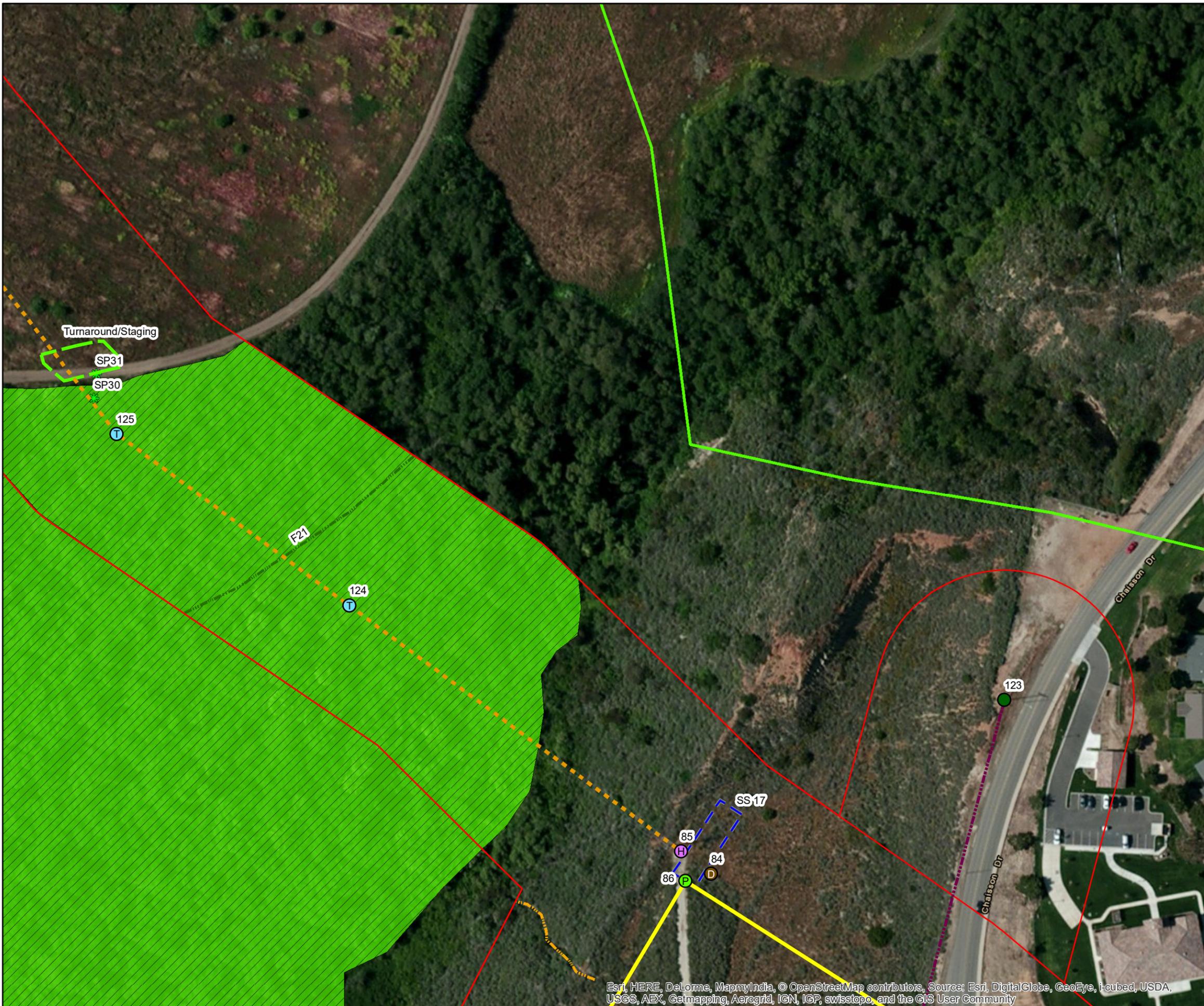
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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Project Utility Poles		Delineation Results	
	Direct Bury		Sample Points
	Overhead Work	Delineated Feature	
	Pier Foundation		ACOE Wetland/CDFW/RWQCB
	PR		Erosional Feature (Non-jurisdictional)
	Top Pole	Jurisdictional Wetlands and Waters	
	Overhead Route		ACOE Wetland/RWQCB/CDFW
	Overhead Removal		California Coastal Commission Wetland
	Work/Turnaround/Staging Area		
	Stringing Site		
	Project Study Area		



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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

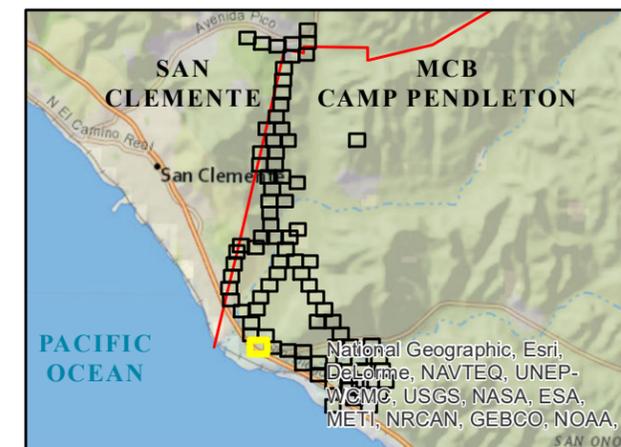
- Overhead Work
- Pier Foundation
- Overhead Route
- Overhead Removal
- Work/Turnaround/Staging Area
- Stringing Site
- Project Study Area
- Culvert/Storm Drain

Delineated Feature

- Concrete V-Ditch/Channel (Non-jurisdictional)
- Erosional Feature (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- California Coastal Commission Wetland



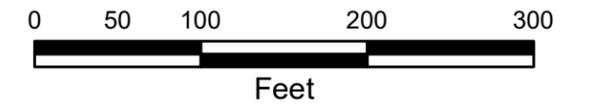
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Aquatic Delineation Maps

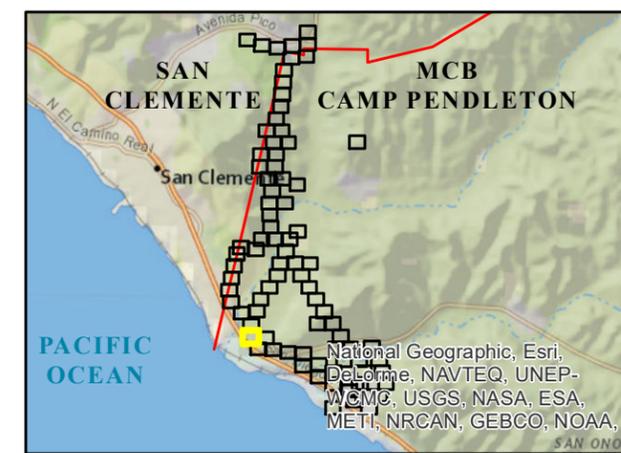
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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles		Delineation Results	
	Top Pole		Sample Points
	Staging		Culvert/Storm Drain
	Overhead Removal	Delineated Feature	
	Work/Turnaround/Staging Area		ACOE Waters/CDFW/RWQCB
	Project Study		ACOE Wetland/CDFW/RWQCB
		Jurisdictional Wetlands and Waters	
			ACOE Wetland/RWQCB/CDFW
			ACOE Waters/RWQCB/CDFW
			CDFW Streambed/RWQCB
			California Coastal Commission Wetland



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 Aquatic Delineation Maps

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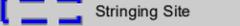
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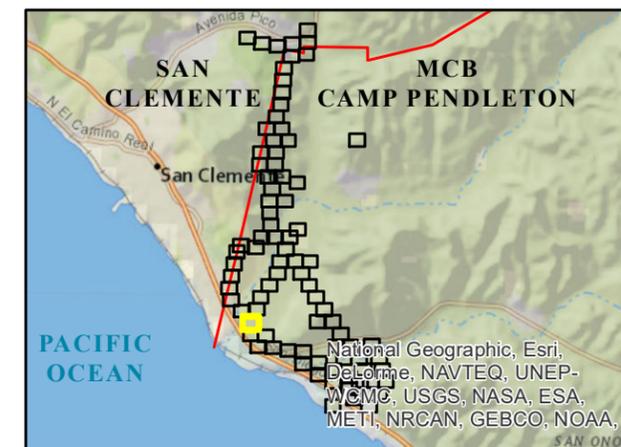
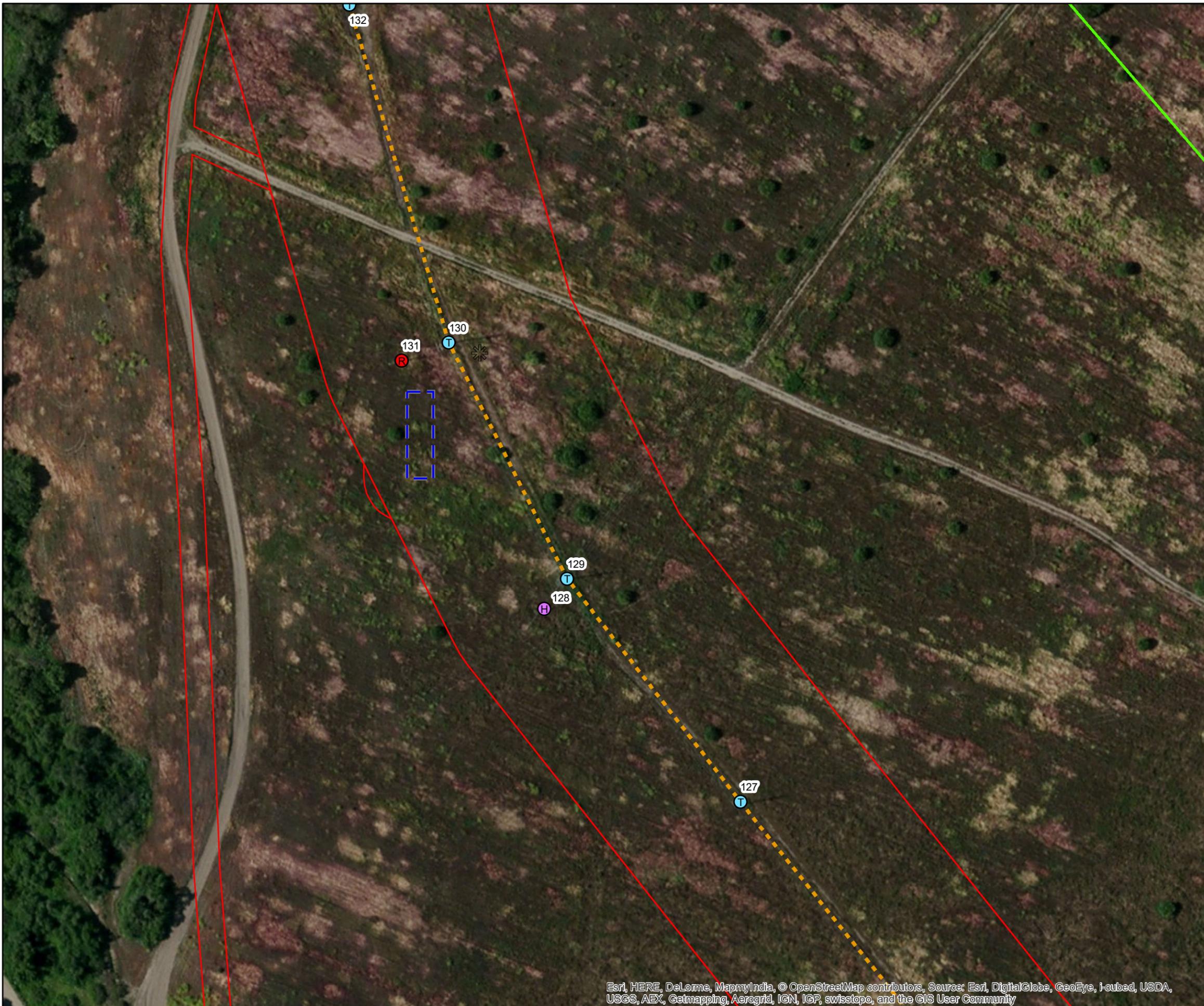


Feet

Legend

Project Utility Poles

-  Overhead Work
-  Remove From Service
-  Top Pole
-  Overhead Removal
-  Stringing Site
-  Project Study Area



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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Aquatic Delineation Maps

