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April 23, 2012

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Mike Monasmith  
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California Energy Commission  
1516 Ninth Street, MS-15  
Sacramento, CA 95814

Subject: Data Response, Set 2D-3  
Hidden Hills Solar Electric Generating System (11-AFC-2)

Dear Mr. Monasmith:

On behalf of Hidden Hills Solar I, LLC; and Hidden Hills Solar II, LLC, please find attached an electronic copy of Data Response Set 2D-3 in response to Staff's Data Request Set 2D filed on February 3, 2012.

This data response set is being filed electronically. Please call me if you have any questions.

Sincerely,  
CH2M HILL

A handwritten signature in blue ink, reading "John L. Carrier".

John L. Carrier, J.D.  
Program Manager

Encl.

c: POS List  
Project file

**DOCKET**  
**11-AFC-2**

DATE	APR 23 2012
RECD.	APR 23 2012



**Data Response Set 2D-3**

# **Hidden Hills**

## **Solar Electric Generating System**

(11-AFC-2)



**Application for Certification**  
**Hidden Hills Solar I, LLC; and Hidden Hills Solar II, LLC**

**April 2012**

With Technical Assistance from





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# **Hidden Hills Solar Electric Generating System (HHSEGS)**

**(11-AFC-2)**

**Data Response, Set 2D-3  
(Response to Data Request 172)**

Submitted to the  
**California Energy Commission**

Submitted by  
**Hidden Hills Solar I, LLC; and  
Hidden Hills Solar II, LLC**

April 23, 2012

With Assistance from  
**CH2MHILL**  
2485 Natomas Park Drive  
Suite 600  
Sacramento, CA 95833



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# Introduction

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Attached is Hidden Hills Solar I, LLC, and Hidden Hills Solar II, LLC (collectively, “Applicant”) response to the California Energy Commission (CEC) Staff’s data request number 172 for the Hidden Hills Solar Electric Generating System (HHSEGS) Project (11-AFC-2). The CEC Staff served this data request on March 9, 2012.

New tables are numbered in reference to the data request number. For example, the first table used in response to Data Request 172 is numbered Table DR172-1. Figures submitted in response to this data request are at the end of this document and are also numbered to match the data request number. Photos are also provided, following the figures.



# Biological Resources (172)

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## **BACKGROUND – Ephemeral Wash Habitat**

The Jurisdictional Delineation Report (Application for Certification [AFC] (tn: 61756), Volume 2, Appendix 5-2E) erroneously reported mesquite thickets occurring within the proposed project boundary. In Supplemental Data Responses, Set 1A, DR# BR-2 (tn: 63259), the applicant confirmed that no mesquite thickets occur onsite, and staff concurs, based on an aerial photo review. However, staff is still unclear what kind of habitat occurs on the washes, and in what way it is distinct from the surrounding upland; no description of the wash vegetation was provided in the Jurisdictional Delineation Report. Aerial photos of the project site indicate that the vegetation on the washes is distinct. Staff lacks the information needed to determine whether the project would impact desert wash scrub, a sensitive natural community and potential jurisdictional Waters of the State.

## **DATA REQUEST**

172. Please submit a detailed description of the vegetation that occurs along the ephemeral washes, and is distinct – at least in aerial photo signature – from the surrounding upland, including wash features that were not delineated. The description should include a list of dominant species in each layer. If the habitat does not differ in species composition, please indicate if it has a higher density or percent cover, or in some other way is distinct structurally. If the field notes are insufficient to fulfill this request, please collect this information during the spring 2012 botanical surveys and provide the description and at least one photo of the representative habitat (per habitat type, if there is more than one) in a separate report.

**Response:** A detailed description of the vegetation that occurs along the ephemeral drainages is provided below.

## **VEGETATION COMMUNITIES**

As described in the Spring 2011 Botanical Resource Survey of the Hidden Hills Solar Electric Generating System Report, there are two natural vegetation communities present at the site; Mojave Desert scrub and shadscale scrub. Non-native invasive plants (weeds) are locally common or abundant within the two natural vegetation types. These vegetation communities were verified by M.J. Klinefelter in the field during the site investigations. Due to low rainfall conditions, very few annual plants were observed in 2012. Perennial species, such as those within the two natural vegetation types were present and identifiable. Because the annual plant cover component was absent at the time of the field survey, the total plant species diversity and cover onsite at the time of the site visit was lower than what would be expected in a normal rainfall year. The following discussion of vegetation communities at the site is based on the findings in the Botanical Report as well as field observations.

## Mojave Desert Scrub

Mojave Desert scrub vegetation is dominated by evergreen and drought-deciduous shrubs 1 to 4 feet in height. This type corresponds to Holland's Mojave creosote bush scrub (Holland, 1986). It is widespread throughout much of the Mojave Desert from 2,000 to 3,500 feet in elevation (ibid.). It occurs on many different soil types, on level and sloping terrain (Barbour et al., 2007). The most common dominant shrubs are creosote bush (*Larrea tridentata*) and white bursage or burrobush (*Ambrosia dumosa*), although this vegetation type may include up to 30 different species of desert shrubs (ibid.).

Mojave Desert scrub is the dominant vegetation in the eastern half of the HHSEGS site, occurring mainly in sandy-gravelly gray or brown soils (CH2M HILL, 2011). The most common dominant shrub is creosote bush, which grows in association with one or more of the following sub-dominant shrubs: burrobush, fourwing saltbush (*Atriplex canescens*), and rabbit-thorn (*Lycium pallidum* var. *oligospermum*). Other shrubs found in this vegetation type include Death Valley ephedra (*Ephedra funerea*), Nevada ephedra (*Ephedra nevadensis*), Shockley's goldenhead (*Acamptopappus shockleyi*), Virgin River encelia (*Encelia virginensis*), broom snakeweed (*Gutierrezia microcephala*), Mojave indigo bush (*Psoralea arborescens*), pima ratany (*Krameria erecta*), desert mallow (*Sphaeralcea ambigua*), Anderson's box-thorn (*Lycium andersonii*), and Cooper's box-thorn (*Lycium cooperi*).

The understory of Mojave Desert scrub consists of a large variety of annual and perennial forbs that are mainly native, a few species of native perennial grasses, and a few species of non-native annual grasses. Cacti are present but very uncommon in Mojave Desert scrub vegetation at the site. Widely scattered small individuals of three species are present at the site: beavertail cactus (*Opuntia basilaris* var. *basilaris*); silver cholla (*Opuntia echinocarpa*); and pencil cactus (*Opuntia ramosissima*). No individuals of any Yucca species were observed at the site (CH2M HILL, 2011). At the time of the 2012 field investigation, understory species were generally absent.

Included within Mojave Desert scrub areas at the site are large pebble flats that were sparsely vegetated by native annual species little desert trumpet (*Eriogonum trichopes*) and rigid spiny-herb (*Chorizanthe rigida*). Barbour and others (2007) describe the annual vegetation of these pebble flats, or pavement plains, as a distinct category of vegetation, although they call it an artificial type. Pebble flats within the site do not include any distinctive species not found elsewhere in Mojave Desert scrub within the site, so they are regarded as a feature within this vegetation type.

Non-native invasive plants are locally common in Mojave Desert scrub at the site along roads (especially red brome, halogeton, Russian thistle, and African mustard); at the bases of shrubs (red brome); in recently burned areas (Russian thistle), and in low-lying moist microsites (London rocket).

