MEMORANDUM

TO: Debbie Collins, San Diego Gas & Electric
Tamara Spear, San Diego Gas & Electric

FROM: Darin Busby, Busby Biological Services, Inc.

DATE: April 30, 2015

RE: Final Supplemental Jurisdictional Delineation Memorandum for the New Survey Areas within the Proposed Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project, San Diego County, California

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On behalf of Chambers Group, Inc. and San Diego Gas & Electric Company (SDG&E), Busby Biological Services, Inc. (BBS) conducted a supplemental jurisdictional delineation for SDG&E's proposed Sycamore to Peñasquitos 230 kilovolt (kV) Transmission Line Project (Proposed Project) located in San Diego County, California (Appendix A: Figure 1). Environmental Intelligence, LLC (EI) conducted a jurisdictional delineation within the original 500-foot wide Biological Survey Area (BSA) for the main Proposed Project alignment (EI 2014). This supplemental jurisdictional delineation was conducted to identify and delineate all jurisdictional resources within newly added areas (new survey areas) along the main Proposed Project alignment (Appendix A: Figure 2) that are potentially under the jurisdiction of the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), California Department of Fish and Wildlife (CDFW), and/or the California Coastal Commission (CCC).

This memorandum provides a brief description of the Proposed Project, regulatory setting, methods, and results of the jurisdictional delineation. This information is intended to supplement the information provided in the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014) for the original BSA as well as the jurisdictional delineation memorandum that was prepared by BBS for the Encina Hub (BBS 2015). Please refer to the EI jurisdictional delineation report for more detailed information on the Proposed Project, regulatory framework, and methods. For additional information pertaining to the biological resources associated with the Proposed Project, please refer to the Biological Technical Report (BTR; BBS 2014).

1.0 PROPOSED PROJECT LOCATION AND BACKGROUND INFORMATION

In an effort to increase the efficiency and supply of renewably generated power to the California Independent System Operator (CAISO) grid, CAISO has identified a policy-driven need for a new 230 kV transmission line to connect the existing SDG&E

Sycamore Canyon and Peñasquitos Substations. To satisfy the need for this new 230 kV transmission line, SDG&E proposes to construct and operate a new, approximately 16.7-mile 230 kV transmission line between the existing SDG&E Sycamore Canyon and Peñasquitos Substations (Appendix A: Figure 1). The Proposed Project would also include the consolidation of two existing 69 kV power lines onto new double-circuit, steel structures that would replace existing, predominantly wood structures. All new transmission line facilities would be located within existing SDG&E Right-of-Way or within franchise position within existing public roadways.

During the initial planning phases of the Proposed Project, a 500-foot wide BSA was designated, and all biological studies associated with the Proposed Project were conducted within the BSA, including the original jurisdictional delineation conducted by EI and summarized in the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014).

Since the initial biological studies were conducted within the original BSA, several new areas have been added to the Proposed Project, including the Encina Hub, Mira Mesa Hub, several staging yards and stringing sites, various access roads, and other work areas. Additional biological surveys, including a jurisdictional delineation, are required within the areas that were not included in the original BSA to adequately assess potential impacts associated with the implementation of the Proposed Project. These additional biological surveys are being conducted in 2015 and will be summarized in various technical reports once these surveys have been completed.

This memorandum focuses on the regulatory setting, methods, and results for the focused jurisdictional delineation that was performed for the newly added areas along the main Proposed Project alignment (Appendix A: Figures 1 through 4). This memorandum does not include the results of the jurisdictional delineation conducted at the Encina Hub, which were summarized in a separate supplemental jurisdictional delineation memorandum (BBS 2015). The jurisdictional delineation survey area for the newly added areas (new survey area) along the main Proposed Project alignment that are addressed in this memorandum are composed of the Proposed Project access roads with 20-foot survey buffers and the Proposed Project work areas with 50-foot survey buffers (Appendix A: Figures 2 through 4).

2.0 REGULATORY FRAMEWORK

A brief description of the regulatory framework of the USACE, RWQCB, CDFW, and the CCC is provided below.

2.1 U.S. Army Corps of Engineers

USACE regulates the discharge of dredged and/or fill material, both temporary and permanent, into waters of the U.S. and wetland waters of the U.S., pursuant to Section 404 of the Clean Water Act (CWA). USACE waters of the U.S. are delineated by the

lateral and upstream/downstream extent of the ordinary high watermark (OHWM). USACE wetland waters of the U.S. are defined using three parameters including wetland hydrology, hydric soils, and hydrophytic vegetation**.**

It should be noted that vernal pools are classified as "problem areas" because one or more of the three wetland parameters may be lacking due to the seasonal filling and drying that is characteristic of vernal pools (USACE 1987). USACE takes jurisdiction over vernal pools when a hydrologic connection to a downstream Traditional Navigable Waters (TNW) is demonstrated.

2.2 Regional Water Quality Control Board

RWQCB regulates discharge of dredged and/or fill material into waters of the State and wetland waters of the State pursuant to Section 401 of the CWA and/or Section 13000 *et. seq.* of the California Water Code under the Porter-Cologne Water Quality Control Act. RWQCB waters of the State and wetland waters of the State regulated under Section 401 of the CWA are all areas defined as USACE waters of the U.S. and wetland waters of the U.S. If a potential vernal pool meets the USACE wetland criteria, but is considered an isolated water by the USACE, the RWQCB asserts jurisdiction under the Porter Cologne Act.

2.3 California Department of Fish and Wildlife

CDFW regulates activities that would substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake, pursuant to Section 1600 *et. seq.* of the California Fish and Game Code. CDFW typically extends its jurisdictional limit to the top of a stream, the bank of a lake, or the outer edge of the riparian vegetation, whichever is wider. In addition, CDFW asserts jurisdiction over vernal pools only when California state threatened and/or endangered species (e.g., thread-leaved brodiaea [*Brodiaea filifolia*, FAC]) are present.

2.4 California Coastal Commission

CCC regulates the drilling, filling, or dredging of wetlands within the coastal zone, pursuant to Section 30000 *et. seq.* of the California Public Resource Code under the California Coastal Act. CCC takes jurisdiction over wetlands within the Coastal Zone with only one criterion (i.e., wetland hydrology, hydric soils, or hydrophytic vegetation) required to be present for jurisdiction to be asserted.

3.0 METHODS

BBS performed background research, field work associated with the jurisdictional delineation, and a focused basin assessment to identify all potentially jurisdictional areas that are located in the new portions of the Proposed Project. The methods used are summarized, below.

3.1 Background Research

Prior to conducting the field survey, BBS conducted a desktop assessment for drainages and other aquatic resources. This desktop review consisted of a review of the *Jurisdictional Delineation of San Diego Gas & Electric's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014), U.S. Geological Survey 7.5-minute Del Mar and Poway topographic quadrangles containing the site, the U.S. Fish and Wildlife Service National Wetlands Inventory maps, and the U.S. Department of Agriculture Natural Resources Conservation Service Web Soil Survey and National List of Hydric Soils.

3.2 Jurisdictional Delineation

The field surveys were conducted using comparable techniques outlined in the EI jurisdictional delineation report (EI 2014) and the technical guidelines in the USACE *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (Version 2.0; USACE 2008). In addition, other potential jurisdictional features were identified pursuant to criteria outlined in Section 1600 *et. seq.* of the California Fish and Game Code for CDFW jurisdictional areas and pursuant to the California Code of Regulations Title 14 for CCC wetlands. All USACE data sheets are included in Appendix B.

3.3 Basin Assessment

BBS also conducted a separate, focused basin assessment of the new survey areas that are outside of the "No Drive Zone", and within all vernal pools, road ruts, and unclassified basins that were previously identified by EI (2014) and during Scott McMillan's County-wide vernal pool mapping (2009, 2010, 2011). In addition, BBS also assessed basins identified incidentally while assessing the known basins within the original BSA; however, BBS did not conduct a comprehensive survey for basins within the entire original BSA because these areas had already been surveyed by EI (2014) and contained data from Scott McMillan's County-wide vernal pool mapping (2009, 2010, 2011).

The basin assessment was conducted to identify all depressions within or immediately adjacent to the Proposed Project impact area that were inundated or appeared to have the potential to stay inundated under wet conditions based on microtopography, surface soil cracking, changes in vegetation, and/or presence of vernal pool obligate species. All of the depressions identified by BBS during this assessment were mapped and labeled as "basins". In addition, all vernal pools, road ruts, and unclassified basins that were previously identified by EI (2014) and Scott McMillan's County-wide vernal pool mapping (2009, 2010, 2011) were added to this data set and also labeled as "basins".

All of the basins included in this data set were visited following a March 2015 rain event. The intent of this visit was to verify the location of these basins and collect preliminary data on these basins within the alignment, such as estimated maximum depths, widths, and lengths; habitat conditions; disturbance types and amounts; aquatic species and fairy shrimp species detected.

Because the jurisdictional delineation, focused basin assessment in the new survey area, and the initial visit to all basins were conducted before many vernal pool obligate species would have emerged, these basins could not be classified as vernal pools or road ruts at the time of these surveys. Therefore, focused vernal pool indicator plant surveys of these basins are currently being conducted during spring 2015. The intent of the focused spring 2015 vernal pool indicator plant surveys is to classify the plants within each basin and identify vernal pool indicator species within these basins. The data collected during these surveys will be used to classify the basins as vernal pools, road ruts, or detention basins.

The results of the focused basin assessment and vernal pool indicator plant surveys, including boundary and jurisdictional maps of all positively identified vernal pools, will be provided in a separate report once the vernal pool indicator plant surveys have been completed. In addition, focused, protocol-level fairy shrimp surveys may be conducted within these basins to determine if they support listed fairy shrimp species to determine appropriate jurisdiction.

4.0 RESULTS

BBS biologist Darin Busby and Trestles Environmental Corporation biologist Julie Fontaine conducted the jurisdictional delineation of the new survey areas on February 16 and 20, 2015. The jurisdictional delineation focused on the new survey areas that encompass the new Proposed Project access roads with 20-foot survey buffers and the new Proposed Project work areas with 50-foot survey buffers (Appendix A: Figures 2 through 3). The results of this jurisidctional delineation are provided, below.

In March 2015, a focused basin assessment was conducted to identify and assess basins within the new survey areas as well as to locate and assess all known vernal pools, road ruts, and unclassified basins that were previously detected and mapped within the original BSA (EI 2014; McMillan 2009, 2010, 2011). In addition, BBS assessed basins identified incidentally while assessing the known basins within the original BSA; however, BBS did not conduct a comprehensive survey for basins within the entire original BSA because these areas had already been surveyed by EI (2014) and contained data from Scott McMillan's County-wide vernal pool mapping (2009, 2010, 2011). BBS also did not conduct a basin assessment within the "No Drive Zone" (see Appendix A: Figure 3, Pages 11 and 12) portion of Del Mar Mesa Preserve, despite the presence of numerous vernal pools and road ruts in this area.

In April 2015, early spring vernal pool indicator plant surveys were conducted to classify the plants within each basin and identify vernal pool indicator species within these basins. An additional late spring vernal pool indicator plant surveys will be collected to identify any other vernal pool indicator plant species in these basins that weren't identified during the first survey. The results of the basin assessment and vernal pool indicator plant surveys will be provided in a separate report, once the second round of vernal pool indicator plant surveys are completed in late spring 2015.

A general description of the land use and vegetation, topography and hydrology, and soils within the new survey area is provided in Section 4.1. A more detailed discussion of each jurisdictional feature, including a summary of the vegetation, soils, and hydrology data is provided in Sections 4.2. Section 4.3 provides a general description of the potential vernal pools, road ruts, and unclassified basins, with the jurisdictional status of these features to be provided in a separate report at a later date once the final vernal pool indicator plant survey has been conducted and the results have been analyzed. Section 4.4 describes the exempt non-jurisdictional erosional features and concrete v-ditches within the new survey area. Section 4.5 provides a summary of the jurisdictional features within the new survey area.

4.1 General Description of New Survey Area

This section provides a general description of the land use and vegetation, topography and hydrology, and soils within the new survey area.

Land Use and Vegetation

Land use within the new survey area consists primarily of undeveloped land, residential communities, and natural preserve lands. The new survey area is dominated by the following vegetation communities and land cover types: Diegan coastal sage scrub, disturbed Diegan coastal sage scrub, revegetated coastal sage scrub, chamise chaparral, southern mixed chaparral, scrub oak chaparral, nonnative grassland, developed lands, ornamental, and bare ground. Other vegetation communities and land cover types present in smaller proportions throughout the new survey area include, but are not limited to, southern riparian scrub, southern willow scrub, southern coast live oak riparian forest, mulefat scrub, tamarisk scrub, eucalyptus woodland, revegetated alkali marsh, freshwater marsh, open water, San Diego mesa vernal pool, native grassland, coastal sage – chaparral scrub, disturbed chamise chaparral, disturbed southern mixed chaparral, and disturbed habitat (Appendix A: Figure 3).

Topography and Hydrology

Elevations with the new survey area range from approximately 1,000 feet above mean sea level (amsl) at Sycamore Canyon Substation in the eastern portion of the original BSA to approximately 120 feet amsl in an unnamed tributary to Peñasquitos Creek, which is located approximately 1 mile east of the Peñasquitos Substation in the

western portion of the original BSA (Appendix A: Figure 2). The new survey area crosses through a network of roads and highways, mixed-use development, parks, and undeveloped open space. Topography along the new survey area varies from relatively flat developed and undeveloped areas, to steep and rolling hills and ridges, to wide and narrow drainages and canyons. The new survey area crosses through and/or adjacent to several unnamed and named drainages and canyons, including three named blue-line drainages as depicted on the USGS topographic maps, including Peñasquitos Canyon, McGonigle Canyon, and Deer Canyon (Appendix A: Figure 2).

The new survey area crosses through a variety of habitats and land uses, from undeveloped natural areas where drainage hydrology is relatively intact and undisturbed, to urbanized areas where local hydrology and drainage patterns have been significantly altered. Surface water runoff within the new survey area appears to be captured predominantly by perennial creeks and underground storm water systems associated with the urban developments.

Soils

A full list and description of the soil types found in the original BSA is provided in Appendix B in the jurisdictional delineation report that was prepared by EI for the original BSA (EI 2014). Seven soil types occur within the new survey area, including Redding cobbly loam, dissected, 15 to 50 percent slopes; Redding gravelly loam, 2 to 9 percent slopes; Auld stony clay, 9 to 30 percent slopes; San Miguel-Exchequer rocky silt loams, 9 to 70 percent slopes; Terrace escarpments; Olivenhain cobbly loam, 2 to 9 percent slopes; and Riverwash (NRCS 2015a). Only one of these soil types, Riverwash, is listed as a hydric soil by the Natural Resources Conservation Services (NRCS 2015b).

The basins within the original BSA and new survey areas occur within a variety of soil types, some of which are known to historically support vernal pools. Vernal pools in cismontane San Diego County are confined primarily to low-slope phases of seven soil series, including Carlsbad, Chesterton, Huerhuero, Olivenhain, Placentia, Redding and Stockpen (Bauder and McMillan 1998). Of these seven soil series, 41 of the 65 (i.e., Basins 14 through 54) identified basins within the original BSA and new survey areas occur within and adjacent to two of these soil types (i.e., Redding gravelly loam, 2 to 9 percent slopes, and Olivenhain cobbly loam, 9 to 30 percent slopes), which occur within the vicinity of the Del Mar Mesa Preserve area in the western portion of the Proposed Project alignment (Appendix A: Figure 3, Pages 4 through 13).