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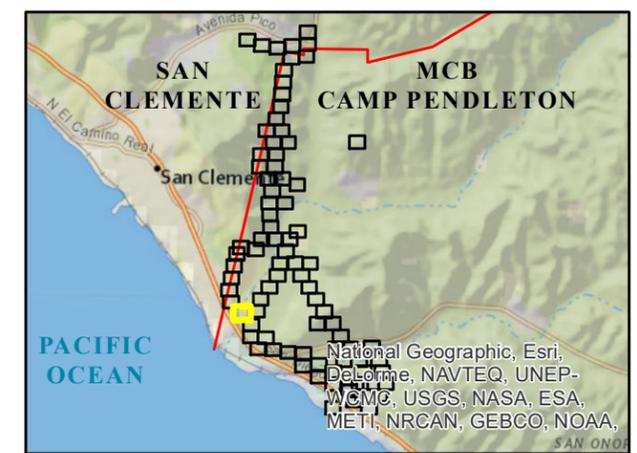
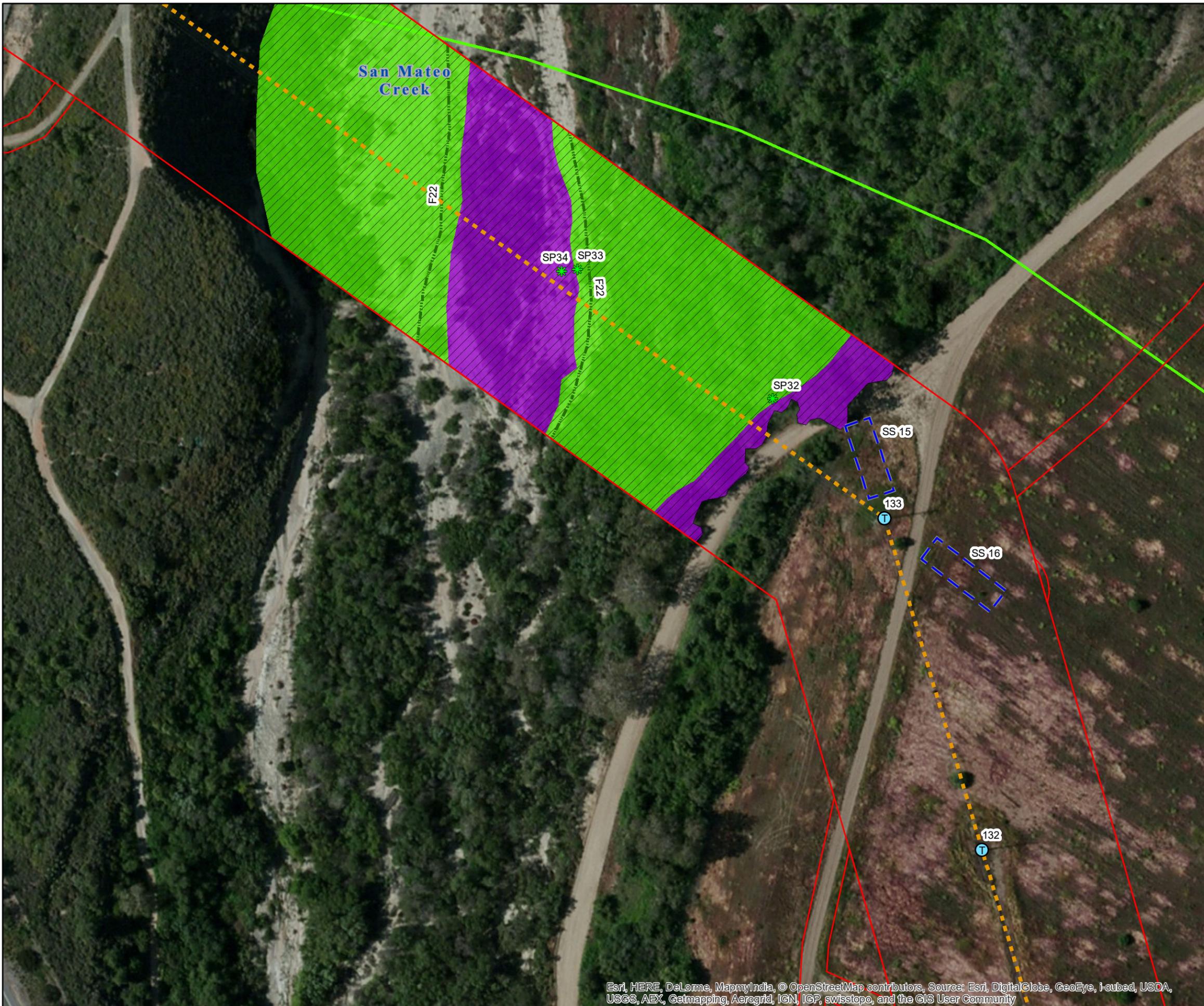
1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility		Delineation	
	Top Pole		Sample Points
	Overhead	Delineated	
	Stringing Site		ACOE Wetland/CDFW/RWQCB
	Project Study	Jurisdictional Wetlands and Waters	
			ACOE Wetland/RWQCB/CDFW
			CDFW Riparian
			California Coastal Commission Wetland



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Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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Reconductor Project
Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

- Direct Bury
- Top Pole
- Guard Structure
- Overhead Removal

Delineated Feature

- Stringing Site
- Project Study Area
- ACOE Wetland/CDFW/RWQCB
- Swale (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Wetland/RWQCB/CDFW
- CDFW Riparian
- California Coastal Commission Wetland



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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

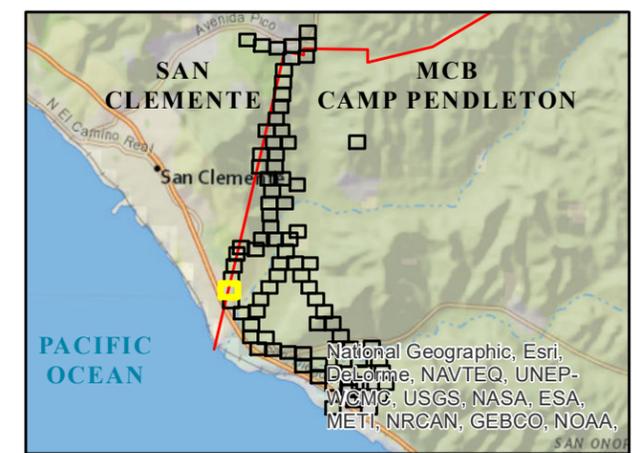
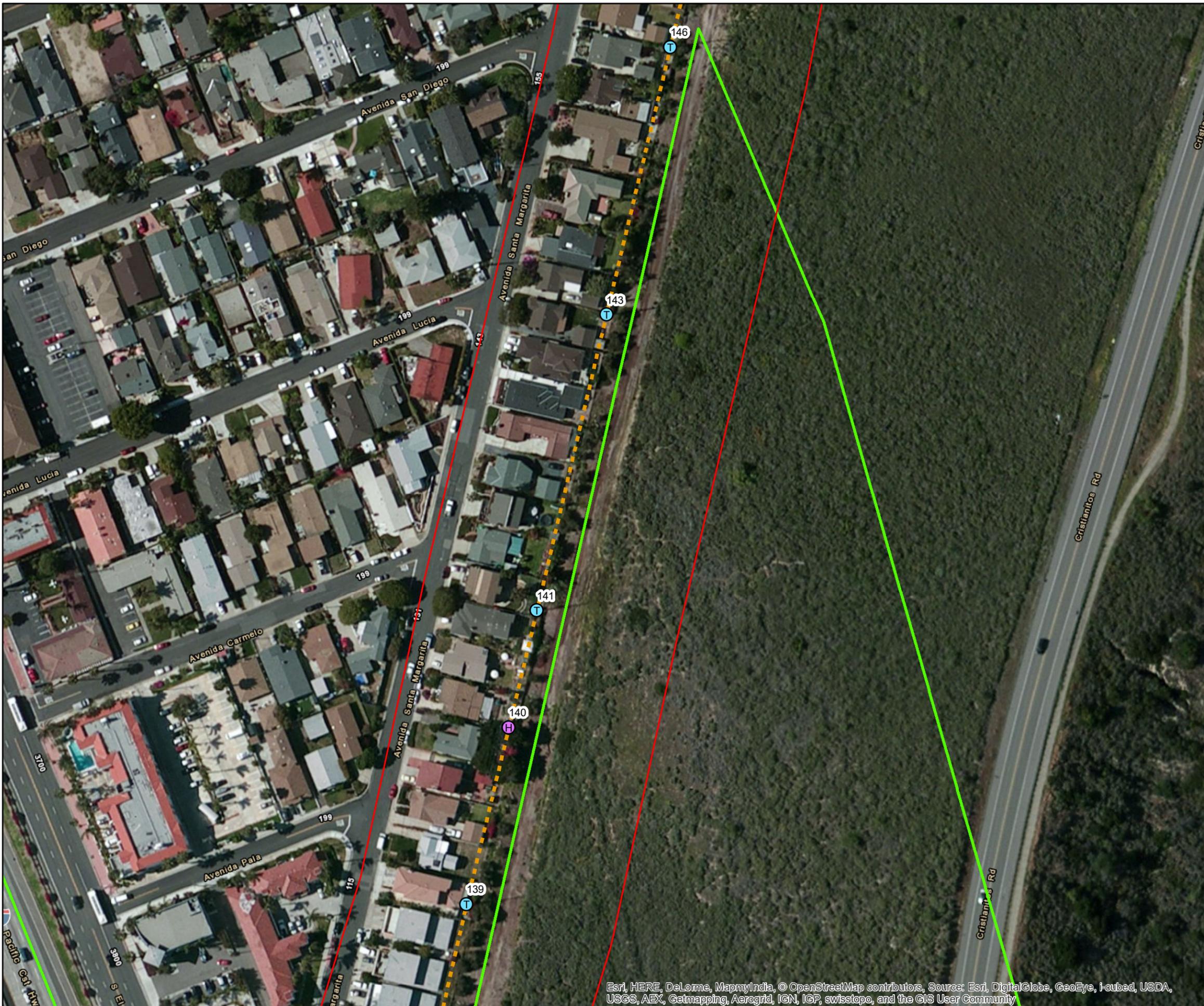


Feet

Legend

Project Utility Poles

-  Overhead Work
-  Top Pole
-  Overhead Removal
-  Project Study



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 Datum: North American 1983



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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

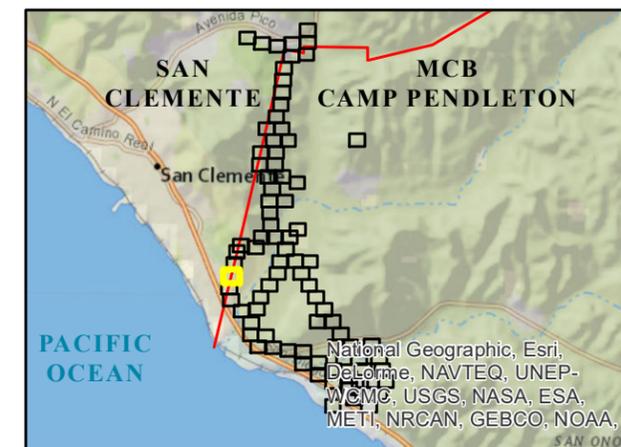


Feet

Legend

Project Utility Poles

- Direct Bury
- Overhead Work
- Top Pole
- Overhead Removal
- Project Study



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1 inch = 110 feet @11" x 17"

0 50 100 200 300

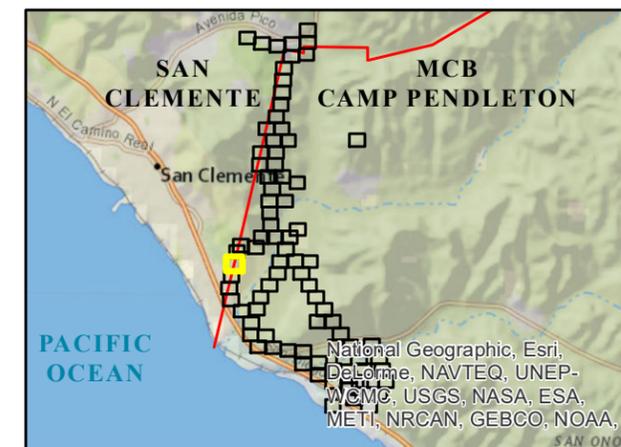


Feet

Legend

Project Utility Poles

-  Overhead Work
-  Top Pole
-  Overhead Removal
-  Project Study



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Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