## Shadscale Scrub

As described in the 2011 Botany Report (CH2M HILL, 2011), shadscale scrub vegetation is composed of low-growing, gray-green shrubs with some tolerance for alkaline conditions

(Holland, 1986). It is widespread in the Mojave Desert. It typically grows in pale, silty soils; usually in valleys, sometimes on the higher margins of dry lakes (ibid.)

Shadscale scrub is the dominant vegetation in the western half of the HHSEGS site, consisting of densely spaced, gray-green evergreen and drought-deciduous shrubs, mainly 2 feet or less in height (CH2M HILL, 2011). The dominant shrub species is shadscale (*Atriplex confertifolia*). Associated shrubs include winterfat (*Krascheninnikovia lanata*), desert allysum (*Lepidium fremontii*), Anderson's boxthorn, rabbit-thorn, Emory's globemallow (*Sphaeralcea emoryi*), and prince's plume. The understory varies from sparse to dense, depending on local hydrology. Drier sites are often barren, except for scattered annuals such as Pahrump Valley buckwheat and showy gilia (*Gilia cana*). Low areas where water ponds during the rainy season are densely vegetated with native hog potato (*Hoffmannseggia glauca*) and Fremont's milk-vetch, and the non-native invasive weeds African mustard and red brome.

Non-native invasive plants are abundant in shadscale scrub, especially within and near unpaved roads of the site's internal road network, in recently burned areas, and in areas where water flows or ponds during rainfall events that generate runoff. The most abundant species are: halogeton, African mustard, and red brome.

### **Ruderal Vegetation**

Ruderal vegetation typically consists mainly, or entirely, of non-native plants, including invasive weeds that grow in highly disturbed locations (CH2M HILL, 2011). In the Mojave Desert, some native species thrive under disturbed conditions (e.g., *Astragalus* species), and these species may be found as a component of ruderal vegetation, but they do not define it. Ruderal vegetation is not a natural type, so it is not included in the classification systems of Holland (1986) or Sawyer and others (2009).

Ruderal vegetation within the HHSEGS site and 250-foot buffer occupies the abandoned peach orchard at the corner of Silver Street and Tecopa Road, and the roadsides of Tecopa Road (CH2M HILL, 2011). This ruderal vegetation is dominated by halogeton, Russian thistle, and red brome. Native shrubs are lacking.

### **METHODS**

In order to assess vegetation in the ephemeral drainages and surrounding upland areas at the project site, data were analyzed from a variety of sources, including previous reports, aerial photography, topographic maps, and geologic maps. The Approved Jurisdictional Determination (URS, 2011) and the Preliminary Delineation of Jurisdictional Waters of the State report prepared by URS (Delineation; URS, 2012) were reviewed and the maps showing Potential Waters of the State (ibid. Figures 2A through 2L) were used as the guide to onsite jurisdictional resources. The delineation report focused primarily on drainage features. In addition, the botanical resource survey report for the HHSEGS site (submitted as Attachment DR88-1, Data Response Set 1C-2) was reviewed and used as the primary resource for onsite botanical resources.

Additional information on the vegetation that occurs within the ephemeral drainages beyond the scope of the botanical survey was requested by the CEC. To address this data request, Mike Klinefelter and biologist Jon True conducted a site assessment of vegetation

that occurs along the ephemeral drainages and surrounding uplands (Figure DR172-1, all figures are at the end of this document). Fieldwork was conducted on April 9 and 10, 2012. GIS data of the delineated features shown in the URS delineation report were loaded onto a Trimble GeoXT handheld GPS receiver and were used to navigate to selected drainage locations in the field. A subset of the delineated drainages was surveyed throughout the site, and a number of other features were also examined. Vegetation data were collected and photos were taken at 11 drainages and corresponding upland areas. Along one of the larger drainages, data were collected in both the upper and lower reaches. The range of drainages was selected to provide a representative sample of conditions across the site and a sufficient data set with which to assess vegetation within the onsite drainages and nearby upland areas. Drainages of varying widths were assessed, including single channels as narrow as a few feet in width to areas with multiple channels that cumulatively extend to 80 feet in width.

Vegetation data and GPS points were recorded, and digital photographs were taken at each selected drainage and corresponding upland location. Data collected from the GPS unit was downloaded into Trimble Pathfinder Office software and differentially corrected to generate positions with sub-meter accuracy. GPS-Photo Link software was used to map the photos and their associated data (Photos 1 through 25, located at the end of this document). Included in the data table for each photo is the location (latitude/longitude) and direction the photo was taken. Attached Figures DR172-1 through DR172-6 show the URS potential Waters of the State and photo point locations overlain on an aerial photograph of the project site.

Dominant plant species were identified and documented at points in and along the drainages, as well as at points in the upland areas adjacent to each feature. Visual estimates of density and percent cover were noted if cover significantly varied between the drainage and upland locations. Very little precipitation occurred in this portion of the Mojave desert during spring 2011. Thus, at the time of the field investigation, conditions were not ideal for assessing all plant species that may be present at different times throughout the year. Almost no annual plants were present. Many shrubs were without leaves, flowers, fruits, or other structures to aid in identification. This assessment was therefore primarily based on dominant perennial shrub and herb species. Tables DR172-1 and DR172-2, in the Results section of this memo, present the data collected in the field.

## **RESULTS**

The vegetation types observed during the field investigations of April 9 and 10, 2012 match what is presented in the 2011 Site Botanical Report. Annual plant species were in very low abundance, but these vegetation types are primarily defined by characteristic perennial shrubs that were observable onsite this year.

As described in the 2011 Site Botanical Report, and verified in the field, the vegetation in and along the drainages onsite consists of shrub species that also occur in uplands outside of the drainages. Absolute cover across all layers in the drainages was estimated to be less than 15 percent, while absolute cover across all layers in the uplands was generally less than 10 percent. This same composition and distribution of vegetation was also observed in

the other drainages and adjacent upland areas where data were not collected. The vegetation type observed both in the drainages and corresponding upland locations sampled by M.J. Klinefelter is Mojave creosote bush scrub as described by Holland (1986). Shadscale scrub is the dominant vegetation type in the western portion of the site; however, all of the delineated drainages are located on the eastern portion of the site. No shadscale scrub habitat was encountered in the drainages or uplands surveyed.

Attached Photos 1 through 25 and Tables DR172-1 and DR172-2 show that dominant species within and outside the drainages are similar. The only distinctions between drainage and upland vegetation are:

1. Slightly higher density and cover in the shrub and herb layers (+5 percent).
2. A higher prevalence of big galleta (*Pleuraphis rigida*) in and along some of the drainages and adjacent flood plains than in the upland areas.
3. The presence of a few scattered individuals of mesquite (*Prosopis glandulosa*) and rabbitbrush (*Chrysothamnus nauseosus*) in and immediately adjacent to the largest drainage surveyed (verified by USACE as Waters of the U.S.).