4.2 Description of Jurisdictional Features

A total of ten new jurisdictional features occur within the new survey area. The majority of the jurisdictional features identified during the jurisdictional delineation were continuations of jurisdictional features previously identified by EI during their

jurisdictional delineation within the original 500-foot wide BSA for the main Proposed Project alignment (EI 2014). Because these jurisdictional features have already been described in the corresponding Jurisdictional Delineation of San Diego Gas & Electric's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project (EI 2014), these features will only be briefly described in the sections below. The boundaries and jurisdictions of these jurisdictional features are depicted in Figure 3 (Appendix A), the detailed USACE data forms for Sample Points 1 and 2 are provided in Appendix B (USACE Data Forms), and photographs of the features are provided in Appendix C (Site Photographs).

Feature 7: Tributary To Peñasquitos Creek 6

Feature 7 is an unnamed ephemeral drainage that originates at a culvert adjacent to the dirt access road and travels south to connect to Los Peñasquitos Creek, a blue-line drainage depicted on USGS topographic maps that eventually connects to Los Peñasquitos Lagoon and the Pacific Ocean (Appendix A: Figure 3, Page 9). This feature was dry at the time of the survey but apears to receive infrequent moderate to high velocities flows during and directly after storm events, as evident by the presence hard sands and cobbles, shelving, and/or scouring at the OHWM. This feature is dominated by upland vegetation and contains Redding gravelly loam, 2 to 9 percent slopes. Downstream and contiguous portions of Feature 7 were previously identified during the jurisdictional delineation conducted by EI; therefore, a detailed description of vegetation, soils, and hydrology within Feature 7 is provided in Section 4.4.7 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014).

Feature 7 contains a total of approximately <0.01 acre of USACE waters of the U.S. and RWQCB waters of the State and approximately <0.01 acre of CDFW unvegetated streambed (Table 1). The location and jurisdictional boundaries of this feature are provided in Appendix A (Figure 3, Page 9) and a photograph of this feature is provided in Appendix C (Photograph 1).

Feature 10: Tributary To Peñasquitos Creek 9

Feature 10 is composed of two unnamed ephemeral drainages that originate west of the dirt access road, cross the dirt access road, and then connect into one unnamed ephemeral drainage that travels south to connect to Los Peñasquitos Creek, a blue-line drainage depicted on USGS topographic maps that eventually connects to Los Peñasquitos Lagoon and the Pacific Ocean (Appendix A: Figure 3, Page 11). This feature was dry at the time of the survey but apears to receive infrequent moderate to high velocities flows during and directly after storm events, as evident by the presence of hard sands and cobbles, shelving, sediment sorting, deposition and/or scour at the OHWM. This feature is dominated by dense, upland vegetation and contains terrace escarpments soils. Downstream and contiguous portions of Feature 10 were previously

Table 1. Summary of Total Jurisdiction by Feature Number and Regulatory Agency

Feature Number	USACE				CDFW				RWQCB				CCC Wetland	
	Wetland WoUS		WoUS		Riparian		US		Wetland WoS		WoS			
	acre*	linear feet	acre*	linear feet	acre*	linear feet	acre*	linear feet	acre*	linear feet	acre	linear feet	acre	linear feet
7	-	-	<0.01	10.00	-	-	<0.01	10.00	-	-	<0.01	10.00	-	-
10	-	-	0.01	132.00	-	-	0.01	132.00	-	-	0.01	132.00	-	-
11	-	-	<0.01	15.00	-	-	<0.01	15.00	-	-	<0.01	15.00	-	-
15	0.07	165.76	0.01	51.00	0.14	339.90	-	-	0.07	165.76	0.01	51.00	-	-
18	-	-	<0.01	24.10	-	-	<0.01	24.10	-	-	<0.01	24.10	-	-
21	-	-	0.01	180.00	-	-	0.01	180.00	-	-	0.01	180.00	-	-
22	-	-	0.01	97.50	-	-	0.01	97.50	-	-	0.01	97.50	-	-
27	-	-	-	-	0.10	215.34	-	-	-	-	-	-	-	-
28	0.05	165.40	-	-	0.12	413.25	-	-	0.05	165.40	-	-	-	-
32	-	-	0.04	289.26	0.04	163.00	0.04	289.26	-	-	0.04	289.26	-	-
Total**	**0.13**	**331.16**	**0.08**	**798.86**	**0.40**	**1,131.49**	**0.07**	**747.86**	**0.13**	**331.16**	**0.08**	**798.86**	**-**	**-**

*Acreages are approximate and rounded to the nearest hundredth of an acre.
**Totals represent actual totals without rounding error.

Wetland WoUS = Wetland waters of the U.S.
WoUS = Waters of the U.S.
Wetland WoS = Wetland waters of the State
WoS = Waters of the State
US = Unvegetated Streambed

identified during the jurisdictional delineation conducted by EI; therefore, a detailed description of vegetation, soils, and hydrology within Feature 10 is provided in Section 4.4.10 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014).

Feature 10 contains a total of approximately 0.01 acre of USACE waters of the U.S. and RWQCB waters of the State and approximately 0.01 acre of CDFW unvegetated streambed (Table 1). The location and jurisdictional boundaries of this feature are provided in Appendix A (Figure 3, Page 11) and photographs of this feature are provided in Appendix C (Photographs 2 – 3).

Feature 11: Tributary To Deer Canyon 1

Feature 11 is an unnamed ephemeral drainage that originates adjacent to the dirt access road and travels northwest to eventually connect to Deer Canyon Creek, McGonigle Canyon Creek, and Carmel Creek, all of which are blue-line drainages depicted on USGS topographic maps that connect to Los Peñasquitos Lagoon and the Pacific Ocean (Appendix A: Figure 3, Page 11). This feature was dry at the time of the survey but apears to receive infrequent moderate velocities flows during and directly after storm events, as evident by the presence of hard sands and cobbles, a defined bed and bank, shelving, and/or scour at the OHWM. This feature is dominated by dense, upland vegetation and contains Redding gravelly loam, 2 to 9 percent slopes. Downstream and contiguous portions of Feature 11 were previously identified during the jurisdictional delineation conducted by EI; therefore, a detailed description of vegetation, soils, and hydrology within Feature 11 is provided in Section 4.4.11 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014).

Feature 11 contains a total of approximately <0.01 acre of USACE waters of the U.S. and RWQCB waters of the State and approximately <0.01 acre of CDFW unvegetated streambed (Table 1). The location and jurisdictional boundaries of this feature are provided in Appendix A (Figure 3, Page 11) and a photograph of this feature is provided in Appendix C (Photograph 4).

Feature 15: McGonigle Canyon Creek

Feature 15 is part of a braided, low-gradient riparian drainage that is dominated by southern willow scrub, mulefat scrub, and eucalyptus woodland (Appendix A: Figure 3, Page 13). This feaure is part of McGonigle Canyon Creek which originates from the east and connects to Carmel Creek offisite to the west, both of which are blue-line drainages depicted on USGS topographic maps that connect to Los Peñasquitos Lagoon and the Pacific Ocean. Although this drainage was dry at the time of the survey, the drainge appears to receive intermittent high-velocity flows, as evident by sediment deposits, shelving, scour, vegetation destruction, drainage patterns, water marks, and/or disturbed leaf litter at the OHWM. An existing dirt access road occurs

within and adjacent to this feature. The dirt access road travels directly through a braided offshoot section of the main drainage and over the main drainage, where flows are conveyed through three culverts beneath the access road. Salinas clay loam, 2 to 9 percent slopes, is the dominant soil type present within Feature 15 and McGonigle Canyon Creek.

Upstream and contiguous portions of Feature 15 were previously identified during the jurisdictional delineation conducted by EI; therefore, a detailed description of vegetation, soils, and hydrology within Feature 15 is provided in Section 4.4.15 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014). However, it should be noted that upstream portions of Feature 15 within and adjacent to the areas previously delineated by EI do not satisfy the hydrophytic vegetation or hydric soils criterion. These upstream areas are dominated by bluegum eucalyptus (*Eucalyptus globulus*, UPL), with patches arroyo willow, mule fat, and sugar bush, and contain substrates dominated by upland soils with a restrictive layer of dense cobbles and packed sand.

Feature 15 contains a total of approximately 0.07 acre of USACE wetland waters of the U.S. and RWQCB wetland waters of the State, approximately 0.01 acre of USACE waters of the U.S. and RWQCB waters of the State, and approximately 0.14 acre of CDFW riparian (Table 1). The location and jurisdictional boundaries of this feature are provided in Appendix A (Figure 3, Page 13), and the detailed USACE data form for Sample Point 1 is provided in Appendix B (USACE Data Forms), and photographs of this feature are provided in Appendix C (Photographs 5 – 6).

Feature 18: Tributary to McGonigle Canyon Creek 3

Feature 18 is composed of six narrow erosional features that originate within the proposed Camino Del Sur Yard, drain into one unnamed ephemeral drainage onsite, which then travels offsite to the west (Appendix A: Figure 3, Page 15). This unnamed ephemeral drainage eventually connect to McGonigle Canyon Creek and Carmel Creek, both of which are blue-line drainages depicted on USGS topographic maps that connect to Los Peñasquitos Lagoon and the Pacific Ocean. This feature was dry at the time of the survey but apears to receive infrequent moderate to high velocities flows during and directly after storm events, as evident by the presence hard sands and cobbles, shelving, and/or scouring at the OHWM. This feature is dominated by upland vegetation and contains Olivenhain cobbly loam, 2 to 9 percent slopes. Downstream and contiguous portions of Feature 18 were previously identified during the jurisdictional delineation conducted by EI; therefore, a detailed description of vegetation, soils, and hydrology within Feature 18 is provided in Section 4.4.18 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014).

Feature 18 contains a total of approximately <0.01 acre of USACE waters of the U.S. and RWQCB waters of the State and approximately <0.01 acre of CDFW unvegetated

streambed (Table 1). The location and jurisdictional boundaries of this feature are provided in Appendix A (Figure 3, Page 15) and a photograph of this feature is provided in Appendix C (Photograph 7).

Feature 21: Tributary to La Zanja Canyon 2

Feature 21 is an unnamed ephemeral drainage that originates east of the dirt access road. The drainage travels under the dirt access roads through a series of culverts, and then travels west to eventually connect to La Zanja Canyon and San Dieguito River, both of which are blue-line drainages depicted on USGS topographic maps that connect to San Dieguito Lagoon and the Pacific Ocean (Appendix A: Figure 3, Page 18). This feature was dry at the time of the survey but apears to receive infrequent moderate to high velocities flows during and directly after storm events, as evident by the presence hard sands and cobbles, shelving, eroded bank, and/or scouring at the OHWM. This feature is dominated by dense, upland vegetation and contains San Miguel-Exchequer rocky silt loams, 9 to 70 percent slopes. Upstream and contiguous portions of Feature 21 were previously identified during the jurisdictional delineation conducted by EI; therefore, a detailed description of vegetation, soils, and hydrology within Feature 21 is provided in Section 4.4.21 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014).

Feature 21 contains a total of approximately 0.01 acre of USACE waters of the U.S. and RWQCB waters of the State and approximately 0.01 acre of CDFW unvegetated streambed (Table 1). The location and jurisdictional boundaries of this feature are provided in Appendix A (Figure 3, Page 18) and a photograph of this feature is provided in Appendix C (Photograph 8).

Feature 22: McGonigle Canyon Creek 5

Feature 22 is at the confluence of two unnamed ephemeral drainages that originate east of a dirt access road. The drainage continues across the road to the west using an Arizona crossing and then enters a culvert in a narrow basin off site to the west where it eventually connect to McGonigle Canyon Creek and Carmel Creek, both of which are blue-line drainages depicted on USGS topographic maps that connect to Los Peñasquitos Lagoon and the Pacific Ocean (Appendix A: Figure 3, Page 19). This feature was dry at the time of the survey and appears to receive infrequent moderate to high water velocities flows only during and directly after storm events as evident by the presence of hard sands and cobbles and a defined bed and bank at the OHWM. This feature is dominated by dense, upland vegetation and contains Auld stony clay, 9 to 30 percent slopes. Upstream and contiguous portions of Feature 22 were previously identified during the jurisdictional delineation conducted by EI; therefore, a detailed description of vegetation, soils, and hydrology within Feature 22 is provided in Section 4.4.22 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014).

Feature 22 contains a total of approximately 0.01 acre of USACE waters of the U.S. and RWQCB waters of the State and approximately 0.01 acre of CDFW unvegetated streambed (Table 1). The location and jurisdictional boundaries of this feature are provided in Appendix A (Figure 3, Page 19) and a photograph of this feature is provided in Appendix C (Photograph 9).

Feature 27: Tributary to Peñasquitos Creek 10

Feature 27 is an unnamed intermittent drainage dominated by southern willow scrub that originates southeast of the paved access road, travels north beneath the access roads through a large concrete culvert offsite, parallels the east side of the paved access road, and eventually connect to Los Peñasquitos Creek. In addtion, a concrete spillway along the access road channels nuissance flows into this drainage. The unnamed intermittent drainage and Los Peñasquitos Creek are both blue-line drainages depicted on USGS topographic maps that connect to Los Peñasquitos Lagoon and the Pacific Ocean (Appendix A: Figure 3, Page 24). USACE data sheets were not completed and soil pits were not excavated within this feature because the new survey area occurs only beaneath the outer edges of the riparian canopy, outside of the drainage bottom and the OHWM where hydrophytic vegetation (i.e., *Salix* sp., etc.) and hydrology (i.e., vegetation destruction, disturbed leaf litter, shelving, scour, and sediment sorting at the OHWM) are present. The presence of hydrophytic vegetation and hydrology in the drainage bottom outside of the survey area indicate that hydric soils, and USACE wetland waters of the U.S. and RWQCB wetland waters of the State, may also be present in this area. San Miguel-Exchequer rocky silt loams, 9 to 70 percent slopes (non-hydric) is the dominant soil type mapped within Feature 27. Upstream and contiguous portions of Feature 27 were previously identified during the jurisdictional delineation conducted by EI; therefore, a detailed description of vegetation, soils, and hydrology within Feature 27 is provided in Section 4.4.27 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014).

Feature 27 contains a total of approximately 0.10 acre of CDFW riparian (Table 1). The location and jurisdictional boundaries of this feature are provided in Appendix A (Figure 3, Page 24) and a photograph of this feature is provided in Appendix C (Photograph 10).

Feature 28: Los Peñasquitos Creek

Feature 28 is a braided riparian drainage that is dominated by southern riparian scrub, southern coast live oak riparian forest, mulefat scrub, and fresh water marsh (Appendix A: Figure 3, Page 22). This feaure is part of Los Peñasquitos Creek, a blue-line drainage depicted on USGS topographic maps that connects to Los Peñasquitos Lagoon and the Pacific Ocean. This feature contained flowing water at the time of the survey and showed strong evidence of high-velocity flows (i.e., sediment deposits, shelving, scouring, debris jams, vegetation destruction, and disturbed leaf litter at the

OHWM). Upstream and contiguous portions of Feature 28 were previously identified during the jurisdictional delineation conducted by EI; therefore, a detailed description of vegetation, soils, and hydrology within Feature 28 is provided in Section 4.4.28 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014).

Feature 28 contains a total of approximately 0.05 acre of USACE wetland waters of the U.S. and RWQCB wetland waters of the State and approximately 0.12 acre of CDFW riparian (Table 1). The location and jurisdictional boundaries of this feature are provided in Appendix A (Figure 3, Page 22), the detailed USACE data form for Sample Point 2 is provided in Appendix B (USACE Data Forms), and a photograph of this feature is provided in Appendix C (Photograph 11). A USACE data sheet was completed for this feature but soil pits were not excavated within this feature because the new survey area consists of a proposed access road along a bridge that spans the entire width of this feature within Los Peñasquitos Creek; therefore, no impacts to this feature are anticipated from the proposed project.