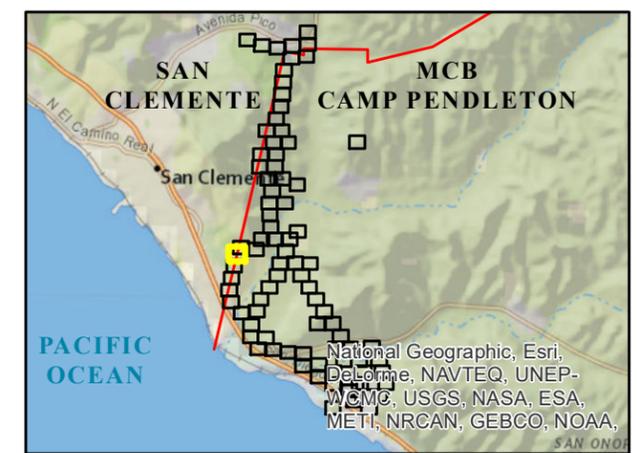
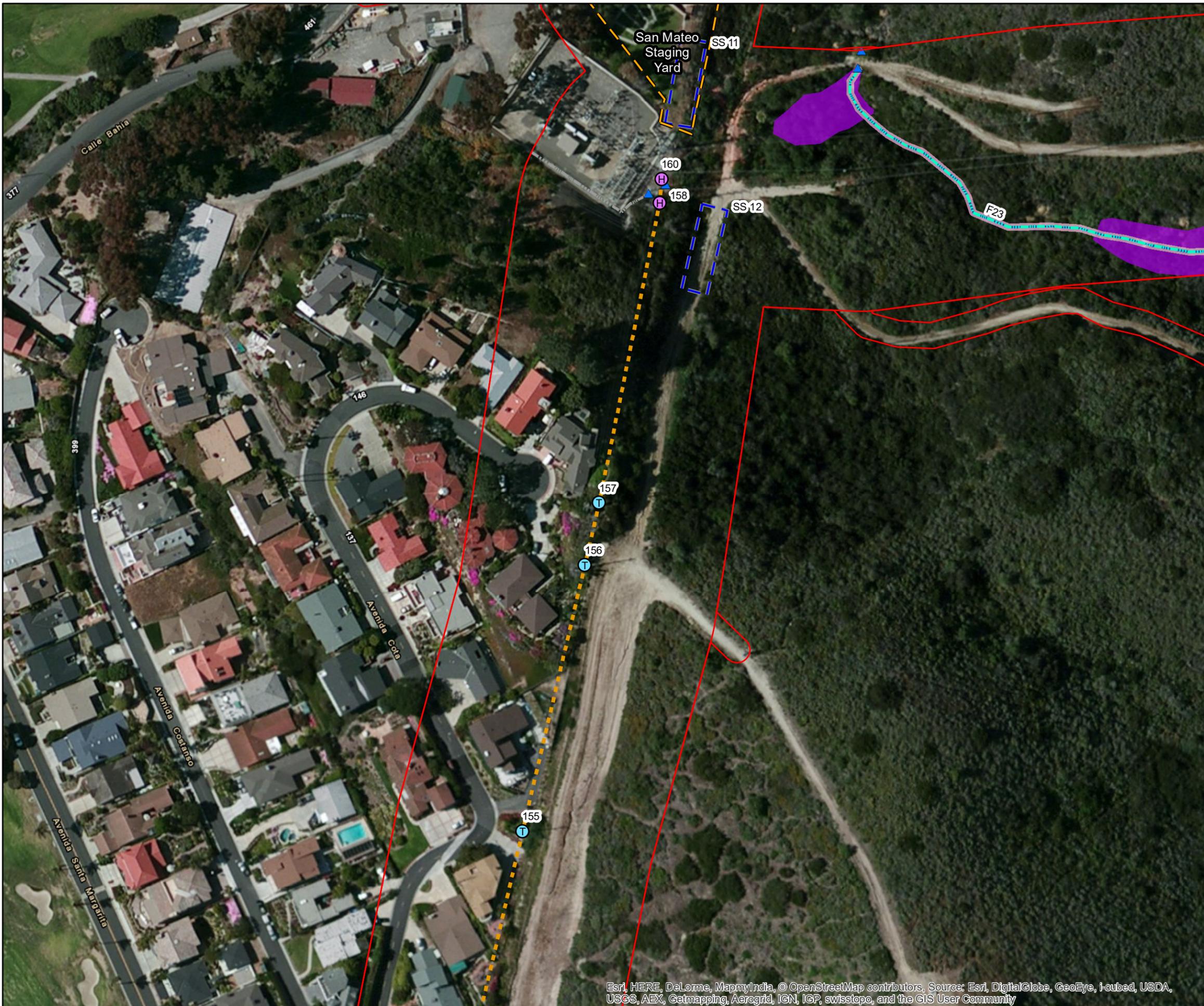
- Overhead Work
- Top Pole
- Staging
- Overhead Removal
- Stringing Site
- Project Study
- Culvert/Stom Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- Concrete V-Ditch/Channel (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB
- CDFW Riparian



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 Reconductor Project
 Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Legend

Project Utility Poles

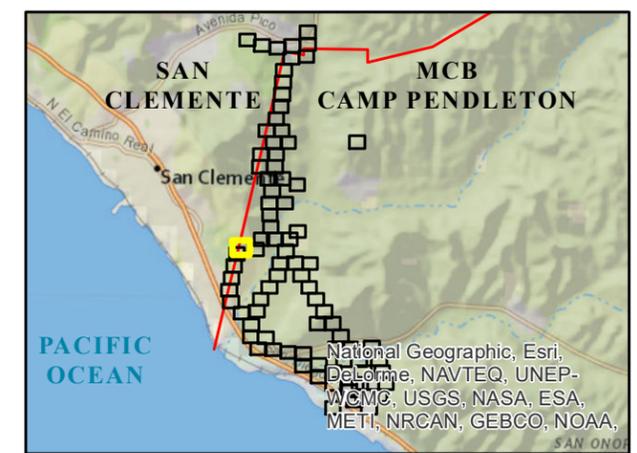
- Overhead Work (H symbol)
- Top Pole (T symbol)
- Staging Area (yellow dashed line)
- Overhead Removal (orange dashed line)
- Stringing Site (blue dashed line)
- Project Study (red outline)
- Culvert/Stom Drain (blue triangle)

Delineated Feature

- ACOE Waters/CDFW/RWQCB (cyan dashed line)
- Concrete V-Ditch/Channel (Non-jurisdictional) (grey dashed line)
- Swale (Non-jurisdictional) (white dashed line)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW (blue fill)
- CDFW Streambed/RWQCB (pink fill)
- CDFW Riparian (purple fill)



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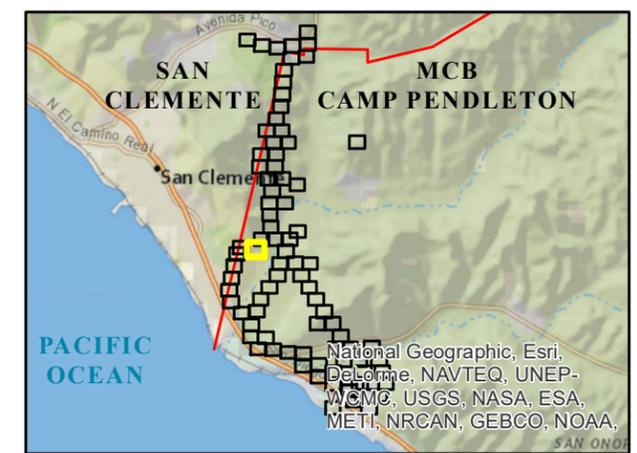
1 inch = 110 feet @11" x 17"



Feet

Legend

-  Guard Structure
-  Staging Area
-  Work/Turnaround/
Staging Area
-  Project Study Area
- Delineated Feature**
-  Erosional Feature (Non-jurisdictional)



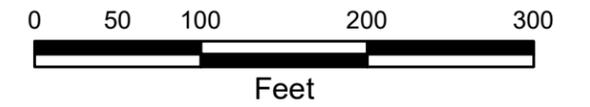
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Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Legend

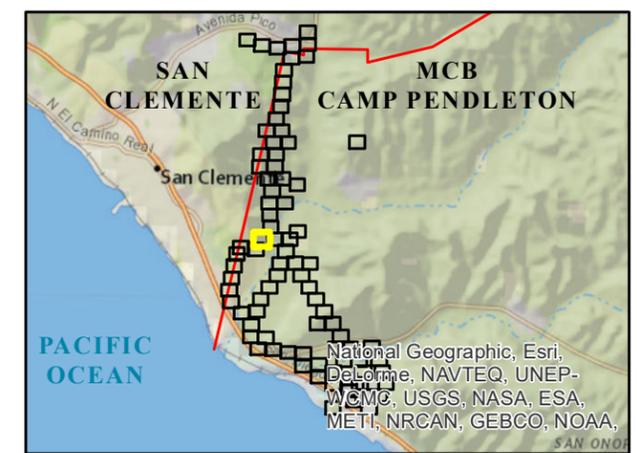
- Guard Structure
- Work/Turnaround/Staging Area
- Project Study
- Culvert/Storm Drain

Delineated Feature

- ACOE Waters/CDFW/RWQCB
- Erosional Feature (Non-jurisdictional)

Jurisdictional Wetlands and Waters

- ACOE Waters/RWQCB/CDFW
- CDFW Streambed/RWQCB



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1 inch = 110 feet @11" x 17"

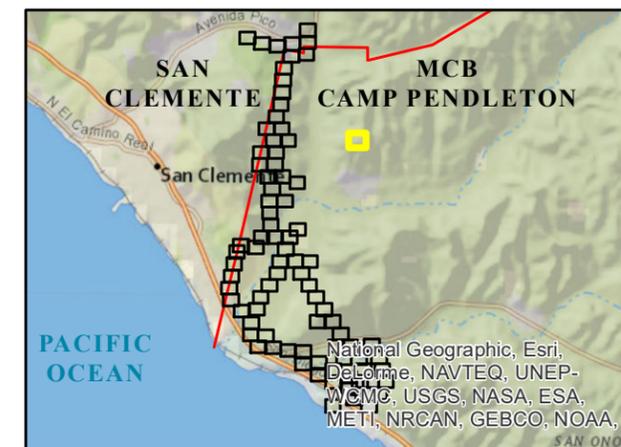
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Feet

Legend

- Staging
- Project Study



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Datum: North American 1983



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1 inch = 110 feet @11" x 17"

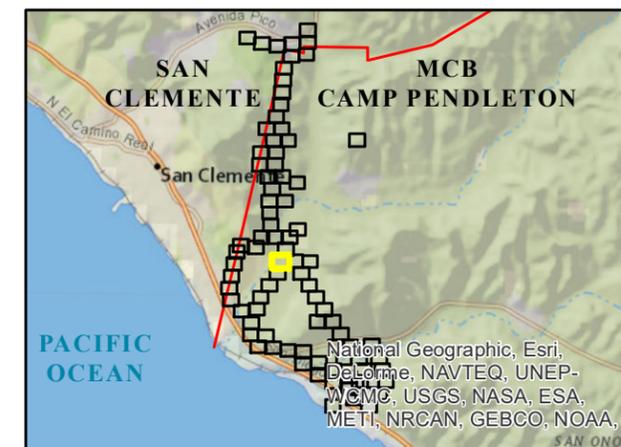
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Feet

Legend

 Project Study Area



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Datum: North American 1983



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1 inch = 110 feet @11" x 17"

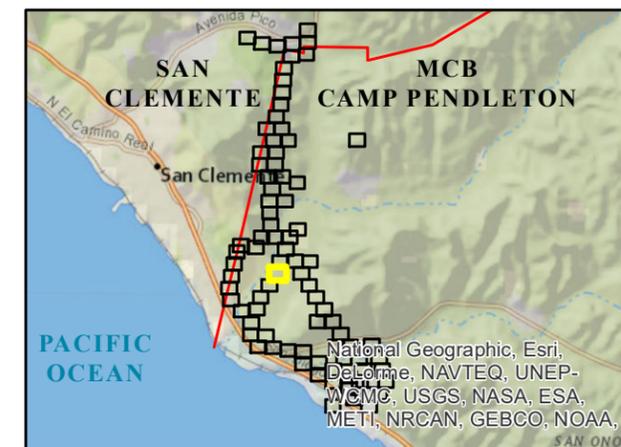
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Feet

Legend

 Project Study Area



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1 inch = 110 feet @11" x 17"

