




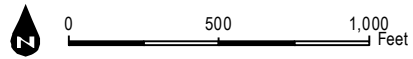


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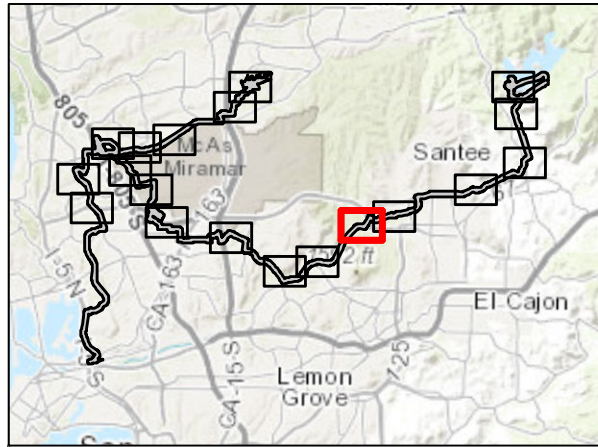
-  Project Study Area
-  Burrowing Owl Survey Areas
-  Burrowing Owl Assessment
-  Hermes Copper Butterfly Survey Areas
-  Vegetation Communities/Land Covers
- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- NNG, Non-native Grassland
- NNV, Non-native Vegetation
- NNW, Non-native Woodland
- SCLO, Southern Coast Live Oak Riparian Forest
- SWS, Southern Willow Scrub
- dCSS, disturbed Diegan Coastal Sage Scrub



SOURCE: SANDAG, 2016

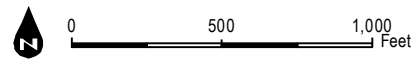
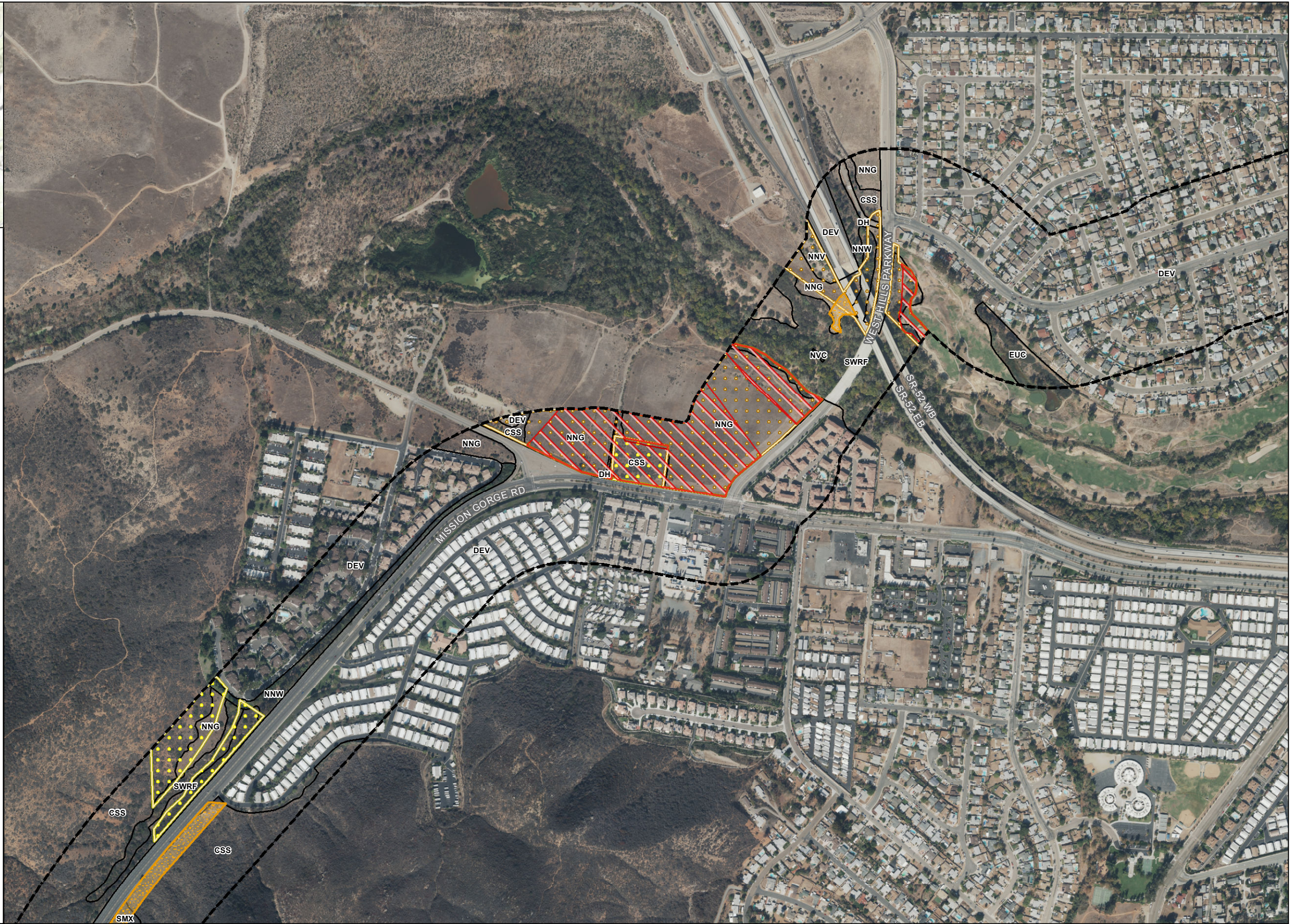
**FIGURE 2-2M**  
Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

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**LEGEND**

- Project Study Area
- No Survey Access
- Burrowing Owl Survey Areas
- Burrowing Owl Assessment
- Hermes Copper Butterfly Survey Areas
- Vegetation Communities/Land Covers
- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- NNG, Non-native Grassland
- NNV, Non-native Vegetation
- NNW, Non-native Woodland
- NVC, Non-vegetated Channel or Floodway
- SMX, Southern Mixed Chaparral
- SWRF, Southern Arroyo Willow Riparian Forest



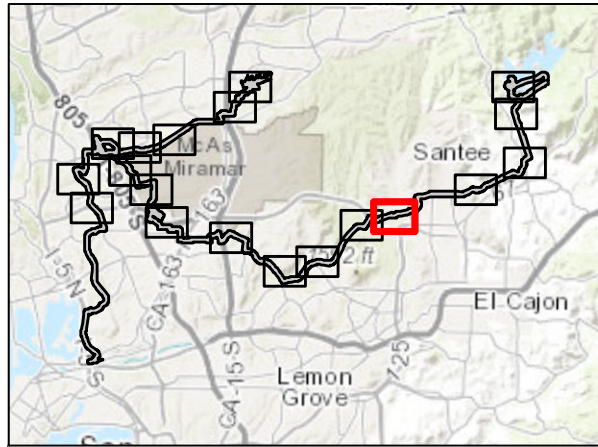
SOURCE: SANDAG, 2016






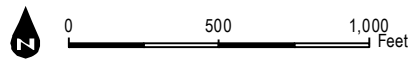
Biological Resources Report for the North City Project

**FIGURE 2-2N**  
Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

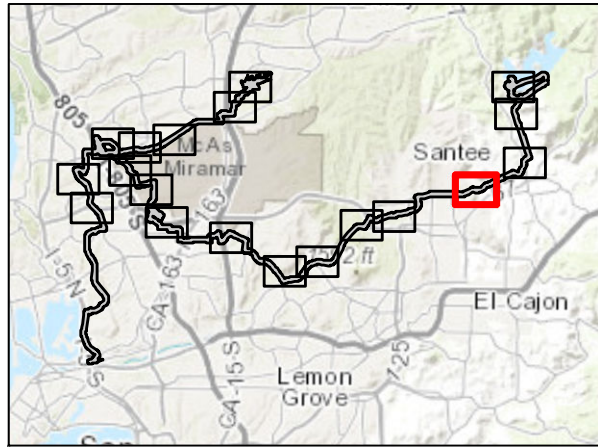
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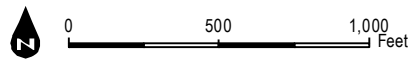
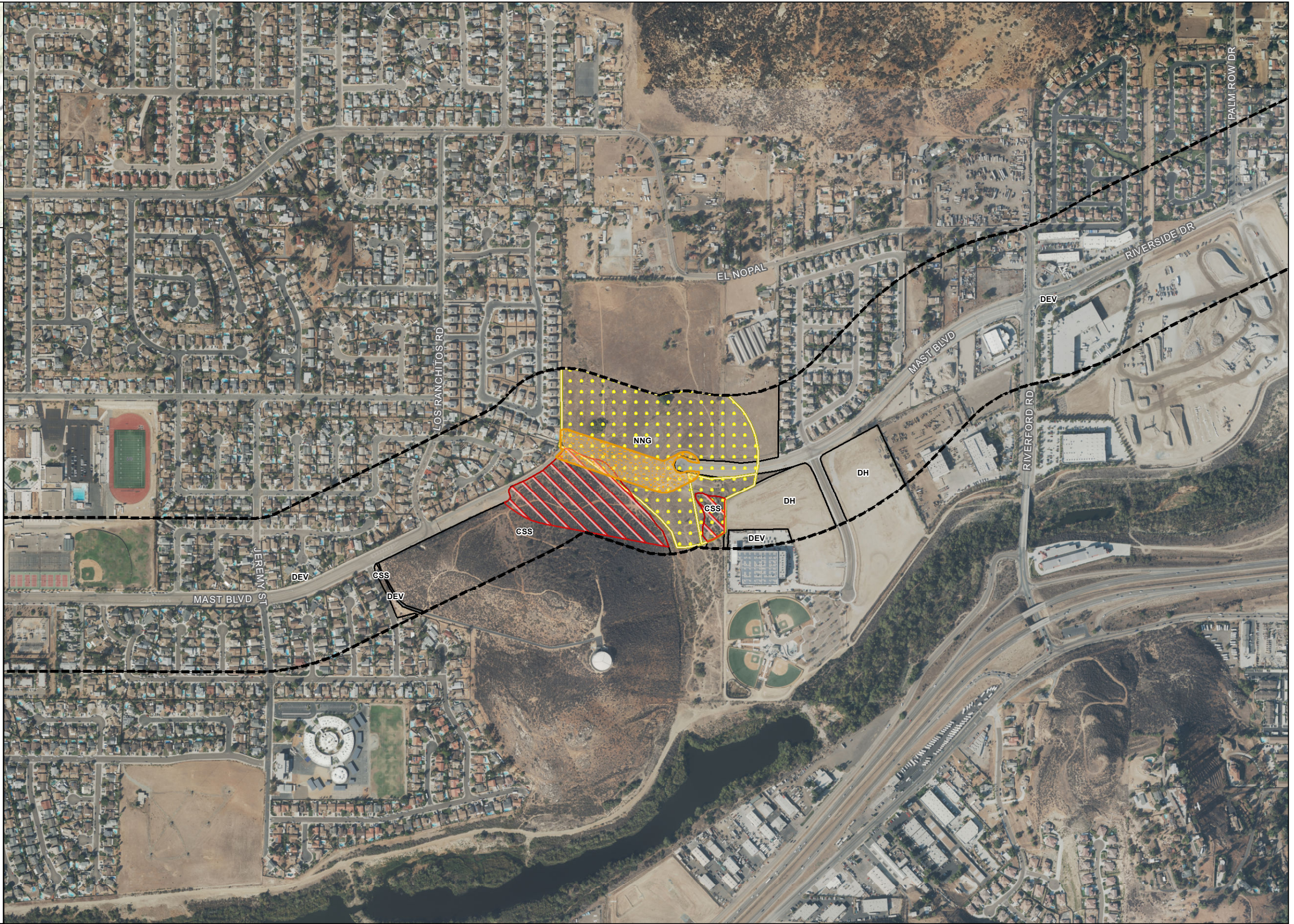
- LEGEND**
-  Project Study Area
  -  Burrowing Owl Assessment
  -  Vegetation Communities/Land Covers
- DEV, Urban/Developed  
 DH, Disturbed Habitat  
 EUC, Eucalyptus Woodland  
 NNG, Non-native Grassland  
 NNW, Non-native Woodland  
 SWS, Southern Willow Scrub  
 dSWS, disturbed Southern Willow Scrub



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- LEGEND**
- Project Study Area
  - No Survey Access
  - Burrowing Owl Assessment
  - Hermes Copper Butterfly Survey Areas
  - Vegetation Communities/Land Covers
    - CSS, Diegan Coastal Sage Scrub
    - DEV, Urban/Developed
    - DH, Disturbed Habitat
    - NNG, Non-native Grassland



SOURCE: SANDAG, 2016

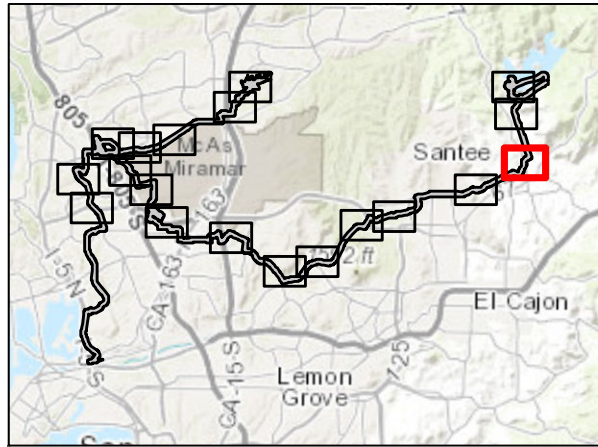


Biological Resources Report for the North City Project






**FIGURE 2-2P**  
Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

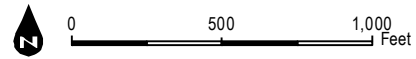
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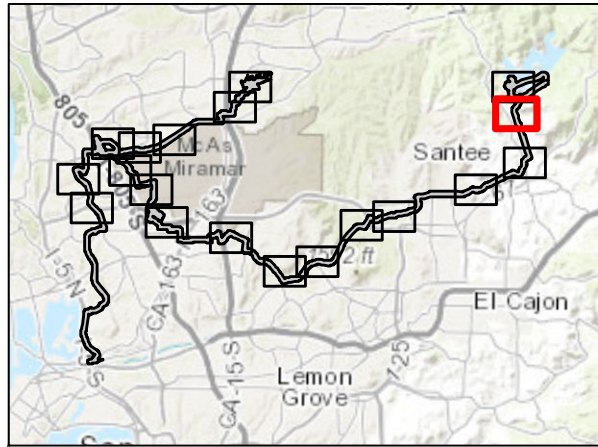
-  Project Study Area
-  No Survey Access
-  Burrowing Owl Assessment
-  Hermes Copper Butterfly Survey Areas
-  Vegetation Communities/Land Covers
- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- NNG, Non-native Grassland
- NVC, Non-vegetated Channel or Floodway
- OW, Open Water
- SCWRF, Southern Cottonwood-Willow Riparian Forest
- SWRF, Southern Arroyo Willow Riparian Forest
- SWS, Southern Willow Scrub








SOURCE: SANDAG, 2016

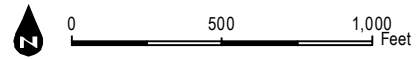
**FIGURE 2-2Q**  
Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

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**LEGEND**

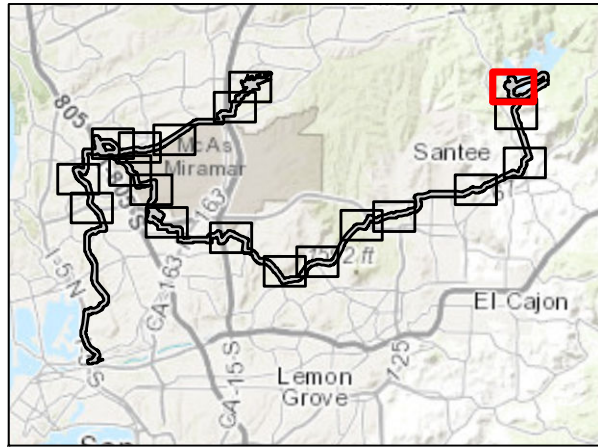
-  Project Study Area
-  Burrowing Owl Survey Areas
-  Burrowing Owl Assessment
-  Hermes Copper Butterfly Survey Areas
-  Vegetation Communities/Land Covers
- AGR, General Agriculture
- ARU, Arundo-Dominated Riparian
- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- CSS-r, Diegan Coastal Sage Scrub-Restored
- DEV, Urban/Developed
- DH, Disturbed Habitat
- MFS, Mulefat Scrub
- NNG, Non-native Grassland
- NVC, Non-vegetated Channel or Floodway
- dMFS, disturbed Mulefat Scrub







SOURCE: SANDAG, 2016

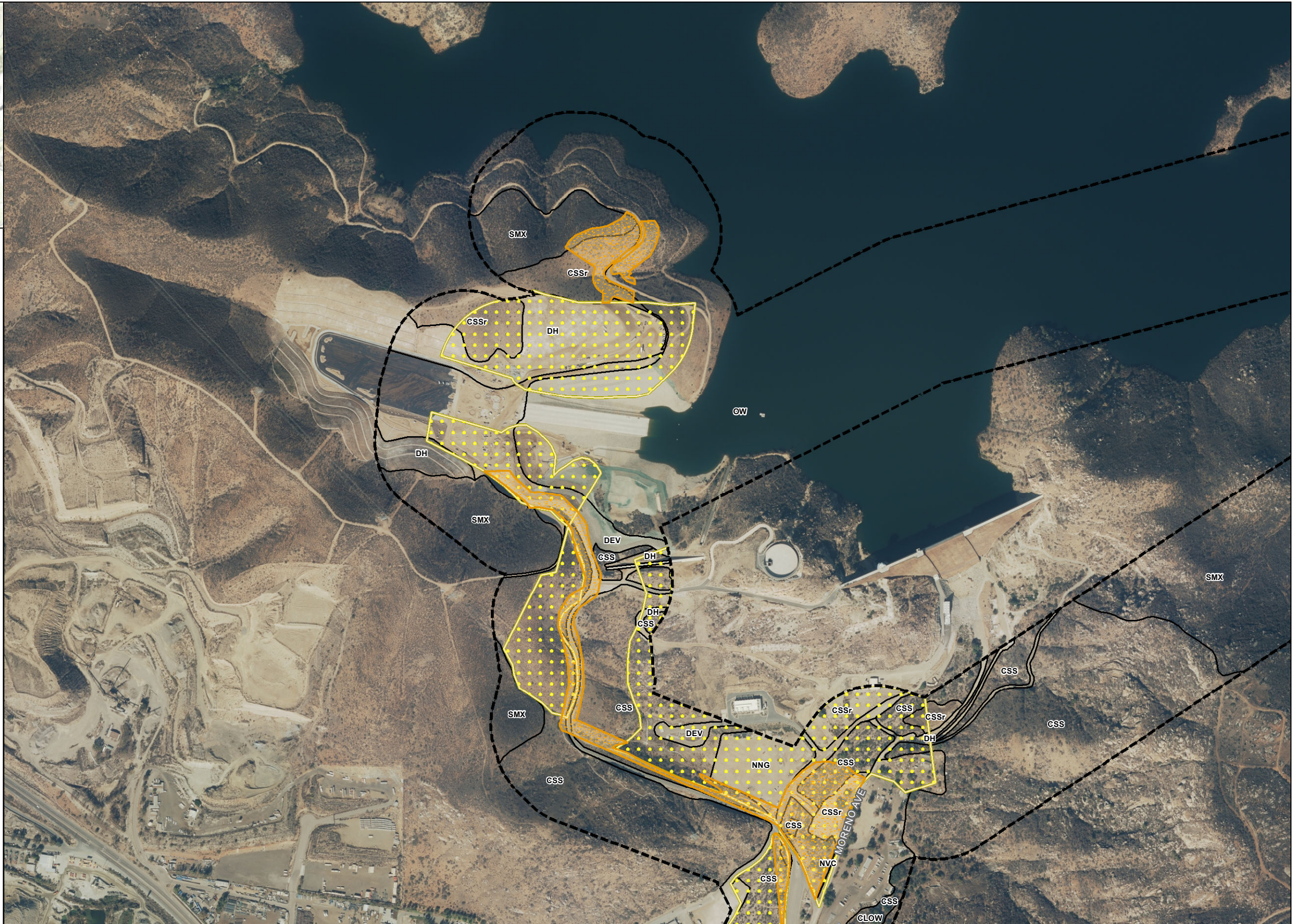
**FIGURE 2-2R**  
Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