Feature 32: Tributary to Beeler Creek 1

Feature 32 is composed of two unnamed intermittent drainages and one unnamed ephemeral drainage. The unnamed drainages travel north to eventually connect to Beeler Creek and Los Peñasquitos Creek, all of which are blue-line drainages depicted on USGS topographic maps that eventually connect to Los Peñasquitos Lagoon and the Pacific Ocean (Appendix A: Figure 3, Pages 27 and 28). This feature was dry at the time of the survey and it appears to receive infrequent moderate to high water velocities flows only during and directly after storm events as evident by the presence of hard sands and cobbles, a defined bed and bank, scouring, shelving, and/or erosion at the OHWM. The drainages within this feature are dominated by dense, upland vegetation and contain Redding cobbly loam, dissected, 15 to 50 percent slopes. Upstream and contiguous portions of Feature 32 were previously identified during the jurisdictional delineation conducted by EI; therefore, a detailed description of vegetation, soils, and hydrology within Feature 32 is provided in Section 4.4.32 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014).

Feature 32 contains a total of approximately 0.04 acre of USACE waters of the U.S. and RWQCB waters of the State, approximately 0.04 acre of CDFW unvegetated streambed, and approximately 0.04 acre of CDFW riparian (Table 1). The location and jurisdictional boundaries of this feature are provided in Appendix A (Figure 3, Pages 27 and 28) and a photograph of this feature is provided in Appendix C (Photographs 12 – 14).

4.3 Description of Potential Vernal Pools, Road Ruts, and Unclassified Basins

Sixty-five basins were identified within the original BSA and new survey area, with the exception of the "No Drive Zone". All depressions in access roads that were inundated or appeared to have the potential to stay inundated under wet conditions based on microtopography, surface soil cracking, compacted sand and/or clay substrates, changes in vegetation, biotic crust, and/or presence of vernal pool obligate species were labeled as "basins". The basins are filled or appear to be filled from direct precipitation and/or overland sheetflow from adjacent uplands. Data from the focused basin surveys and data collected on vernal pool indicator plant species during the focused vernal pool indicator plant surveys will be used to classify the basins as vernal pools, road ruts, and/or fairy shrimp habitat. The jurisdictional status of these basins will be presented in a separate report at a later date once the final focused vernal pool indicator plant survey is performed and the results are analyzed.

A portion of these 65 vernal pools, road ruts, and unclassified basins were identified during the jurisdictional delineation conducted by EI and a description of these are provided in Section 4.5 of the *Jurisdictional Delineation of SDG&E's Sycamore to Peñasquitos 230 Kilovolt Transmission Line Project* (EI 2014). However, several more basins were identified by BBS during the focused basin assessment, some of which had been previoulsy identified by Scott McMillan (2009, 2010, 2011). Twelve of the 65 basins identified during the focused basin assessment were inundated at the time of the assessment. These basins were located throughout the alignment. Seven of the 12 inundated basins (i.e., Basins 15, 19, 28, 35, 36, 39, and 54) are located adjacent to known vernal pool complexes within the vicinity of the Del Mar Mesa Preserve area in the western portion of the Proposed Project alignment (Appendix A: Figure 3, Pages 4, 5, 8, 9, 10, and 12). A detailed description and jurisdictional determination of these basins will be provided in a separate report once the results of the second focused vernal pool indicator plant survey are analyzed. Several photographs of these basins are provided in Appendix C (Photographs 15 – 19) and the location and of these basins are provided on various pages in Appendix A (Figure 3).

4.4 Description of Exempt, Non-jurisdictional Features

A total of approximately 8,913 linear feet of exempt, non-jurisdictional concrete v-ditches are present within the new survey area (Appendix A: Figure 3). The USACE and other regulatory agencies generally do not assert jurisdiction over concrete v-ditches, which are considered municipal separate storm sewer systems (MS4) erosion control features. The concrete v-ditches within the survey area have been built in uplands to capture erosional runoff from the surrounding dirt access roads and power line tower pads and transmit it to the municipal storm sewer system. A representative photograph of a v-ditch is provided in Appendix C (Photograph 20).

In addition, several exempt, non-jurisdictional detention basins, swales, ditches, and erosional features occur within the new survey area. The the USACE and other regulatory agencies generally do not assert jurisdiction over naturally occuring or man made erosional features, non-tidal drainage ditches, gullies, small washes, and swales that are characterized by low volume and infrequent or short duration flows. Riprap, waterbars, and fiber rolls have been placed in some portions of these erosional features to provide erosion control support. A photograph of a riprap-lined swale is provided in Appendix C (Photograph 21).

4.5 Summary of Jurisdictional Features

A summary of the acreage, itemized by regulatory agency and vegetation community, is provided in Table 2.

USACE Jurisdiction

A total of nine features that are under the jurisdiction of USACE were identified within the survey area. Of these nine features, two features have a total of approximately 0.12 acre (approximately 331.16 linear feet) of USACE wetland waters of the U.S., and seven features have a total of approximately 0.08 acre (approximately 798.86 linear feet) of USACE waters of the U.S.

RWQCB Jurisdiction

A total of nine features that are under the jurisdiction of RWQCB were identified within the survey area. Of these nine features, two features have a total of approximately 0.12 acre (approximately 331.16 linear feet) of RWQCB wetland waters of the State, and seven features have a total of approximately 0.08 acre (approximately 798.86 linear feet) of RWQCB waters of the State.

CDFW Jurisdiction

A total of ten features that are under the jurisdiction of CDFW were identified within the new survey area. Of these ten features, four features have a total of approximately 0.40 acre (approximately 1,131.49 linear feet) of CDFW riparian and seven features have a total of approximately 0.37 acre (approximately 845.56 linear feet) of CDFW unvegetated streambed.

CCC Jurisdiction

None of the features are under the jurisdiction of the CCC since all features within the new survey area are outside of the coastal zone. The jurisdictional status of Basins 20 through 34 within the coastal zone will be presented in a separate report at a later date once the final focused vernal pool indicator plant survey is performed and the results are analyzed.

Table 2. Summary of Total Jurisdiction by Regulatory Agency and Vegetation Community

Regulatory Agency	Total Acres*	Total Linear Feet	Dominant Vegetation Type (acre*)												
			Bare Ground	Chamise Chaparral	Coastal Sage Scrub - Revegetated	Diegan Coastal Sage Scrub	Diegan Coastal Sage Scrub - Disturbed	Developed Land	Disturbed Habitat	Mulefat Scrub	Nonnative Grassland	Southern Coast Live Oak Riparian Forest	Southern Mixed Chaparral	Scrub Oak Chaparral	Southern Riparian Scrub
USACE															
Wetland WoUS	0.12	331.16	0.01	-	-	-	-	-	-	0.06	-	-	-	-	0.05
WoUS	0.08	798.86	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	-	-	0.04	<0.01	<0.01	0.01
Total USACE**	0.20	1,130.02	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.06	-	0.04	<0.01	<0.01	0.06
RWQCB															
Wetland WoS	0.12	331.16	0.01	-	-	-	-	-	-	0.06	-	-	-	-	0.05
WoS	0.08	798.86	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	-	-	0.04	<0.01	<0.01	0.01
Total RWQCB**	0.20	1,130.02	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.06	-	0.04	<0.01	<0.01	0.06
CDFW															
Riparian	0.40	1,139.49	0.01	-	-	-	-	-	-	0.15	-	-	-	-	0.24
US	0.37	845.56	0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.01	-	-	0.33	<0.01	<0.01	-
Total CDFW**	0.77	1,985.05	0.02	0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.15	-	0.33	<0.01	<0.01	0.24
CCC															
Total CCC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*Acreages are approximate and rounded to the nearest hundredth of an acre.
**Totals represent actual totals without rounding error.

Wetland WoUS = Wetland waters of the U.S.
WoUS = Waters of the U.S.
Wetland WoS = Wetland waters of the State
WoS = Waters of the State
US = Unvegetated Streambed

5.0 CONCLUSION/DISCUSSION

Any anticipated Proposed Project impacts to the jurisdictional features presented in this memorandum would require the appropriate permit authorizations from the corresponding regulatory agency.

Because the jurisdictional delineation, focused basin assessment, and the initial visit to all basins were conducted before many vernal pool indicator species would have emerged, these basins could not be classified as vernal pools or road ruts at the time of these surveys, and therefore, their jurisdictional status could not be determined. Therefore, focused vernal pool indicator plant surveys of all basins are currently being conducted during spring 2015 and the results of all the data collected during the basin assessment and vernal pool indicator plant surveys will be used to classify the basins, as well as make a determination on their jurisdictional status. The basin assessment report will also provide other data, such as estimated maximum depths, widths, and lengths; habitat conditions; disturbance types and amounts; aquatic species and fairy shrimp species detected; vernal pool indicator plant species detected; and boundary and jurisdictional maps of all positively identified vernal pools.

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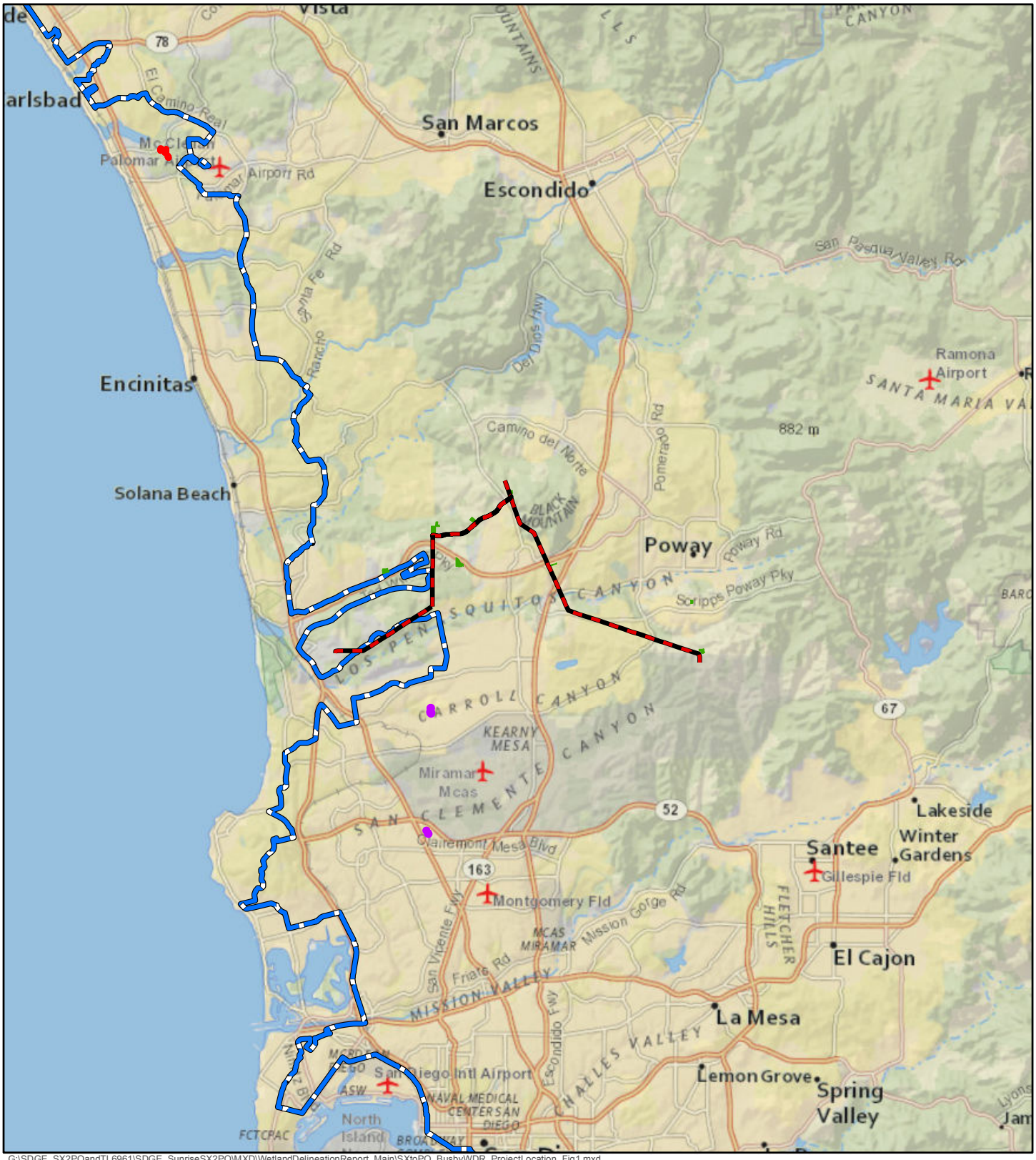
APPENDIX A: FIGURES



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Sycamore to Peñasquitos 230 kV Transmission Line Project

Project Location Map

Figure 1

- Proposed Project Route
- Staging Yards
- Encina Hub
- Mira Mesa Hub
- California Coastal Zone Boundary

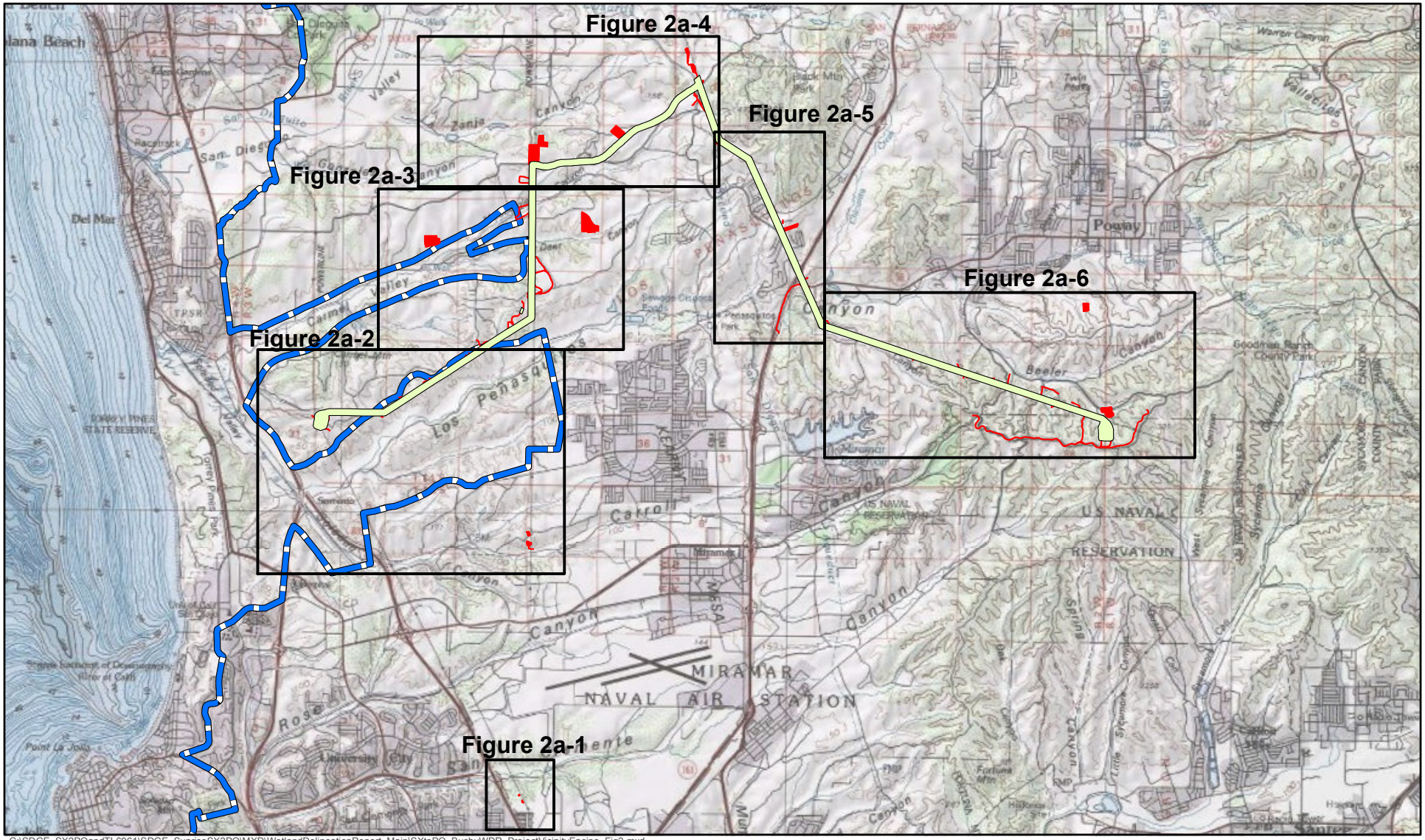
4/17/2015

0 2 4 6 Miles

TRC

SDGE

A Sempra Energy utility



Sycamore to Peñasquitos 230 kV Transmission Line Project

Proposed Project Vicinity Map

Figure 2

Original BSA

New Survey Area

California Coastal Zone Boundary

Sources: TRC, 2015; SDG&E, 2015, NatGeo, ESRI, DeLorme, HERE, UNEP-WCMC, USGS, NSA, ESA, METI, NOAA, iPC