Mojave Wash Scrub (Element Code 34250), as described by Holland, is a low, shrubby, open community with scattered to locally dense overstory of microphyllous trees. These dominant plant species are perennials and would be identifiable even in a low rainfall year. Characteristic species include *Acacia greggii*, *Atriplex polycarpa*, *Chilopsis linearis*, *Chrysothamnus paniculatus*, *Dalea spinos*, *Hymenoclea salsola*, *Peucephyllum schottii*, *Prosopis glandulosa torreyana*, *P. pubescens*, *Prunus fasciculata*, *Rhus trilobata anisphylla*. It is found in sandy bottoms of wide canyons, incised arroyos of upper bajadas, and sandy braided, shallow washes of the lower bajadas, usually below about 5,000 feet (Holland, 1986).

The Approved Jurisdictional Determination report (URS, 2011) incorrectly identified Mojave desert wash scrub (Element Code 63700; Holland, 1986) as occurring on the HHSEGS site. Mojave Desert wash scrub is characterized by the absence of microphyllous trees such as *Prosopis sp.* None of the species found in Holland's description of Mojave Desert wash scrub were included in the Delineation plant species lists nor were these species found within any of the drainages or on the site during this wash vegetation field assessment.

The dominant species in the shrub layer in and along the drainages as well as in the upland areas were creosote and burrobrush. Associated sub-dominant shrubs included pima ratany, rabbit-thorn, winter fat, and four-wing saltbush. A few individuals of *Ephedra sp.*<sup>1</sup> and shadscale were encountered, mostly in the upland areas. A few scattered individuals of mesquite and rabbitbrush were found in and along the largest drainage surveyed (URS Wash No. 50; Photos 4 and 6). Except for the scattered mesquite, virtually no other species that are dominants within the Holland's Mojave wash scrub vegetation type, were observed. Additionally, no plants observed on the site were over 2 meters in height, with most being

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<sup>1</sup> During the time of the assessment, the *Ephedra* that was observed lacked the necessary plant structures to be able to identify the species.

less than 1 meter. Microphyllus trees, such as those described in Holland's Mojave wash scrub vegetation type, were not observed. The few scattered mesquite were shrub-like in growth habitat instead of arborescent.

Vegetation in the herb layer was very sparse across the site at the time of the field investigations. Big galleta, sixweeks fescue, and little desert trumpet were dominant in the herb layer in and along the drainages as well as in the upland areas. Although no annuals were present from this year, remnants of the fescue was still present under the canopy of shrubs, while remnants of little desert trumpet was more prevalent in open areas.

The vegetation type in the drainages and the surrounding uplands is best described as Mojave creosote bush scrub (Holland 1986) or as Creosote bush – white bursage scrub (Sawyer et al., 2009). Based on the field investigations, the vegetation within and along the drainages does not correspond to Mojave wash scrub as described by Holland, above. This Holland vegetation type may correspond to one or more of the following alliances from A Manual of California Vegetation (MCV2; Sawyer et al., 2009): *Prosopis glandulosa* Woodland Alliance; *Acacia greggii* Shrubland Alliance; *Chilopsis Linearis* Woodland Alliance; and *Psoralea arguta* Woodland Alliance. None of these vegetation types in the drainages sampled onsite (including the one drainage with a small number of mesquite individuals) meets the criteria for these MCV2 alliances.

The aerial imagery signatures of some of the larger drainage features (URS Wash Nos. 50, and 59 through 63) appear lighter in color than surrounding uplands due to the high albedo of fine-grained light colored sediment deposits in the drainage and on the adjacent flood plain (see Photos 2, 4, and 6). Surficial geology along the eastern portion of the site consists primarily of Holocene alluvium containing darker gravel material which appears darker in contrast to the more recent fine sediment deposits (see Photos 3 and 5).



TABLE DR172-1.

Dominant plant species in and along onsite drainages.

URS Stream ID	Photo Point ID	Shrub layer - Dominant				Shrub layer - Sub-Dominant												Herb Layer - Sub-Dominant				
		<i>Larrea tridentata</i>	<i>Ambrosia dumosa</i>			<i>Lycium pallidum v. oligospermum</i>	<i>Krameria erecta</i>	<i>Krascheninnikovia lanata</i>	<i>Encelia virginensis</i>	<i>Atriplex canescens</i>	<i>Atriplex confertifolia</i>	<i>Ephedra sp.</i>	<i>Chrysothamnus nauseosum</i>	<i>Prosopis glandulosa</i>	<i>Herb Layer - Dominant</i>	<i>Pleuraphis rigida</i>	<i>Vulpia octoflora</i>	<i>Eriogonum inflatum</i>		<i>Pleuraphis rigida</i>	<i>Vulpia octoflora</i>	<i>Eriogonum trichopes</i>
3	18	X	X				X										X			X		X
9	20	X	X				X									X					X	
24	14	X	X			X		X									X			X		X
26	24	X	X				X											X		X		
32	8	X	X			X												X		X		
36	10	X	X			X												X				
49-51, Upper	4	X	X			X		X		X			X	X		X					X	
49-51, Lower	6	X	X			X								X			X					
59-63	1, 2	X	X			X		X		X							X			X		X
70	22	X	X			X					X											
75	12	X	X			X		X										X				
24	16	X	X															X		X	X	

Dominant plant species in upland areas adjacent to onsite drainages.

[illegible]

## SUMMARY

The vegetation within and along the drainages on the HHSEGS site consists of shrub species that also occur in the uplands outside of the drainages. The only distinctions between drainage and upland vegetation are:

1. Slightly higher density and cover in the shrub and herb layers of some drainages (+5 percent).
2. A higher prevalence of big galleta (*Pleuraphis rigida*) in and along some of the drainages and adjacent flood plains than in upland areas.
3. The presence of a few scattered individuals of mesquite (*Prosopis glandulosa*) and rabbitbrush (*Chrysothamnus nauseosus*) in and immediately adjacent to the most prominent drainage (URS Wash No. 50).