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**LEGEND**

-  Project Study Area
-  Burrowing Owl Assessment
-  Hermes Copper Butterfly Survey Areas
-  Vegetation Communities/Land Covers
- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- CSS-r, Diegan Coastal Sage Scrub-Restored
- DEV, Urban/Developed
- DH, Disturbed Habitat
- NNG, Non-native Grassland
- NVC, Non-vegetated Channel or Floodway
- OW, Open Water
- SMX, Southern Mixed Chaparral

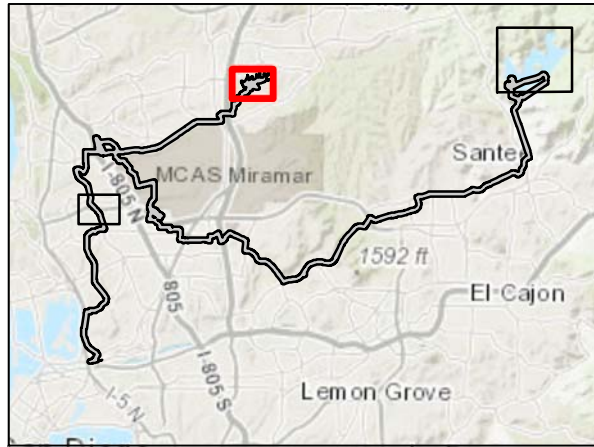


**FIGURE 2-2S**

Burrowing Owl and Hermes Copper Butterfly Survey Areas and Results

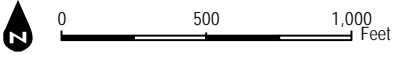
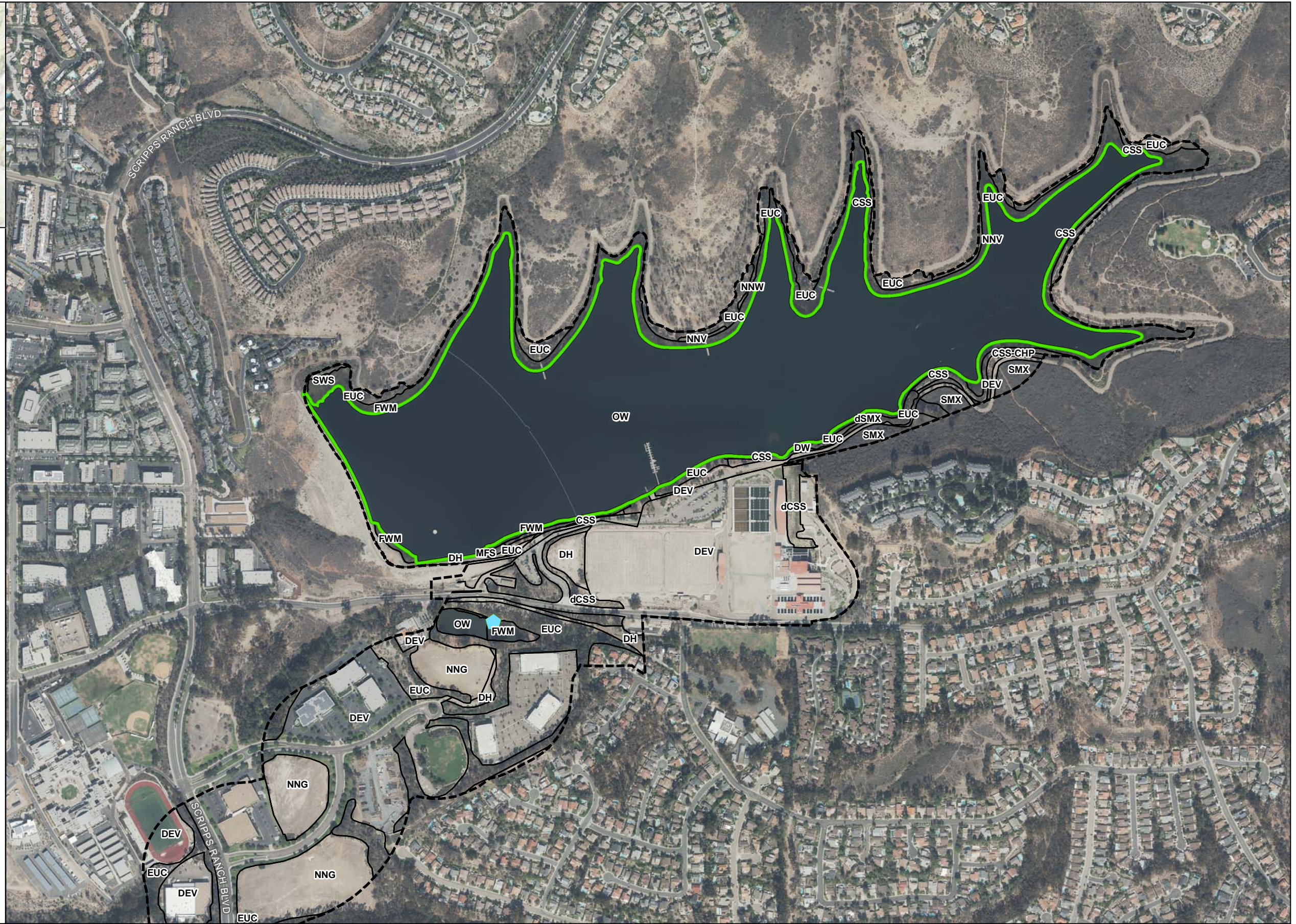
SOURCE: SANDAG, 2016

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**LEGEND**

- Project Study Area
- Western Pond Turtle Location
- Western Pond Turtle Survey Area
- Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - CSS-CHP, Coastal Sage-Chaparral Transition
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - DW, Disturbed Wetland
  - EUC, Eucalyptus Woodland
  - FWM, Coastal and Valley Freshwater Marsh
  - MFS, Mulefat Scrub
  - NNG, Non-native Grassland
  - NNV, Non-native Vegetation
  - NNW, Non-native Woodland
  - OW, Open Water
  - SMX, Southern Mixed Chaparral
  - SWS, Southern Willow Scrub
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - dCSSB, disturbed Diegan Coastal Sage Scrub: Baccharis-dominated
  - dSMX, disturbed Southern Mixed Chaparral



SOURCE: SANDAG, 2016

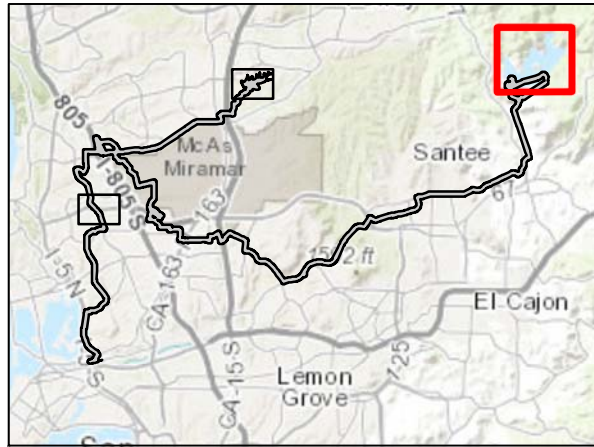


Biological Resources Report for the North City Project




**FIGURE 2-3A**  
Western Pond Turtle Survey Areas and Results

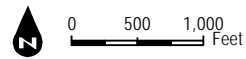
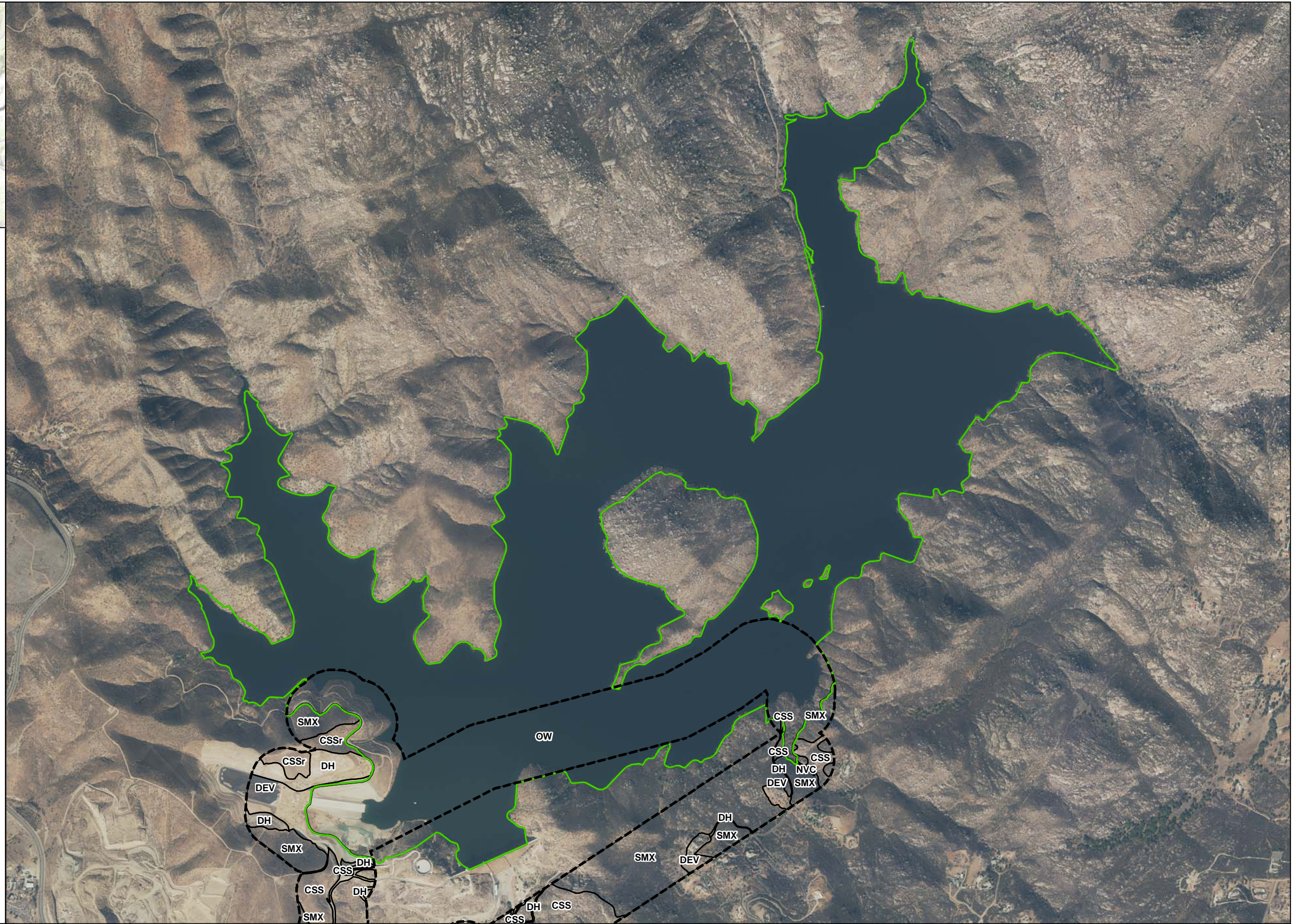
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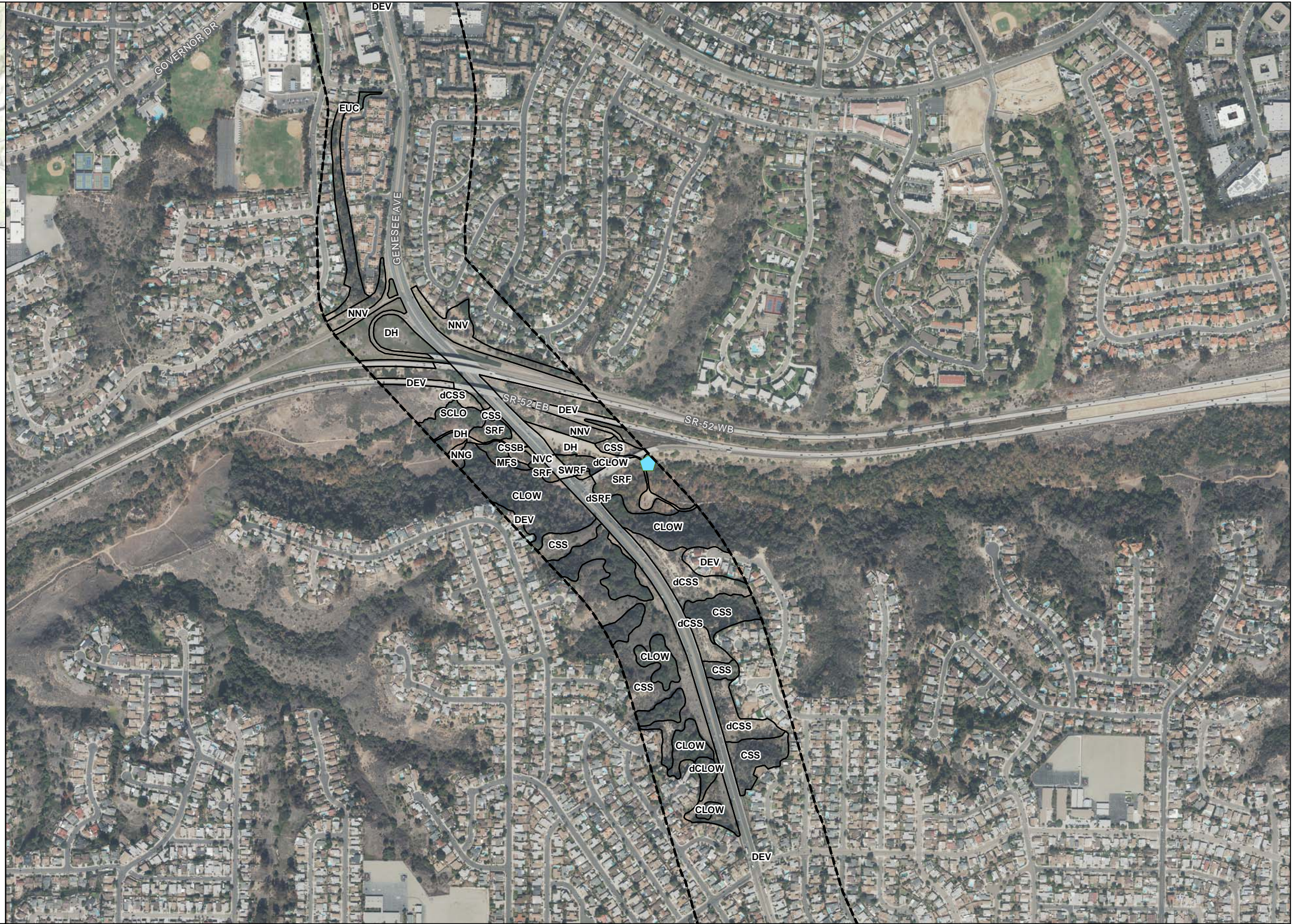
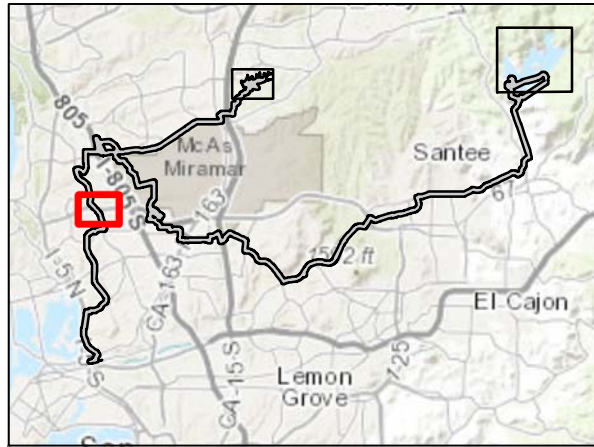
**LEGEND**

-  Project Study Area
-  Western Pond Turtle Survey Area
-  Vegetation Communities/Land Covers
  - CLOW, Coast Live Oak Woodland
  - CSS, Diegan Coastal Sage Scrub
  - CSS-r, Diegan Coastal Sage Scrub-Restored
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - NVC, Non-vegetated Channel or Floodway
  - OW, Open Water
  - SMX, Southern Mixed Chaparral



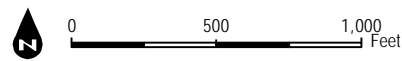
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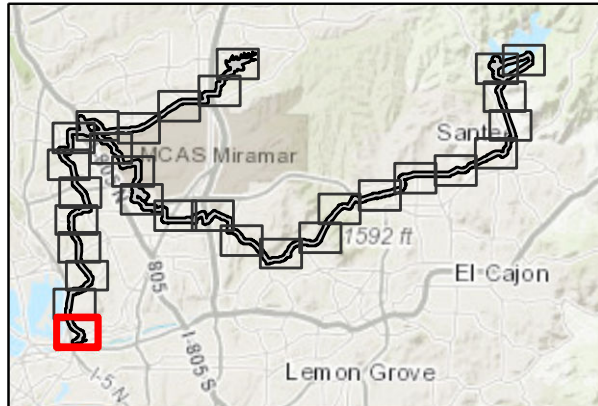
**LEGEND**

-  Project Study Area
-  Western Pond Turtle Location
-  Vegetation Communities/Land Covers
- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- CSSB, Diegan Coastal Sage Scrub: Baccharis-dominated
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- MFS, Mulefat Scrub
- NNG, Non-native Grassland
- NNV, Non-native Vegetation
- NVC, Non-vegetated Channel or Floodway
- SCLO, Southern Coast Live Oak Riparian Forest
- SRF, Southern Riparian Forest
- SWRF, Southern Arroyo Willow Riparian Forest
- dCLOW, disturbed Coast Live Oak Woodland
- dCSS, disturbed Diegan Coastal Sage Scrub
- dSRF, disturbed Southern Riparian Forest



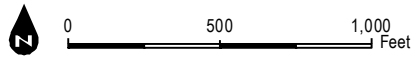
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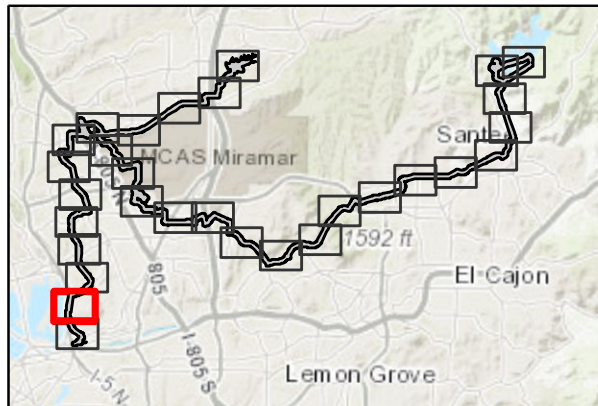
- Project Study Area
- Coastal Zone Boundary
- Project Pipeline Alternatives**
- Morena Wastewater Forcemain and Brine/Centrate Line
- Morena Pump Station - Influent Diversion Sewers
- Morena Pump Station - Overflow Pipes
- Project Facilities**
- Morena Pump Station
- Sensitive Plants**
- Juncus acutus ssp. leopoldii*
- Jurisdictional Aquatic Resources**
- Non-wetland Waters (ACOE/RWQCB/CDFW)
- Wetland or Riparian Area (ACOE/RWQCB/CDFW)
- Vegetation Communities/Land Covers**
- ARU, Arundo-Dominated Riparian
- CAM, Cismontane Alkali Marsh
- DEV, Urban/Developed
- DEV-CC, Developed - Concrete Channel
- DH, Disturbed Habitat
- DW, Disturbed Wetland
- EUC, Eucalyptus Woodland
- FWM, Coastal and Valley Freshwater Marsh
- HW, Herbaceous Wetland
- MFS, Mulefat Scrub
- NNV, Non-native Vegetation
- NVC, Non-vegetated Channel or Floodway
- OW, Open Water
- SWS, Southern Willow Scrub
- dSWS, disturbed Southern Willow Scrub
- Multi-Habitat Planning Area