N W E S

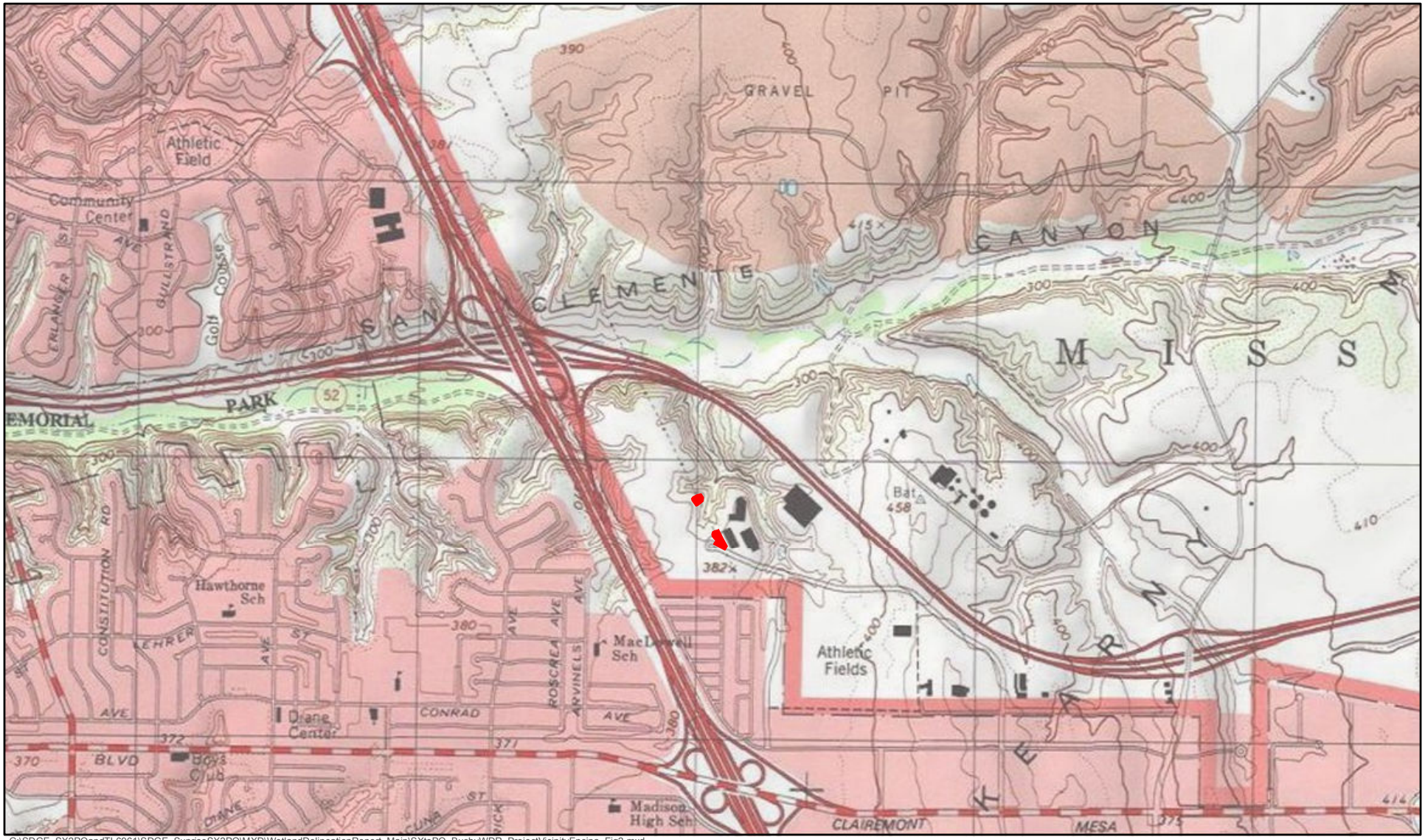
0 1 2 3 Miles

4/17/2015

TRC

SDGE

A Sempra Energy utility



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Sycamore to Peñasquitos 230 kV Transmission Line Project

Proposed Project Vicinity Map

Figure 2a-1

Original BSA

New Survey Area

California Coastal Zone Boundary

Sources: TRC, 2015; SDG&E, 2015, NatGeo, ESRI, DeLorme, HERE, UNEP-WCMC, USGS, NSA, ESA, METI, NOAA, iPC

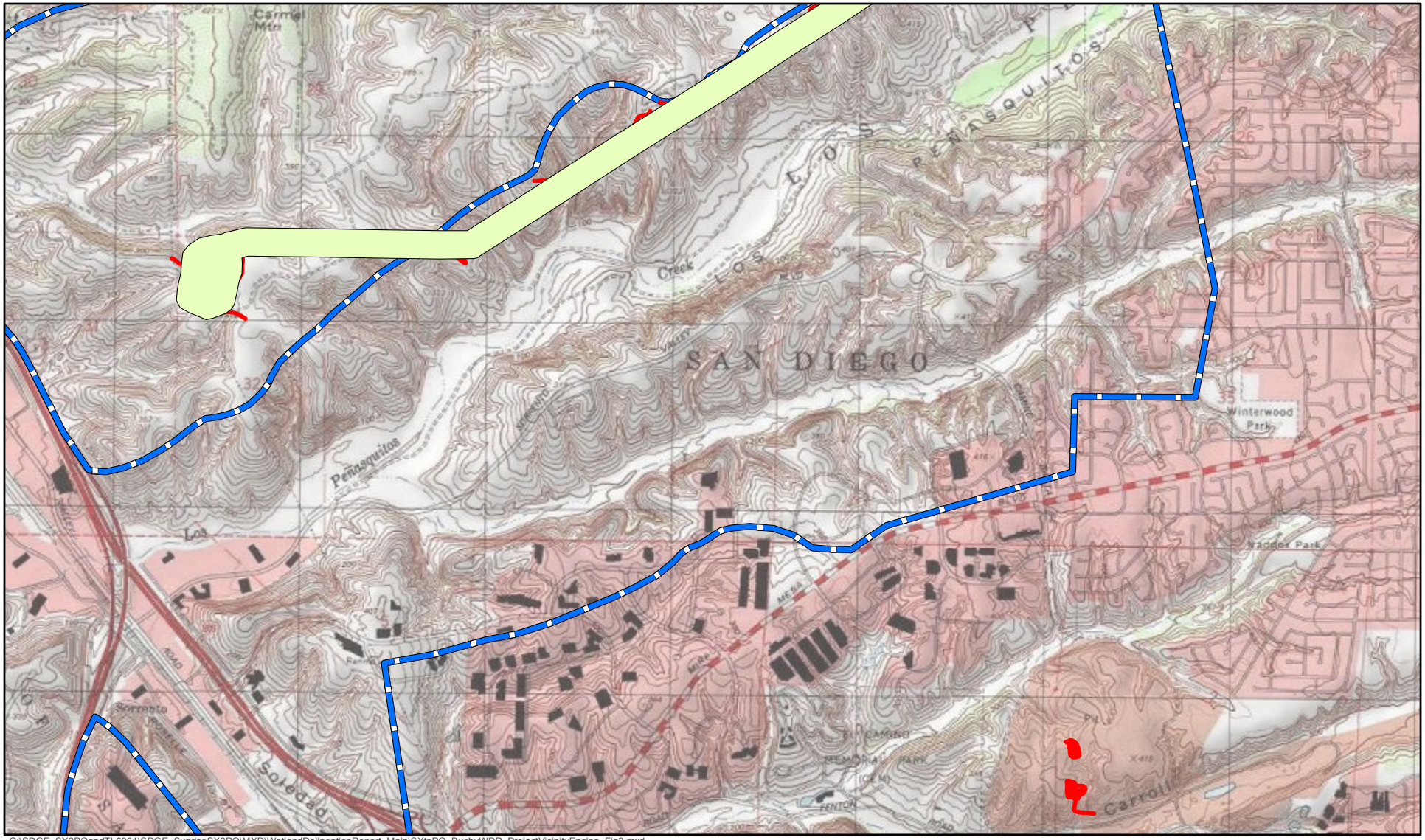
N W E S

0 0.15 0.3 0.45 Miles

4/17/2015

TRC

SDGE A Sempra Energy utility



Sycamore to Peñasquitos 230 kV Transmission Line Project

Proposed Project Vicinity Map

Figure 2a-2

Original BSA

New Survey Area

California Coastal Zone Boundary

Sources: TRC, 2015; SDG&E, 2015, NatGeo, ESRI, DeLorme, HERE, UNEP-WCMC, USGS, NSA, ESA, METI, NOAA, iPC

N W E S

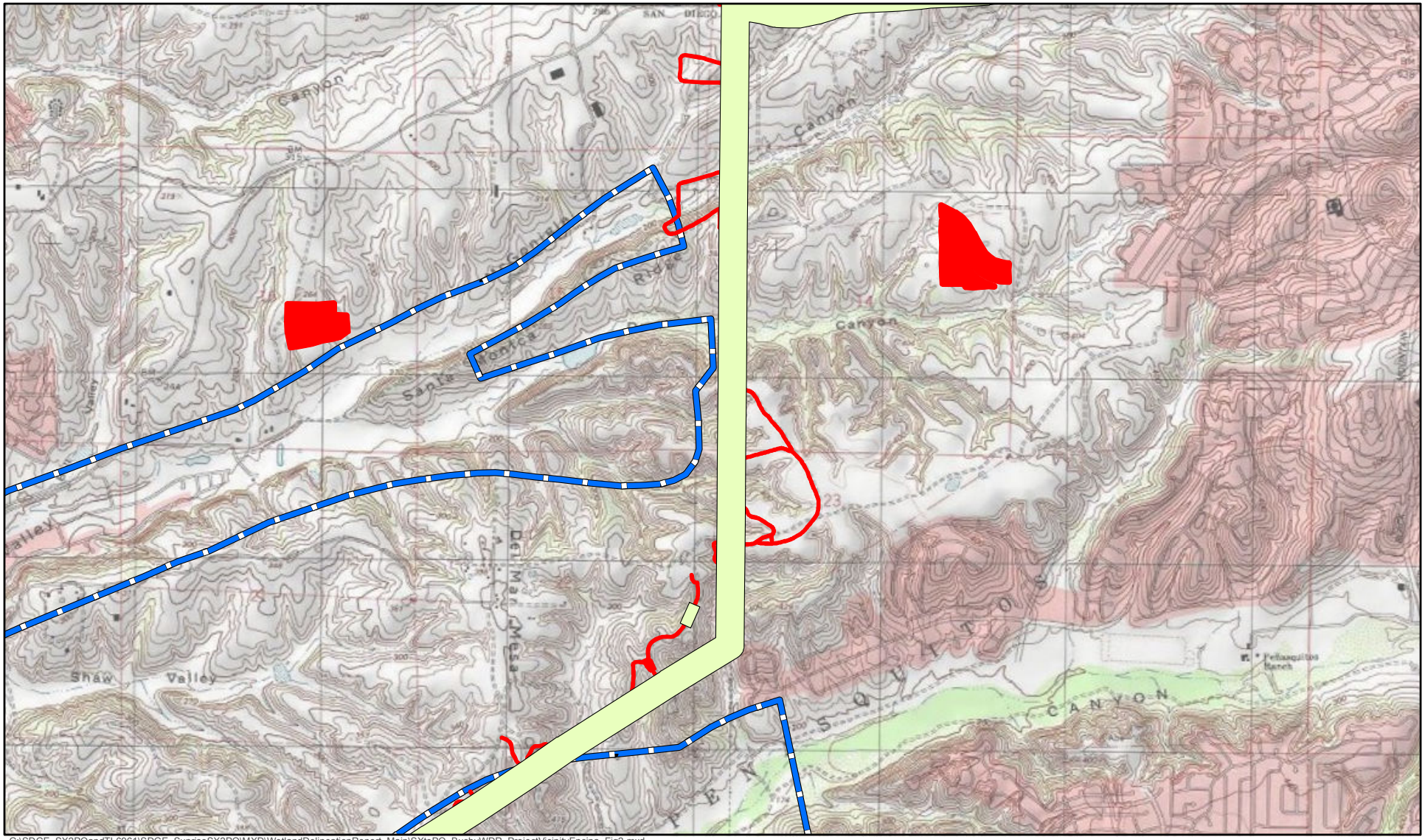
0 0.2 0.4 0.6 Miles

TRC

4/17/2015

SDGE

A Sempra Energy utility



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Sycamore to Peñasquitos 230 kV Transmission Line Project

Proposed Project Vicinity Map

Figure 2a-3

- Original BSA
- New Survey Area
- California Coastal Zone Boundary

Sources: TRC, 2015; SDG&E, 2015, NatGeo, ESRI, DeLorme, HERE, UNEP-WCMC, USGS, NSA, ESA, METI, NOAA, iPC

N W E S

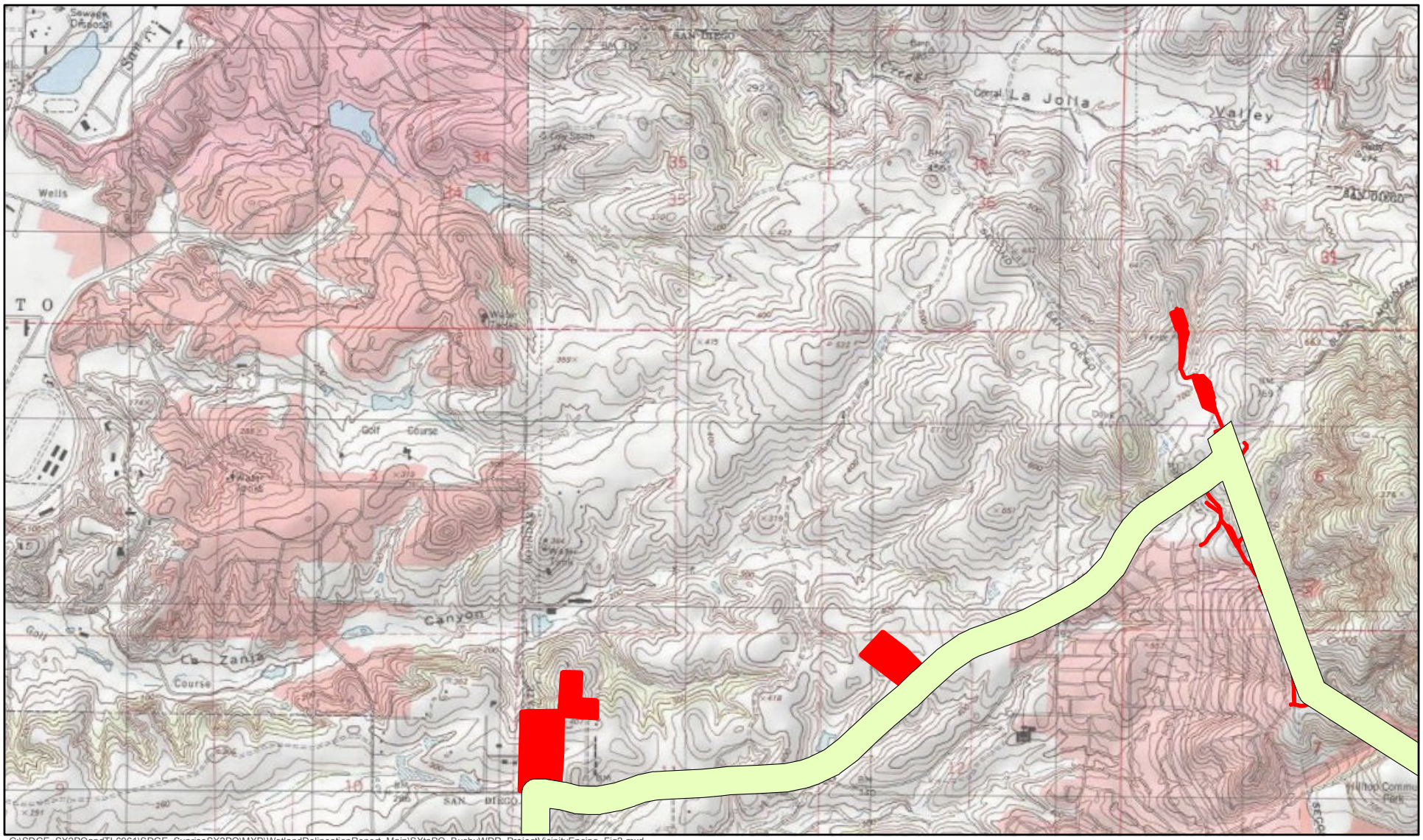
0 0.2 0.4 0.6 Miles

TRC

4/17/2015

SDGE

A Sempra Energy utility



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Sycamore to Peñasquitos 230 kV Transmission Line Project