0 50 100 200 300



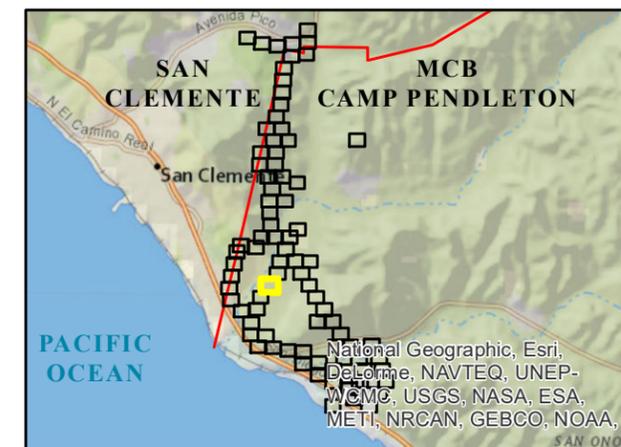
Feet

Legend

 Project Study Area

Jurisdictional
Wetlands and Waters

 CDFW Riparian



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1 inch = 110 feet @11" x 17"

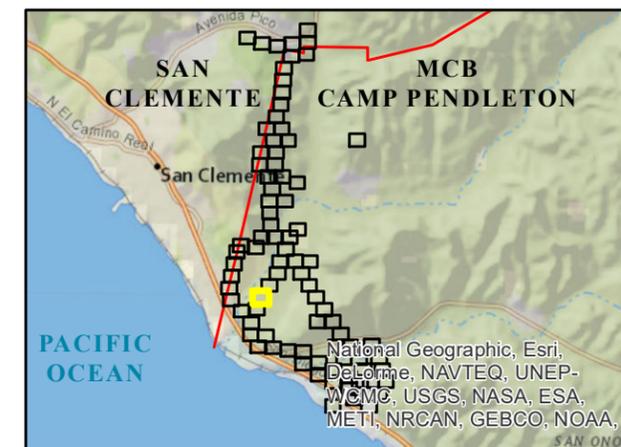
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Feet

Legend

 Project Study Area



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Projection: Lambert Conformal Conic
Datum: North American 1983



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1 inch = 110 feet @11" x 17"

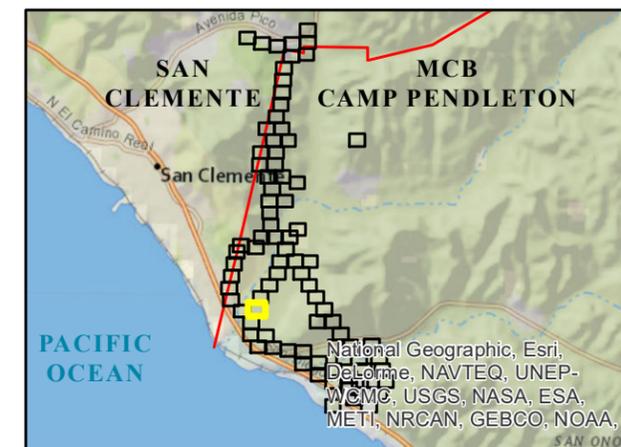
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Feet

Legend

 Project Study Area



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Datum: North American 1983



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1 inch = 110 feet @11" x 17"

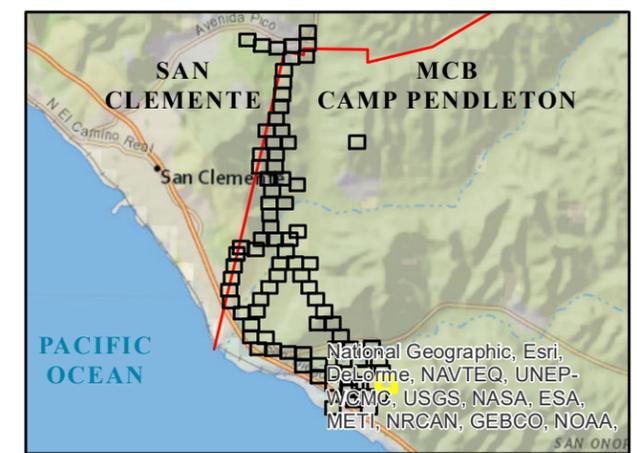
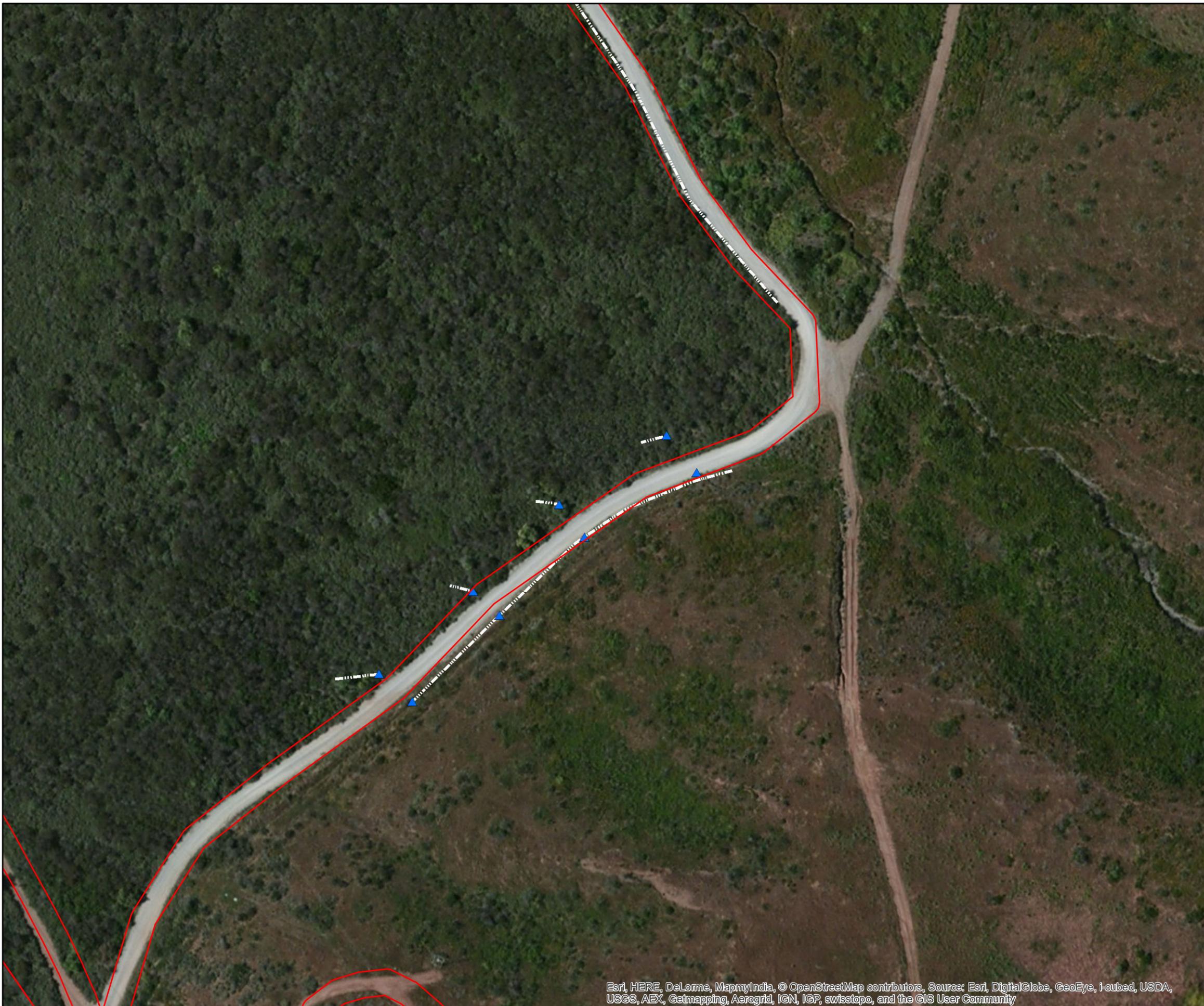
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Feet

Legend

- Project Study Area
- Culvert/Storm Drain
- Delineated Feature
- Swale (Non-jurisdictional)



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Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

0 50 100 200 300



Feet

Legend

 Project Study

Delineated

 Swale (Non-



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Projection: Lambert Conformal Conic
Datum: North American 1983



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1 inch = 110 feet @11" x 17"

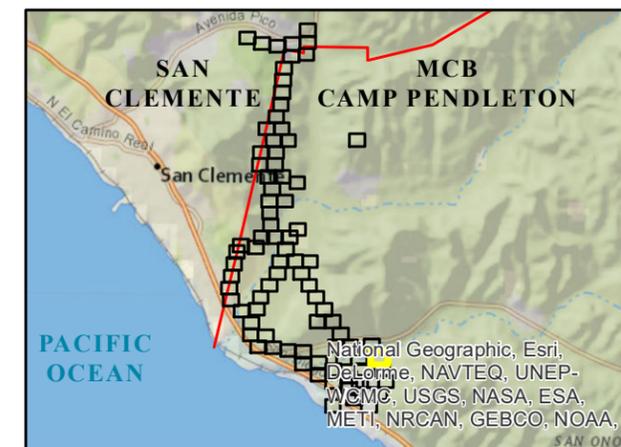
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Feet

Legend

 Project Study



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Projection: Lambert Conformal Conic
Datum: North American 1983



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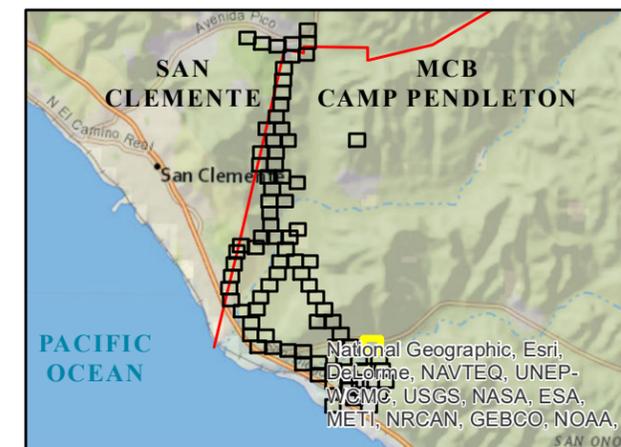
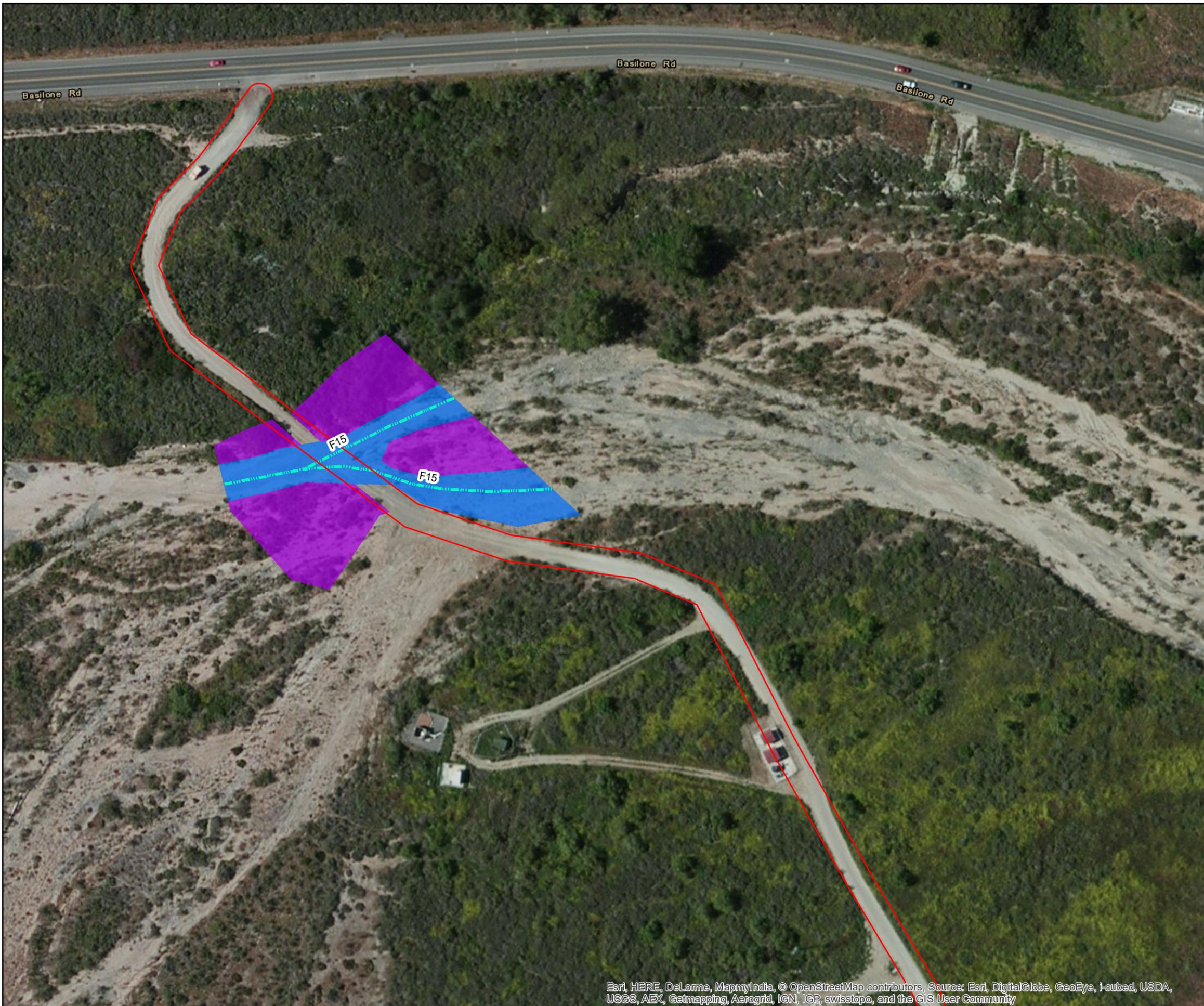
1 inch = 110 feet @11" x 17"