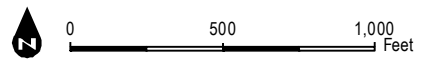
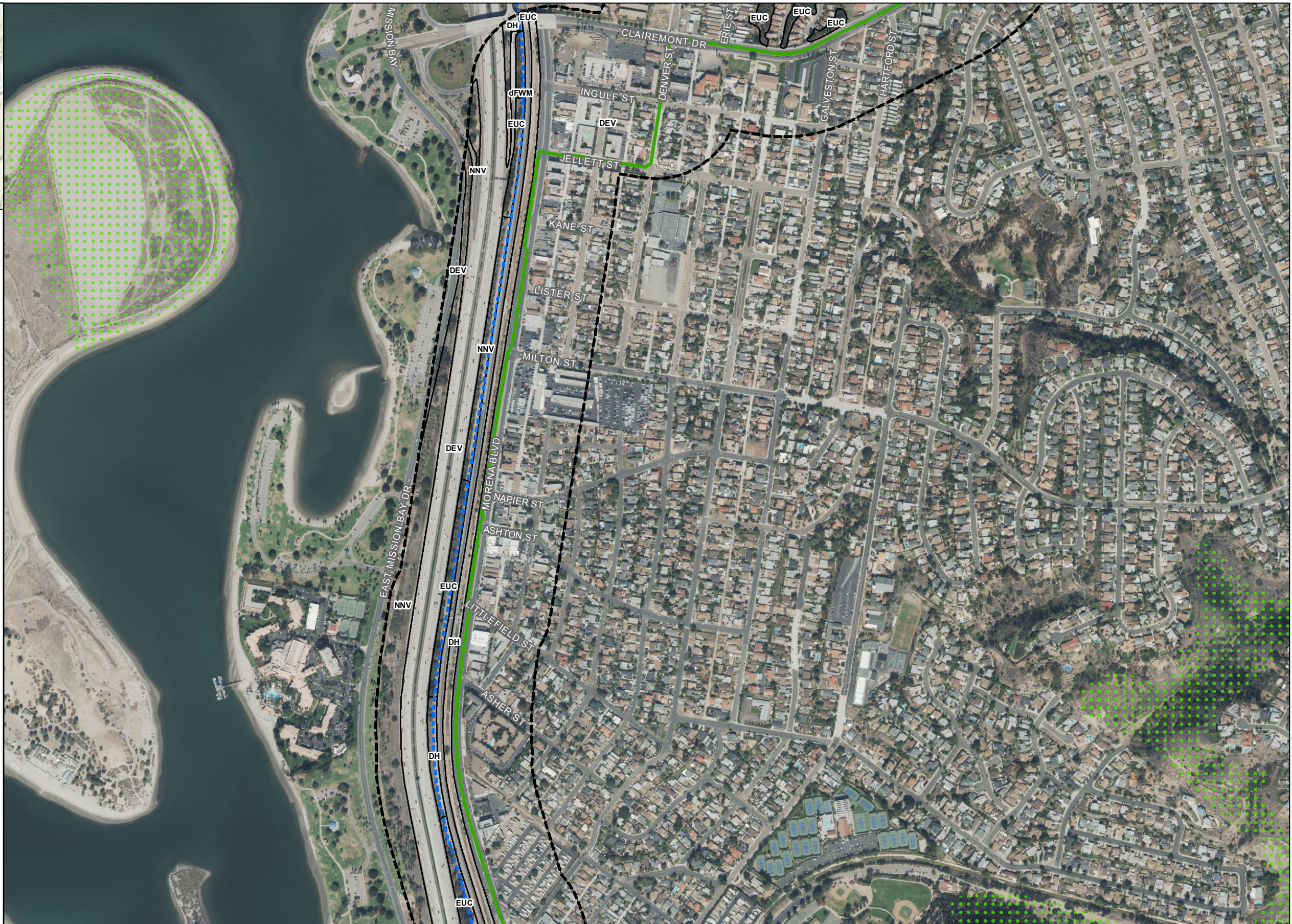
SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

**FIGURE 3-1A**  
Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

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- LEGEND**
- Project Study Area
  - Coastal Zone Boundary
  - Project Pipeline Alternatives**
  - Morena Wastewater Forcemain and Brine/Centrate Line
  - Vegetation Communities/Land Covers**
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNV, Non-native Vegetation
  - dFWM, disturbed Coastal and Valley Freshwater Marsh
  - Multi-Habitat Planning Area



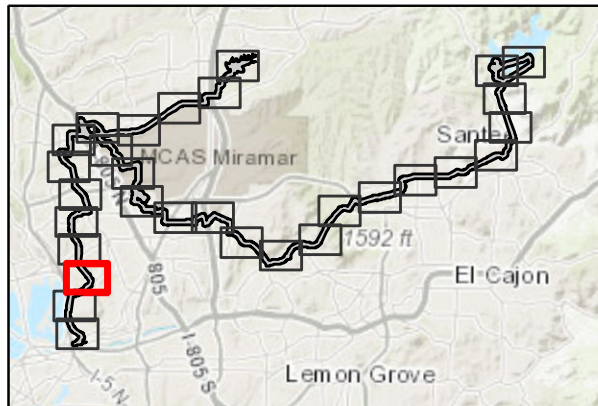
SOURCE: City of San Diego 2016, 2017; SANDAG, 2016



**FIGURE 3-1B**  
Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

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**LEGEND**

- Project Study Area
- Coastal Zone Boundary
- Project Pipeline Alternatives**
- Morena Wastewater Forcemain and Brine/Centrate Line
- Vegetation Communities/Land Covers**
- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- NNV, Non-native Vegetation
- Multi-Habitat Planning Area

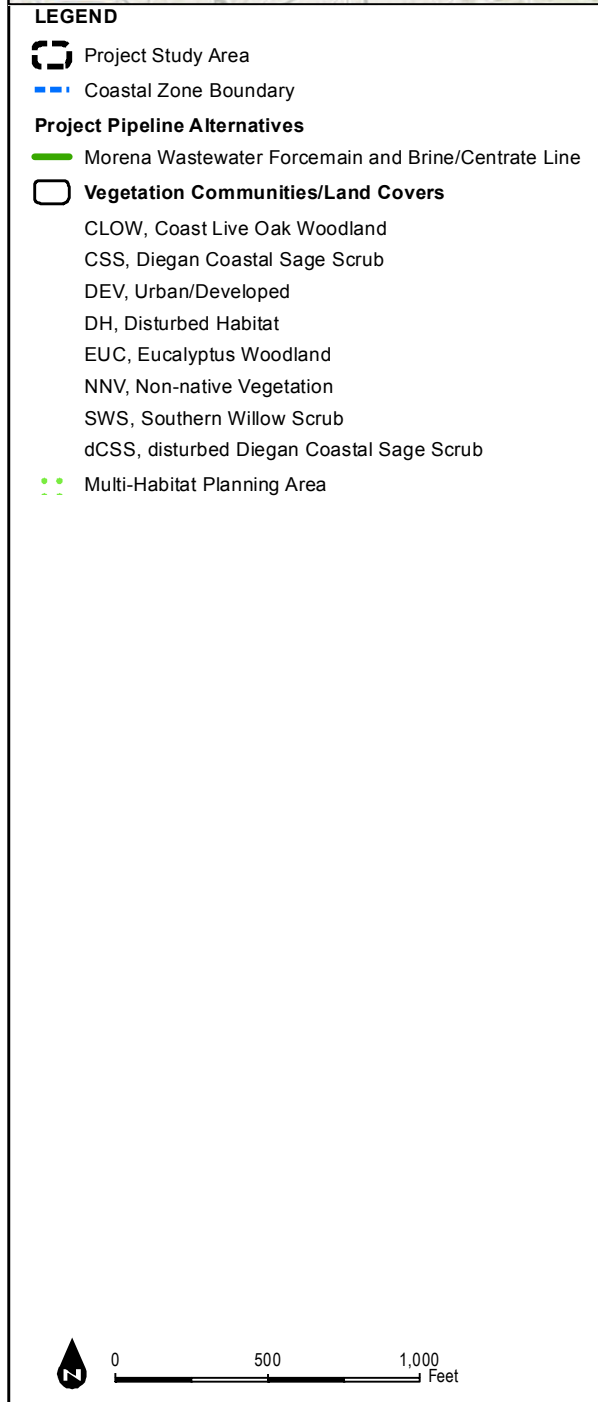
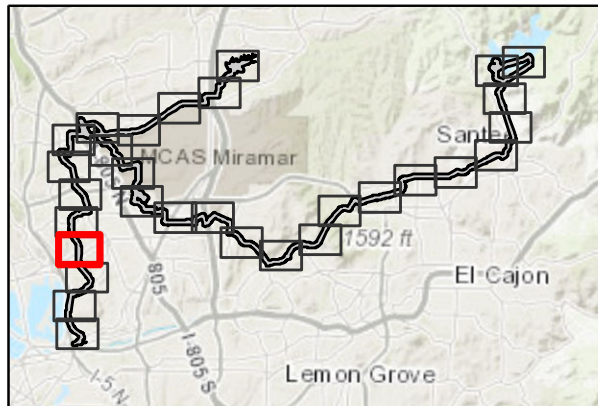
Scale: 0, 500, 1,000 Feet



**FIGURE 3-1C**

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

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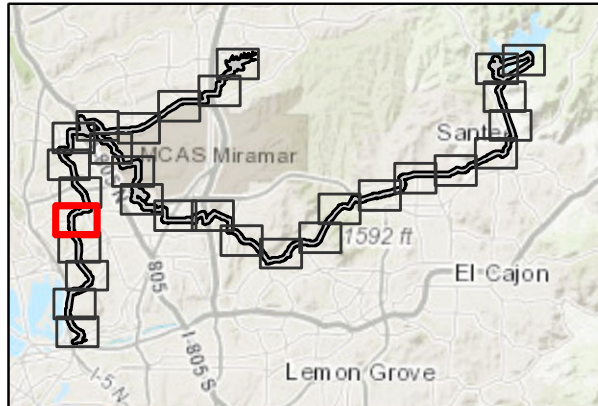


**FIGURE 3-1D**

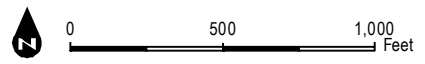
Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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- LEGEND**
- Project Study Area
  - Project Pipeline Alternatives**
  - Morena Wastewater Forcemain and Brine/Centrates Line
  - Vegetation Communities/Land Covers**
  - CLOW, Coast Live Oak Woodland
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - EUC, Eucalyptus Woodland
  - NNV, Non-native Vegetation
  - dSWS, disturbed Southern Willow Scrub
  - Multi-Habitat Planning Area



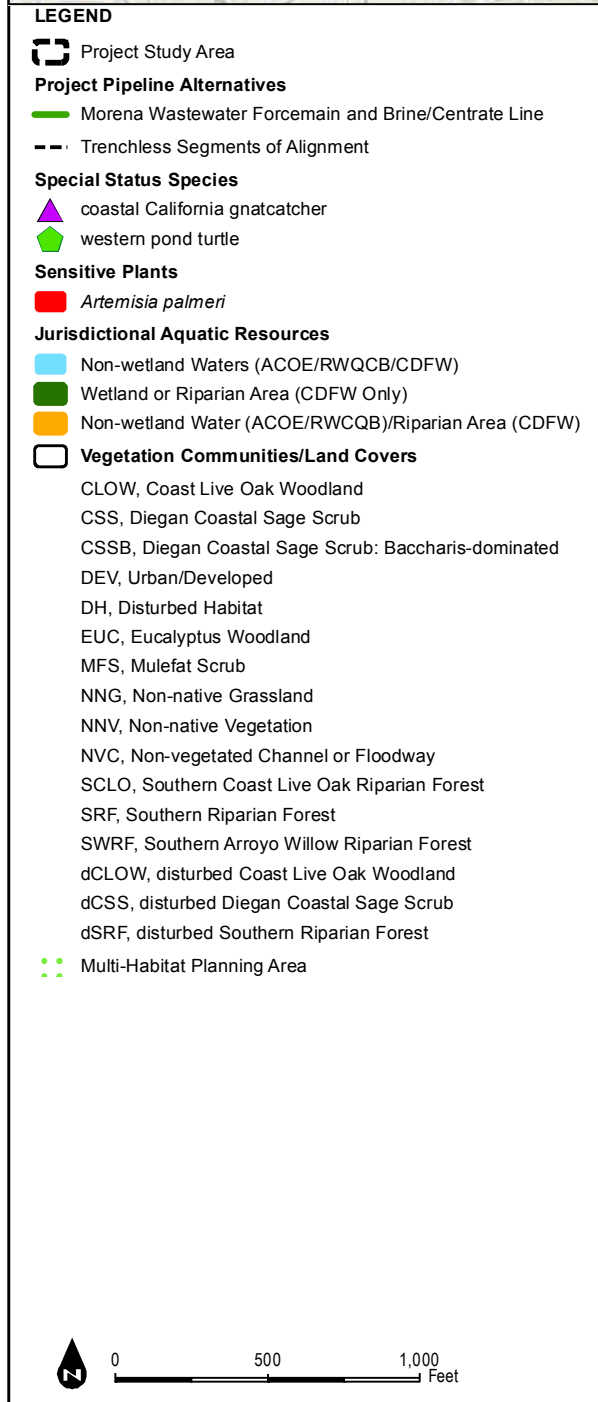
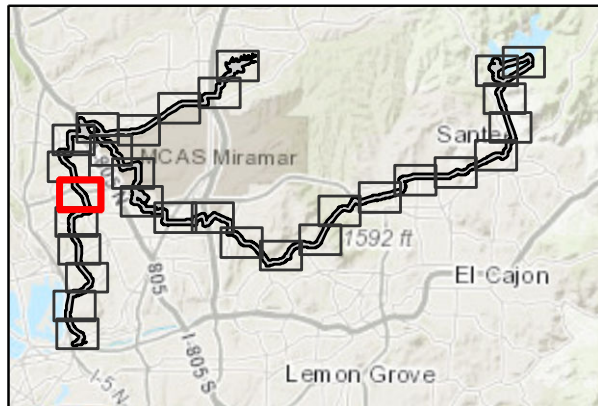
SOURCE: City of San Diego 2016, 2017; SANDAG, 2016



Biological Resources Report for the North City Project

**FIGURE 3-1E**  
Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

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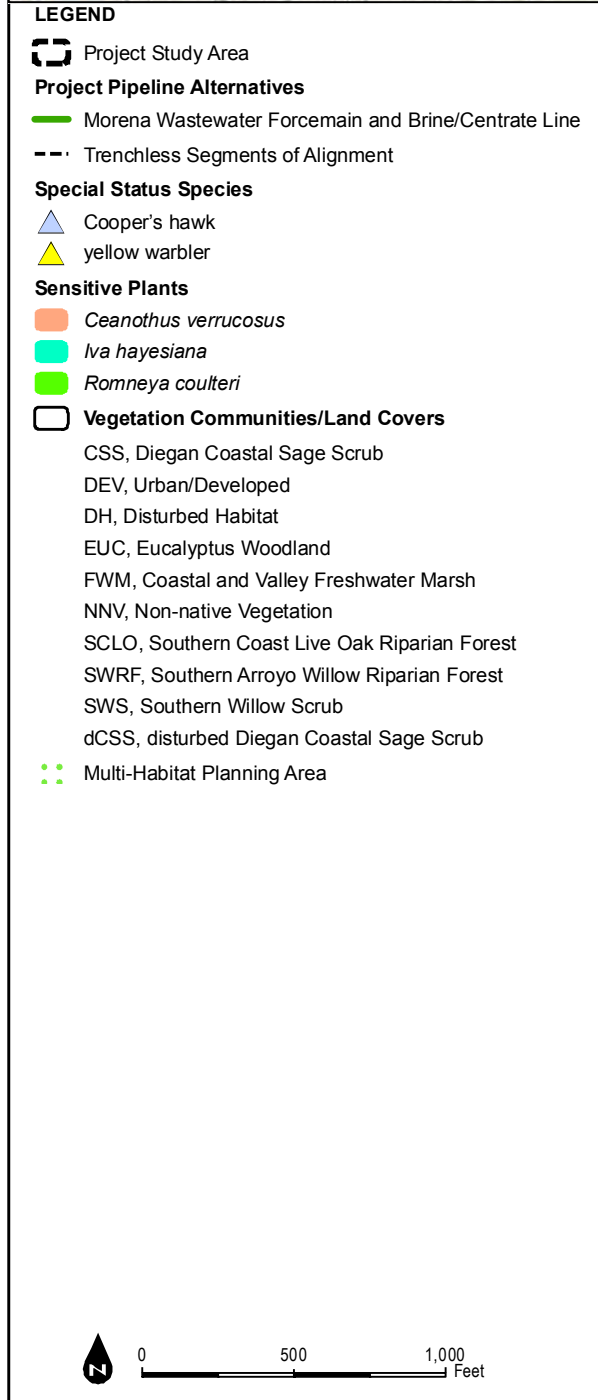
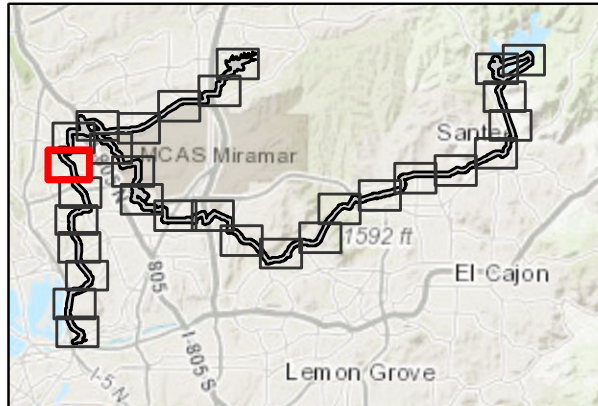


**FIGURE 3-1F**

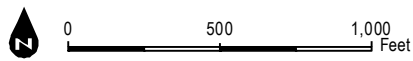
Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

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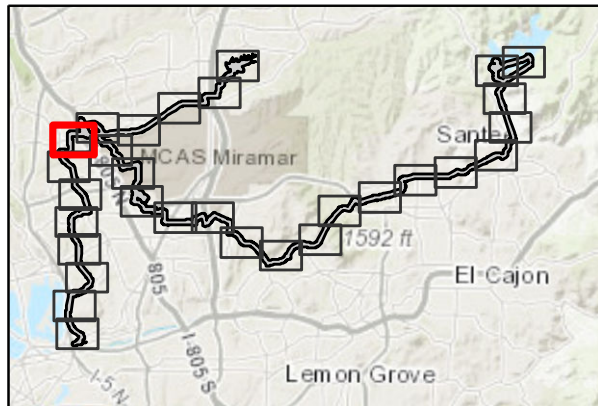
- LEGEND**
- Project Study Area
  - Project Pipeline Alternatives**
  - Morena Wastewater Forcemain and Brine/Centrates Line
  - Trenchless Segments of Alignment
  - Special Status Species**
  - Cooper's hawk
  - Yellow warbler
  - Sensitive Plants**
  - Ceanothus verrucosus*
  - Iva hayesiana*
  - Romneya coulteri*
  - Vegetation Communities/Land Covers**
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - FWM, Coastal and Valley Freshwater Marsh
  - NNV, Non-native Vegetation
  - SCLO, Southern Coast Live Oak Riparian Forest
  - SWRF, Southern Arroyo Willow Riparian Forest
  - SWS, Southern Willow Scrub
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - Multi-Habitat Planning Area



SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

**FIGURE 3-1G**  
Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

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**LEGEND**

**Project Study Area**

- Project Pipeline Alternatives
- North City Pure Water Pipeline
- Morena Wastewater Forcemain and Brine/Centrates Line
- San Vicente Pure Water Pipeline
- Landfill Gas Pipeline
- Trenchless Segments of Alignment
- Air Valve and Blow-Off Valve Work Areas (10'x10') - For San Vicente Reservoir Alternative

**Project Facilities**

- North City Pure Water Facility
- North City Water Reclamation Plant Expansion
- North City Pure Water Renewable Energy Facility
- North City Pure Water Facility Influent Pump Station

**Special Status Species**

- Cooper's hawk
- coastal California gnatcatcher

**Sensitive Plants**

- Holocarpha virgata* ssp. *elongata*
- Iva hayesiana*
- Quercus dumosa*
- Selaginella cinerascens*
- Viguiera laciniata*

**Basin Data**

- Vernal pool
- Basin (SDFS present)
- Basin
- MCAS Mapped Watershed

**Jurisdictional Aquatic Resources**

- Wetland or Riparian Area (CDFW Only)

**Vegetation Communities/Land Covers**

- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- FWM, Coastal and Valley Freshwater Marsh
- MFS, Mulefat Scrub
- NNG, Non-native Grassland
- NNV, Non-native Vegetation
- SCLO, Southern Coast Live Oak Riparian Forest
- VP, Vernal Pool
- dCSS, disturbed Diegan Coastal Sage Scrub
- Multi-Habitat Planning Area

0 500 1,000 Feet

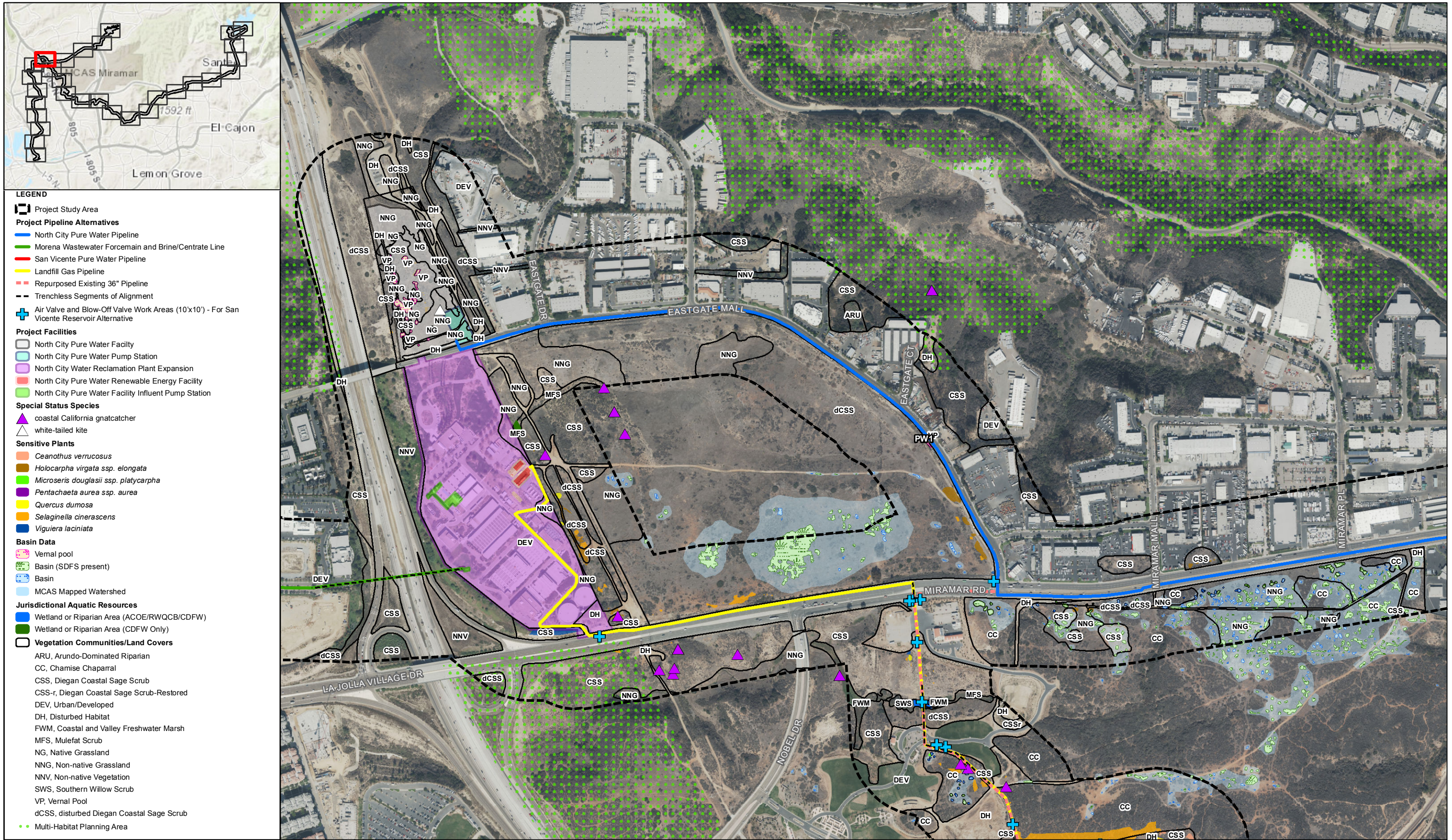


**FIGURE 3-1H**

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

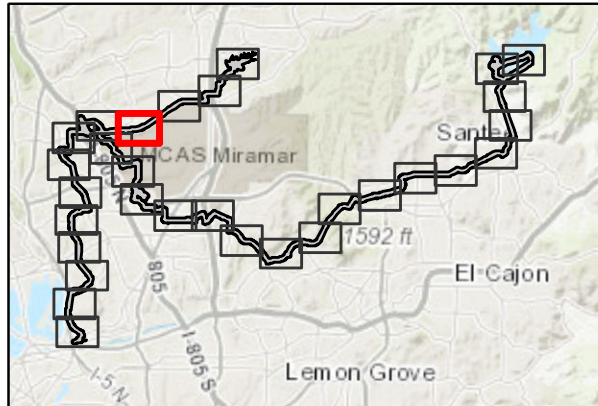
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**FIGURE 3-11**

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

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**LEGEND**

- Project Study Area
- Project Pipeline Alternatives**
- North City Pure Water Pipeline
- Trenchless Segments of Alignment
- Special Status Species**
- coastal California gnatcatcher
- Sensitive Plants**
- Iva hayesiana*
- Basin Data**
- Basin (SDFS present)
- Basin
- MCAS Mapped Watershed
- Vegetation Communities/Land Covers**
- CC, Chamise Chaparral
- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- NNG, Non-native Grassland
- NNV, Non-native Vegetation
- SMX, Southern Mixed Chaparral
- dCSS, disturbed Diegan Coastal Sage Scrub
- Multi-Habitat Planning Area

0 500 1,000 Feet

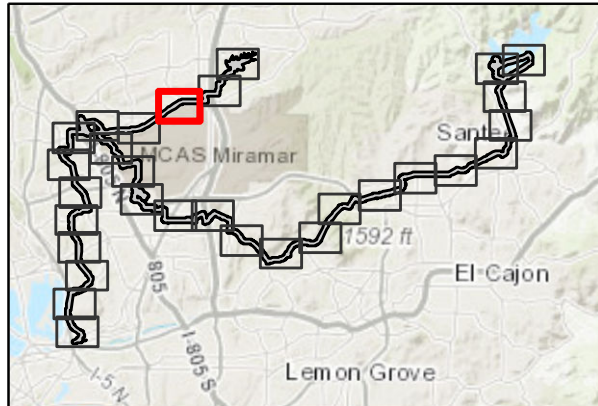


**FIGURE 3-1J**

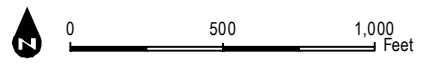
Biological Resources - Miramar Reservoir Alternative

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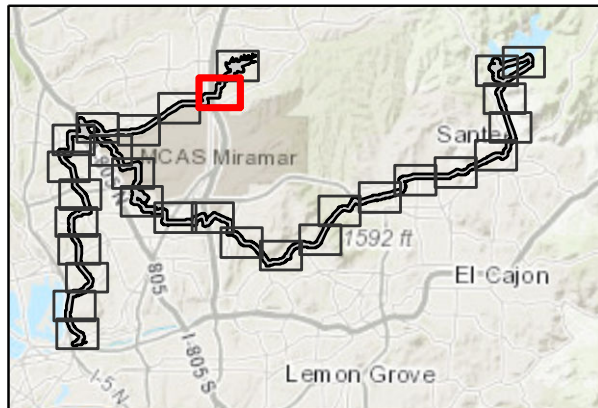


- LEGEND**
- Project Study Area
  - Project Pipeline Alternatives**
  - North City Pure Water Pipeline
  - Vegetation Communities/Land Covers**
  - CSSB, Diegan Coastal Sage Scrub: Baccharis-dominated
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - SWS, Southern Willow Scrub

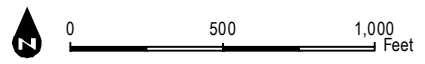
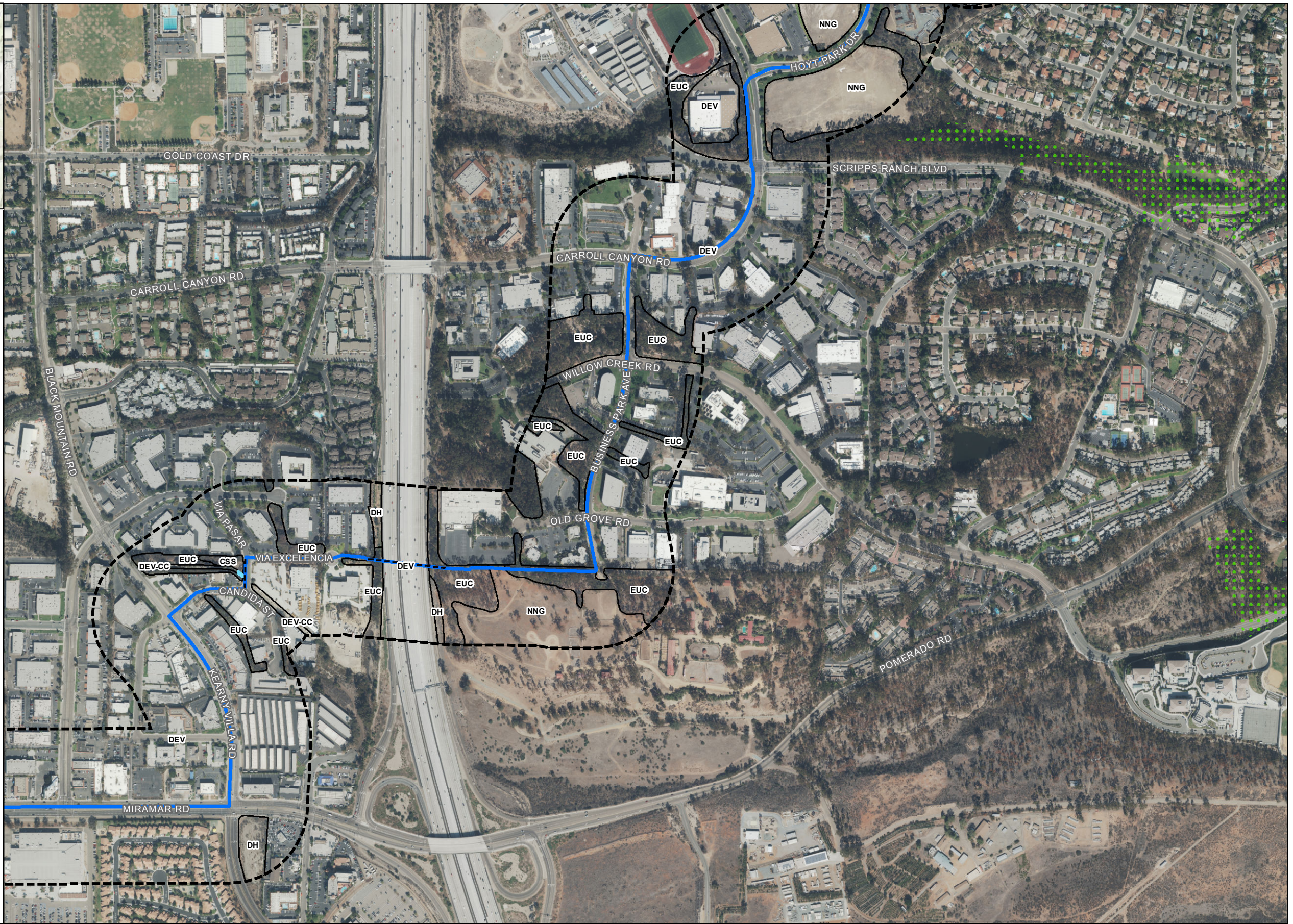


SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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- LEGEND**
- Project Study Area
  - Project Pipeline Alternatives**
    - North City Pure Water Pipeline
    - Trenchless Segments of Alignment
  - Jurisdictional Aquatic Resources**
    - Non-wetland Waters (ACOE/RWQCB/CDFW)
  - Vegetation Communities/Land Covers**
    - CSS, Diegan Coastal Sage Scrub
    - DEV, Urban/Developed
    - DEV-CC, Developed - Concrete Channel
    - DH, Disturbed Habitat
    - EUC, Eucalyptus Woodland
    - NNG, Non-native Grassland
  - Multi-Habitat Planning Area

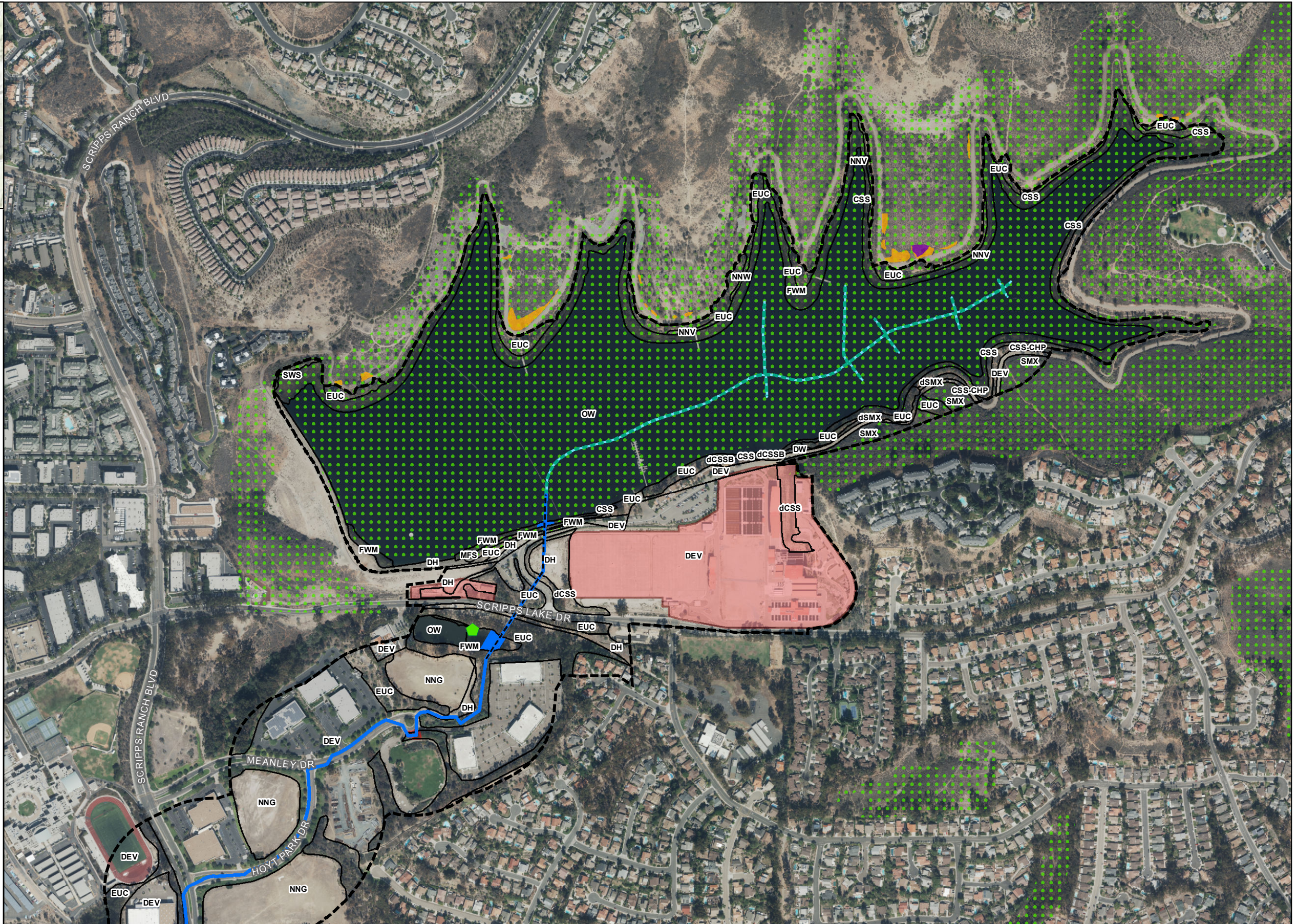
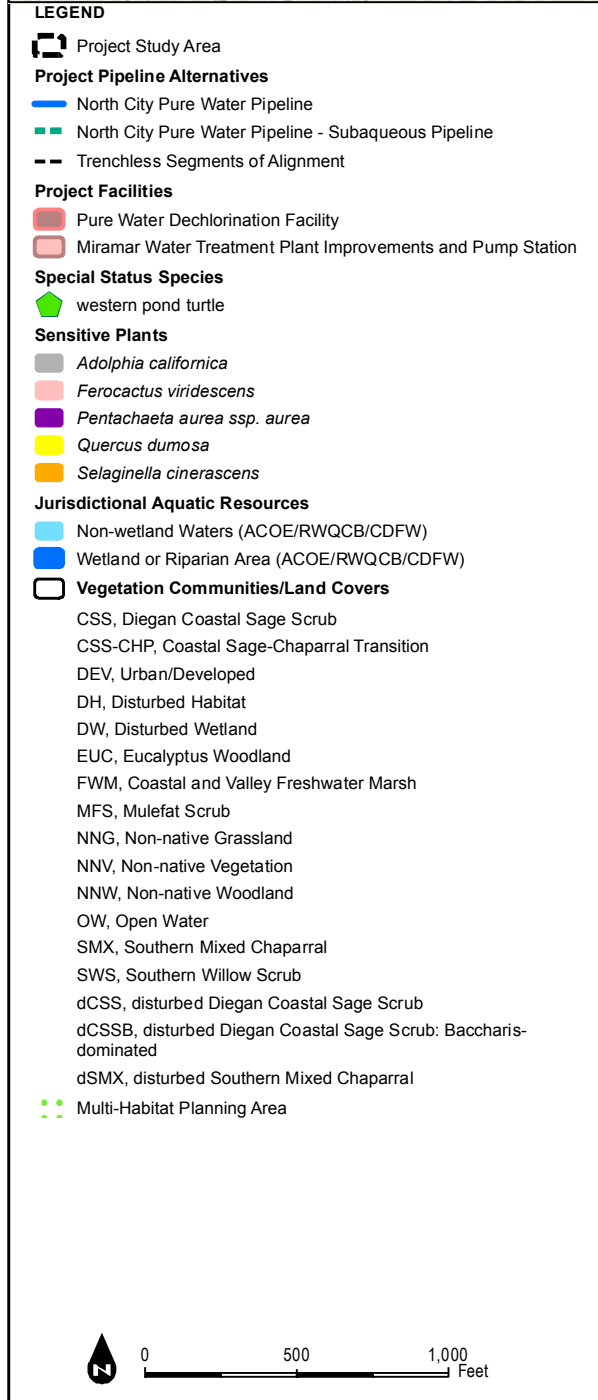
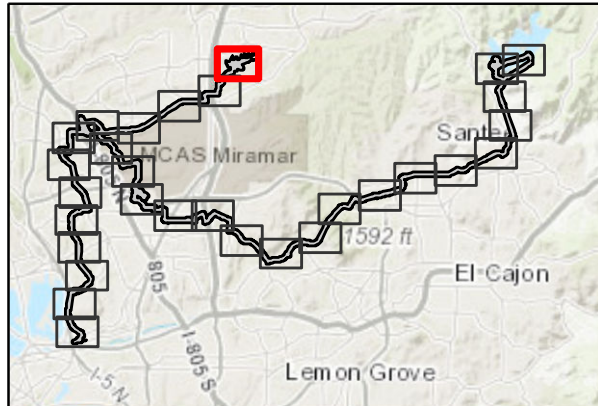