Proposed Project Vicinity Map

Figure 2a-4

Original BSA

New Survey Area

California Coastal Zone Boundary

Sources: TRC, 2015; SDG&E, 2015, NatGeo, ESRI, DeLorme, HERE, UNEP-WCMC, USGS, NSA, ESA, METI, NOAA, iPC

N W E S

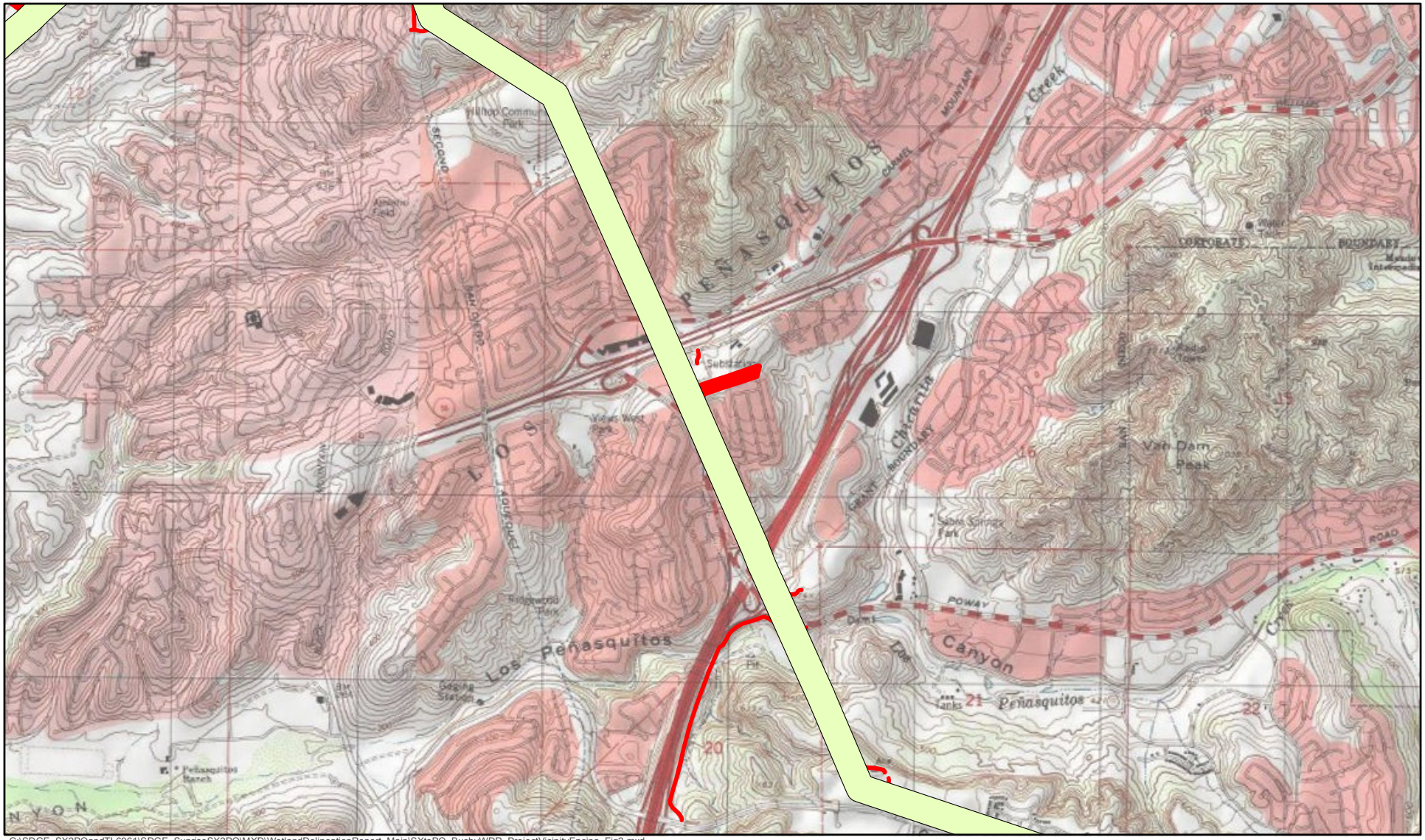
0 0.2 0.4 0.6 Miles

TRC

4/17/2015

SDGE

A Sempra Energy® utility



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Sycamore to Peñasquitos 230 kV Transmission Line Project

Proposed Project Vicinity Map

Figure 2a-5

- Original BSA
- New Survey Area
- California Coastal Zone Boundary

Sources: TRC, 2015; SDG&E, 2015, NatGeo, ESRI, DeLorme, HERE, UNEP-WCMC, USGS, NSA, ESA, METI, NOAA, iPC

N W E S

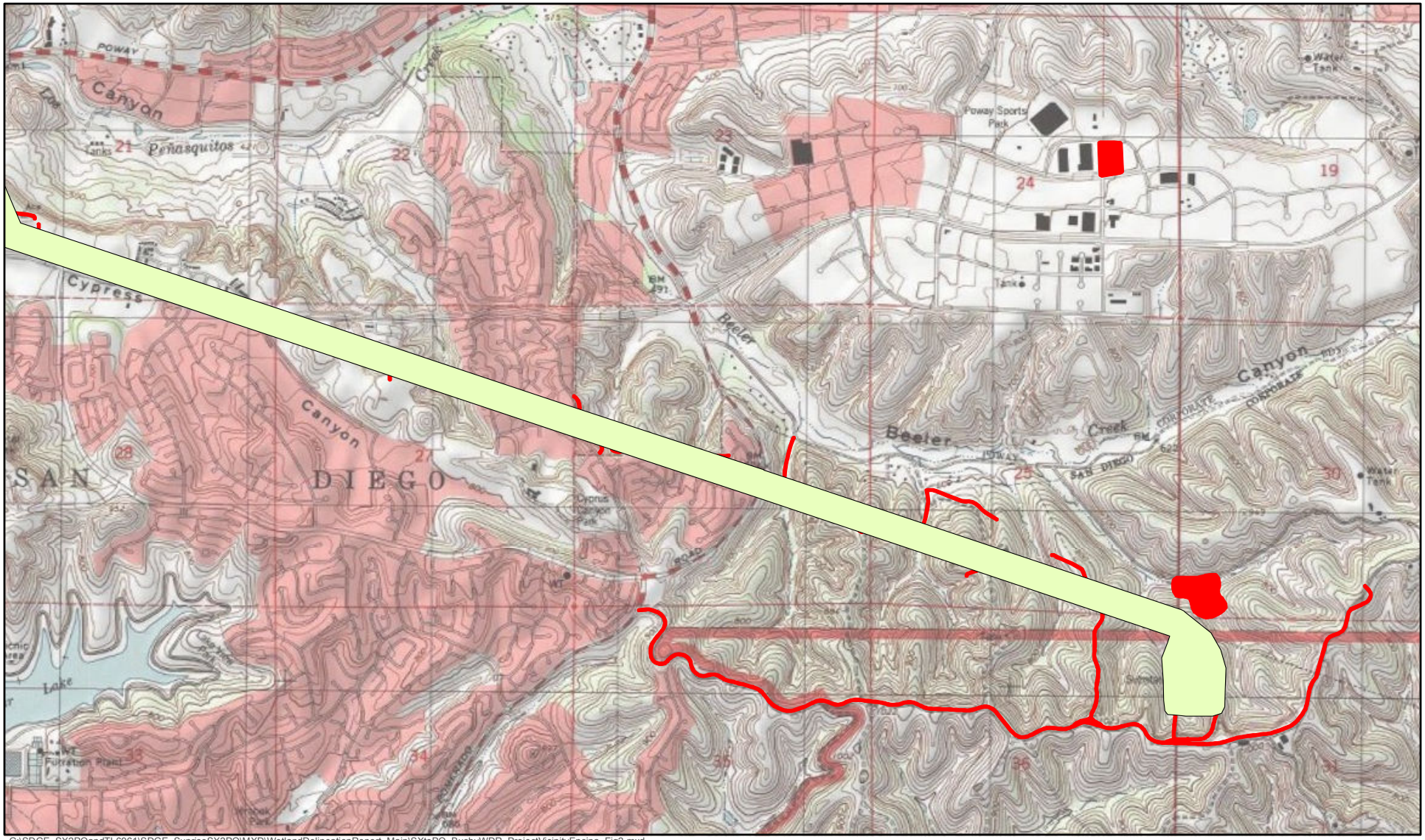
0 0.2 0.4 0.6 Miles

TRC

4/17/2015

SDGE

A Sempra Energy utility



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Sycamore to Peñasquitos 230 kV Transmission Line Project

Proposed Project Vicinity Map

Figure 2a-6

- Original BSA
- New Survey Area
- California Coastal Zone Boundary

Sources: TRC, 2015; SDG&E, 2015, NatGeo, ESRI, DeLorme, HERE, UNEP-WCMC, USGS, NSA, ESA, METI, NOAA, iPC

N W E S

0 0.2 0.4 0.6 Miles

TRC

4/17/2015

SDGE

A Sempra Energy utility

Sycamore to Peñasquitos 230kV Transmission Line Project

Wetlands Field Map

Fig 3

Page 1 of 32

- Culvert
- Photo
- Sample Point
- V-ditch (exempt)
- California Coastal Zone Boundary
- Original BSA
- New Survey Area

Basins

- Busby - 2015
- El - 2014
- Busby - 2015
- El -2014
- McMillan - 2009, 2010, 2011

CDFW Jurisdictions

- CDFW Riparian
- CDFW Unvegetated Streambed

USACE and RWQCB Jurisdictions

- Waters of U.S. and State
- Wetland Waters of U.S. and State

RWQCB Only Jurisdiction

- RWQCB Waters of the State

1 inch = 200 feet

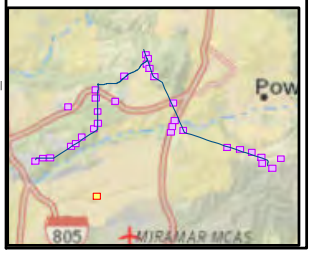
0 80 160 240

Feet

TRC

SDGE

4/30/2015



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Sources: 2013 Esri, DigitalGlobe, GeoEye i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community;National Geographic,DeLorme, NAVTEQ,UNEP- WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, iPC

Sycamore to Peñasquitos 230kV Transmission Line Project

Wetlands Field Map

Fig 3

Page 2 of 32

- Culvert
- Photo
- Sample Point
- V-ditch (exempt)
- California Coastal Zone Boundary
- Original BSA
- New Survey Area

Basins

- Busby - 2015
- El - 2014
- Busby - 2015
- El -2014
- McMillan - 2009, 2010, 2011

CDFW Jurisdictions

- CDFW Riparian
- CDFW Unvegetated Streambed

USACE and RWQCB Jurisdictions

- Waters of U.S. and State
- Wetland Waters of U.S. and State

RWQCB Only Jurisdiction

- RWQCB Waters of the State

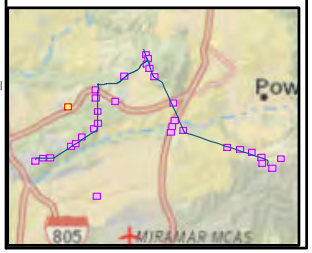
1 inch = 200 feet

0 80 160 240

Feet

TRC SDGE

4/30/2015



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Sycamore to Peñasquitos 230kV Transmission Line Project

Wetlands Field Map

Fig 3

Page 3 of 32

- Culvert
- Photo
- Sample Point
- V-ditch (exempt)
- California Coastal Zone Boundary
- Original BSA
- New Survey Area

Basins

- Busby - 2015
- EI - 2014
- Busby - 2015
- EI -2014
- McMillan - 2009, 2010, 2011

CDFW Jurisdictions

- CDFW Riparian
- CDFW Unvegetated Streambed

USACE and RWQCB Jurisdictions

- Waters of U.S. and State
- Wetland Waters of U.S. and State

RWQCB Only Jurisdiction

- RWQCB Waters of the State

1 inch = 200 feet

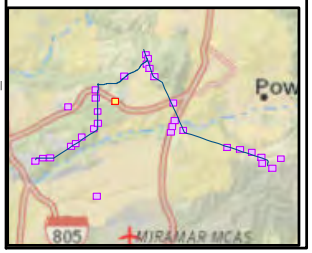
0 80 160 240

Feet

TRC

SDGE

4/30/2015



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Sources: 2013 Esri, DigitalGlobe, GeoEye i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community;National Geographic,DeLorme, NAVTEQ,UNEP- WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, iPC

Sycamore to Peñasquitos 230kV Transmission Line Project

Wetlands Field Map

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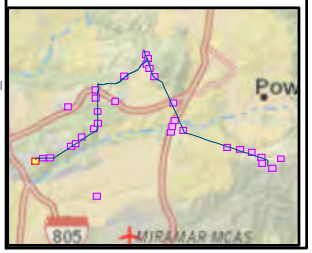
TRC

SDGE

4/30/2015



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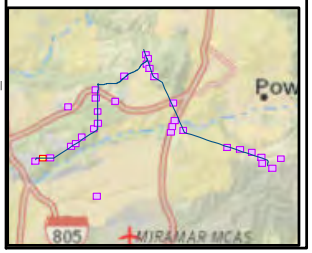

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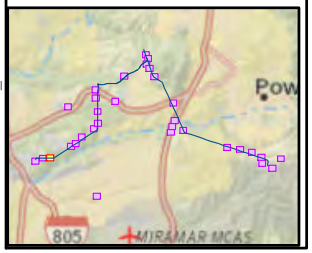

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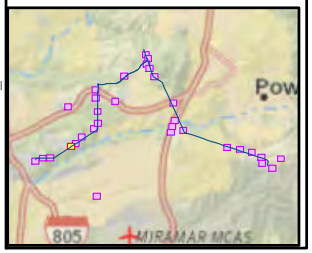