Feet

Legend

- Project Study Area
- Delineated Feature**
- ACOE Waters/CDFW/RWQCB
- Jurisdictional Wetlands and Waters**
- ACOE Waters/RWQCB/CDFW
- CDFW Riparian



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"



Feet

Legend

Project Utility Poles

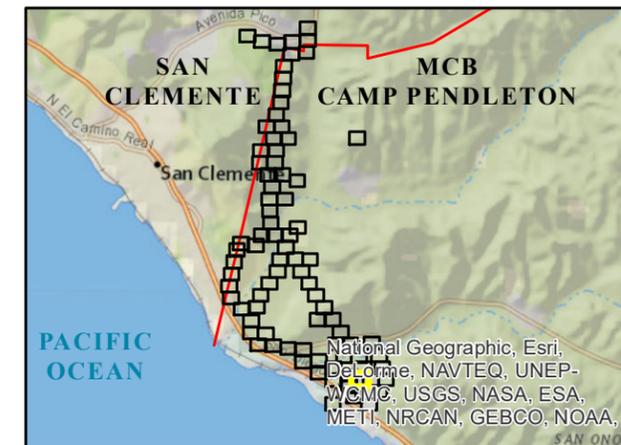
- Direct Bury
- Staging Area
- Overhead Route
- Project Study
- Culvert/Stom Drain

Delineated Feature

- Concrete V-Ditch/Channel (Non-jurisdictional)



SONGS Mesa
Staging
Yard



Created By Pangea Biological, June 2016
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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 Reconductor Project
 Aquatic Delineation Maps

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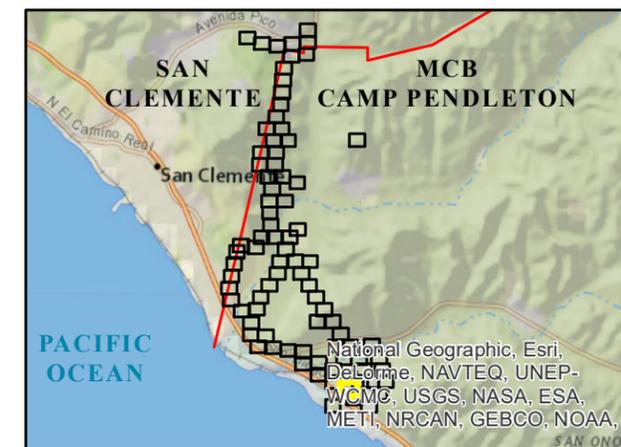
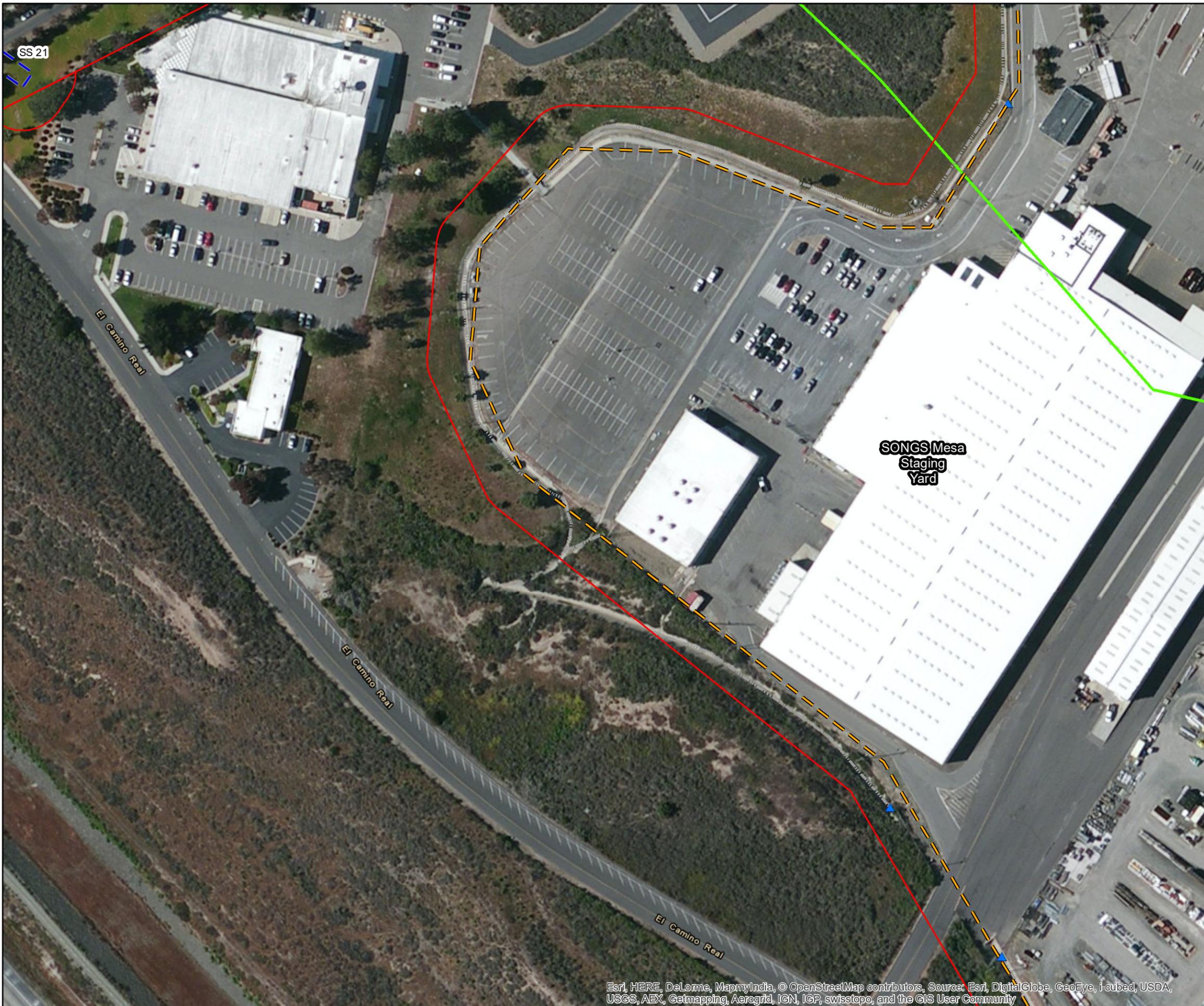
1 inch = 110 feet @11" x 17"



Feet

Legend

- Staging
- Stringing Site
- Project Study
- Culvert/Storm Drain
- Delineated Feature**
- Concrete V-Ditch/Channel (Non-jurisdictional)



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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1 inch = 110 feet @11" x 17"

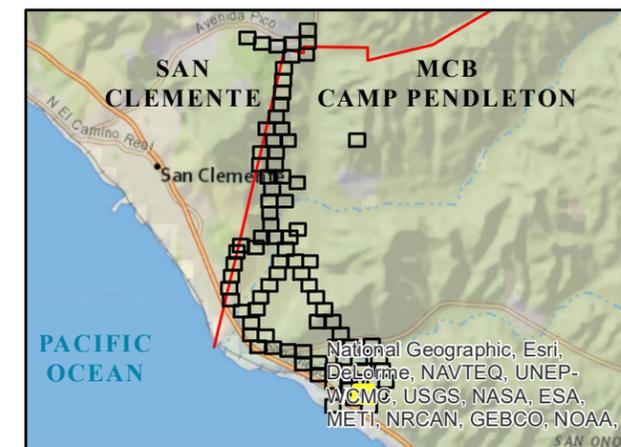


Feet

Legend

-  Staging
-  Project Study

- Delineated Feature**
-  Concrete V-Ditch/Channel (Non-jurisdictional)



Created By Pangea Biological, June 2016
 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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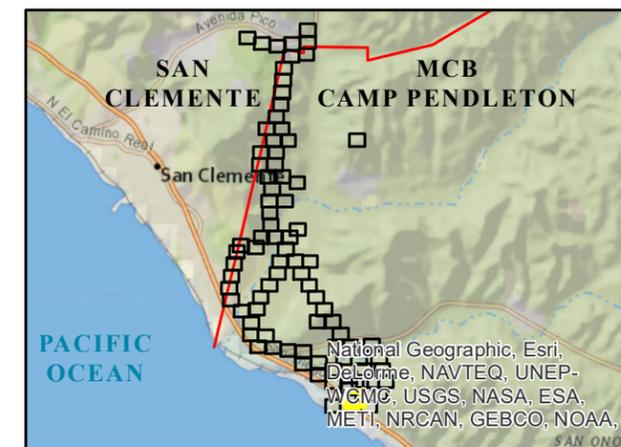
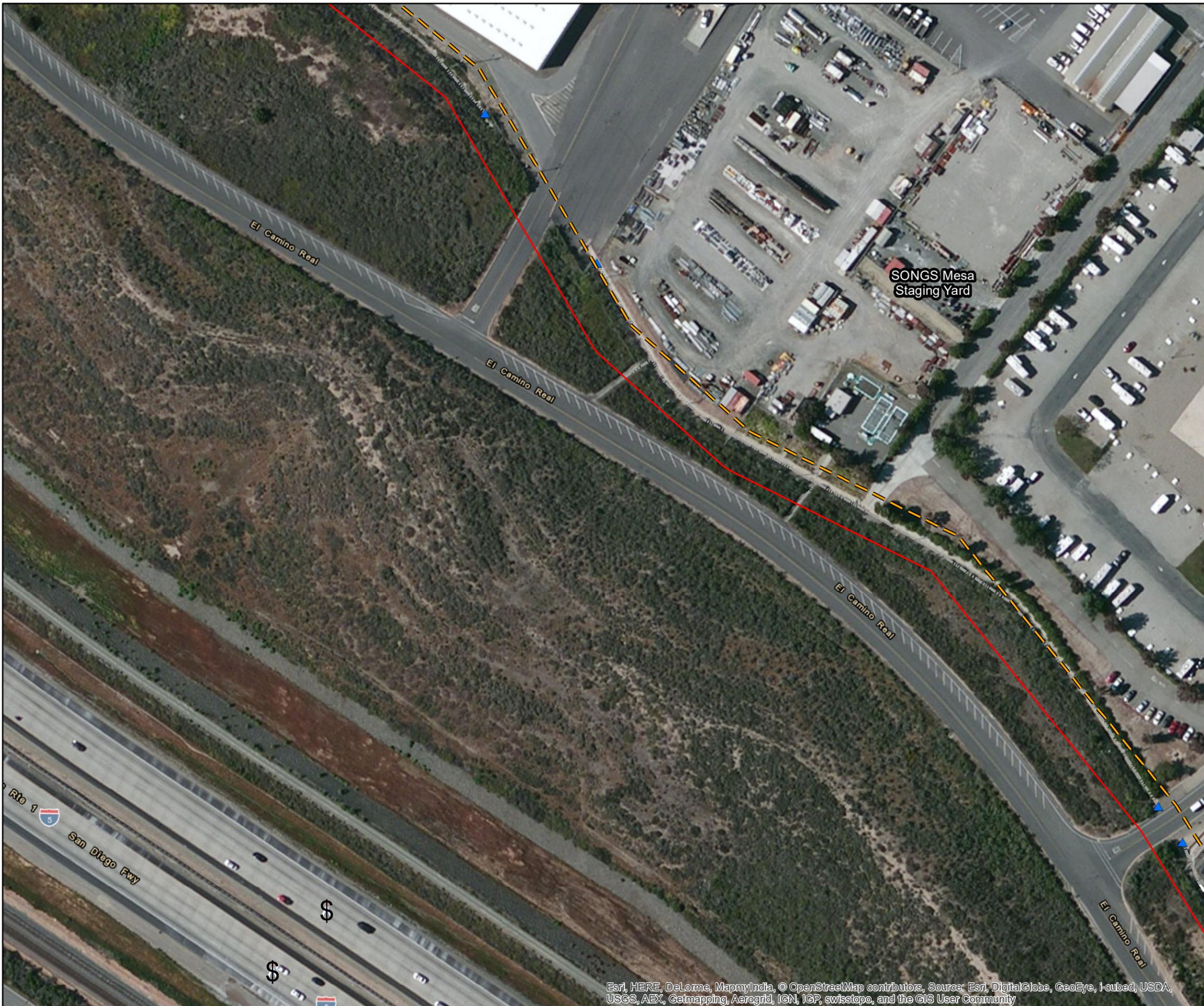
1 inch = 110 feet @11" x 17"