SOURCE: City of San Diego 2016, 2017; SANDAG, 2016



**FIGURE 3-1L**  
Biological Resources - Miramar Reservoir Alternative

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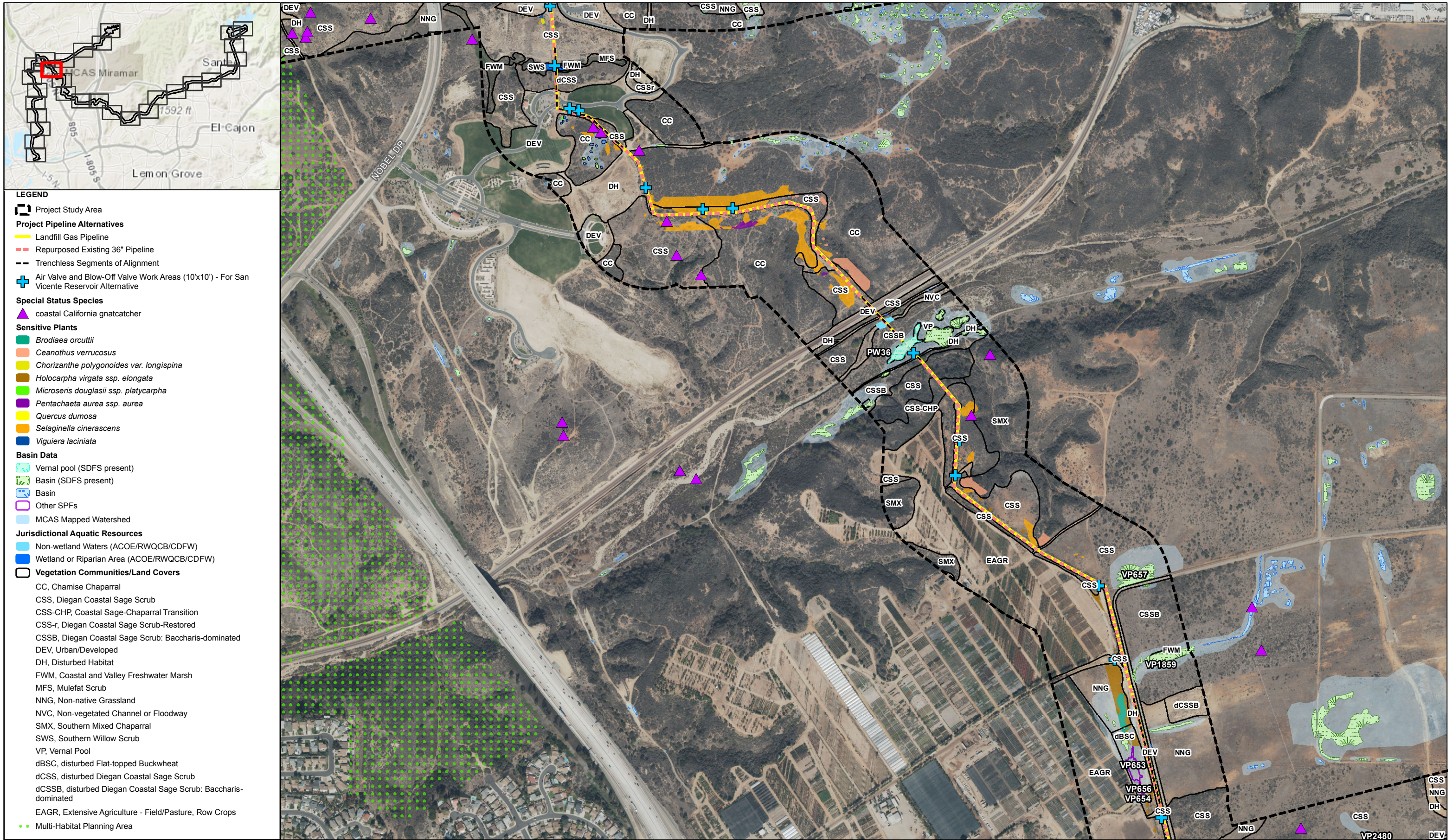


**FIGURE 3-1M**

Biological Resources - Miramar Reservoir Alternative

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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**LEGEND**

**Project Study Area**

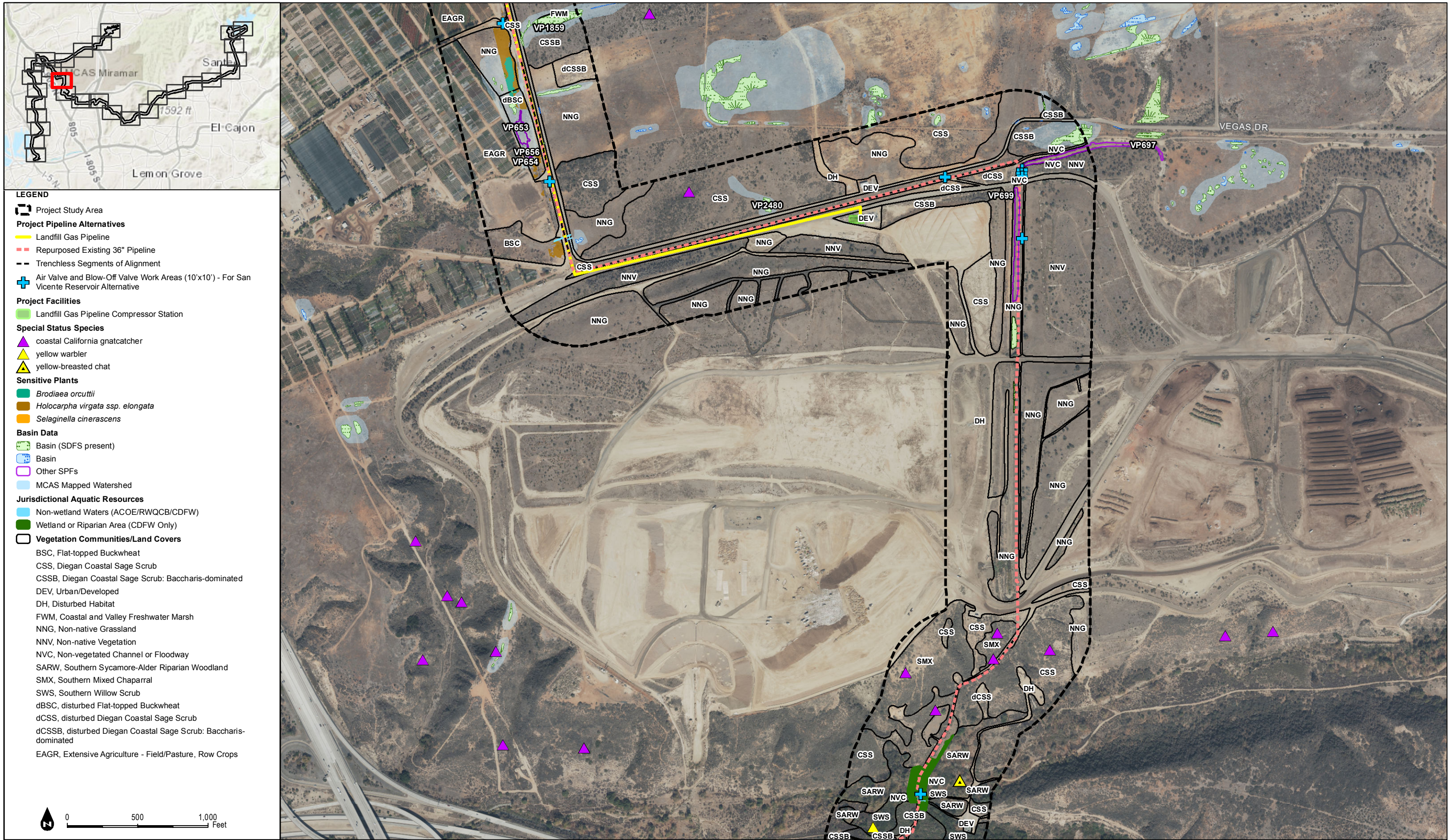
- Project Pipeline Alternatives
  - Landfill Gas Pipeline
  - Repurposed Existing 36" Pipeline
  - Trenchless Segments of Alignment
  - Air Valve and Blow-Off Valve Work Areas (10'x10') - For San Vicente Reservoir Alternative
- Special Status Species**
  - coastal California gnatcatcher
- Sensitive Plants**
  - Brodiaea orcuttii*
  - Ceanothus verrucosus*
  - Chorizanthe polygonoides* var. *longispina*
  - Holocarpha virgata* ssp. *elongata*
  - Microseris douglasii* ssp. *platycarpa*
  - Pentachaeta aurea* ssp. *aurea*
  - Quercus dumosa*
  - Selaginella cinerascens*
  - Viguiera laciniata*
- Basin Data**
  - Vernal pool (SDFS present)
  - Basin (SDFS present)
  - Basin
  - Other SPFs
  - MCAS Mapped Watershed
- Jurisdictional Aquatic Resources**
  - Non-wetland Waters (ACOE/RWQCB/CDFW)
  - Wetland or Riparian Area (ACOE/RWQCB/CDFW)
- Vegetation Communities/Land Covers**
  - CC, Chamise Chaparral
  - CSS, Diegan Coastal Sage Scrub
  - CSS-CHP, Coastal Sage-Chaparral Transition
  - CSS-r, Diegan Coastal Sage Scrub-Restored
  - CSSB, Diegan Coastal Sage Scrub: Baccharis-dominated
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - FWM, Coastal and Valley Freshwater Marsh
  - MFS, Mulefat Scrub
  - NNG, Non-native Grassland
  - NVC, Non-vegetated Channel or Floodway
  - SMX, Southern Mixed Chaparral
  - SWS, Southern Willow Scrub
  - VP, Vernal Pool
  - dBSC, disturbed Flat-topped Buckwheat
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - dCSSB, disturbed Diegan Coastal Sage Scrub: Baccharis-dominated
  - EAGR, Extensive Agriculture - Field/Pasture, Row Crops
  - Multi-Habitat Planning Area

**FIGURE 3-1N**

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

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**LEGEND**

**Project Study Area**

- Project Study Area

**Project Pipeline Alternatives**

- Landfill Gas Pipeline
- Repurposed Existing 36" Pipeline
- Trenchless Segments of Alignment
- Air Valve and Blow-Off Valve Work Areas (10'x10') - For San Vicente Reservoir Alternative

**Project Facilities**

- Landfill Gas Pipeline Compressor Station

**Special Status Species**

- coastal California gnatcatcher
- yellow warbler
- yellow-breasted chat

**Sensitive Plants**

- Brodiaea orcuttii*
- Holocarpha virgata ssp. elongata*
- Selaginella cinerascens*

**Basin Data**

- Basin (SDFS present)
- Basin
- Other SPFs
- MCAS Mapped Watershed

**Jurisdictional Aquatic Resources**

- Non-wetland Waters (ACOE/RWQCB/CDFW)
- Wetland or Riparian Area (CDFW Only)

**Vegetation Communities/Land Covers**

- BSC, Flat-topped Buckwheat
- CSS, Diegan Coastal Sage Scrub
- CSSB, Diegan Coastal Sage Scrub: Baccharis-dominated
- DEV, Urban/Developed
- DH, Disturbed Habitat
- FWM, Coastal and Valley Freshwater Marsh
- NNG, Non-native Grassland
- NNV, Non-native Vegetation
- NVC, Non-vegetated Channel or Floodway
- SARW, Southern Sycamore-Alder Riparian Woodland
- SMX, Southern Mixed Chaparral
- SWS, Southern Willow Scrub
- dBSC, disturbed Flat-topped Buckwheat
- dCSS, disturbed Diegan Coastal Sage Scrub
- dCSSB, disturbed Diegan Coastal Sage Scrub: Baccharis-dominated
- EAGR, Extensive Agriculture - Field/Pasture, Row Crops

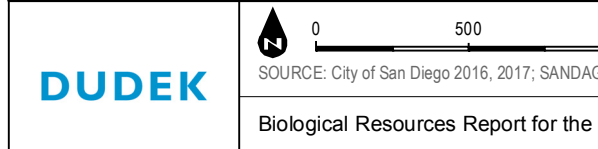
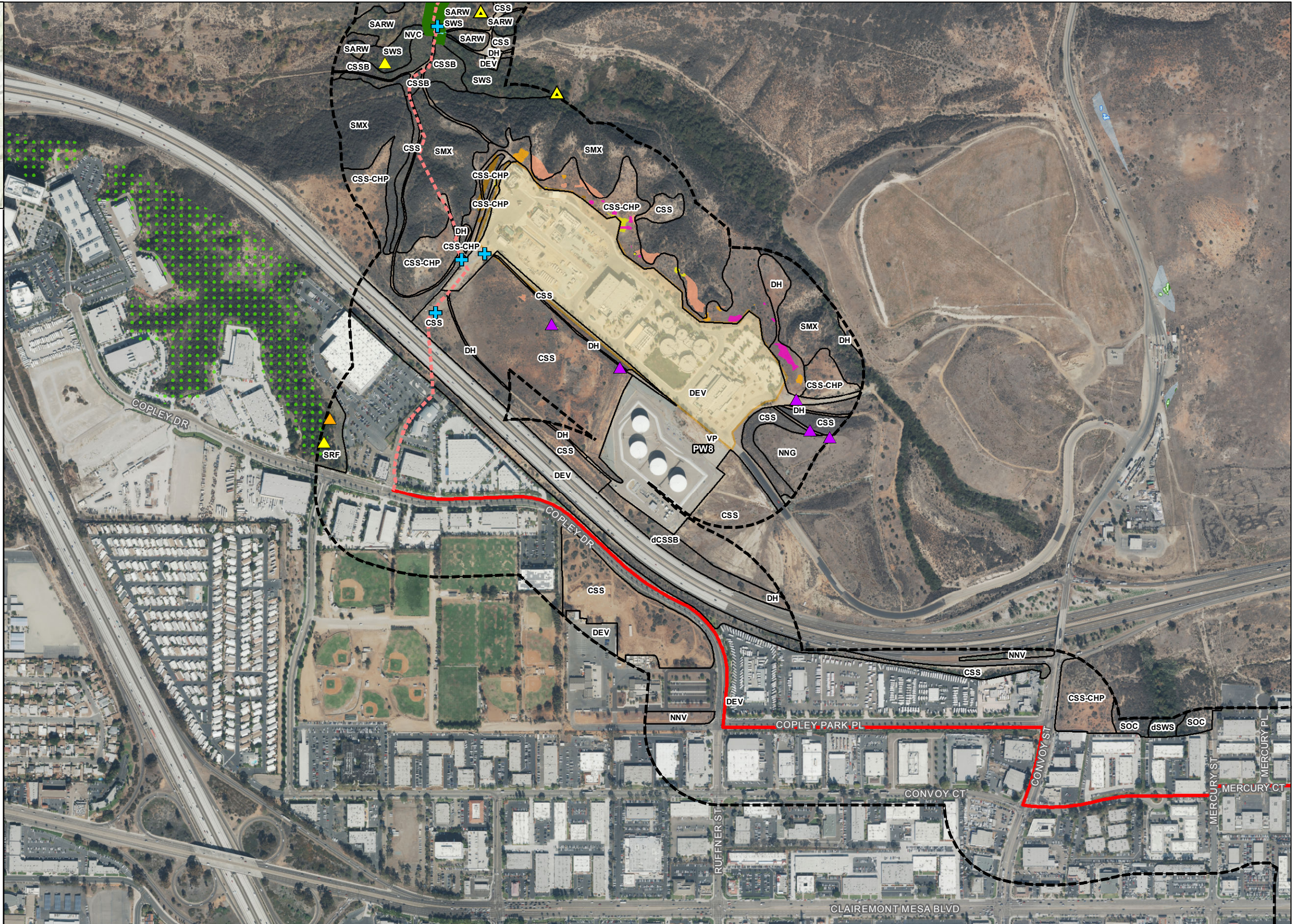
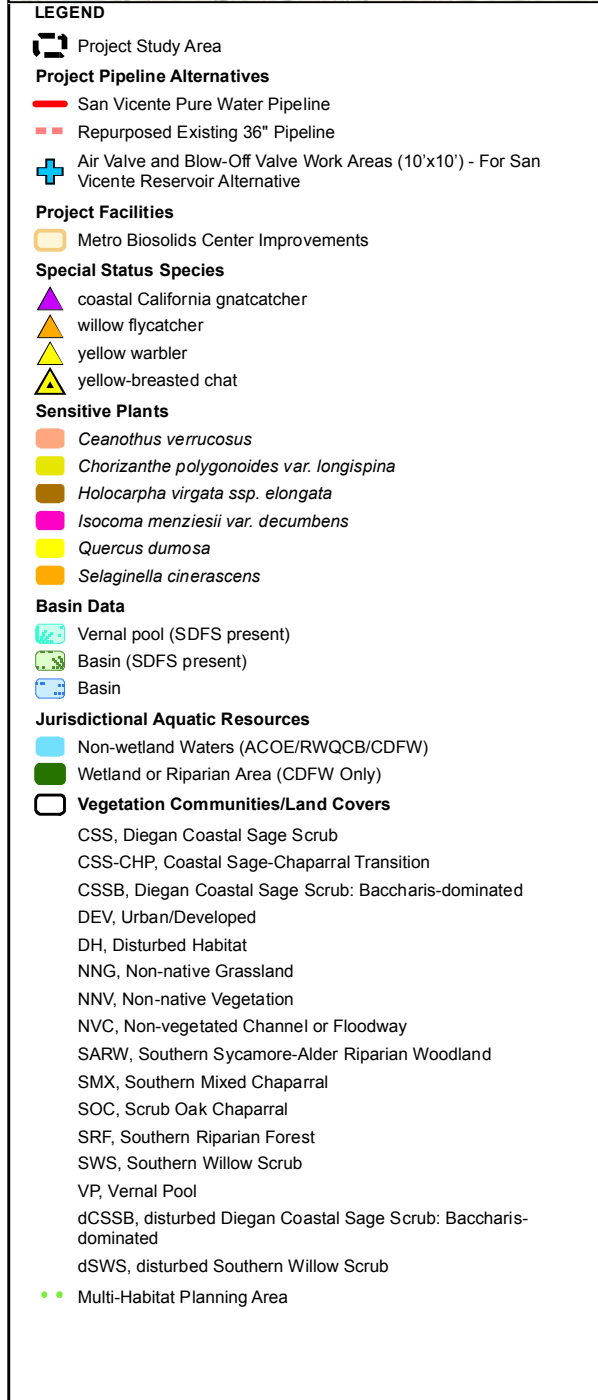
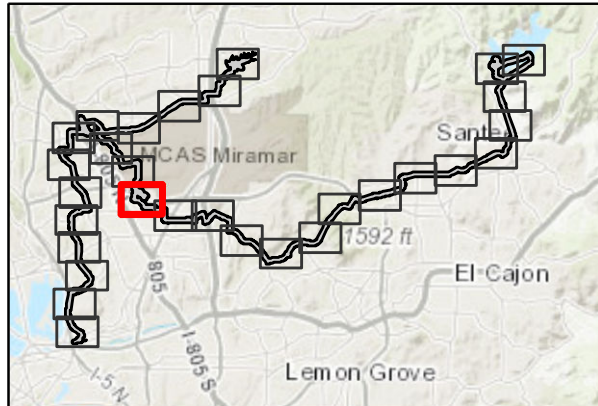
**FIGURE 3-10**

Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

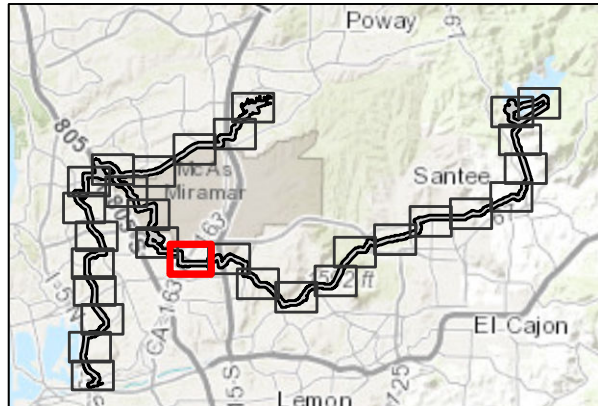


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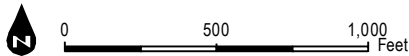


**FIGURE 3-1P**  
Biological Resources - Miramar Reservoir and San Vicente Reservoir Alternatives

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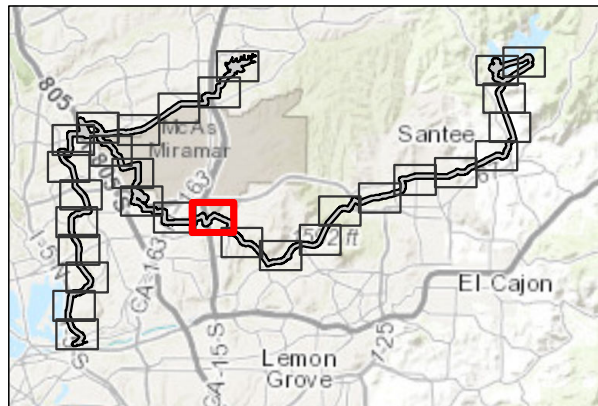


- LEGEND**
- Project Study Area
  - Project Pipeline Alternatives**
  - San Vicente Pure Water Pipeline
  - Trenchless Segments of Alignment
  - Vegetation Communities/Land Covers**
  - CSS, Diegan Coastal Sage Scrub
  - CSS-CHP, Coastal Sage-Chaparral Transition
  - DEV, Urban/Developed
  - EUC, Eucalyptus Woodland
  - FWM, Coastal and Valley Freshwater Marsh
  - NNV, Non-native Vegetation
  - SOC, Scrub Oak Chaparral
  - dSWS, disturbed Southern Willow Scrub
  - Multi-Habitat Planning Area



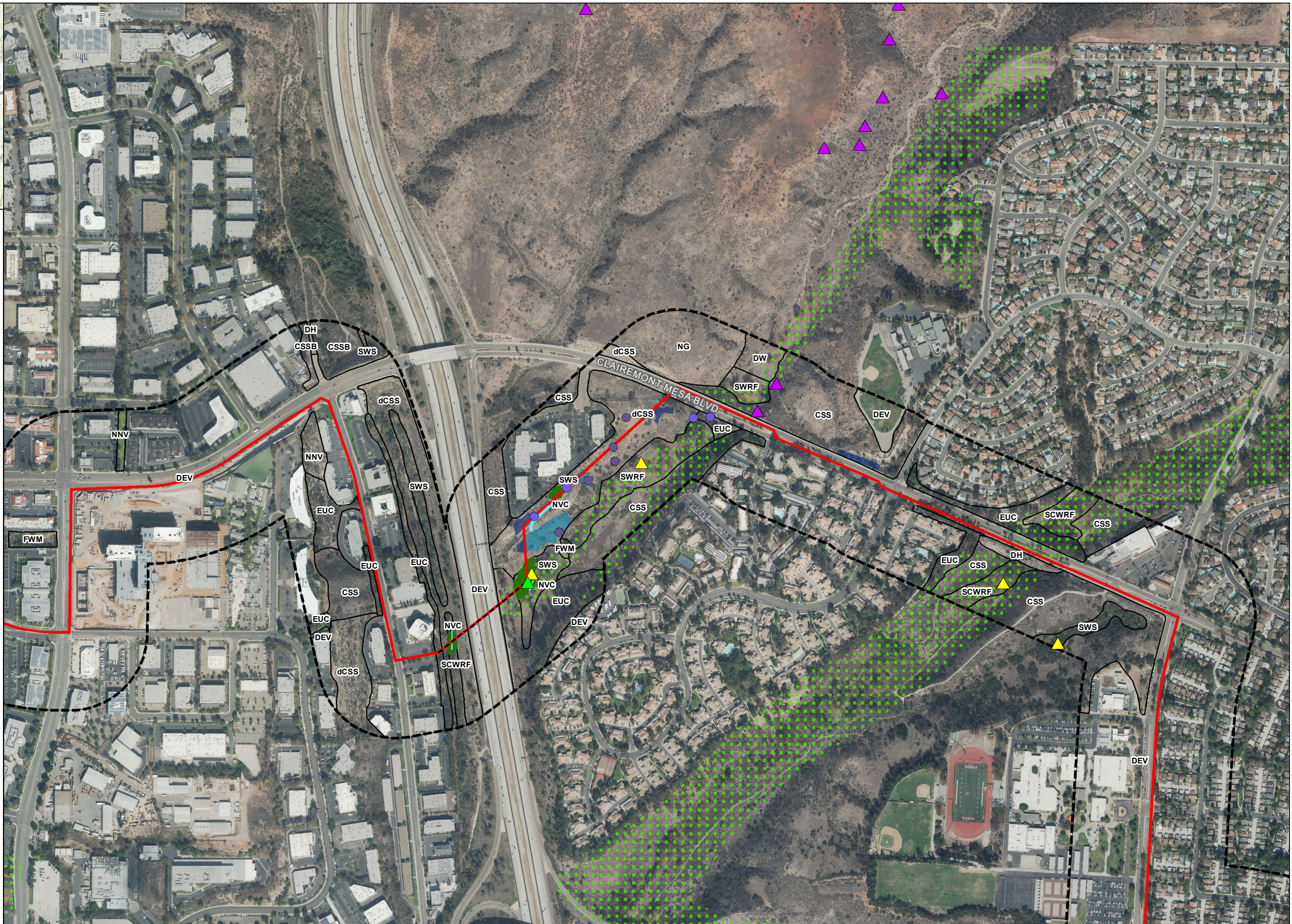
SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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**LEGEND**

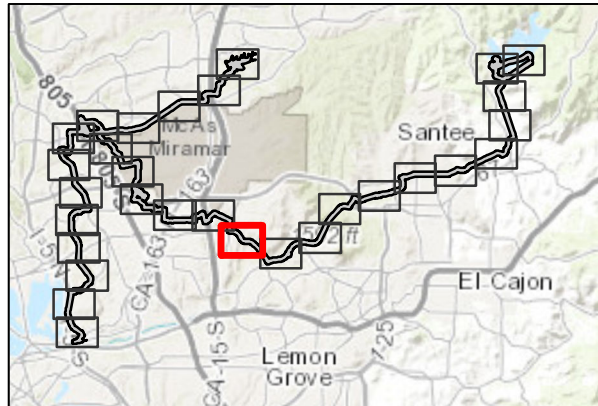
- Project Study Area
- Project Pipeline Alternatives**
  - San Vicente Pure Water Pipeline
  - Trenchless Segments of Alignment
- Special Status Species**
  - coastal California gnatcatcher
  - least Bell's vireo
  - yellow warbler
- Sensitive Plants**
  - Ferocactus viridescens*
  - Viguiera laciniata*
  - Lepidium virginicum* var. *robinsonii*
  - Viguiera laciniata*
- Jurisdictional Aquatic Resources**
  - Non-wetland Waters (ACOE/RWQCB/CDFW)
  - Wetland or Riparian Area (CDFW Only)
- Vegetation Communities/Land Covers**
  - CSS, Diegan Coastal Sage Scrub
  - CSSB, Diegan Coastal Sage Scrub: Baccharis-dominated
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - DW, Disturbed Wetland
  - EUC, Eucalyptus Woodland
  - FWM, Coastal and Valley Freshwater Marsh
  - NG, Native Grassland
  - NNV, Non-native Vegetation
  - NVC, Non-vegetated Channel or Floodway
  - SCWRF, Southern Cottonwood-Willow Riparian Forest
  - SWRF, Southern Arroyo Willow Riparian Forest
  - SWS, Southern Willow Scrub
  - dCSS, disturbed Diegan Coastal Sage Scrub
  - Multi-Habitat Planning Area



SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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**LEGEND**

- Project Study Area
- Project Pipeline Alternatives**
- San Vicente Pure Water Pipeline
- Special Status Species**
- Cooper's hawk
- yellow warbler
- Sensitive Plants**
- Viguiera laciniata*
- Vegetation Communities/Land Covers**
- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- NNV, Non-native Vegetation
- SWS, Southern Willow Scrub
- dCSS, disturbed Diegan Coastal Sage Scrub
- Multi-Habitat Planning Area

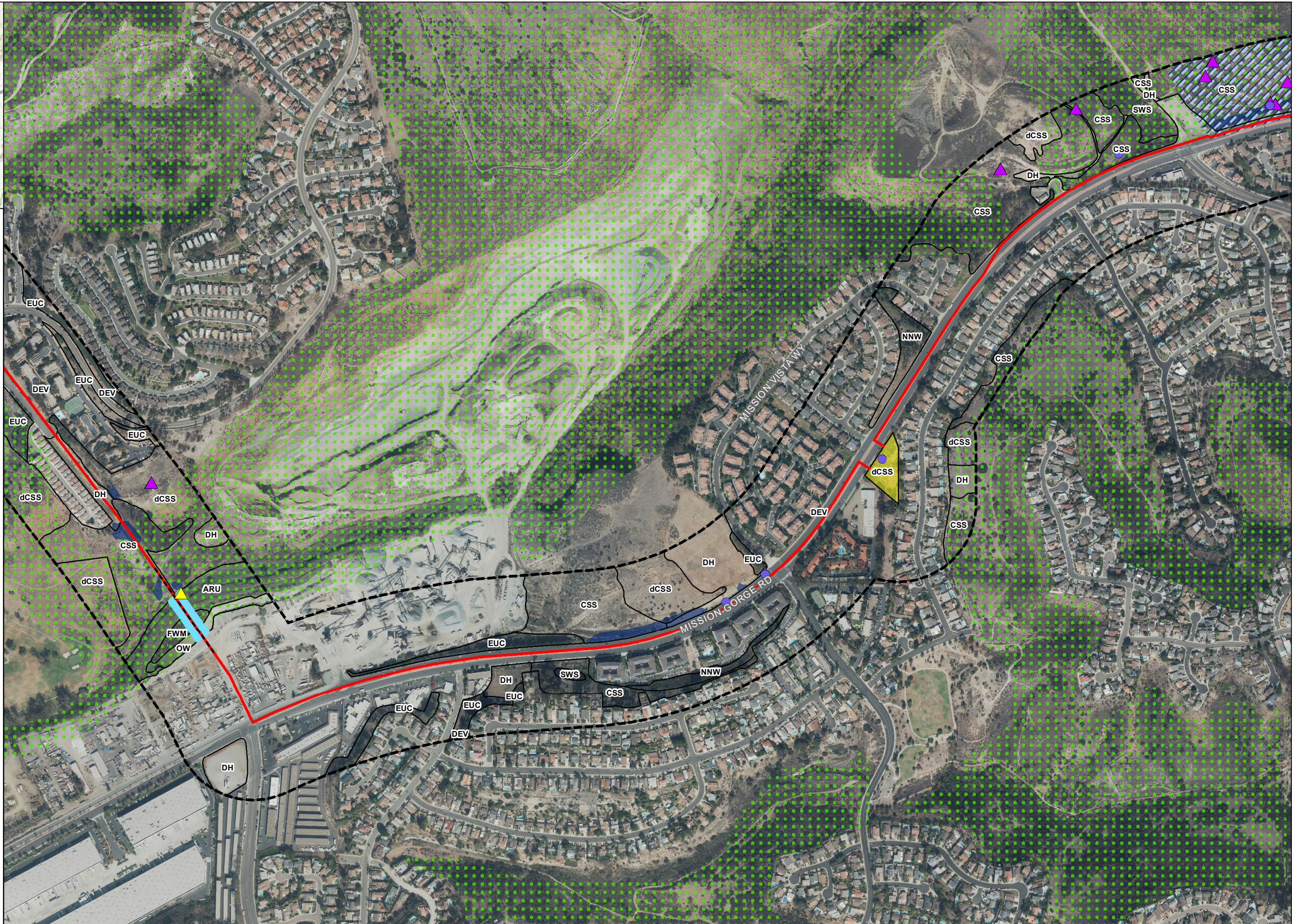
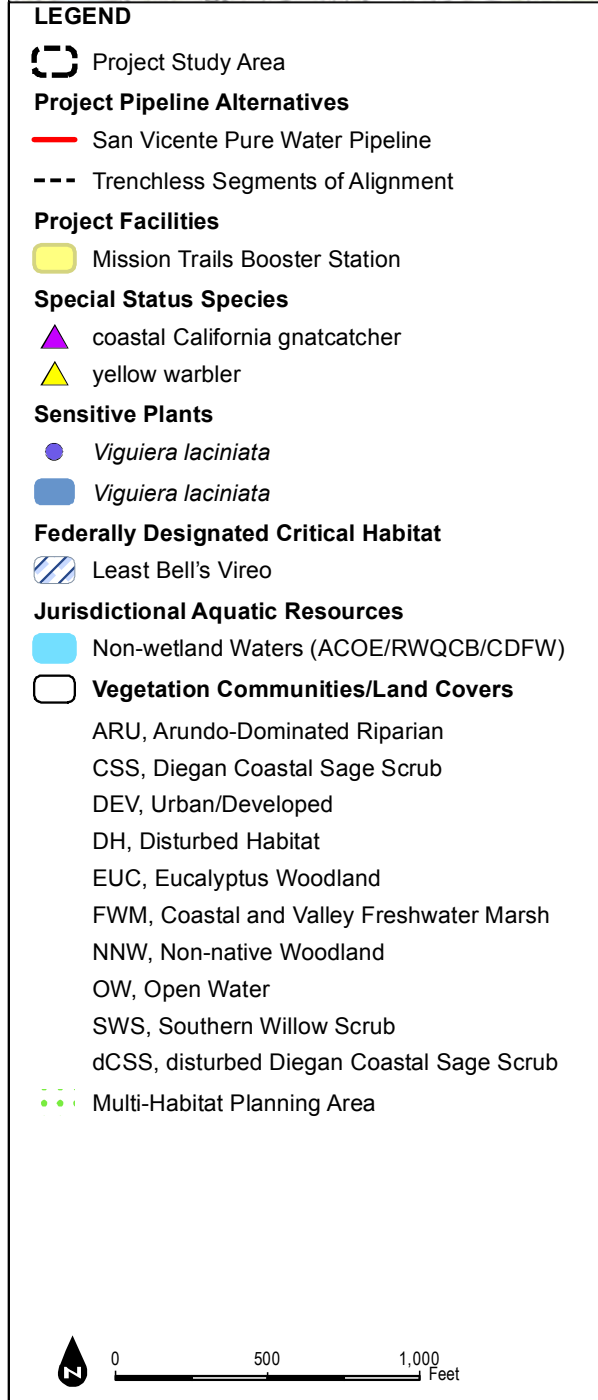
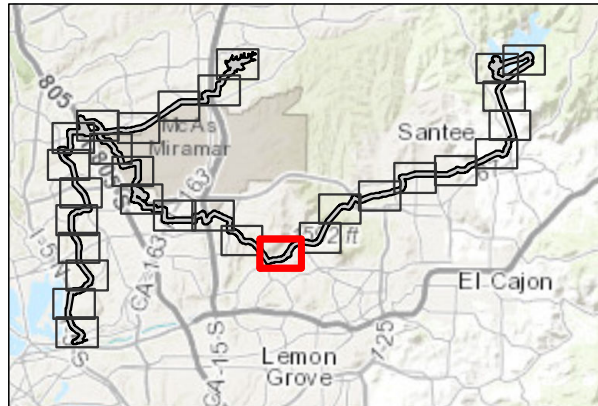


**FIGURE 3-1S**

Biological Resources - San Vicente Reservoir Alternative

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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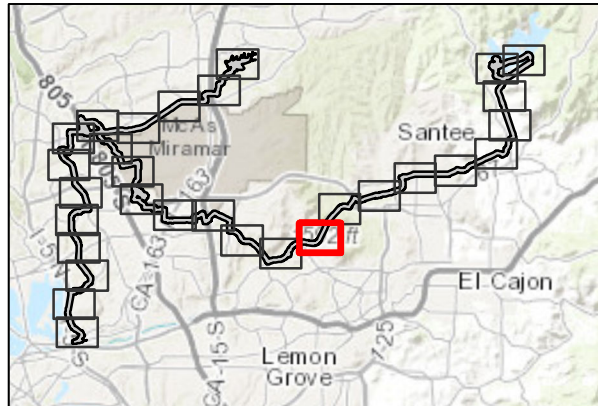


**FIGURE 3-1T**

Biological Resources - San Vicente Reservoir Alternative

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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**LEGEND**

Project Study Area

**Project Pipeline Alternatives**

San Vicente Pure Water Pipeline

**Special Status Species**

- coastal California gnatcatcher
- mule deer
- orangethroat whiptail
- rosy boa
- southern California rufous-crowned sparrow
- two-striped gartersnake