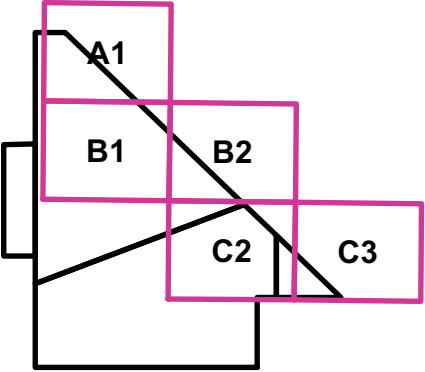
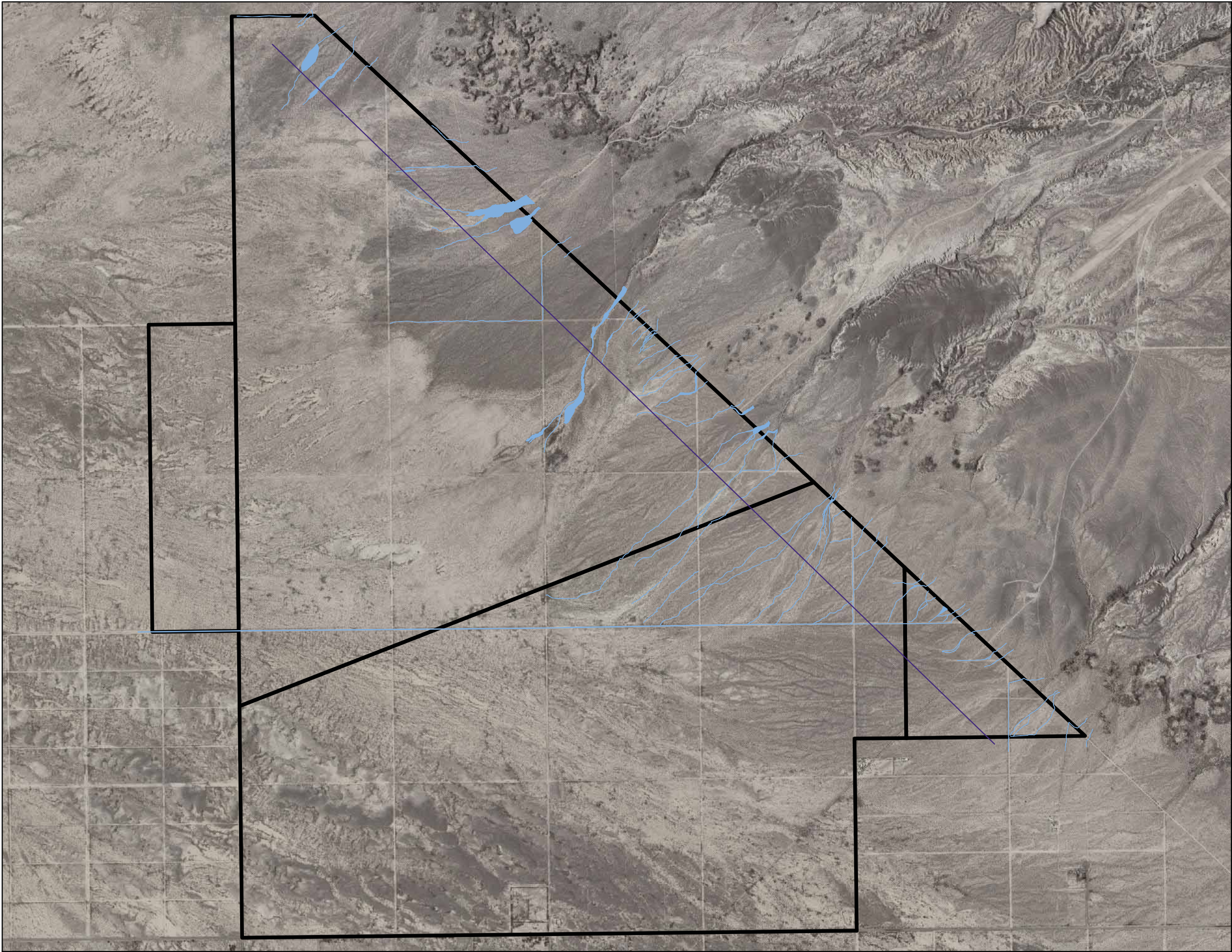
The vegetation community observed both in the drainages and adjacent uplands is Mojave creosote bush scrub. The vegetation within and adjacent to the URS mapped drainages consists of the same species found throughout the site and does not correspond to Mojave wash scrub or other desert wash plant communities.

## REFERENCES

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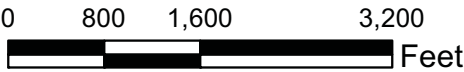
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**Index Map**

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**Legend**

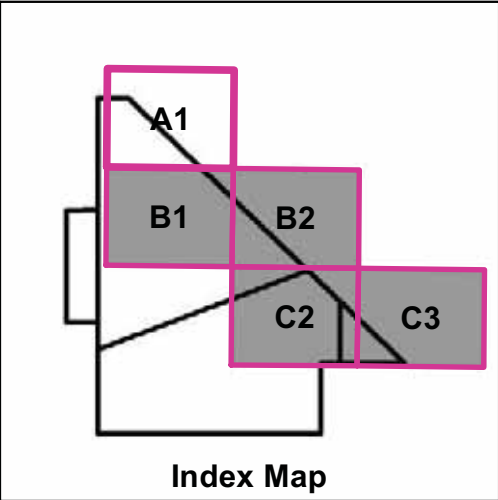
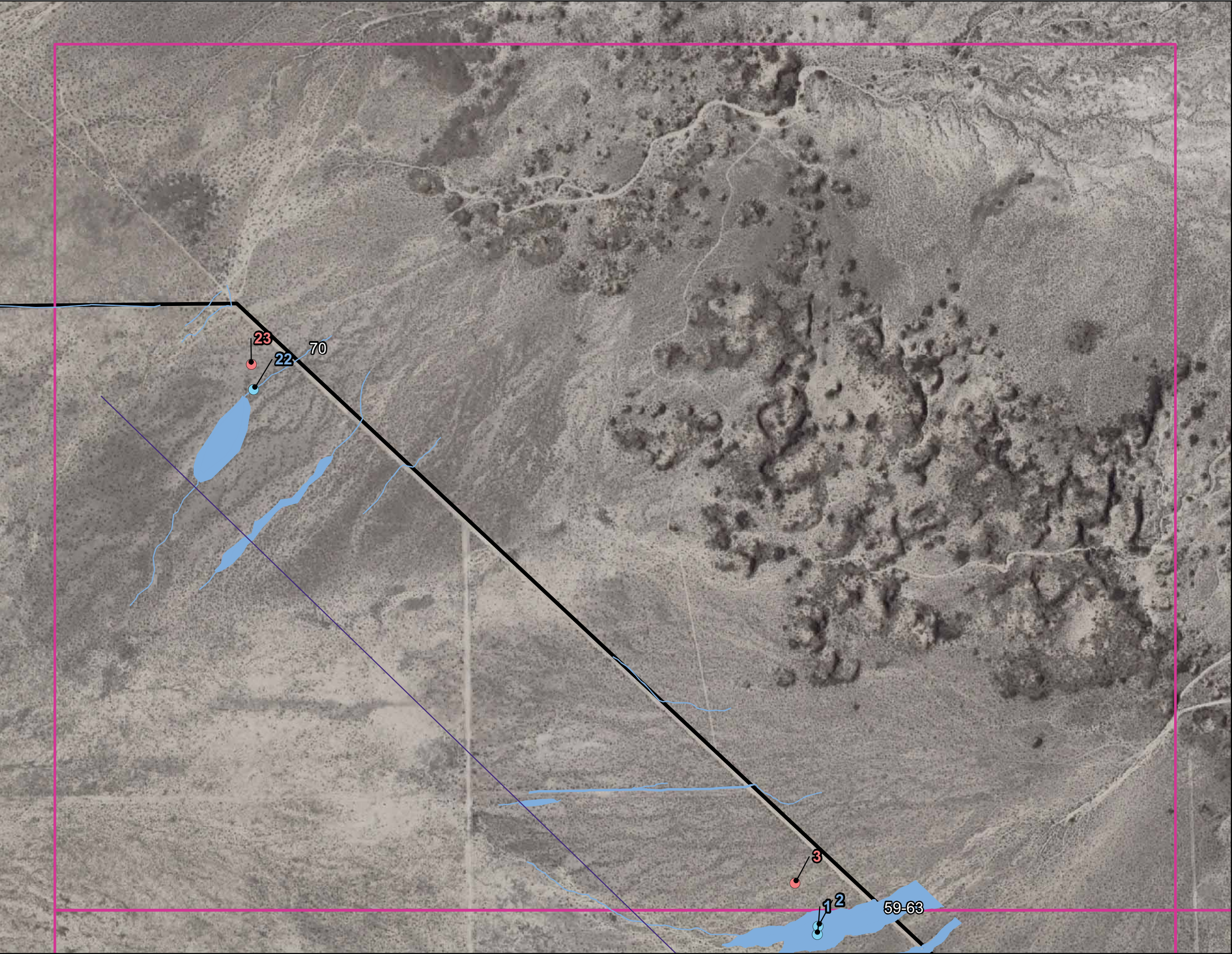
-  URS JD State Waters
-  HHSEGS Project Boundary