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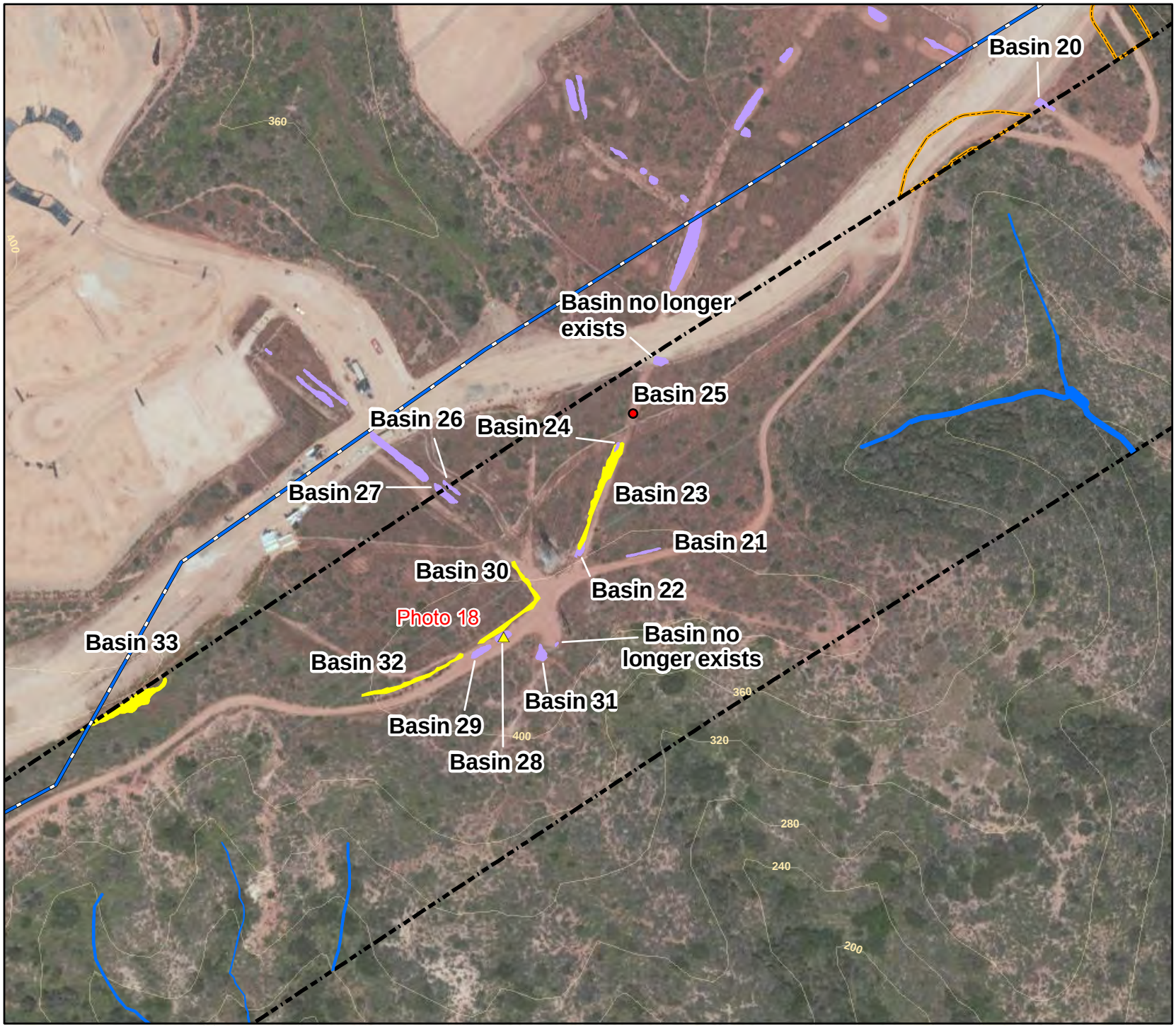

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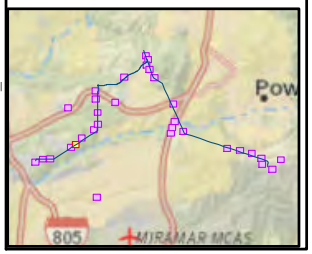

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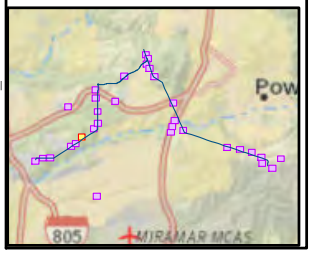

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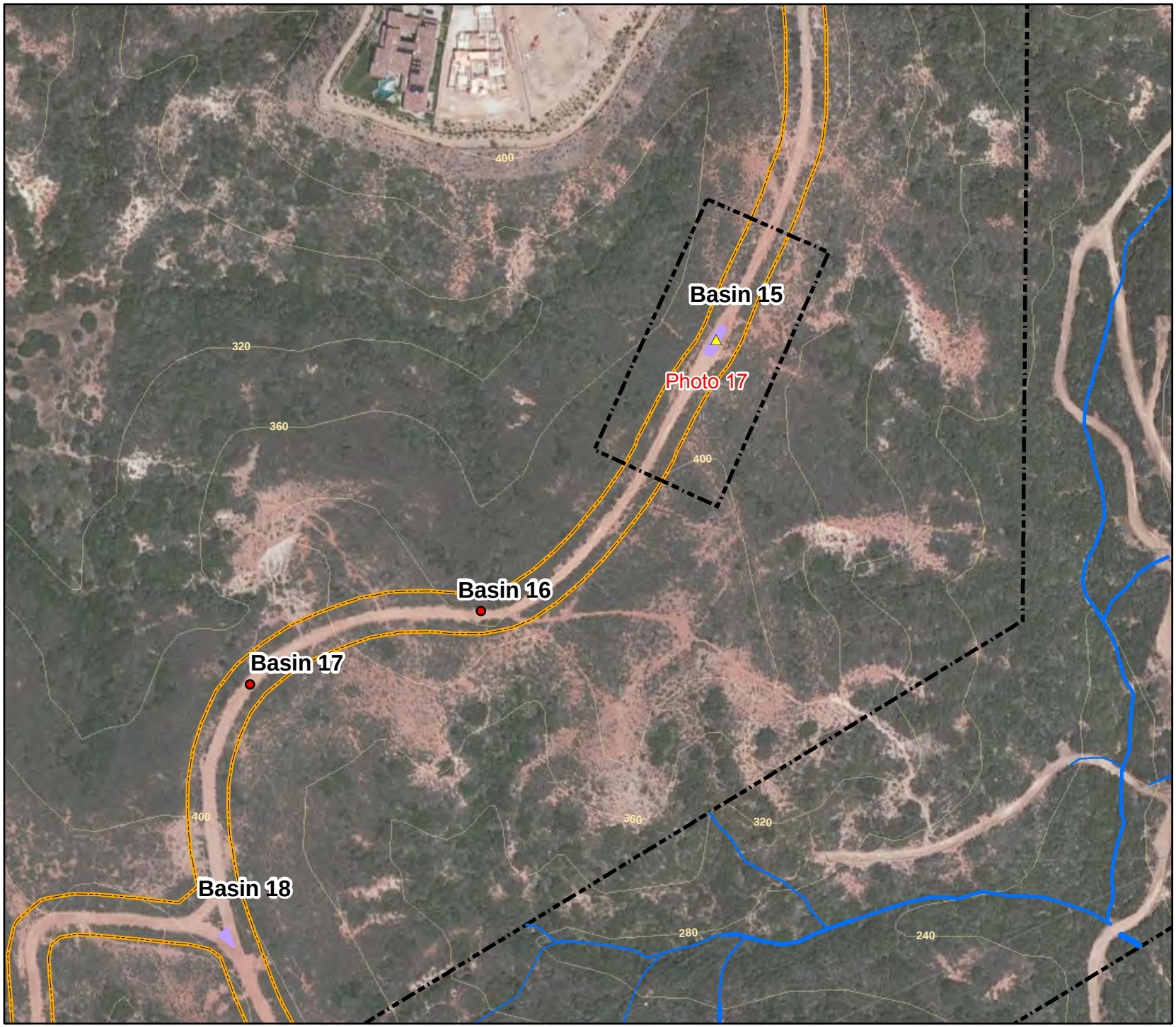

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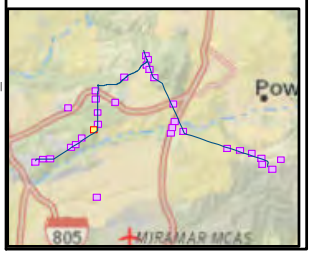

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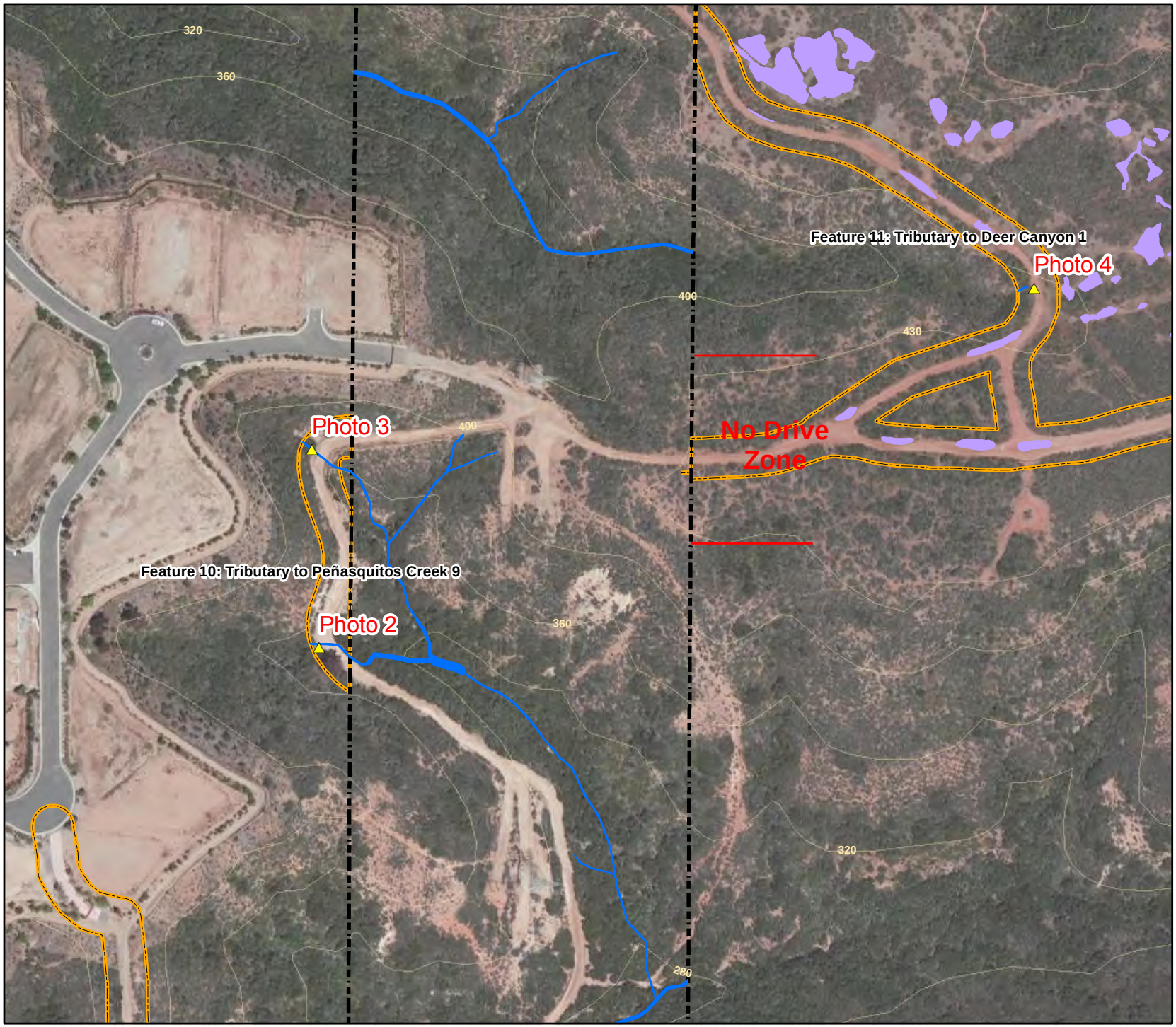

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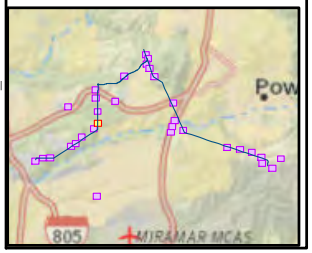

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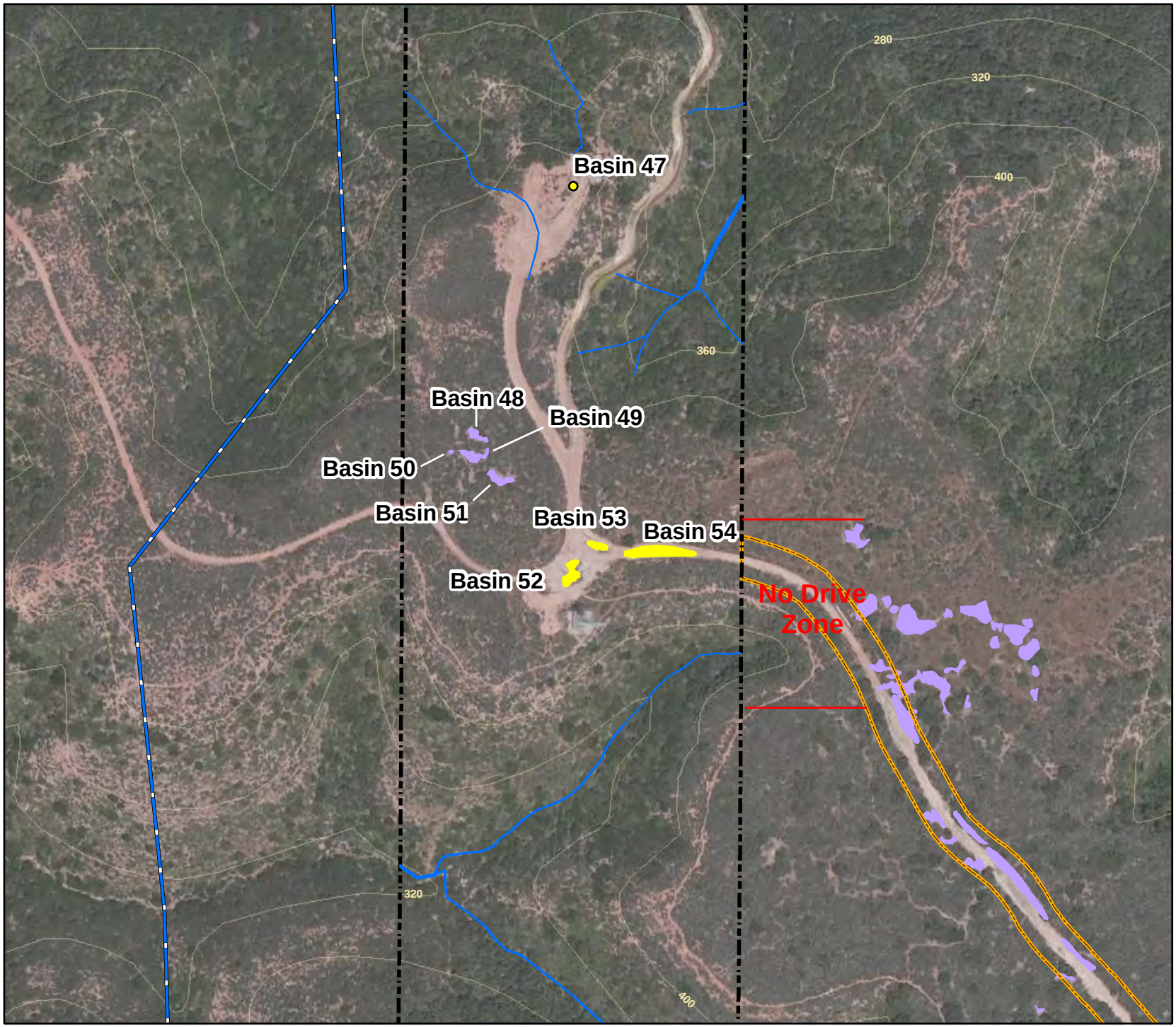