**Sensitive Plants**

- Lepidium virginicum* var. *robinsonii*
- Viguiera laciniata*

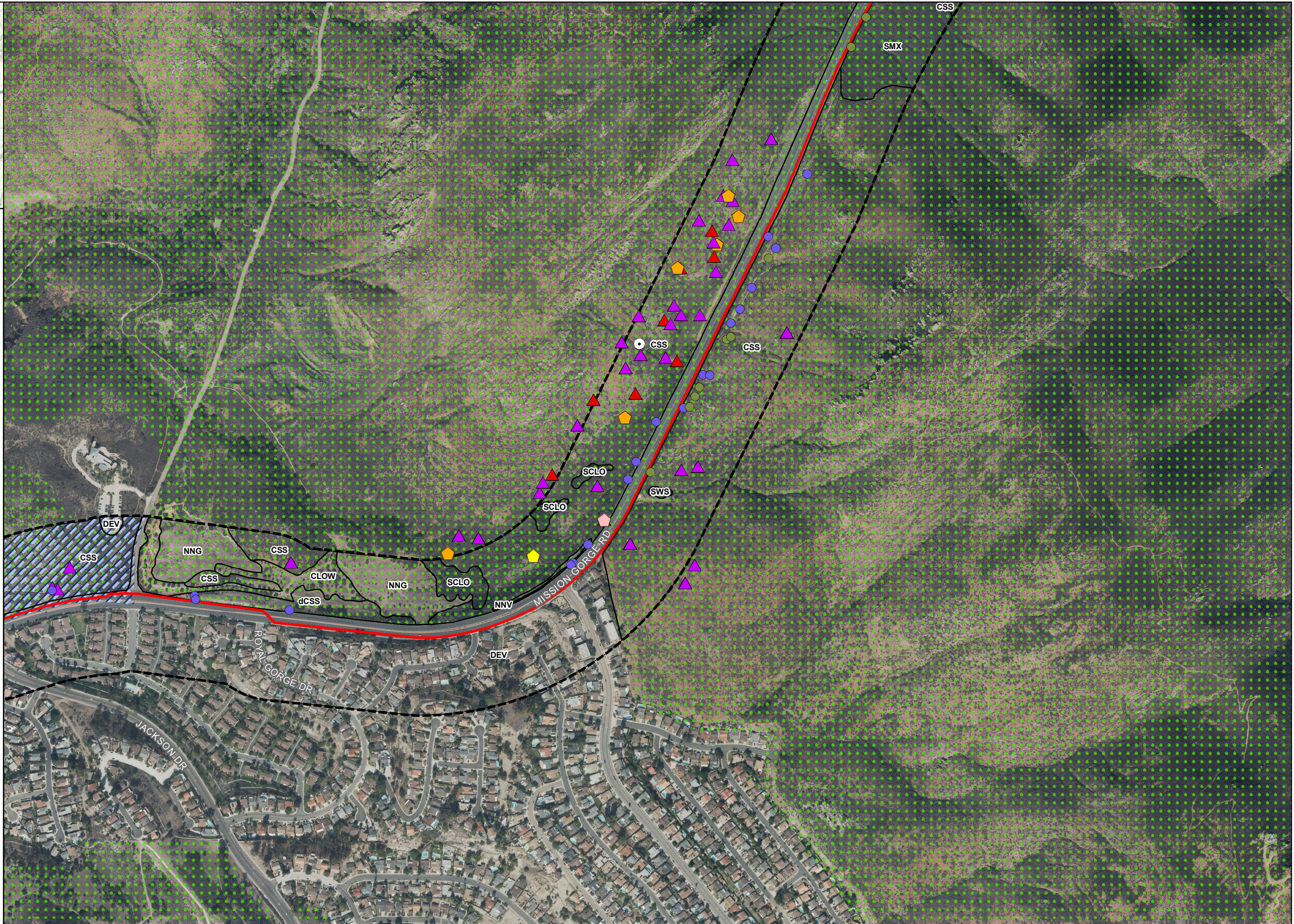
**Federally Designated Critical Habitat**

Least Bell's Vireo

**Vegetation Communities/Land Covers**

- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- NNG, Non-native Grassland
- NNV, Non-native Vegetation
- SCLO, Southern Coast Live Oak Riparian Forest
- SMX, Southern Mixed Chaparral
- SWS, Southern Willow Scrub
- dCSS, disturbed Diegan Coastal Sage Scrub

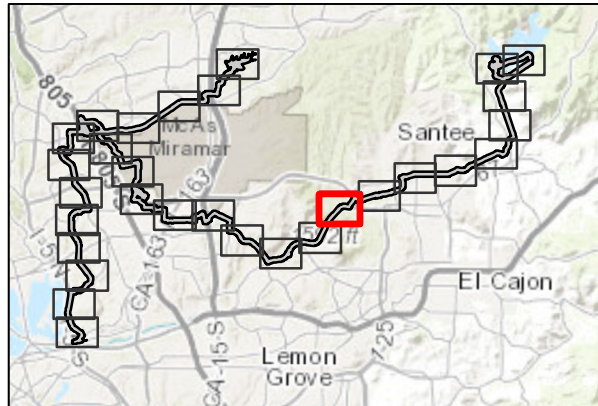
Multi-Habitat Planning Area



**FIGURE 3-1U**

Biological Resources - San Vicente Reservoir Alternative

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**LEGEND**

**Project Study Area**

- Project Pipeline Alternatives
- San Vicente Pure Water Pipeline
- Trenchless Segments of Alignment

**Special Status Species**

- Cooper's hawk
- least Bell's vireo
- mule deer
- orangethroat whiptail
- southern California rufous-crowned sparrow
- yellow warbler
- yellow-breasted chat

**Sensitive Plants**

- Juglans californica*
- Lepidium virginicum* var. *robinsonii*
- Viguiera laciniata*
- Viguiera laciniata*

**Federally Designated Critical Habitat**

- Least Bell's Vireo
- San Diego Ambrosia

**Jurisdictional Aquatic Resources**

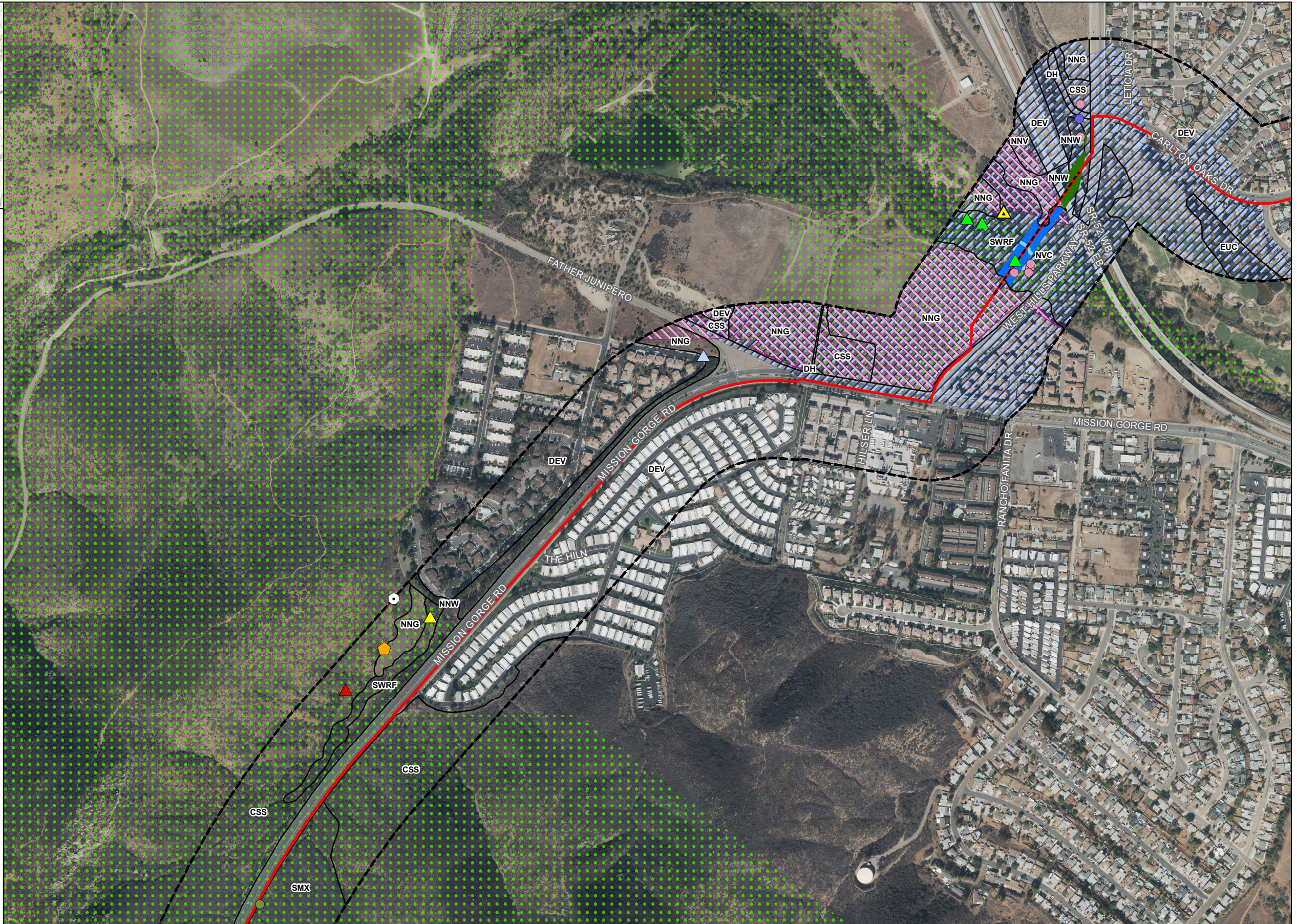
- Non-wetland Waters (ACOE/RWQCB/CDFW)
- Wetland or Riparian Area (ACOE/RWQCB/CDFW)
- Wetland or Riparian Area (CDFW Only)

**Vegetation Communities/Land Covers**

- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- DH, Disturbed Habitat
- EUC, Eucalyptus Woodland
- NNG, Non-native Grassland
- NNV, Non-native Vegetation
- NNW, Non-native Woodland
- NVC, Non-vegetated Channel or Floodway
- SMX, Southern Mixed Chaparral
- SWRF, Southern Arroyo Willow Riparian Forest

Multi-Habitat Planning Area

0 500 1,000 Feet



**FIGURE 3-1V**

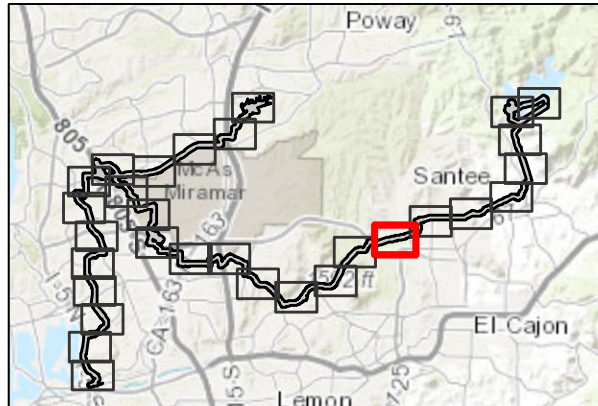
Biological Resources - San Vicente Reservoir Alternative

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

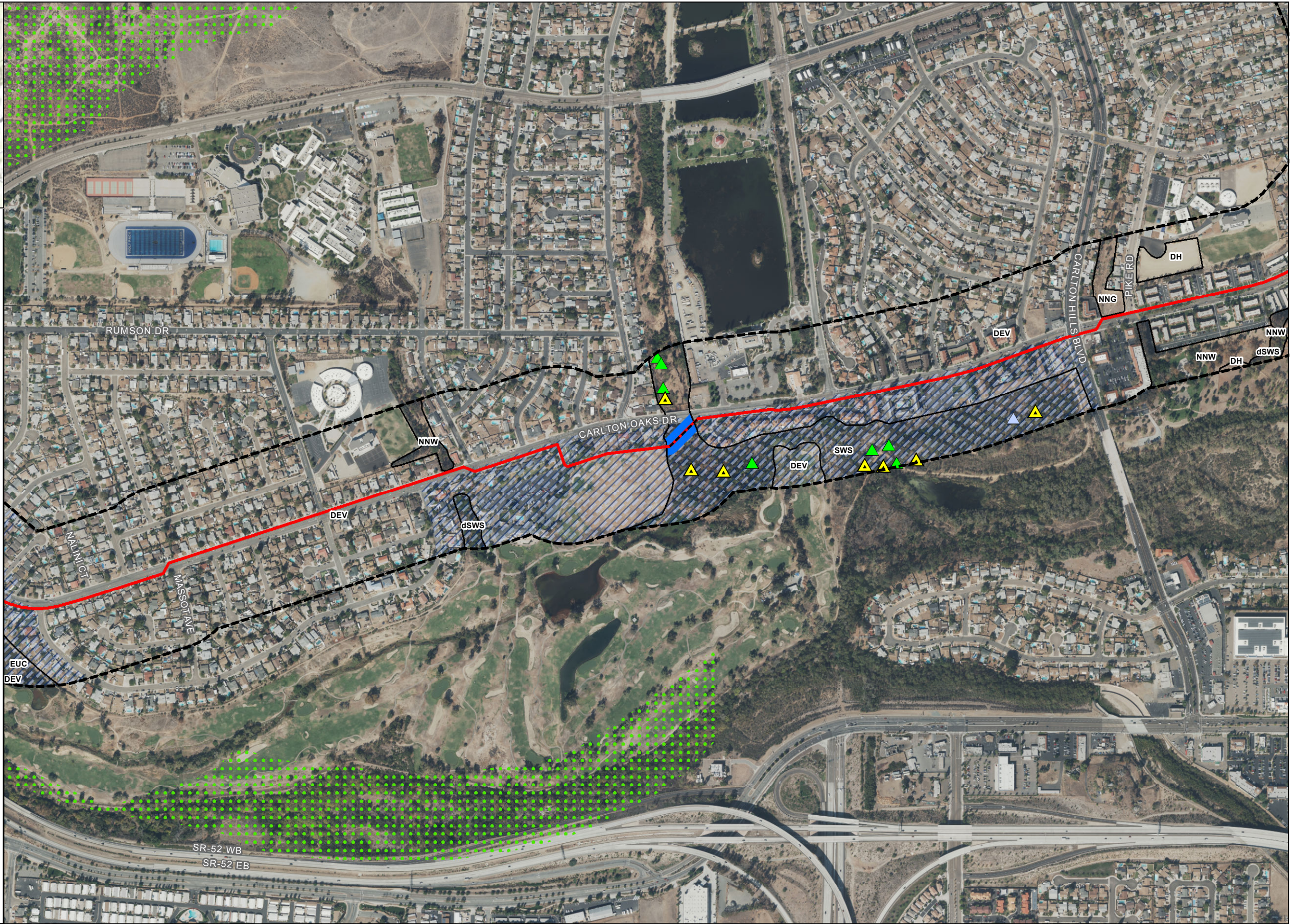


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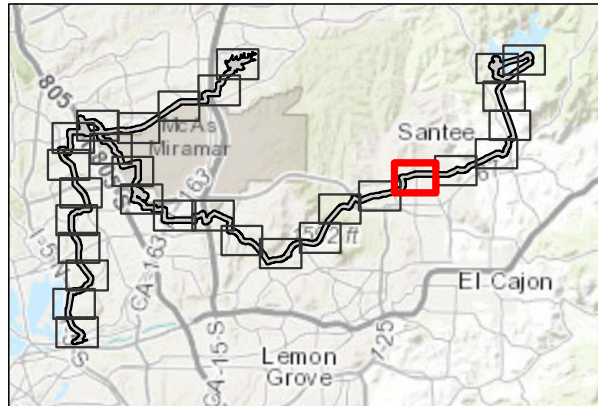


- LEGEND**
- Project Study Area
  - Project Pipeline Alternatives**
  - San Vicente Pure Water Pipeline
  - Trenchless Segments of Alignment
  - Special Status Species**
  - Cooper's hawk
  - least Bell's vireo
  - yellow-breasted chat
  - Federally Designated Critical Habitat**
  - Least Bell's Vireo
  - Jurisdictional Aquatic Resources**
  - Wetland or Riparian Area (ACOE/RWQCB/CDFW)
  - Vegetation Communities/Land Covers**
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - NNW, Non-native Woodland
  - SWS, Southern Willow Scrub
  - dSWS, disturbed Southern Willow Scrub
  - Multi-Habitat Planning Area



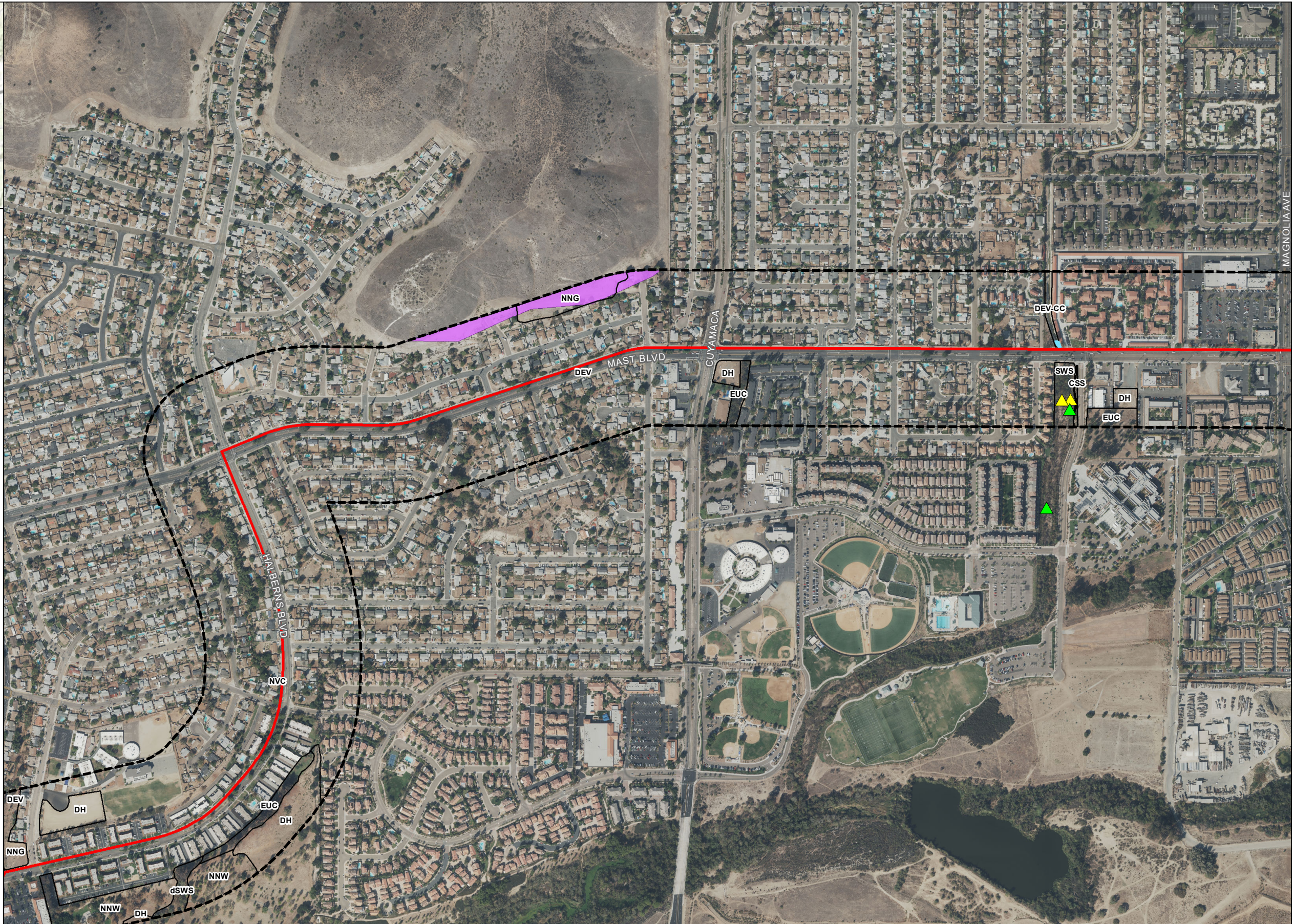
SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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**LEGEND**

- Project Study Area
- Project Pipeline Alternatives**
  - San Vicente Pure Water Pipeline
- Special Status Species**
  - least Bell's vireo
  - yellow warbler
- Federally Designated Critical Habitat**
  - Coastal California Gnatcatcher
- Jurisdictional Aquatic Resources**
  - Non-wetland Waters (ACOE/RWQCB/CDFW)
- Vegetation Communities/Land Covers**
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DEV-CC, Developed - Concrete Channel
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - NNW, Non-native Woodland
  - NVC, Non-vegetated Channel or Floodway
  - SWS, Southern Willow Scrub
  - dSWS, disturbed Southern Willow Scrub