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**HHSEGS Project  
Stream Vegetation  
Assessment  
Site Map**

**Figure DR172 - 1**





Coordinate System:  
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0 250 500 1,000 Feet

**Legend**

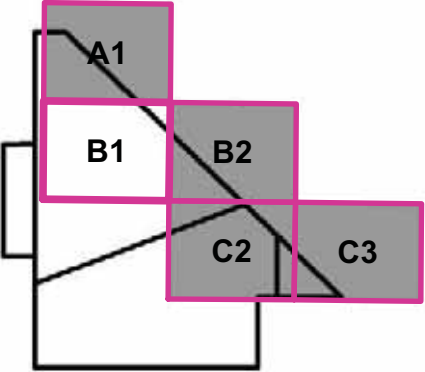
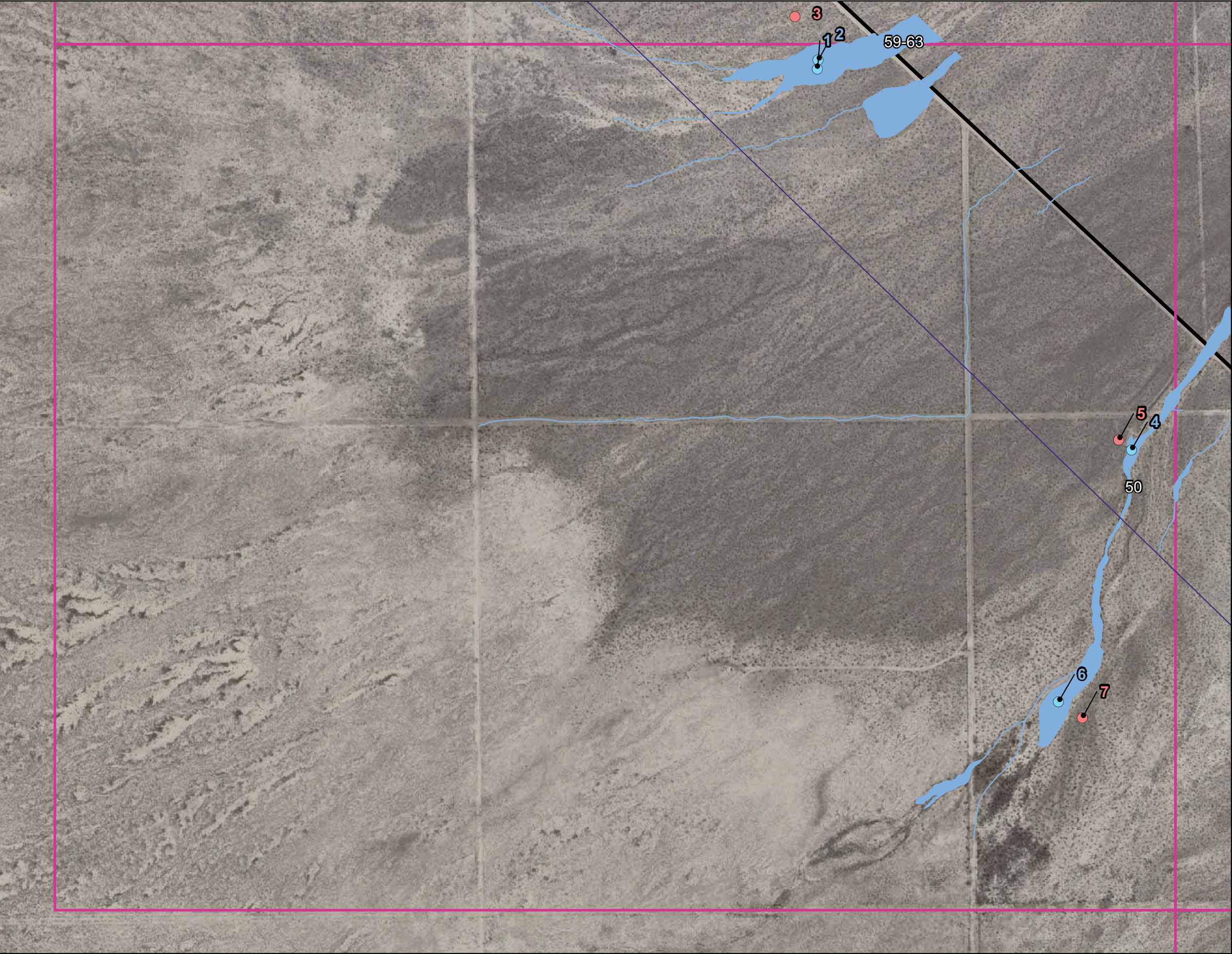
- URS JD State Waters
- HHSEGS Project Boundary
- Stream Photo Points
- Upland Photo Points

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**HHSEGS Project  
Stream Vegetation  
Assessment  
Photo Locations  
Map A1**