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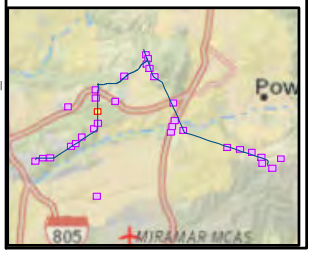

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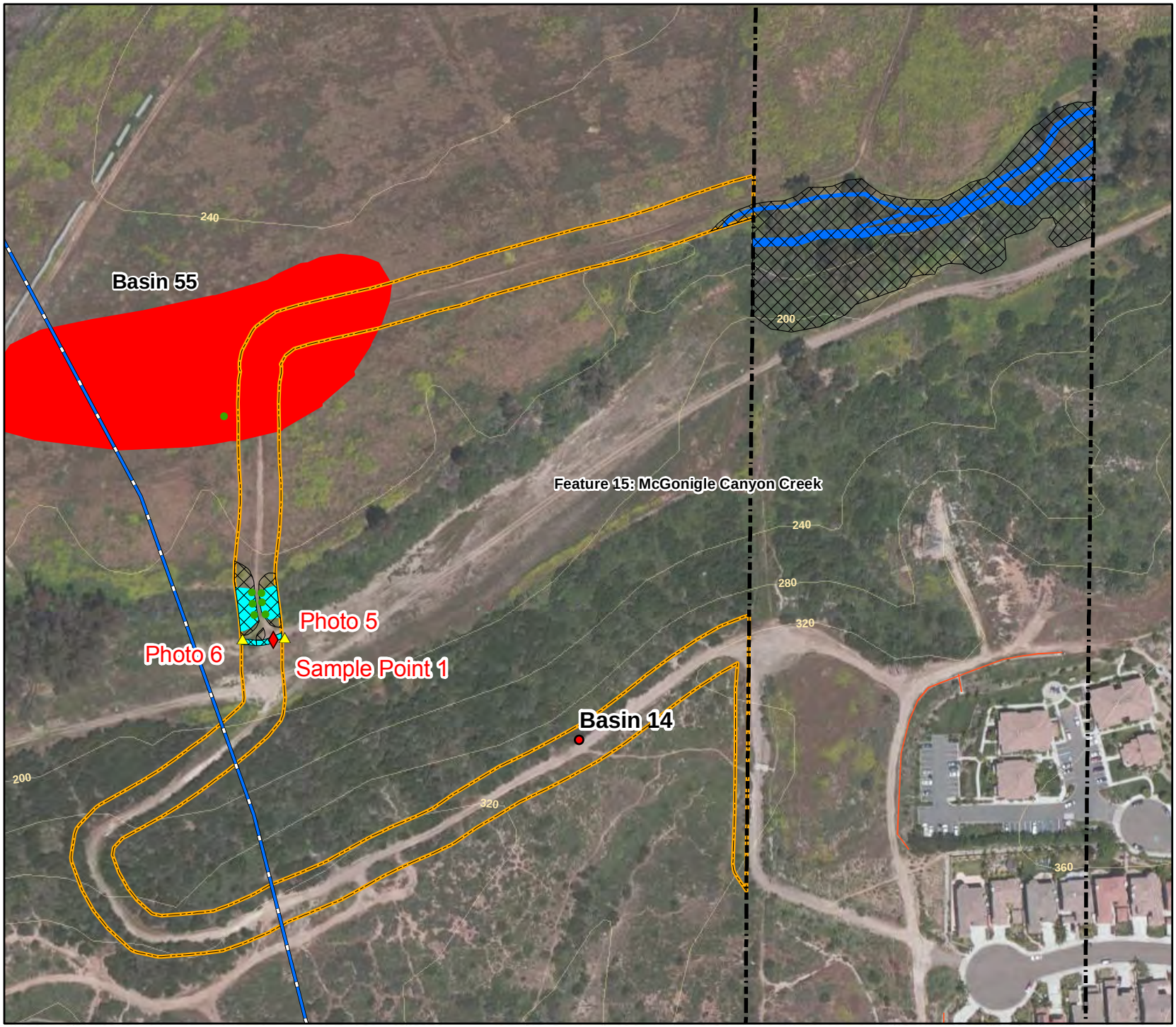

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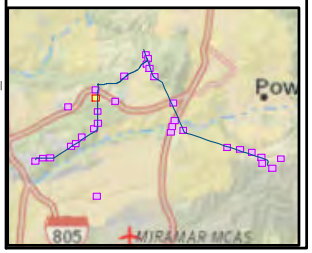

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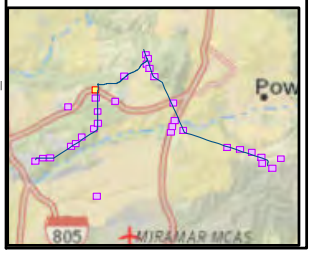

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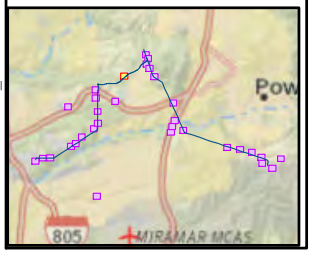

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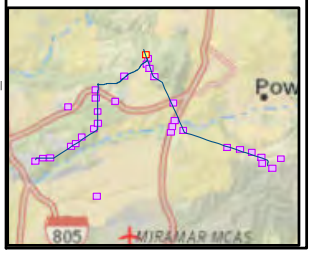

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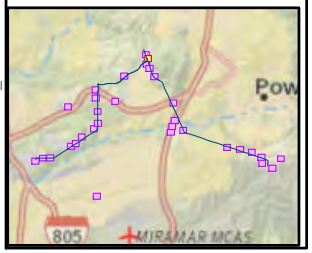

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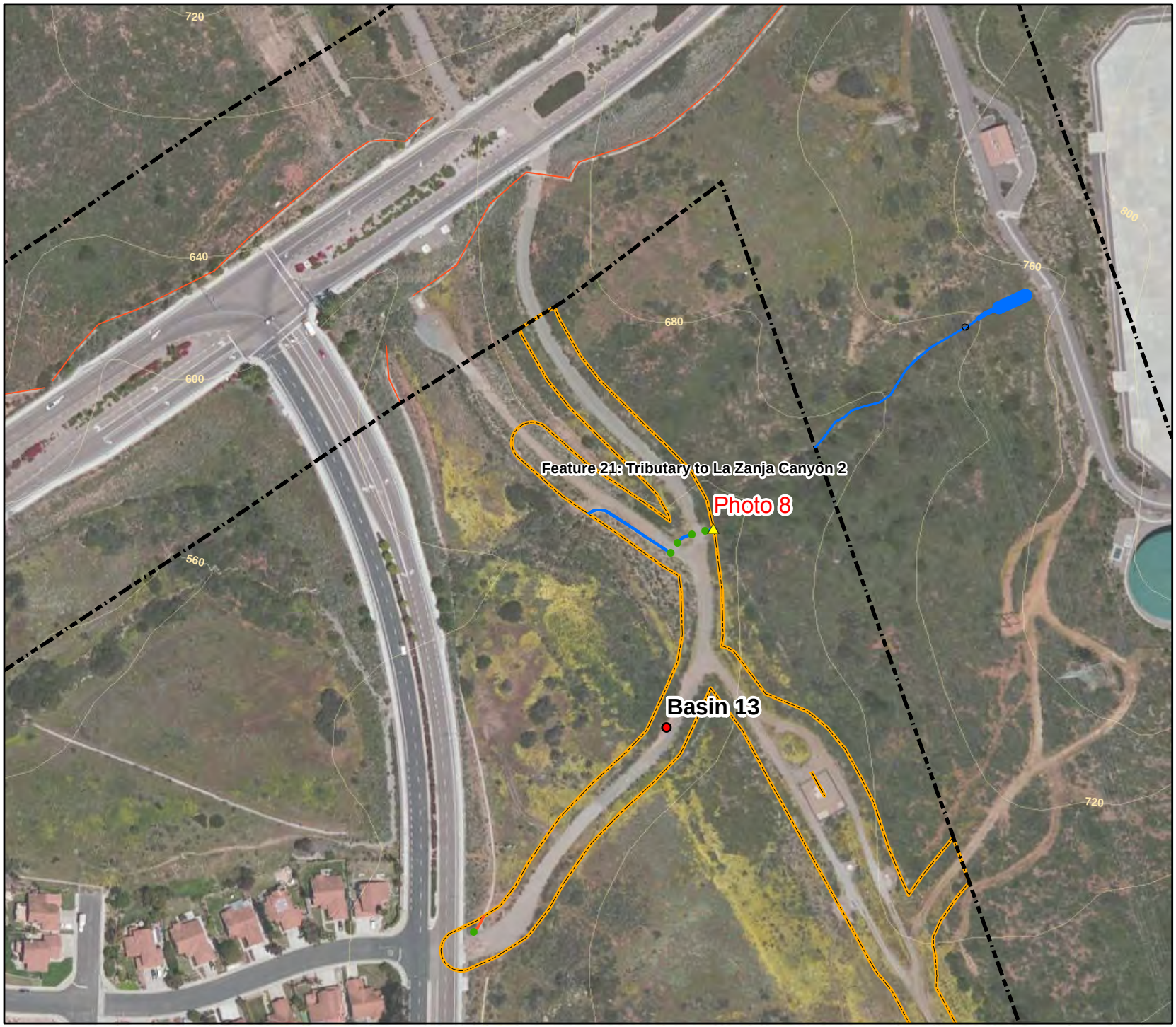

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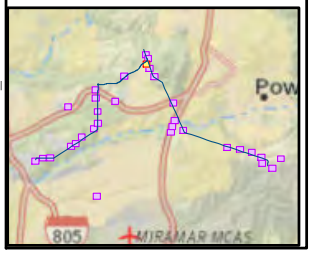

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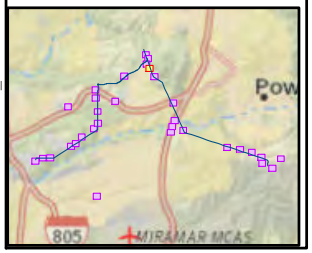

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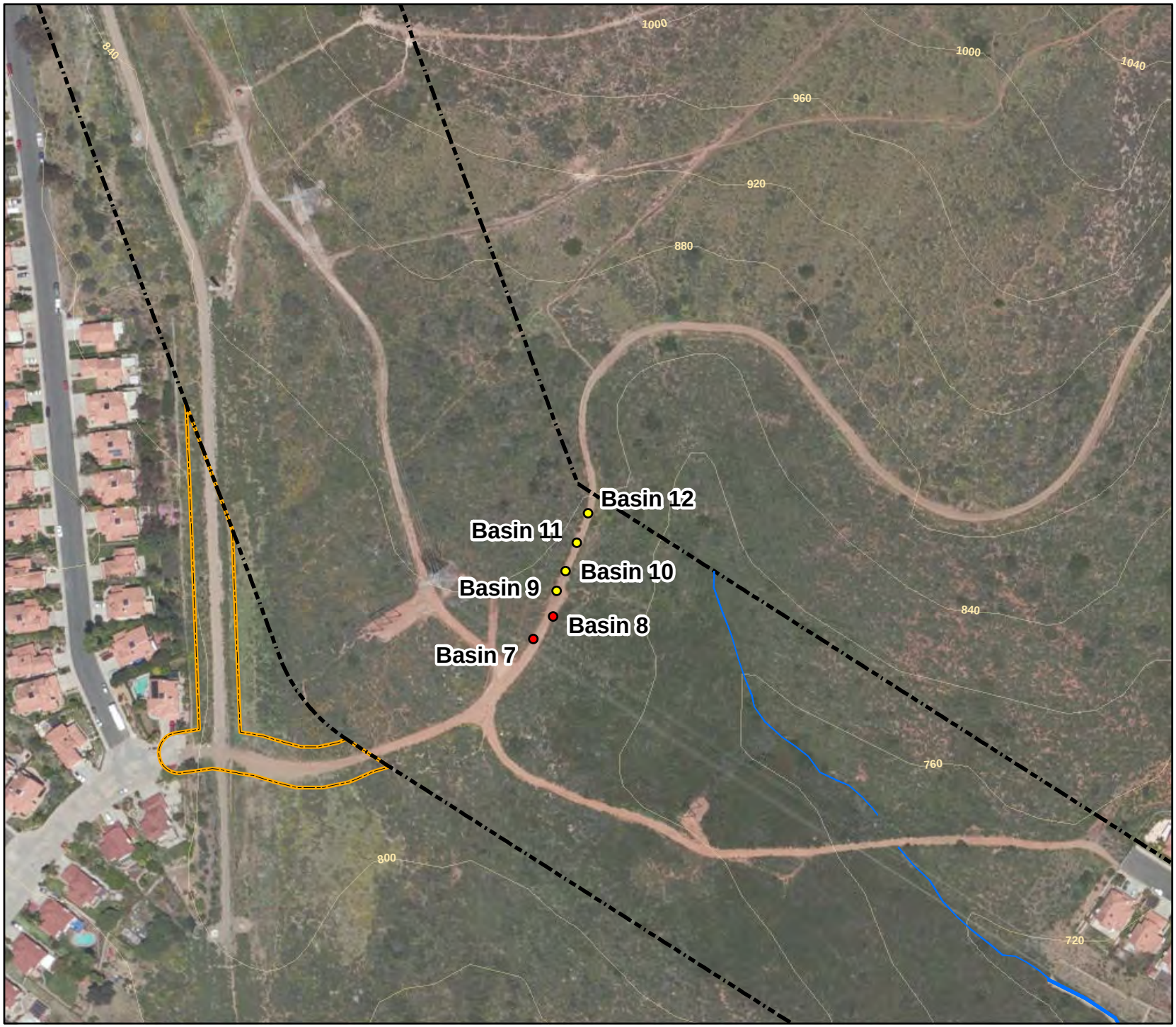

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1 inch = 200 feet

0 80 160 240

Feet

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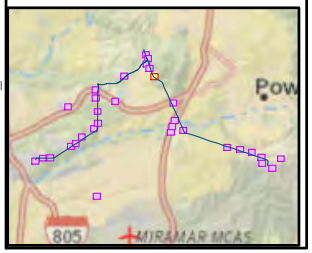

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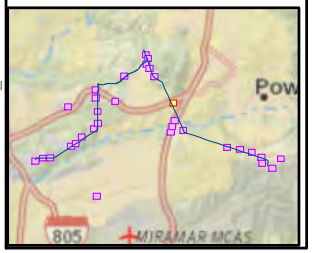

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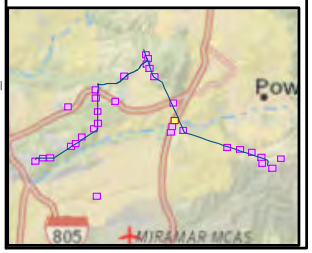

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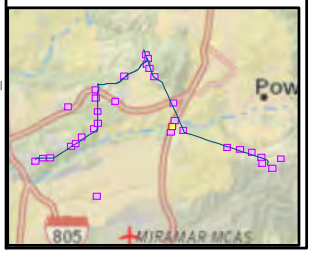