MAGNOLIA AVE

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

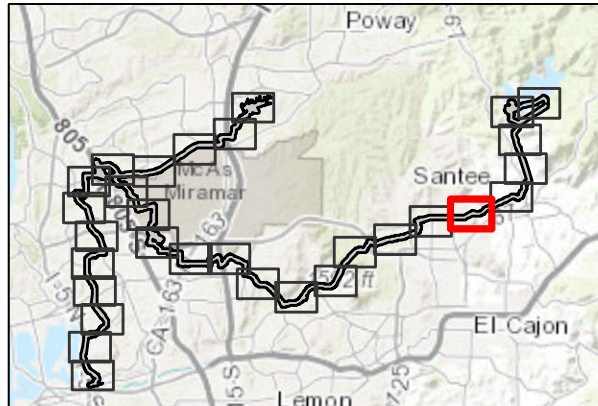


Biological Resources Report for the North City Project

**FIGURE 3-1X**

Biological Resources - San Vicente Reservoir Alternative

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- LEGEND**
- Project Study Area
  - Project Pipeline Alternatives**
  - San Vicente Pure Water Pipeline
  - Special Status Species**
  - coastal California gnatcatcher
  - Jurisdictional Aquatic Resources**
  - Potential Wetland or Riparian Area (ACOE/RWQCB/CDFW)
  - Wetland or Riparian Area (RWQCB/CDFW)
  - Vegetation Communities/Land Covers
  - CSS, Diegan Coastal Sage Scrub
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - NNG, Non-native Grassland

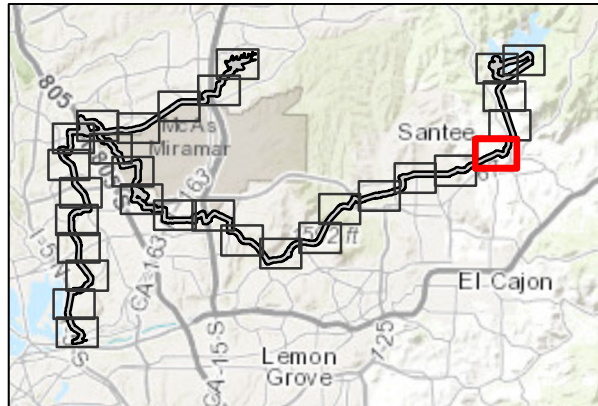


**FIGURE 3-1Y**

Biological Resources - San Vicente Reservoir Alternative

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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**LEGEND**

Project Study Area

**Project Pipeline Alternatives**

San Vicente Pure Water Pipeline

**Special Status Species**

- Cooper's hawk
- Western bluebird
- brown-headed cowbird
- coastal California gnatcatcher
- least Bell's vireo
- yellow warbler
- yellow-breasted chat

**Sensitive Plants**

- Viguiera laciniata*
- Viguiera laciniata*

**Vegetation Communities/Land Covers**

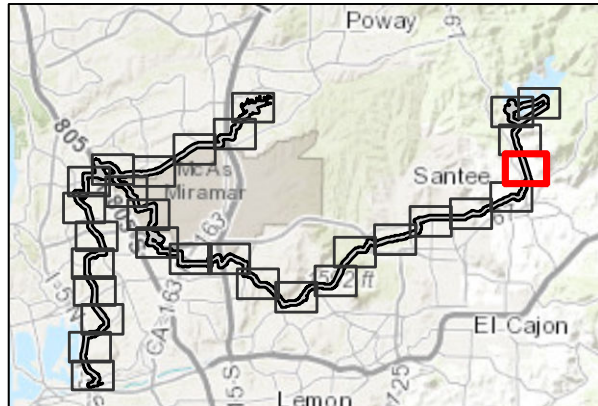
- CSS, Diegan Coastal Sage Scrub
- DEV, Urban/Developed
- DH, Disturbed Habitat
- NNG, Non-native Grassland
- NVC, Non-vegetated Channel or Floodway
- OW, Open Water
- SCWRF, Southern Cottonwood-Willow Riparian Forest
- SWRF, Southern Arroyo Willow Riparian Forest
- SWS, Southern Willow Scrub



SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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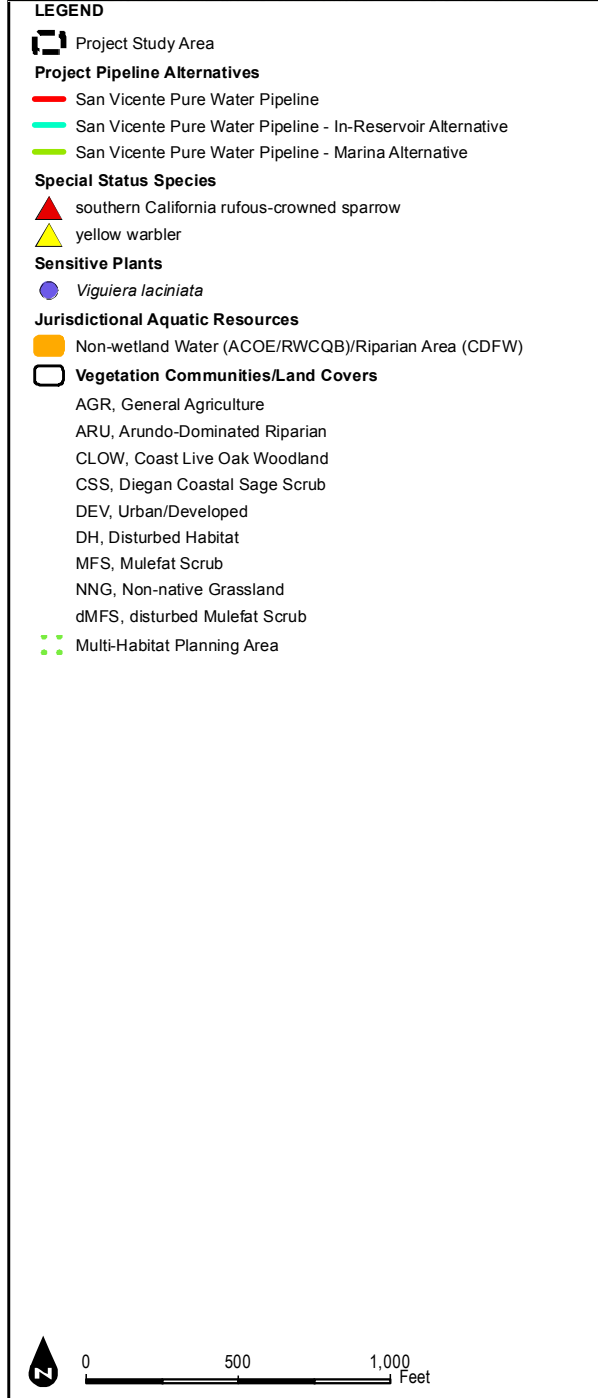
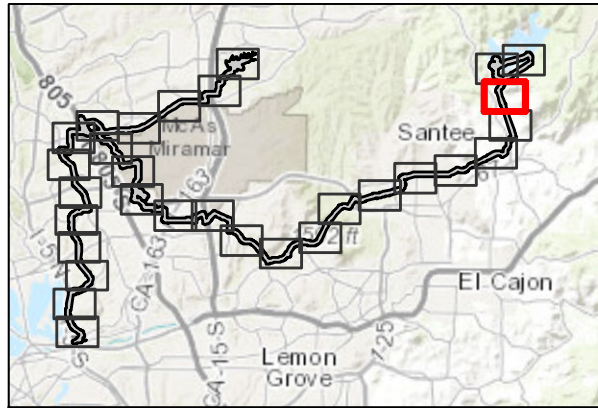


- LEGEND**
- Project Study Area
  - Project Pipeline Alternatives**
  - San Vicente Pure Water Pipeline
  - Special Status Species**
  - brown-headed cowbird
  - yellow warbler
  - Jurisdictional Aquatic Resources**
  - Non-wetland Water (ACOE/RWCQB)/Riparian Area (CDFW)
  - Vegetation Communities/Land Covers**
  - DEV, Urban/Developed
  - DH, Disturbed Habitat
  - EUC, Eucalyptus Woodland
  - NNG, Non-native Grassland
  - NVC, Non-vegetated Channel or Floodway
  - SWS, Southern Willow Scrub



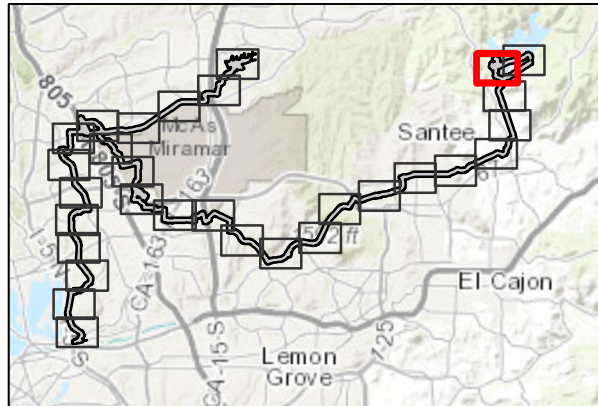
SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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**LEGEND**

**Project Study Area**

**Project Pipeline Alternatives**

- San Vicente Pure Water Pipeline
- San Vicente Pure Water Pipeline - In-Reservoir Alternative Terminus
- San Vicente Pure Water Pipeline - Tunnel Alternative
- San Vicente Pure Water Pipeline - Marina Alternative
- Trenchless Segments of Alignment

**Special Status Species**

- coastal California gnatcatcher
- southern California rufous-crowned sparrow

**Sensitive Plants**

- Clarkia delicata*
- Lepidium virginicum* var. *robinsonii*
- Pseudognaphalium leucocephalum*
- Viguiera laciniata*
- Lepidium virginicum* var. *robinsonii*
- Pseudognaphalium leucocephalum*
- Selaginella cinerascens*
- Viguiera laciniata*

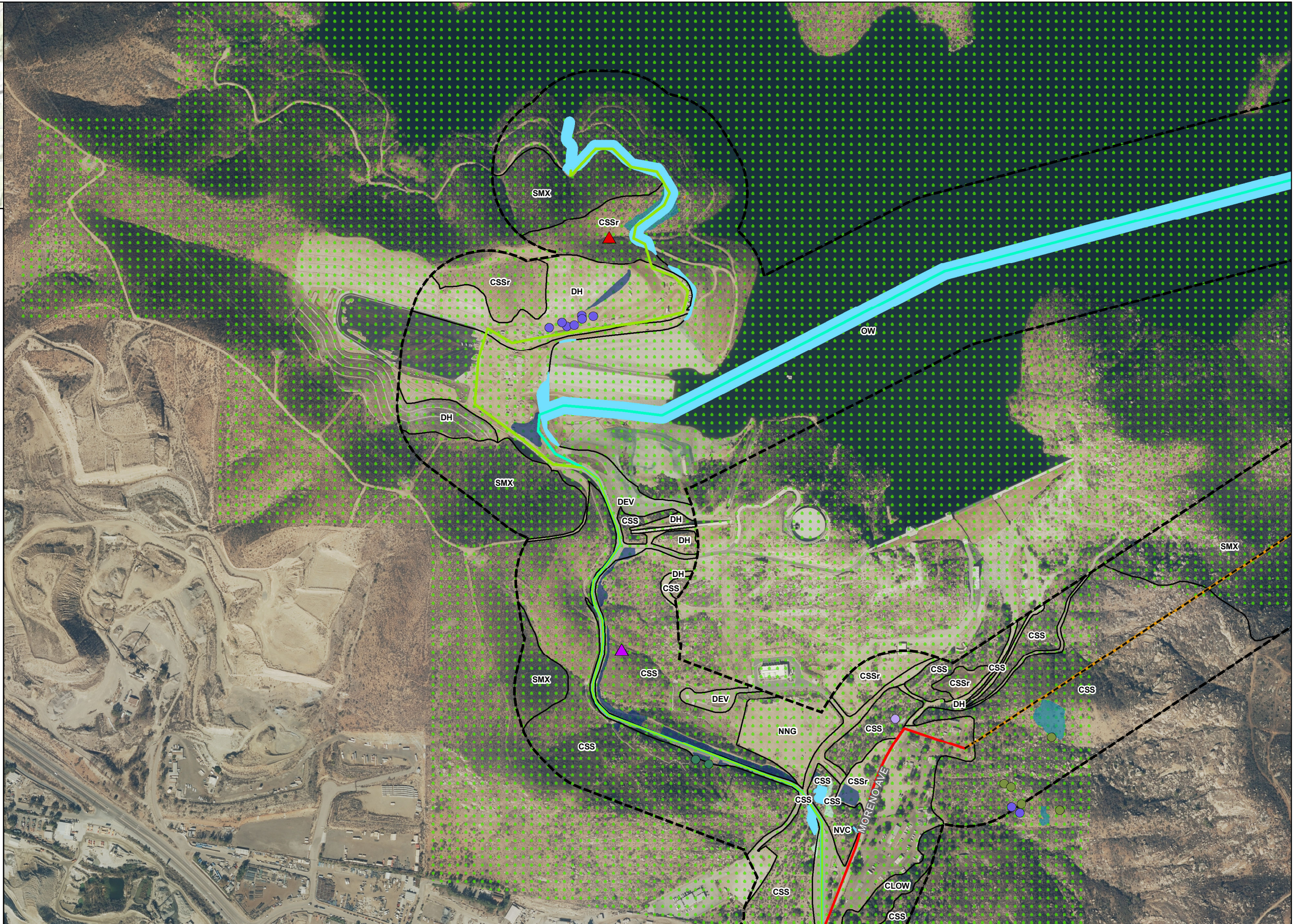
**Jurisdictional Aquatic Resources**

- Non-wetland Waters (ACOE/RWQCB/CDFW)

**Vegetation Communities/Land Covers**

- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- CSS-r, Diegan Coastal Sage Scrub-Restored
- DEV, Urban/Developed
- DH, Disturbed Habitat
- NNG, Non-native Grassland
- NVC, Non-vegetated Channel or Floodway
- OW, Open Water
- SMX, Southern Mixed Chaparral
- Multi-Habitat Planning Area

0 500 1,000 Feet



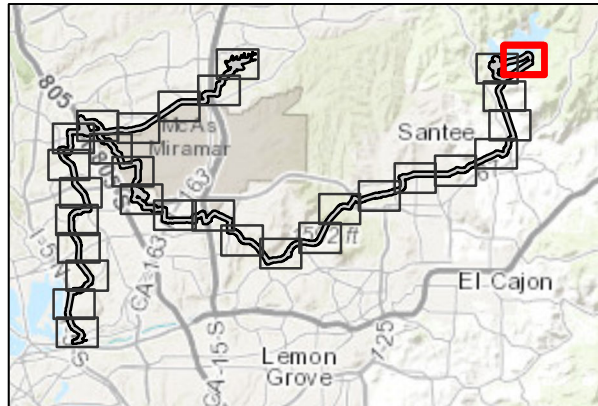
**FIGURE 3-1AC**

Biological Resources - San Vicente Reservoir Alternative

SOURCE: City of San Diego 2016, 2017; SANDAG, 2016



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**LEGEND**

**Project Study Area**

- Project Study Area

**Project Pipeline Alternatives**

- San Vicente Pure Water Pipeline - In-Reservoir Alternative Terminus
- San Vicente Pure Water Pipeline - Tunnel Alternative
- Trenchless Segments of Alignment

**Special Status Species**

- Blainville's horned lizard
- Cooper's hawk
- San Diegan tiger whiptail
- orangethroat whiptail
- southern California rufous-crowned sparrow

**Sensitive Plants**

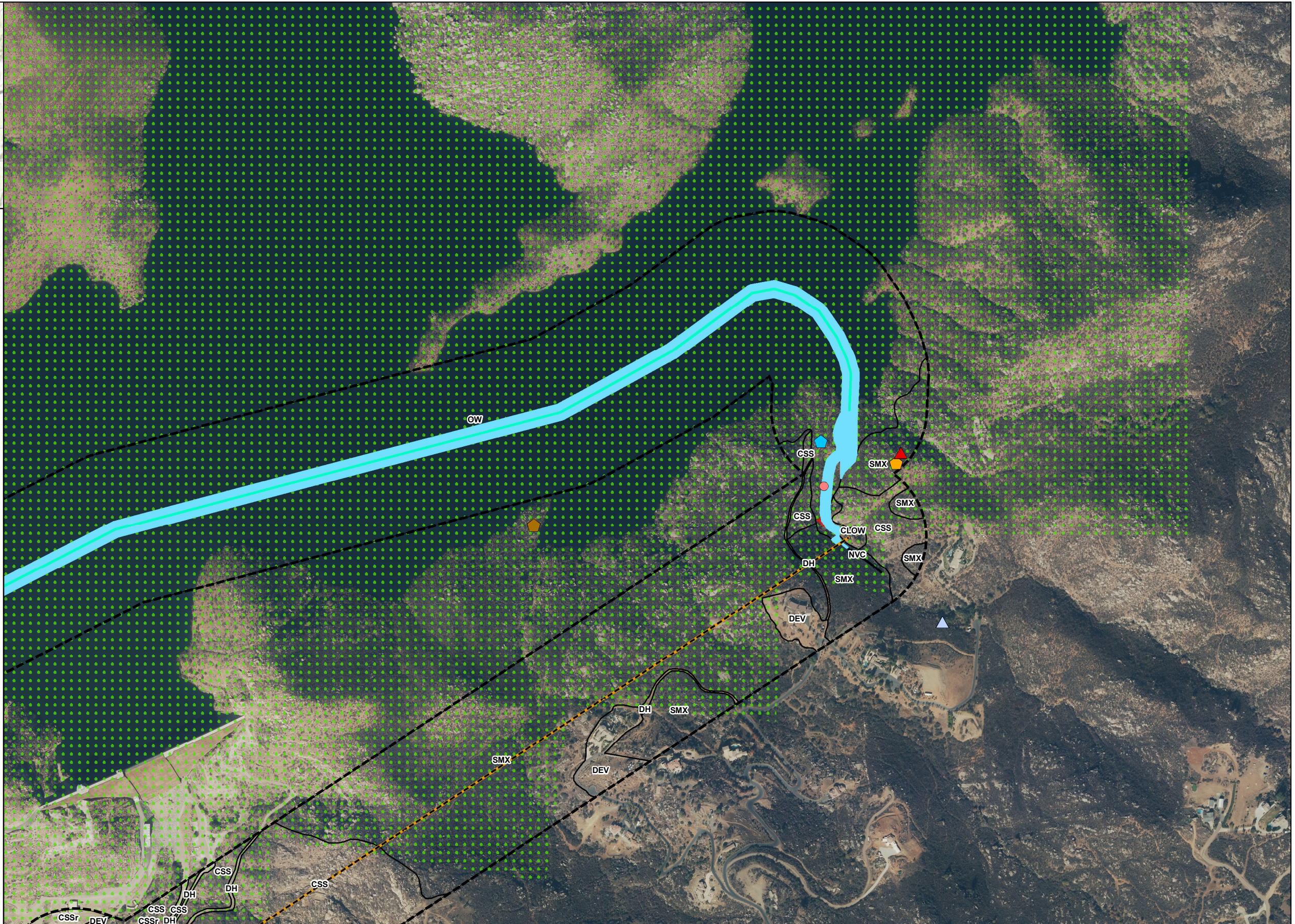
- Artemisia palmeri*
- Artemisia palmeri*
- Selaginella cinerascens*

**Jurisdictional Aquatic Resources**

- Non-wetland Waters (ACOE/RWQCB/CDFW)

**Vegetation Communities/Land Covers**

- CLOW, Coast Live Oak Woodland
- CSS, Diegan Coastal Sage Scrub
- CSS-r, Diegan Coastal Sage Scrub-Restored
- DEV, Urban/Developed
- DH, Disturbed Habitat
- NVC, Non-vegetated Channel or Floodway
- OW, Open Water
- SMX, Southern Mixed Chaparral
- Multi-Habitat Planning Area



SOURCE: City of San Diego 2016, 2017; SANDAG, 2016

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