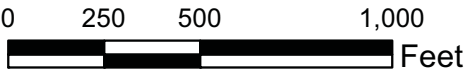
**Figure DR172 - 2**





Index Map

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Legend

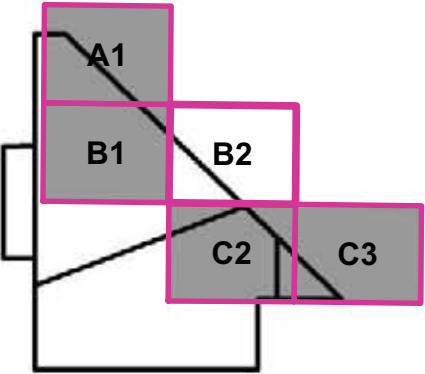
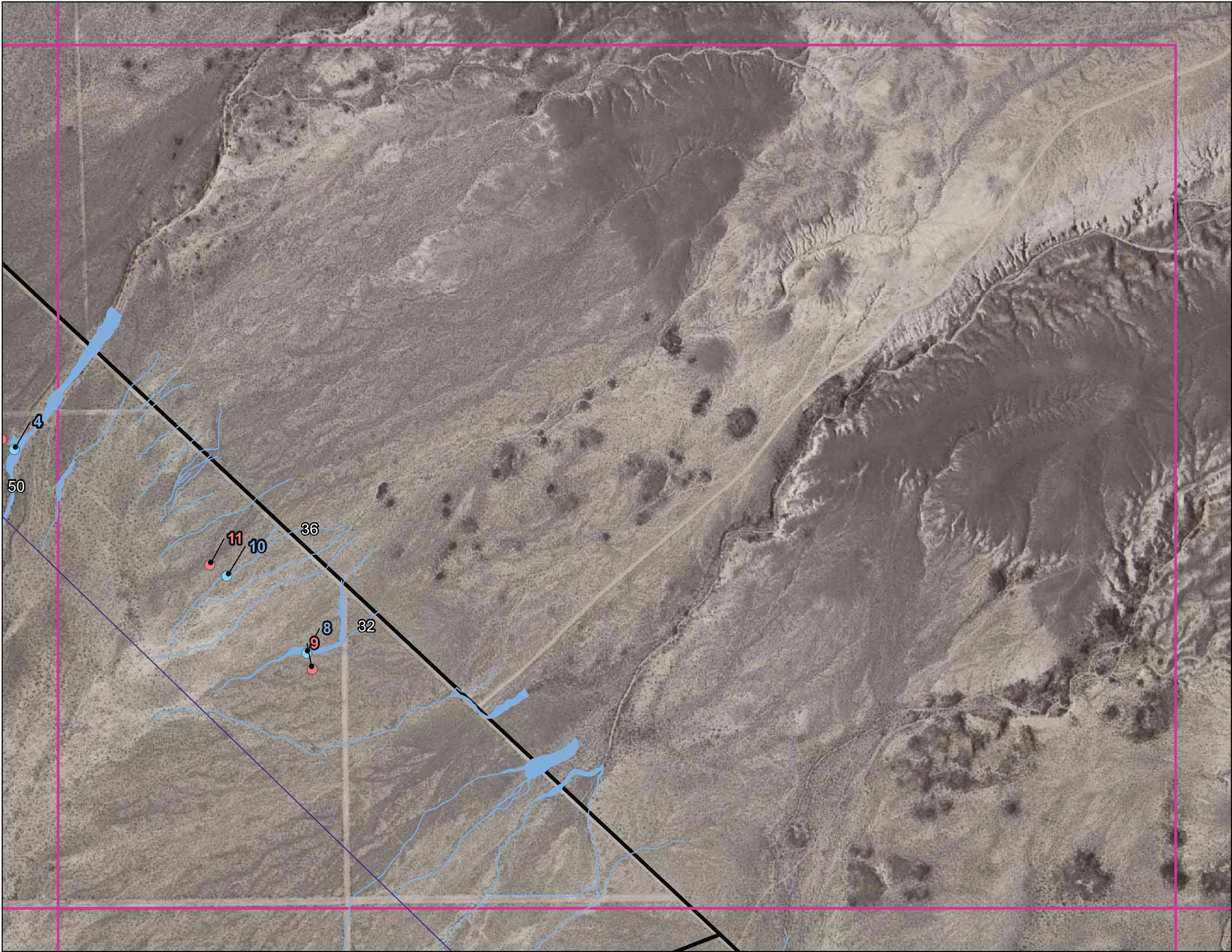
-  3 URS JD State Waters
-  HHSEGS Project Boundary
-  Stream Photo Points
-  Upland Photo Points

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HHSEGS Project  
Stream Vegetation  
Assessment  
Photo Locations  
Map B1

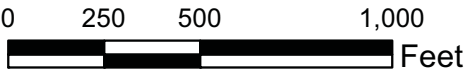
Figure DR172 - 3





Index Map

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Legend

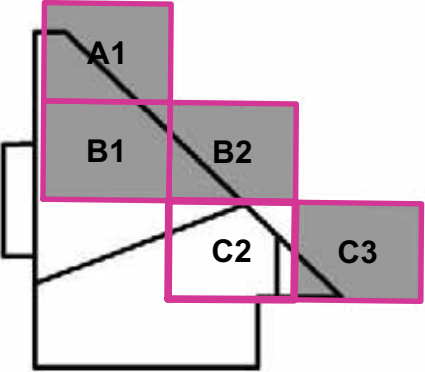
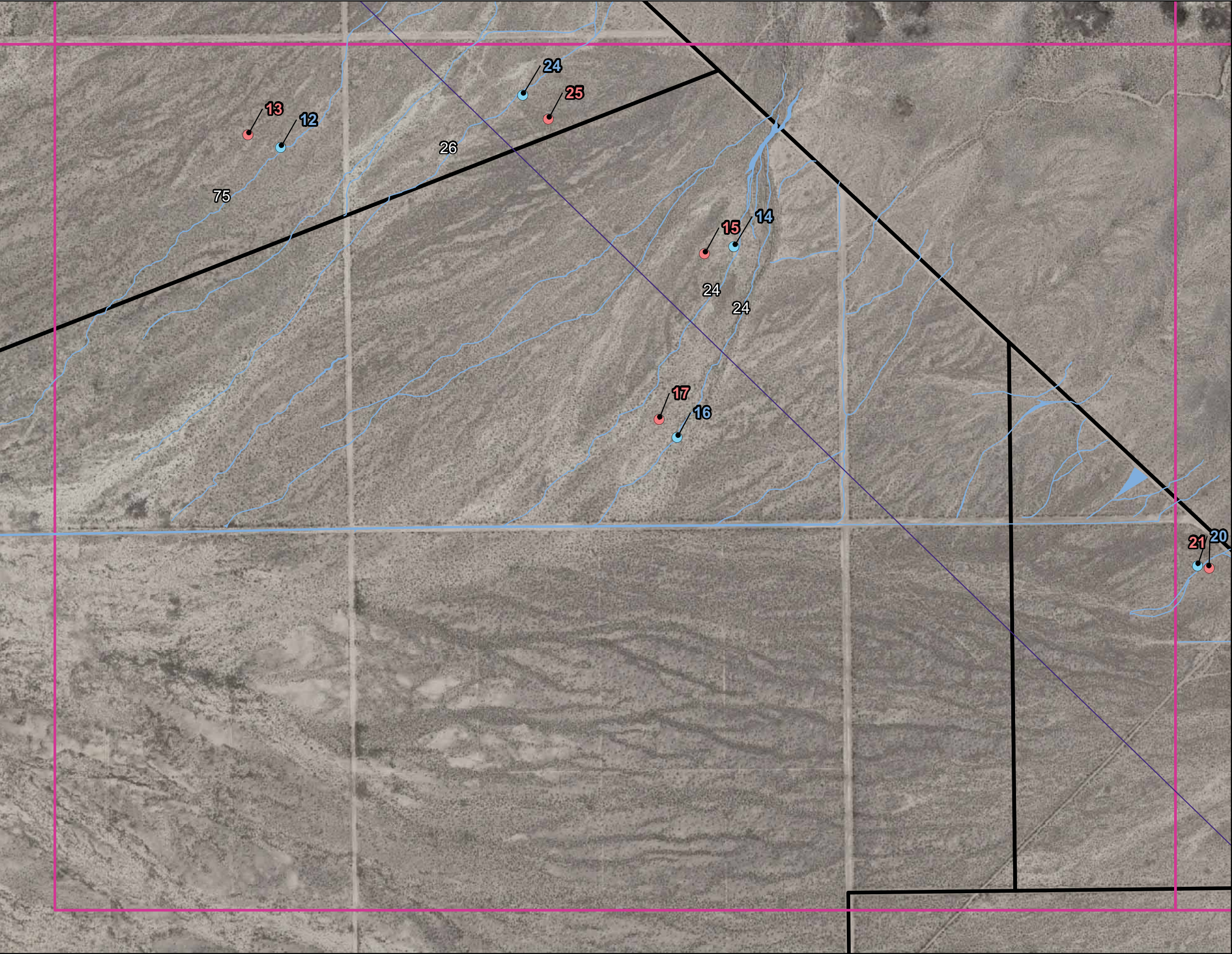
-  URS JD State Waters
-  HHSEGS Project Boundary
-  Stream Photo Points
-  Upland Photo Points