Feet

Legend

-  Staging
-  Project Study
-  Culvert/Stom Drain
- Delineated Feature**
-  Concrete V-Ditch/Channel (Non-jurisdictional)
-  Swale (Non-jurisdictional)



Created By Pangea Biological, June 2016
 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 110 feet @11" x 17"



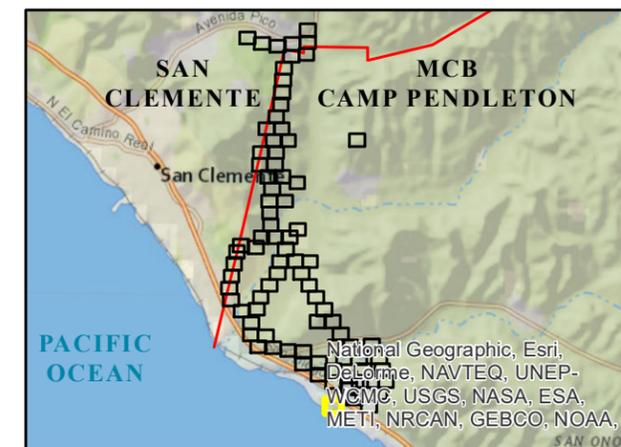
Feet

Legend

- Staging
- Project Study



SDG&E Lot 4
Staging
Yard



Created By Pangea Biological, June 2016
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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Aquatic Delineation Maps

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1 inch = 110 feet @11" x 17"

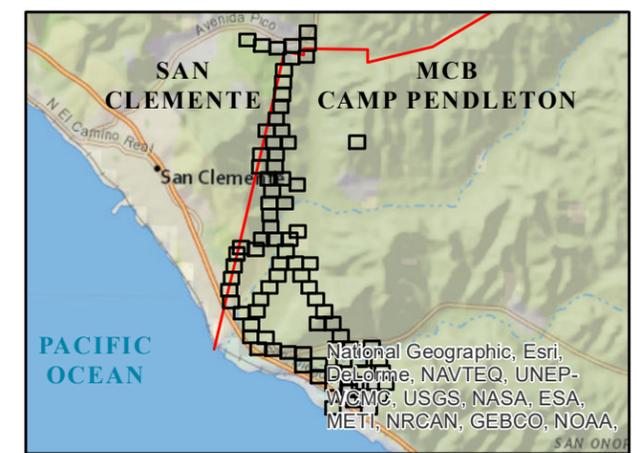
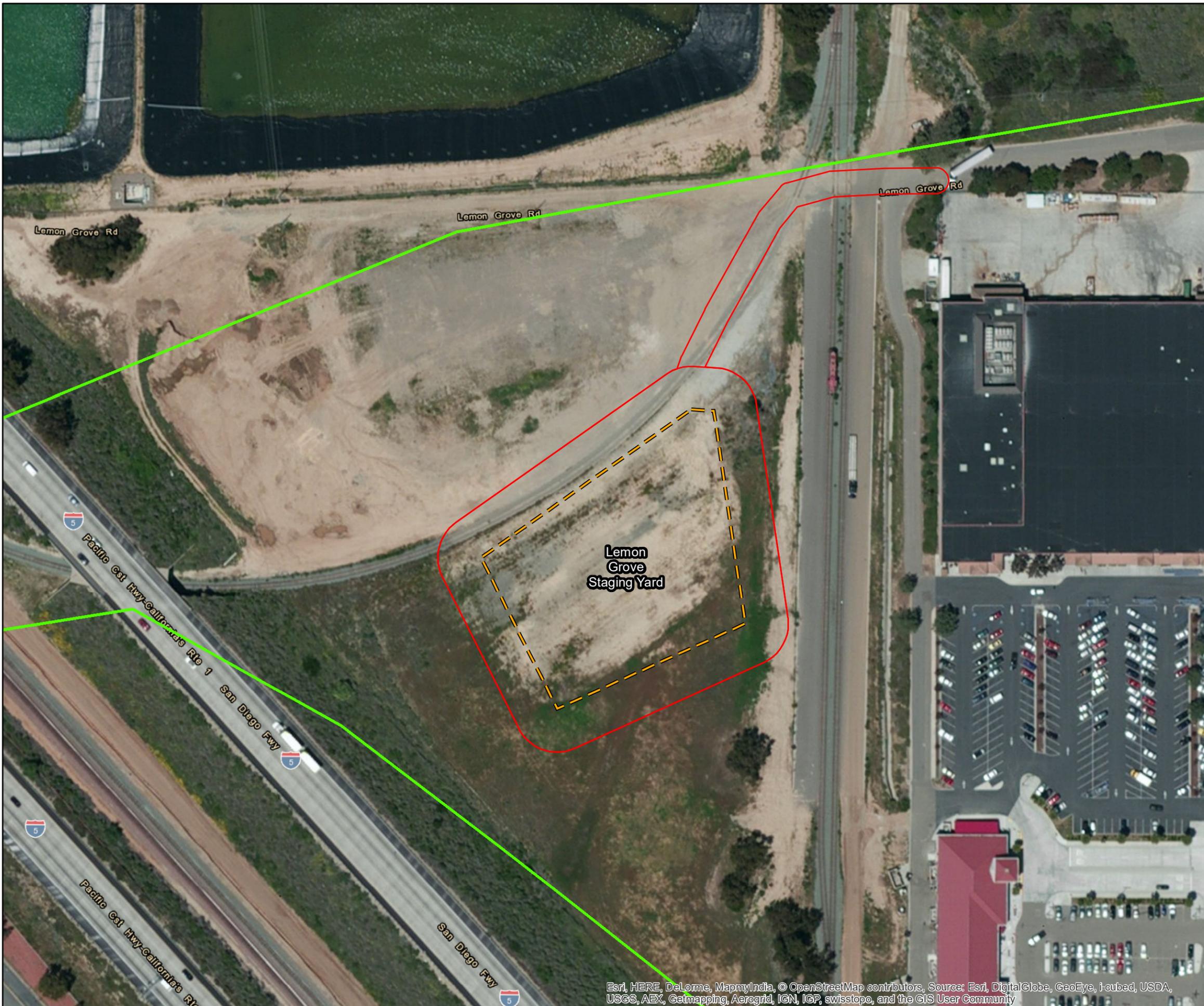
0 50 100 200 300



Feet

Legend

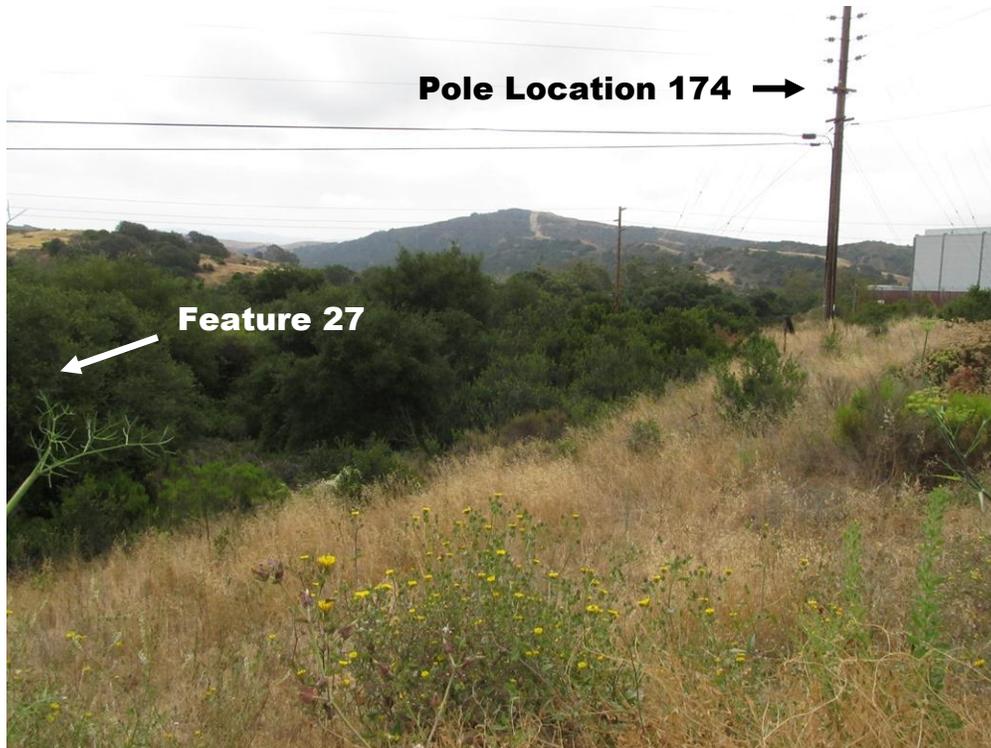
- Staging Area
- Project Study Area



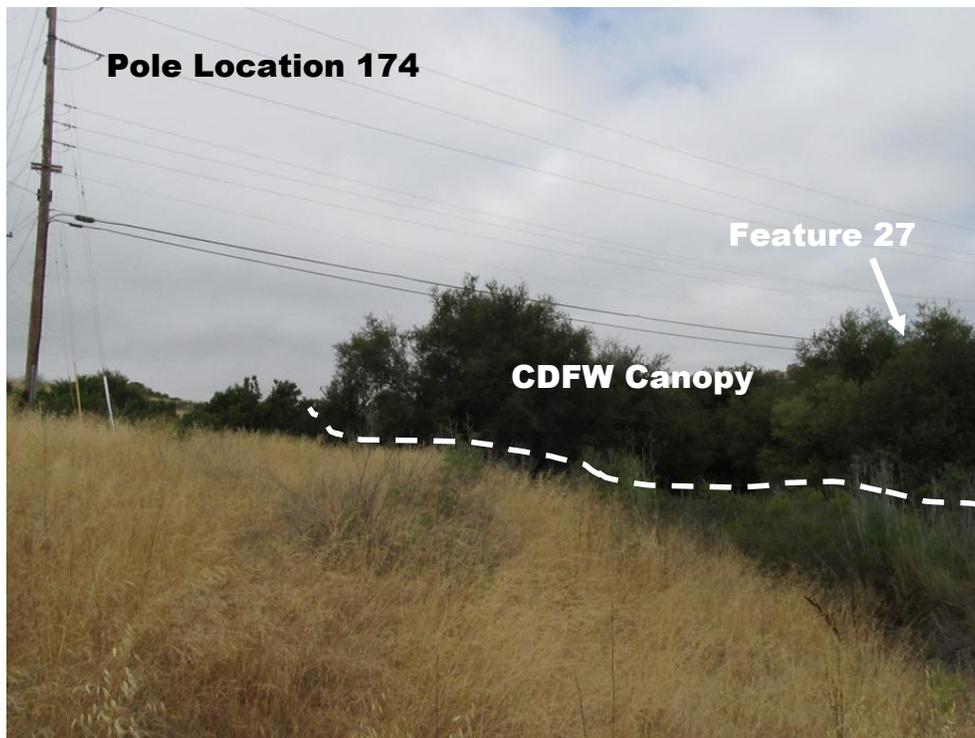
Created By Pangea Biological, June 2016
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