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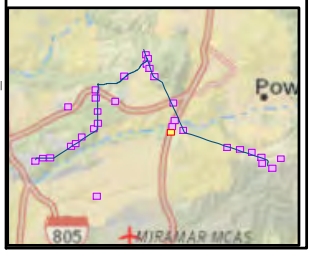

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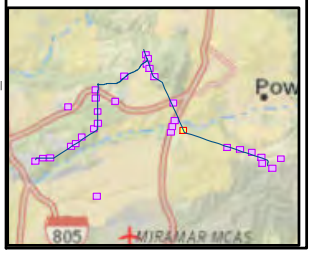

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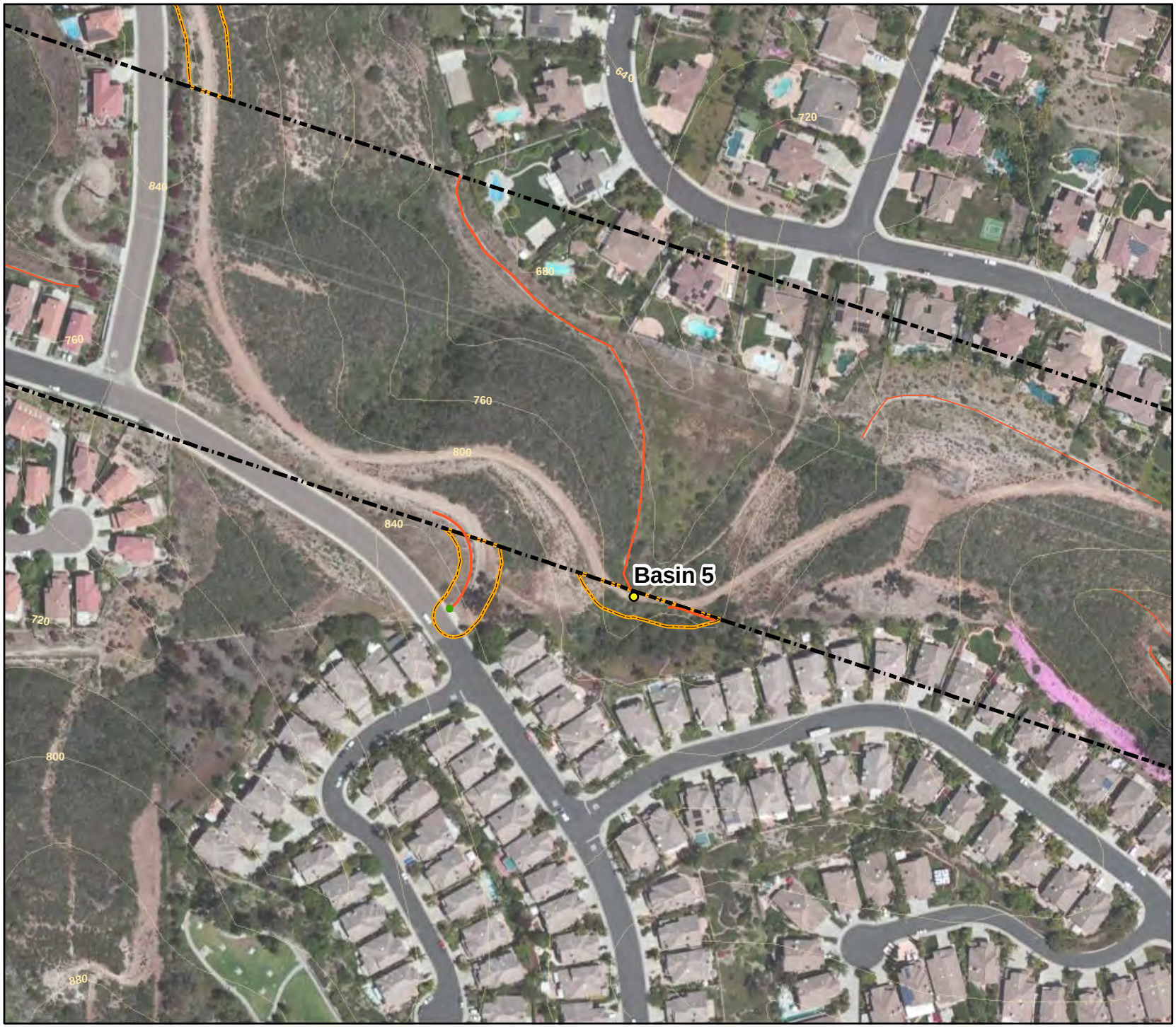

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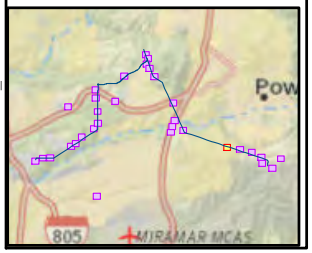

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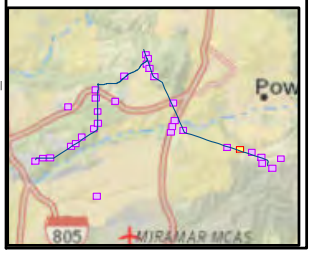

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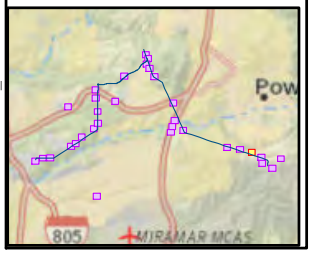

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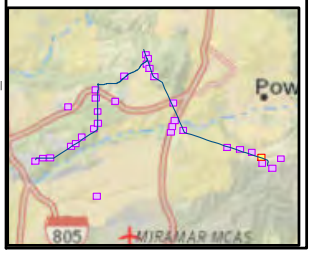

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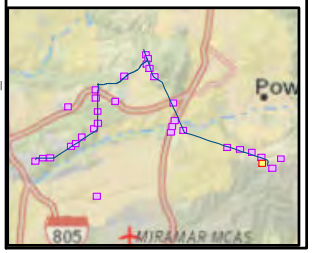

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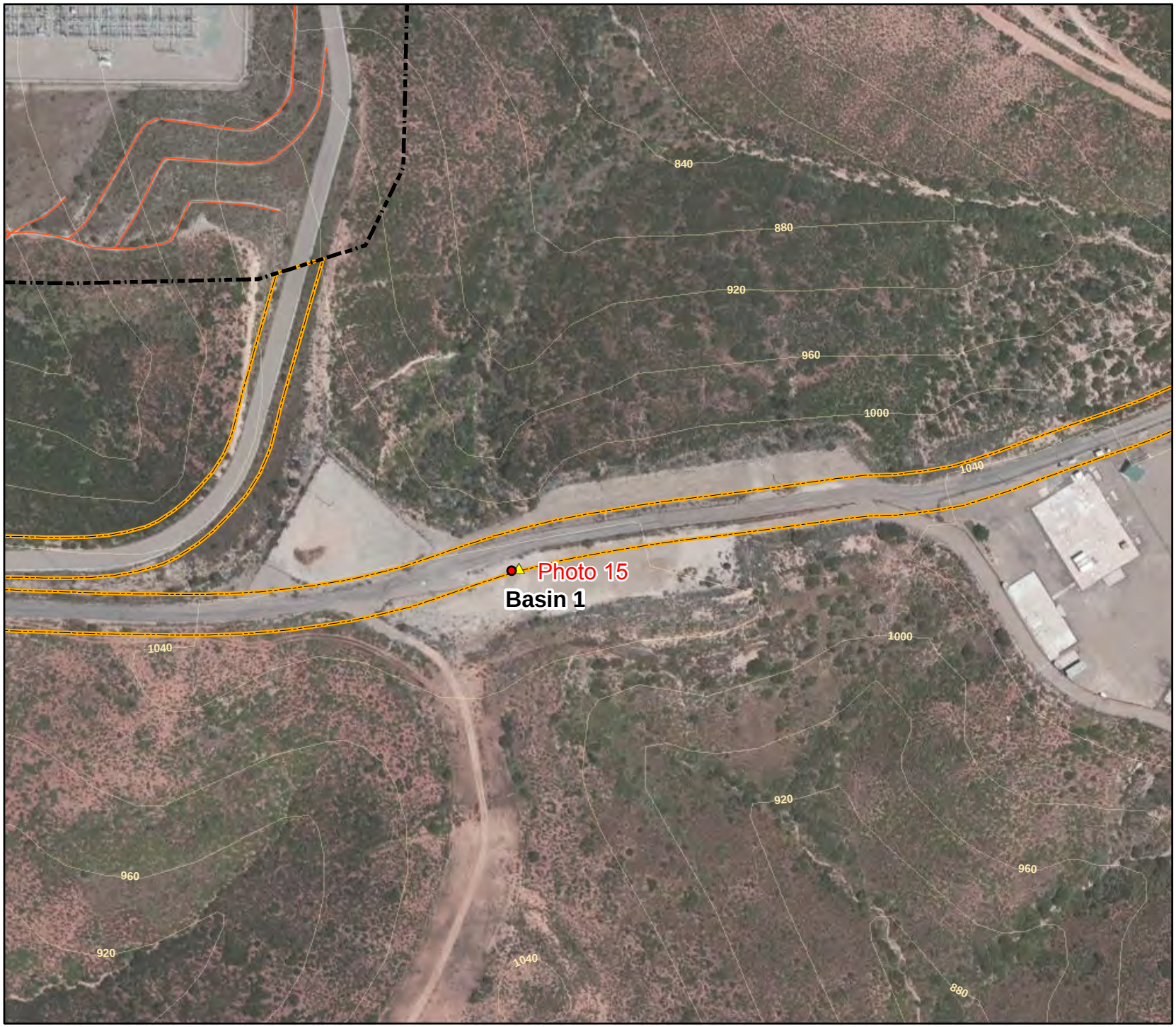

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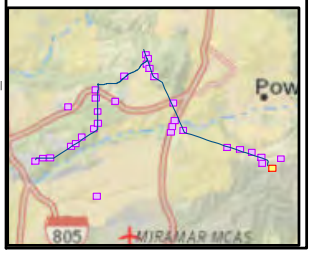

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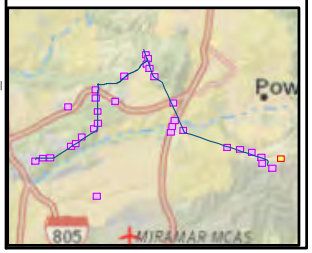

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APPENDIX B: USACE DATA FORMS

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Sycamore to Penasquitos 230KV City/County: San Diego Sampling Date: 2/20/15

Applicant/Owner: SDGE State: CA Sampling Point: 1

Investigator(s): Darin Busby, Julie Fontaine Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: Olivenhain Series. Clayey-skeletal, kaolinitic Ultic Palexeralfs NWI classification: _____

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

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes x 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 x No _____	**Is the Sampled Area within a Wetland?** Yes x No _____
Hydric Soil Present?	Yes x No _____	
Wetland Hydrology Present?	Yes x No _____	

Remarks:

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix lasiolepsis	10%	N	FACW
2.			
3.			
4.			
Total Cover:	10%		
Sapling/Shrub Stratum			
1. Baccharis salicifolia	70	Y	FACW
2.			
3.			
4.			
5.			
Total Cover:	70%		
Herb Stratum			
1. Ambrosia psilostachya	5%	N	FAC
2. Picris echioides	2%	N	UPL
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	7%		
Woody Vine Stratum			
1.			
2.			
Total Cover:			

% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (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 ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes x No _____

Remarks:

SOIL

Sampling Point: 1

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

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	2.5Y 5/3				C	RC	ClayLoam	Few, Fine, Prominent features
4-12+	10 YR 3/2	80%	10 YR 5/8	20%	C	PL	Clay Loam	Many, Fine, Distinct features

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

F6 Hydric Soil Criteria Met.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Plowed Soils (C6)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- X Water Marks (B1) (**Riverine**)
- X Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Thin Muck Surface (C7)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

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

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

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

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

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Sycamore to Penasquitos 230KV City/County: San Diego Sampling Date: 2/20/15

Applicant/Owner: SDGE State: CA Sampling Point: 2

Investigator(s): Darin Busby, Julie Fontaine Section, Township, Range: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: Riverwash soils NWI classification: _____

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

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes x 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 x No _____	**Is the Sampled Area within a Wetland?** Yes x No _____
Hydric Soil Present?	Yes x No _____	
Wetland Hydrology Present?	Yes x No _____	

Remarks:

Project is situated on a bridge overpass over this jurisdictional feature.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix goodingii	20%	Y	FACW
2.			
3.			
4.			
Total Cover:	10%		
Sapling/Shrub Stratum			
1. Baccharis salicifolia	20	Y	FACW
2.			
3.			
4.			
5.			
Total Cover:	20%		
Herb Stratum			
1. Typha latifolia	20%	Y	OBL
2. Scirpus americanus	20%	Y	OBL
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover:	40%		
Woody Vine Stratum			
1.			
2.			
Total Cover:	70		

% Bare Ground in Herb Stratum 30% open water % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of: Text	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 ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes x No _____

Remarks:

SOIL

Sampling Point: 2

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

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

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix. [2]Location: PL=Pore Lining, RC=Root Channel, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

Riverwash soils with OBL wetland vegetation. Riverwash is a hydric soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

- X Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- X Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Plowed Soils (C6)
- X Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- X Water Marks (B1) (**Riverine**)
- X Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- X Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Thin Muck Surface (C7)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes X No _____ Depth (inches): 6"

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

Saturation Present? (includes capillary fringe) Yes _____ No _____ Depth (inches): _____

Wetland Hydrology Present? Yes X No _____

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

Remarks:

Also observed shelving, scouring, debris jams, vegetation destruction, and disturbed leaf litter at the OHWM. Hydrology criteria met.

APPENDIX C: SITE PHOTOGRAPHS

Photograph 1. Feature 7: Tributary To Peñasquitos Creek 6 - USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed.

Photograph 2. Feature 10: Tributary To Peñasquitos Creek 9 - USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed.

Photograph 3. Feature 10: Tributary To Peñasquitos Creek 9 - USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed.

Photograph 4. Feature 11: Tributary To Deer Canyon 1 - USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed.

Photograph 5. Feature 15: McGonigle Canyon Creek - USACE wetland waters of the U.S., RWQCB wetland waters of the State, and CDFW riparian

Photograph 6. Feature 15: McGonigle Canyon Creek - USACE wetland waters of the U.S., RWQCB wetland waters of the State, and CDFW riparian

Photograph 7. Feature 18: Tributary to McGonigle Canyon Creek 3 – Erosional features joining into USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed.

Photograph 8. Feature 21: Tributary to La Zanja Canyon 2 - USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed.

Photograph 9. Feature 22: McGonigle Canyon Creek 5 - USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed.

Photograph 10. Feature 27: Tributary to Peñasquitos Creek 10 - CDFW riparian.

Photograph 11. Feature 28: Los Peñasquitos Creek - USACE wetland waters of the U.S., RWQCB wetland waters of the State, and CDFW riparian.

Photograph 12. Feature 32: Tributary to Beeler Creek 1 - USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed.

Photograph 13. Feature 32: Tributary to Beeler Creek 1 - CDFW Riparian

Photograph 14. Feature 32: Tributary to Beeler Creek 1 - USACE waters of the U.S., RWQCB waters of the State, CDFW unvegetated streambed.

Photograph 15. Basin 1 within dirt road edge.

Photograph 16. Basin 3 within dirt access road.

Photograph 17. Basin 15 within dirt access road.

Photograph 18. Basin 28 within dirt access road edge.

Photograph 19. Basin 41 east of dirt access road.

Photograph 20. Exempt, non-jurisdictional v-ditches.

Photograph 21. Exempt, non-jurisdictional riprap-lined swale from constructed detention basin.