**M.J. Klinefelter**  
GIS & ENVIRONMENTAL CONSULTING  
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**HHSEGS Project  
Stream Vegetation  
Assessment  
Photo Locations  
Map B2**

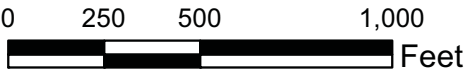
**Figure DR172 - 4**





Index Map

Coordinate System:  
NAD 1983 UTM Zone 11N  
Projection: Transverse Mercator  
Datum: North American 1983  
False Easting: 1,640,416.6667  
False Northing: 0.0000  
Central Meridian: -117.0000  
Scale Factor: 0.9996  
Latitude Of Origin: 0.0000  
Units: Foot US



Legend

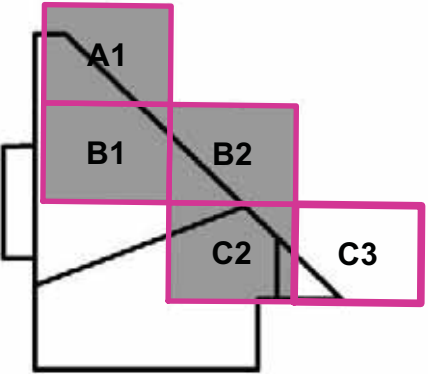
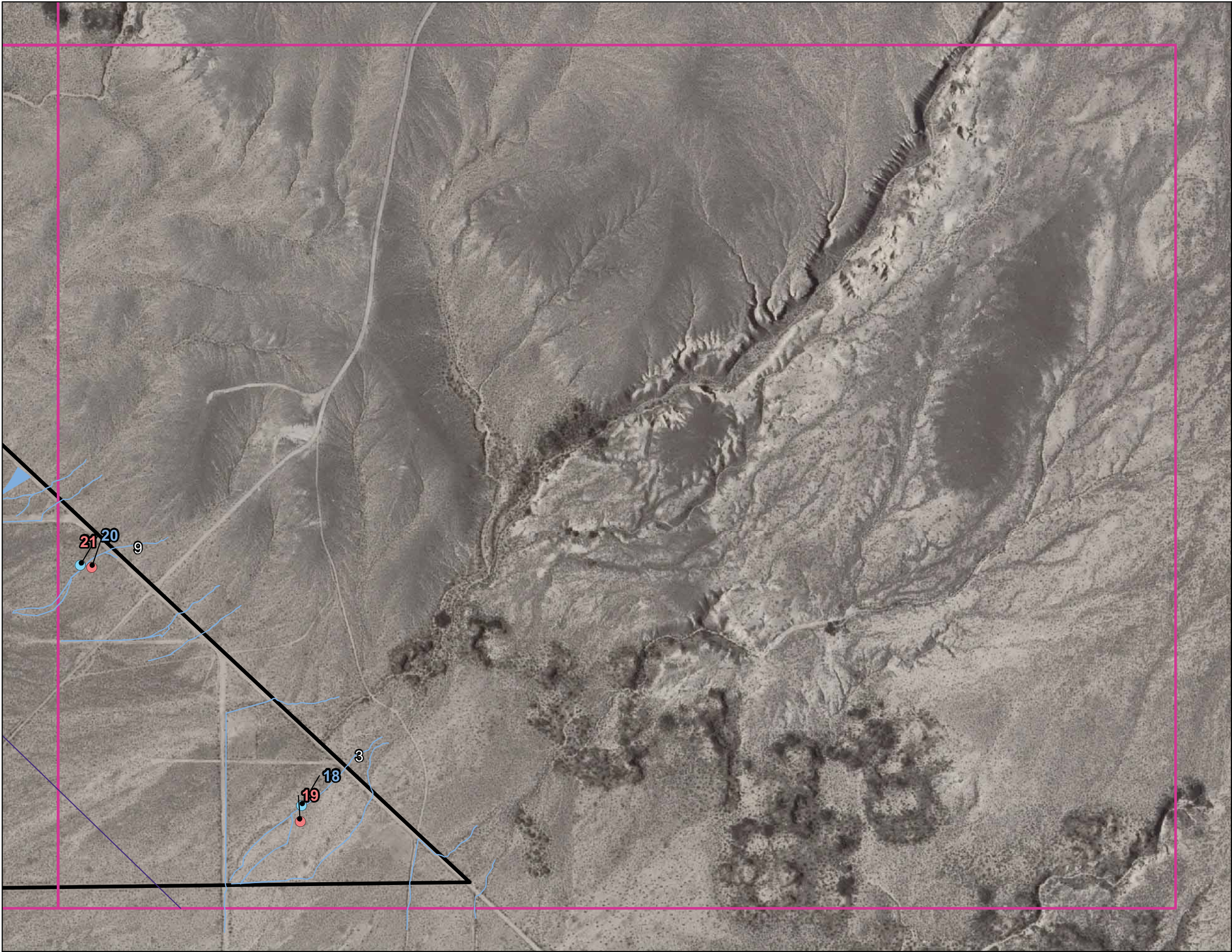
- URS JD State Waters
- HHSEGS Project Boundary
- Stream Photo Points
- Upland Photo Points

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HHSEGS Project  
Stream Vegetation  
Assessment  
Photo Locations  
Map C2

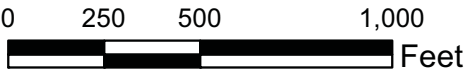
Figure DR172 - 5





Index Map

Coordinate System:  
NAD 1983 UTM Zone 11N  
Projection: Transverse Mercator  
Datum: North American 1983  
False Easting: 1,640,416.6667  
False Northing: 0.0000  
Central Meridian: -117.0000  
Scale Factor: 0.9996  
Latitude Of Origin: 0.0000  
Units: Foot US



Legend

- URS JD State Waters
- HHSEGS Project Boundary
- Stream Photo Points
- Upland Photo Points

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HHSEGS Project  
Stream Vegetation  
Assessment  
Photo Locations  
Map C3

Figure DR172 - 6



# HHSEGS Stream Vegetation Assessment

Photo No: 1



Attributes	
Photo No	1
File Name	DSCN0632.JPG
Location	URS Wash No. 59-63
Description	
Latitude	N 36.00600°
Longitude	W 115.90210°
Photo Direction	71° ENE
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 2



Attributes	
Photo No	2
File Name	DSCN0634.JPG
Location	URS Wash No. 59-63
Description	
Latitude	N 36.00613°
Longitude	W 115.90209°
Photo Direction	81° E
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 3



Attributes	
Photo No	3
File Name	DSCN0635.JPG
Location	Adjacent Upland (URS Wash 59-63)
Description	
Latitude	N 36.00677°
Longitude	W 115.90250°
Photo Direction	87° E
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 4



Attributes	
Photo No	4
File Name	DSCN0637.JPG
Location	URS Wash No. 50
Description	Vegetation includes mesquite, rabbitbrush, and big galetta
Latitude	N 36.00034°
Longitude	W 115.89650°
Photo Direction	198° SSW
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 5



Attributes	
Photo No	5
File Name	DSCN0640.JPG
Location	Adjacent Upland (URS Wash 50)
Description	
Latitude	N 36.00049°
Longitude	W 115.89672°
Photo Direction	46° NE
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 6



Attributes	
Photo No	6
File Name	DSCN0642.JPG
Location	URS Wash No. 50
Description	Vegetation includes mesquite
Latitude	N 35.99665°
Longitude	W 115.89787°
Photo Direction	16° NNE
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 7