Attachment C - Photo Documentation



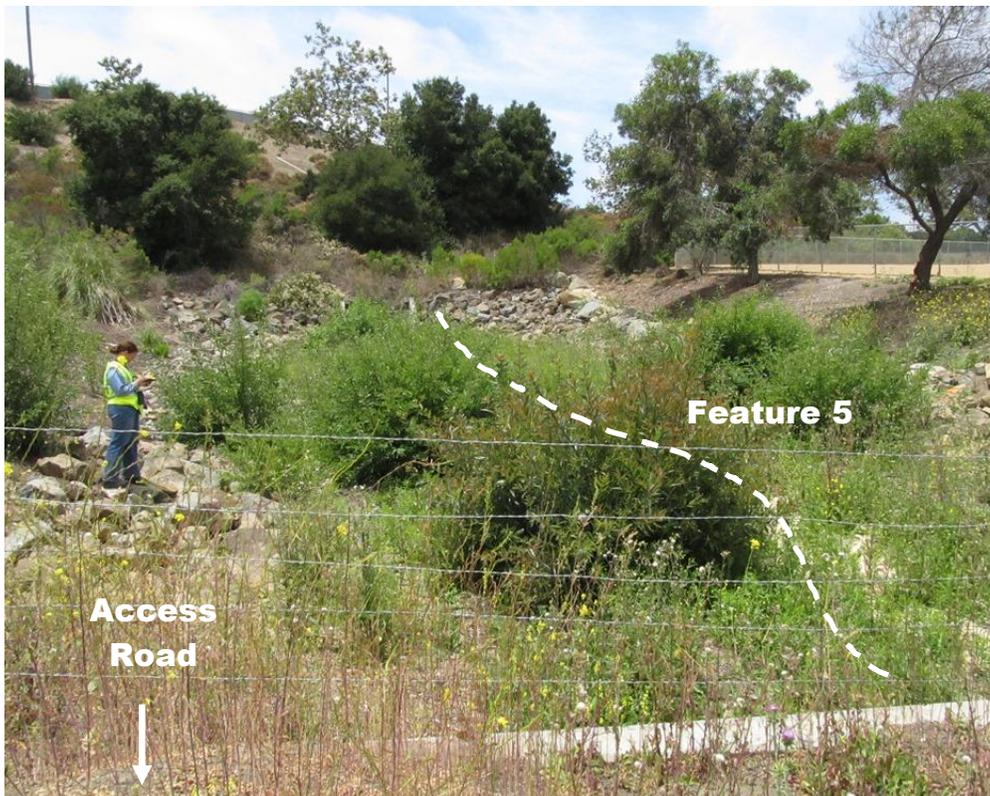
Photograph 1 (North of Talega Substation, Mapbook Page 1): Feature 27 north of Pole Location 174. View east.



Photograph 2 (North of Talega Substation, Mapbook Page 1): Feature 27 north of Pole Location 174. CDFW jurisdictional canopy north of pole and work area. View northwest.



Photograph 3 (South of Access Road, Mapbook Page 8): Sample Point 38, taken in depression below box culvert outlet along access road west of Talega Substation. View south.



Photograph 4 (West of Access Road, Mapbook Page 11): Feature 5 (extended feature), intermittent channel culverted under access road. View west.



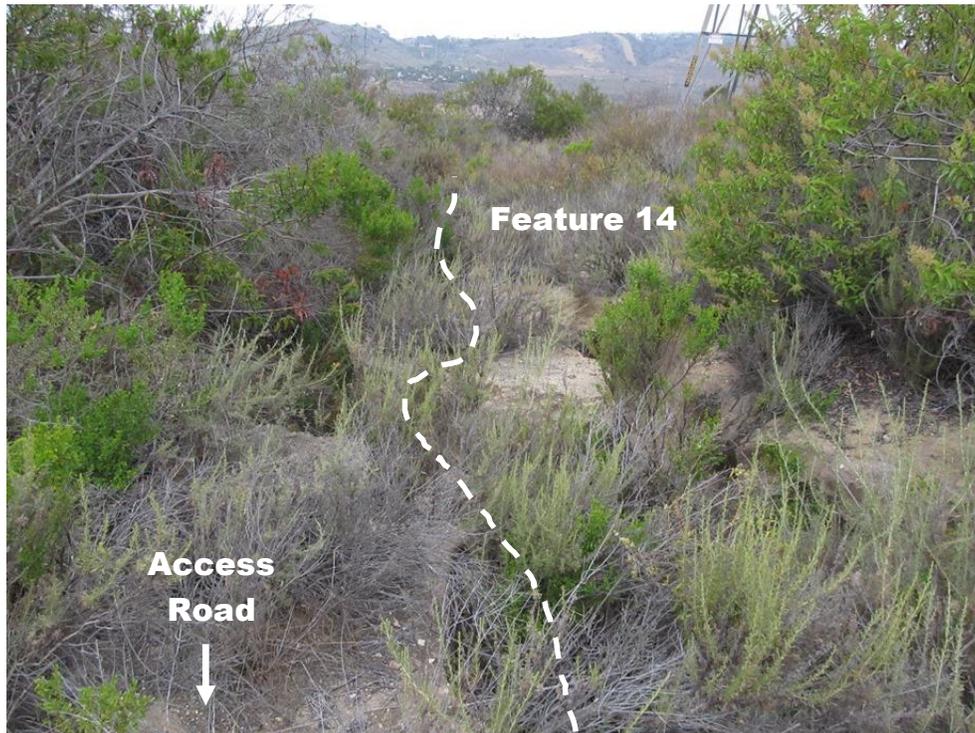
Photograph 5 (East of Access Road, Mapbook Page 11): Feature 5 (extended feature), intermittent channel culverted under access road. View east.



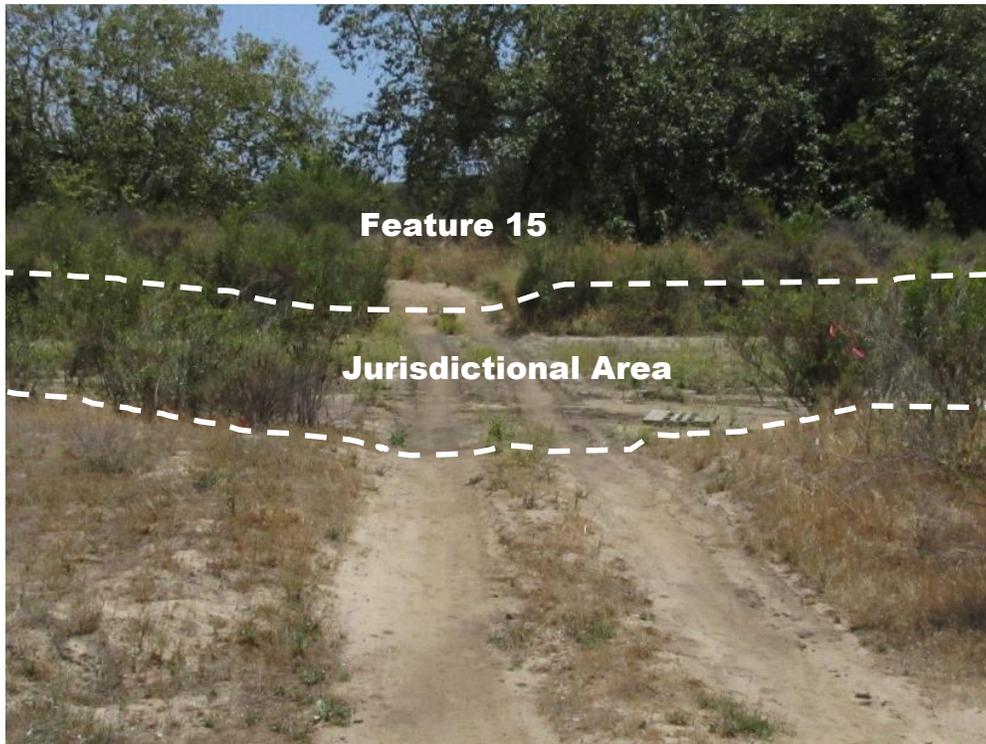
Photograph 6 (South and East of Access Road, Mapbook Page 19): Feature 28 (new feature), ephemeral channel south and east of access road. View northwest.



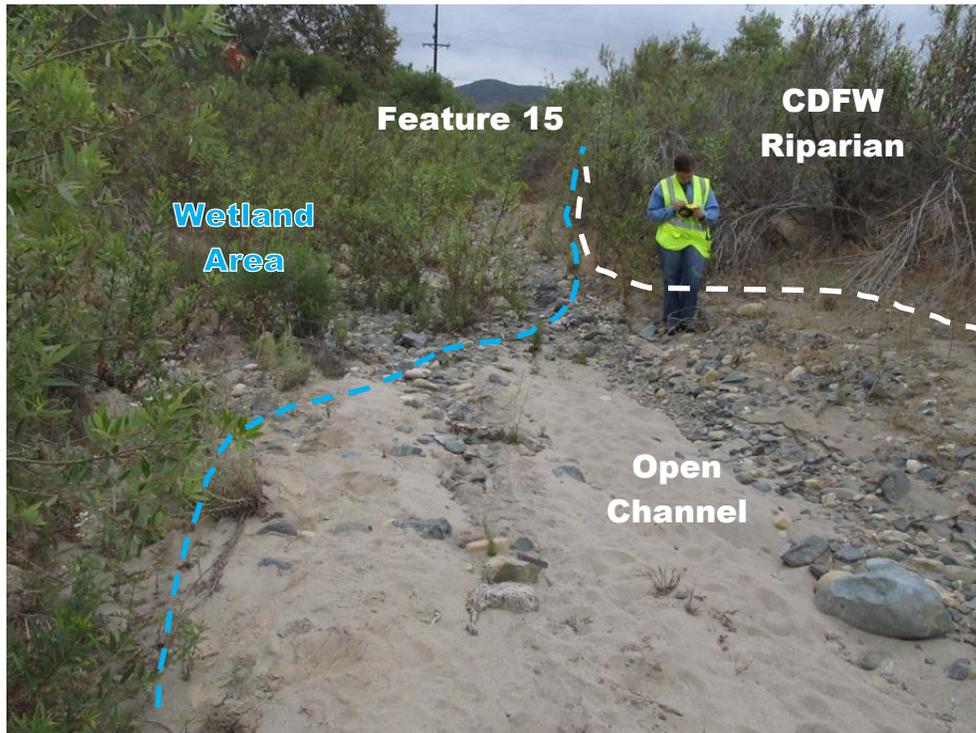
Photograph 7 (West of Access Road, Mapbook Page 27): Feature 29 (new feature), ephemeral channel west of access road and north of Cristianitos Road. View south.



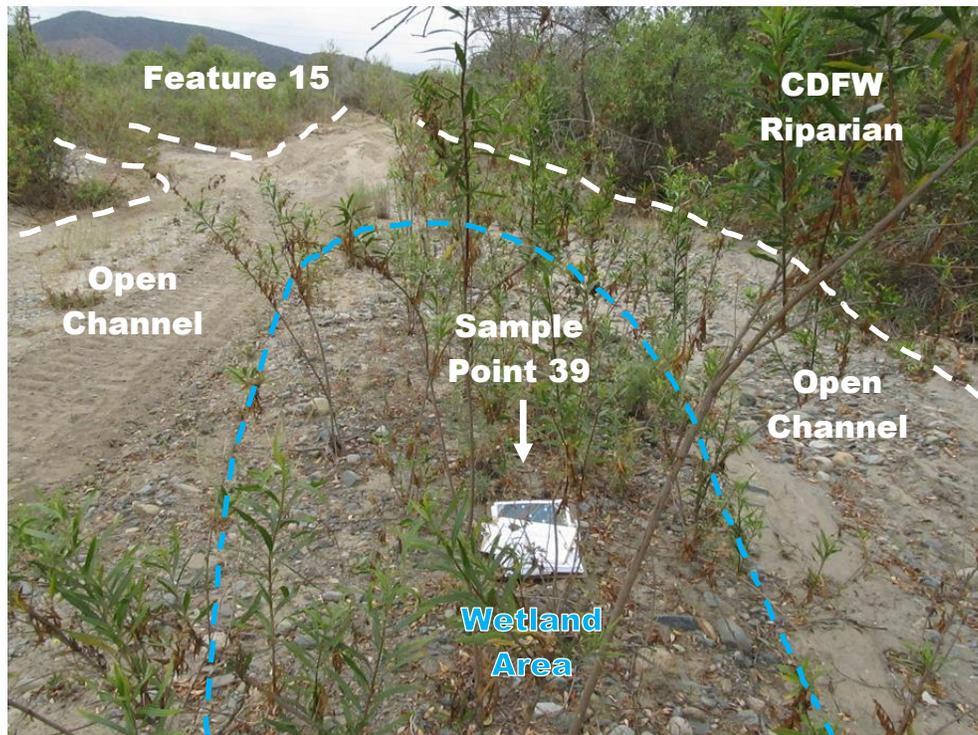
Photograph 8 (West of Access Road, Mapbook Page 37): Feature 14 (extended feature), ephemeral channel west of access road east of San Mateo Canyon. View west.