Attributes	
Photo No	7
File Name	DSCN0643.JPG
Location	Adjacent Upland (URS Wash 50)
Description	
Latitude	N 35.99641°
Longitude	W 115.89744°
Photo Direction	21° NNE
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 8



Attributes	
Photo No	8
File Name	DSCN0644.JPG
Location	URS Wash No. 32
Description	
Latitude	N 35.99729°
Longitude	W 115.89124°
Photo Direction	266° W
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 9



Attributes	
Photo No	9
File Name	DSCN0646.JPG
Location	Adjacent Upland (URS Wash 32)
Description	
Latitude	N 35.99705°
Longitude	W 115.89114°
Photo Direction	264° W
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 10



Attributes	
Photo No	10
File Name	DSCN0648.JPG
Location	URS Wash No. 36
Description	
Latitude	N 35.99844°
Longitude	W 115.89266°
Photo Direction	51° NE
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 11



Attributes	
Photo No	11
File Name	DSCN0649.JPG
Location	Adjacent Upland (URS Wash 36)
Description	
Latitude	N 35.99861°
Longitude	W 115.89297°
Photo Direction	207° SSW
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 12



Attributes	
Photo No	12
File Name	DSCN0650.JPG
Location	URS Wash 75
Description	
Latitude	N 35.99201°
Longitude	W 115.89173°
Photo Direction	198° SSW
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 13



Attributes	
Photo No	13
File Name	DSCN0651.JPG
Location	Adjacent Upland (URS Wash 75)
Description	
Latitude	N 35.99220°
Longitude	W 115.89232°
Photo Direction	205° SSW
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 14



Attributes	
Photo No	14
File Name	DSCN0652.JPG
Location	URS Wash No. 24
Description	
Latitude	N 35.99047°
Longitude	W 115.88355°
Photo Direction	42° NE
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 15



Attributes	
Photo No	15
File Name	DSCN0653.JPG
Location	Adjacent Upland (URS Wash 24)
Description	
Latitude	N 35.99037°
Longitude	W 115.88408°
Photo Direction	192° SSW
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 16



Attributes	
Photo No	16
File Name	DSCN0654.JPG
Location	URS Wash No. 24
Description	
Latitude	N 35.98767°
Longitude	W 115.88462°
Photo Direction	185° S
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 17



Attributes	
Photo No	17
File Name	DSCN0655.JPG
Location	Adjacent Upland (URS Wash 24)
Description	
Latitude	N 35.98794°
Longitude	W 115.88494°
Photo Direction	210° SSW
Date Stamp	4/9/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 18



Attributes	
Photo No	18
File Name	DSCN0656.JPG
Location	URS Wash No. 3
Description	
Latitude	N 35.98211°
Longitude	W 115.87126°
Photo Direction	225° SW
Date Stamp	4/10/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 19



Attributes	
Photo No	19
File Name	DSCN0657.JPG
Location	Adjacent Upland (URS Wash 3)
Description	
Latitude	N 35.98188°
Longitude	W 115.87128°
Photo Direction	221° SW
Date Stamp	4/10/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 20



Attributes	
Photo No	20
File Name	DSCN0658.JPG
Location	URS Wash No. 9
Description	
Latitude	N 35.98570°
Longitude	W 115.87522°
Photo Direction	212° SSW
Date Stamp	4/10/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 21



Attributes	
Photo No	21
File Name	DSCN0659.JPG
Location	Adjacent Upland (URS Wash 9)
Description	
Latitude	N 35.98566°
Longitude	W 115.87501°
Photo Direction	211° SSW
Date Stamp	4/10/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 22



Attributes	
Photo No	22
File Name	DSCN0660.JPG
Location	URS Wash No. 70
Description	
Latitude	N 36.01412°
Longitude	W 115.91220°
Photo Direction	51° NE
Date Stamp	4/10/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 23



Attributes	
Photo No	23
File Name	DSCN0661.JPG
Location	Adjacent Upland (URS Wash 70)
Description	
Latitude	N 36.01448°
Longitude	W 115.91224°
Photo Direction	218° SW
Date Stamp	4/10/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm

# HHSEGS Stream Vegetation Assessment

Photo No: 24



Attributes	
Photo No	24
File Name	DSCN0662.JPG
Location	URS Wash No. 26
Description	
Latitude	N 35.99273°
Longitude	W 115.88734°
Photo Direction	237° WSW
Date Stamp	4/10/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm



# HHSEGS Stream Vegetation Assessment

Photo No: 25



Attributes	
Photo No	25
File Name	DSCN0663.JPG
Location	Adjacent Upland (URS Wash 26)
Description	
Latitude	N 35.99238°
Longitude	W 115.88688°
Photo Direction	219° SW
Date Stamp	4/10/2012
Make	NIKON
Model	COOLPIX AW100
Focal Length	5 mm







**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT  
COMMISSION OF THE STATE OF CALIFORNIA  
1516 NINTH STREET, SACRAMENTO, CA 95814  
1-800-822-6228 – WWW.ENERGY.CA.GOV**

**APPLICATION FOR CERTIFICATION  
FOR THE *HIDDEN HILLS SOLAR ELECTRIC  
GENERATING SYSTEM***

DOCKET NO. 11-AFC-2

PROOF OF SERVICE  
(Revised 3/22/2012)

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\*indicates change



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### DECLARATION OF SERVICE

I, Mary Finn, declare that on April 23, 2012, I served and filed copies of the attached Hidden Hills SEGS Data Response, Set 2D-3, dated April 23, 2012. This document is accompanied by the most recent Proof of Service list, located on the web page for this project at: [www.energy.ca.gov/sitingcases/hiddenhills/index.html](http://www.energy.ca.gov/sitingcases/hiddenhills/index.html).

The document has been sent to the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit or Chief Counsel, as appropriate, in the following manner:

***(Check all that Apply)***

**For service to all other parties:**

- ☒ Served electronically to all e-mail addresses on the Proof of Service list;
- ☐ Served by delivering on this date, either personally, or for mailing with the U.S. Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses **NOT** marked "e-mail preferred."

**AND**

**For filing with the Docket Unit at the Energy Commission:**

- ☒ by sending an electronic copy to the e-mail address below (preferred method); **OR**
- ☐ by depositing an original and 12 paper copies in the mail with the U.S. Postal Service with first class postage thereon fully prepaid, as follows:

**CALIFORNIA ENERGY COMMISSION – DOCKET UNIT**

Attn: Docket No. 11-AFC-2  
1516 Ninth Street, MS-4  
Sacramento, CA 95814-5512  
[docket@energy.state.ca.us](mailto:docket@energy.state.ca.us)

***OR, if filing a Petition for Reconsideration of Decision or Order pursuant to Title 20, § 1720:***

- ☐ Served by delivering on this date one electronic copy by e-mail, and an original paper copy to the Chief Counsel at the following address, either personally, or for mailing with the U.S. Postal Service with first class postage thereon fully prepaid:

California Energy Commission  
Michael J. Levy, Chief Counsel  
1516 Ninth Street MS-14  
Sacramento, CA 95814  
[mlevy@energy.state.ca.us](mailto:mlevy@energy.state.ca.us)

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.



---

Mary Finn  
CH2M Hill