Photograph 9 (San Onofre Creek Access Road Crossing, Mapbook Page 45): Feature 15 (extended feature), intermittent creek at road crossing. View south.



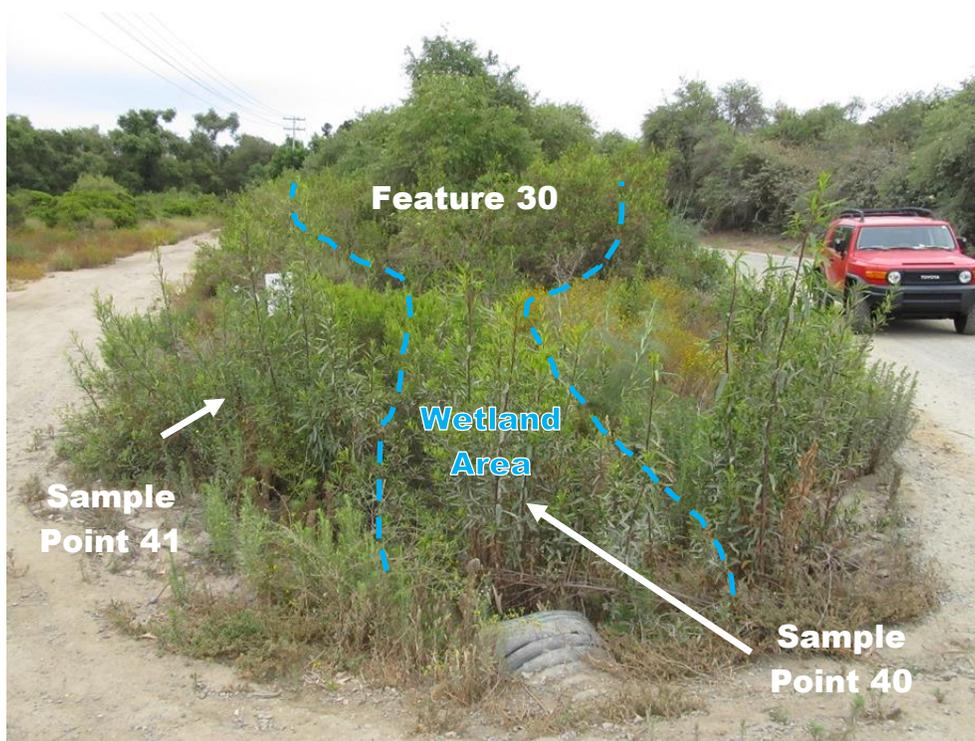
Photograph 10 (San Onofre Creek North of Pole Location 118, Mapbook Page 55): Feature 15 (extended feature), intermittent channel. View east.



Photograph 11 (San Onofre Creek North of Pole Location 118, Mapbook Page 56): Feature 15 (extended feature), intermittent channel, sample point 39. View east.



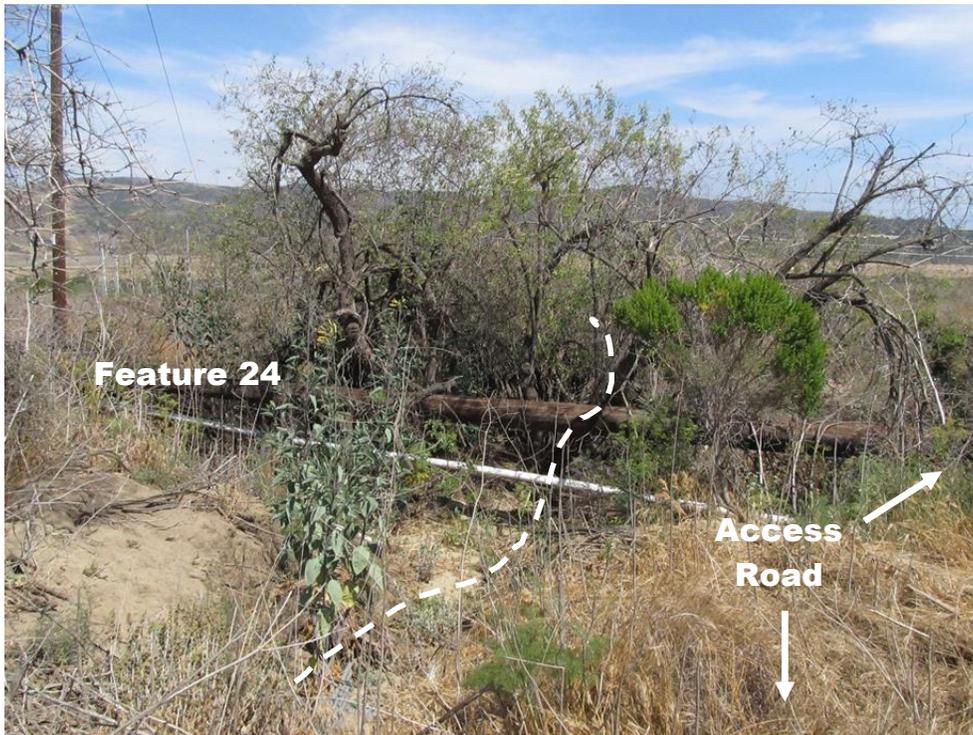
Photograph 12 (West of Pole Location 120, Mapbook Page 57): Riparian canopy associated with convergence of Feature 20 (extended feature; not visible in photo) and another unnamed channel. View west.



Photograph 13 (South and East of Access Road, Mapbook Page 62): Feature 30 (new feature, Sample Points 40 and 41, intermittent channel draining large wetland (Feature 20). View south.



Photograph 14 (North and East of Access Road, Mapbook Page 62): Feature 30 (new feature), intermittent channel draining large wetland (Feature 20). View north.



Photograph 15 (North and east of Access Road, Mapbook Page 72): Feature 24 (extended feature), ephemeral channel. View south.



Photograph 16 (San Onofre Access Road Crossing, Mapbook Page 82): Feature 15 (extended feature), ephemeral channel at the bottom of steep eroded slope. View northwest.

Attachment D – Wetland Determination Data Sheets

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: CROWN / SD Sampling Date: 6/3/16

Applicant/Owner: SOBE State: CA Sampling Point: SP-1

Investigator(s): A. Borcher / Dawn Huss Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 0-1

Subregion (LRR): LRR C Lat: 33.456181 Long: -117.598375 Datum: WGS 84

Soil Map Unit Name: Cropley clay, 2 to 9% NWI classification: NONE

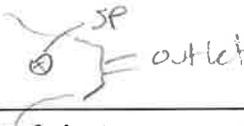
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____

Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------

Remarks:  - Taken in depression with small patch of wetland-type plants. On edge of survey area, won't be impacted.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix laevigata</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>6</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____				
<u>30</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Salix exigua</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2. <u>Cortaderia (Pompa)</u>	<u>30</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Baccharis salicifolia</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Baccharis pilularis</u>	<u>10</u>	<u>N</u>	<u>NI</u>	
5. _____				
<u>75</u> = Total Cover				
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Cyperus esculentus</u>	<u>5</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50% _____ Prevalence Index is ≤3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain)
2. <u>Eleocharis</u>	<u>10</u>	<u>Y</u>	<u>OBL</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
<u>15</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>10</u> % Cover of Biotic Crust <u>0</u>				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____

Remarks:

SOIL

Sampling Point: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:
 ASSUMED, NO SOIL PITS

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Biotic Crust (B12)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present? Yes No Depth (inches): _____

Water Table Present? Yes No Depth (inches): _____

Saturation Present? Yes No Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

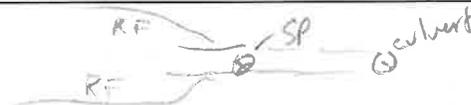
Remarks:
 At culvert outlet, no evidence of recent flow. May have concrete under shallow layer of soil.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL 695 City/County: CLEND / ISD Sampling Date: 6/9/15
 Applicant/Owner: SDGE State: CA Sampling Point: SP-2
 Investigator(s): A. BORTON, D. HUSS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Channel Local relief (concave, convex, none): Concave Slope (%): 0-2
 Subregion (LRR): LRR C Lat: 33.3897515 Long: -117.58791246 Datum: NBS 84
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: 	

VEGETATION – Use scientific names of plants.

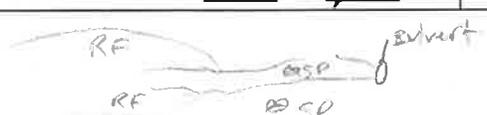
Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis californica</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	Total % Cover of: _____ Multiply by: _____
2. <u>Frankenia salina</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	OBL species _____ x 1 = _____
3. _____	_____	_____	_____	FACW species _____ x 2 = _____
4. _____	_____	_____	_____	FAC species _____ x 3 = _____
5. _____	_____	_____	_____	FACU species _____ x 4 = _____
<u>20</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Polypogon monspeliensis</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Dominance Test is >50%
2. <u>Vulpia myuros</u>	<u>2</u>	<u>N</u>	<u>NI</u>	___ Prevalence Index is ≤3.0 ¹
3. <u>Carex spissa</u>	<u>15</u>	<u>Y</u>	<u>OBL</u>	___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	___ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>32</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Footnote:
1. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____

Remarks: _____

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: CREND / SD Sampling Date: 6/9/15
 Applicant/Owner: SDGP State: CA Sampling Point: SP-3
 Investigator(s): A. BORCHERT, D. HUSS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): NONE Slope (%): 0
 Subregion (LRR): LRR C Lat: 33.38977443 Long: -117.58790066 Datum: WGS 84
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: 	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>Isocoma menziesii</u>	<u>80</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Datura wrightii</u>	<u>15</u>	<u>N</u>	<u>NI</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>95</u> = Total Cover				
Herb Stratum (Plot size: _____)				
1. <u>Vulpia myuros</u>	<u>10</u>	<u>Y</u>	<u>NI</u>	
2. <u>Acandra fasciculatum</u>	<u>10</u>	<u>Y</u>	<u>NI</u>	
3. <u>Lepidium</u>	<u>2</u>	<u>N</u>	<u>NI</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
<u>22</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>5</u>	% Cover of Biotic Crust <u>0</u>			

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ x 1 = _____
 FACW species _____ x 2 = _____
 FAC species _____ x 3 = _____
 FACU species _____ x 4 = _____
 UPL species _____ x 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
 Dominance Test is >50%
 Prevalence Index is ≤3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No

Remarks: _____

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: TL695 City/County: CPEND/SD Sampling Date: 6/14/16
 Applicant/Owner: SOBE State: CA Sampling Point: SP-4
 Investigator(s): A. BORCHERT, D. HUSS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Channel/Island bench Local relief (concave, convex, none): convex Slope (%): 0-2
 Subregion (LRR): LRR C Lat: 33.38277925 Long: 117.97060821 Datum: _____
 Soil Map Unit Name: RIVERWASHT NWI classification: YES/FRESHWATER FOREST

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: <div style="text-align: center; font-size: 1.2em;">  </div> Small bench in <u>San onofre</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Salix laurifolia</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)
2. _____				Total Number of Dominant Species Across All Strata: _____ (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
4. _____				
<u>30</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Baccharis salicifolia</u>	<u>30</u>	<u>Y</u>	<u>FACW</u>	Total % Cover of: _____ Multiply by: _____
2. _____				OBL species _____ x 1 = _____
3. _____				FACW species _____ x 2 = _____
4. _____				FAC species _____ x 3 = _____
5. _____				FACU species _____ x 4 = _____
<u>30</u> = Total Cover				UPL species _____ x 5 = _____
				Column Totals: _____ (A) _____ (B)
				Prevalence Index = B/A = _____
Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Gnaphalium bicolor</u>	<u>7</u>	<u>Y</u>		___ Dominance Test is >50%
2. <u>Cyperus esculentus</u>	<u><1</u>	<u>N</u>		___ Prevalence Index is ≤3.0 ¹
3. _____				___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____				___ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
_____ = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____				Yes <input checked="" type="checkbox"/> No _____
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>30</u>		% Cover of Biotic Crust <u>10</u>		
Remarks:				

