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# U.S. Customs and Border Protection, Tucson Sector – Environmental Surveys Fence Replacement Projects

## Waters of the U.S. Delineation Report Tucson, AZ





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**Executive Summary**

Natural Channel Design, Inc. delineated 403 separate washes in the Roosevelt Reservation containing potential Waters of the United States during a survey of an approximate 63-mile, non-contiguous stretch of the international border between the U.S. and Mexico. The project area is located within the Roosevelt Reservation in the Customs and Border Protection's Ajo and Douglas Station Areas of Responsibility. All the channels are ephemeral (with the exception of two sites), and most are located in the upper ends of their watersheds. Channels that were delineated as potential Waters of the United States (WOUS) exhibited an ordinary high water mark and traveled into or from Mexico, crossing the border. A total of 14.26 acres were delineated. These channels are considered interstate waters and may be subject to the U.S. Army Corps of Engineers (ACOE) jurisdiction under current regulations (33CFR Part 328).

**Project Background**

The U.S. Customs and Border Protection (CBP) is preparing environmental resource surveys for the planned replacement of existing vehicle and pedestrian fences with a new bollard wall along the U.S./Mexico border in the Ajo and Douglas Station Areas of Responsibility. The project areas are defined as follows:

- Tucson Project Area 1. This area contains two segments. The first begins approximately 2 miles west of the Lukeville Port of Entry continuing west approximately 30 miles in Pima County, Arizona. The second segment begins approximately 3 miles east of the Lukeville Port of Entry and continues east approximately 8 miles in Pima County, Arizona.
- Tucson Project Area 2. Area 2 is located between segments 1 and 2 of Project Area 1, extending from approximately 2 miles west of the Lukeville Port of Entry to approximately 3 miles east of the port.
- Tucson Project Area 3. This area includes three segments of vehicle barrier replacement, all located in Cochise County, Arizona. The approximately 20 miles of non-contiguous barrier replacement begins around 18 miles west of the Naco Port of Entry and continues to approximately 25 miles east of the Douglas Port of Entry (or around 5 miles west of the Arizona/New Mexico state line).

Construction will occur within the 60-foot-wide Roosevelt Reservation along the Arizona/Mexico border. Delineation of potential Waters of the United States (WOUS) is limited to the Roosevelt Reservation. Each project area is depicted in Figure 1 and Figure 2.

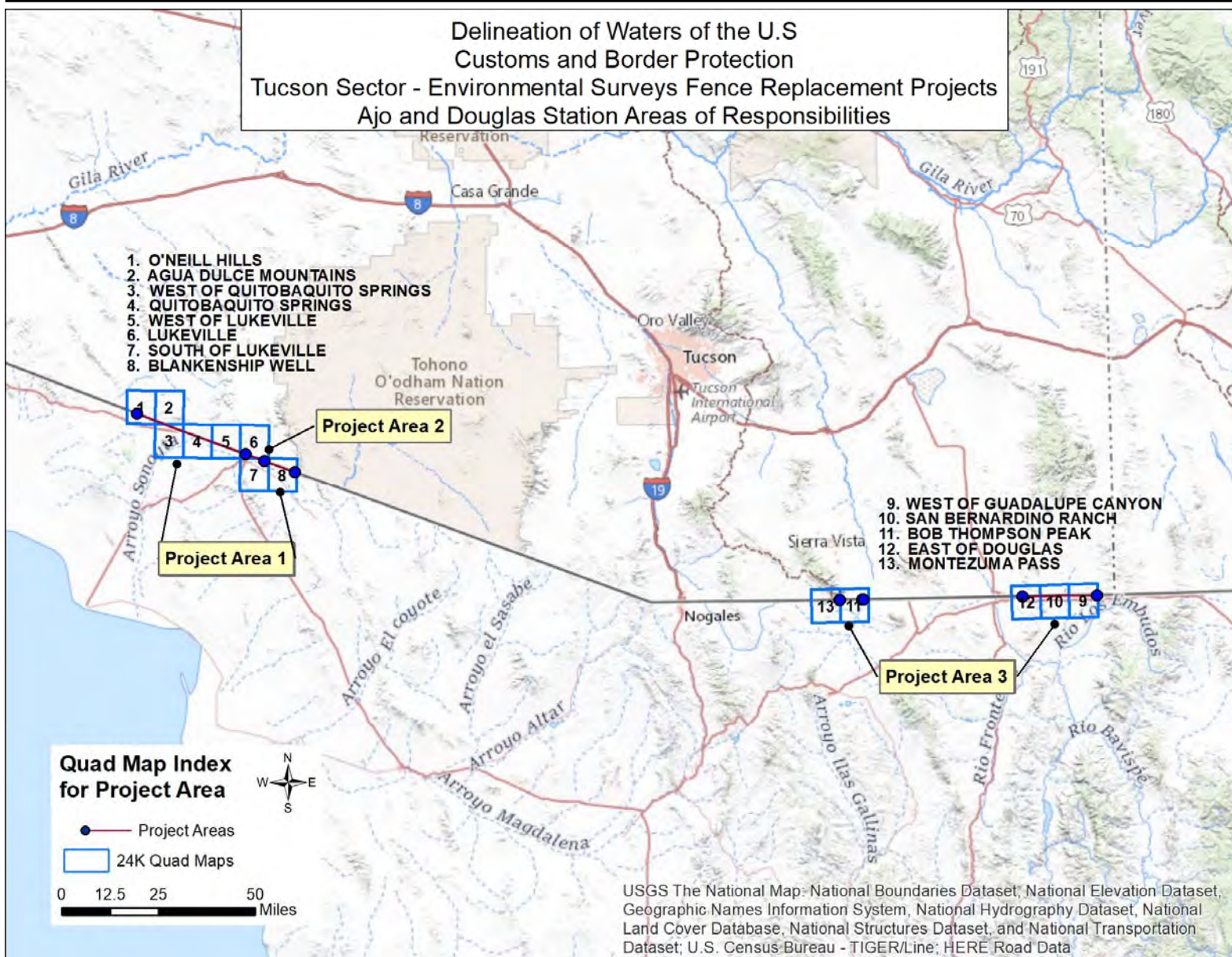


Figure 1. Overview of project areas showing corresponding USGS Quad Maps.

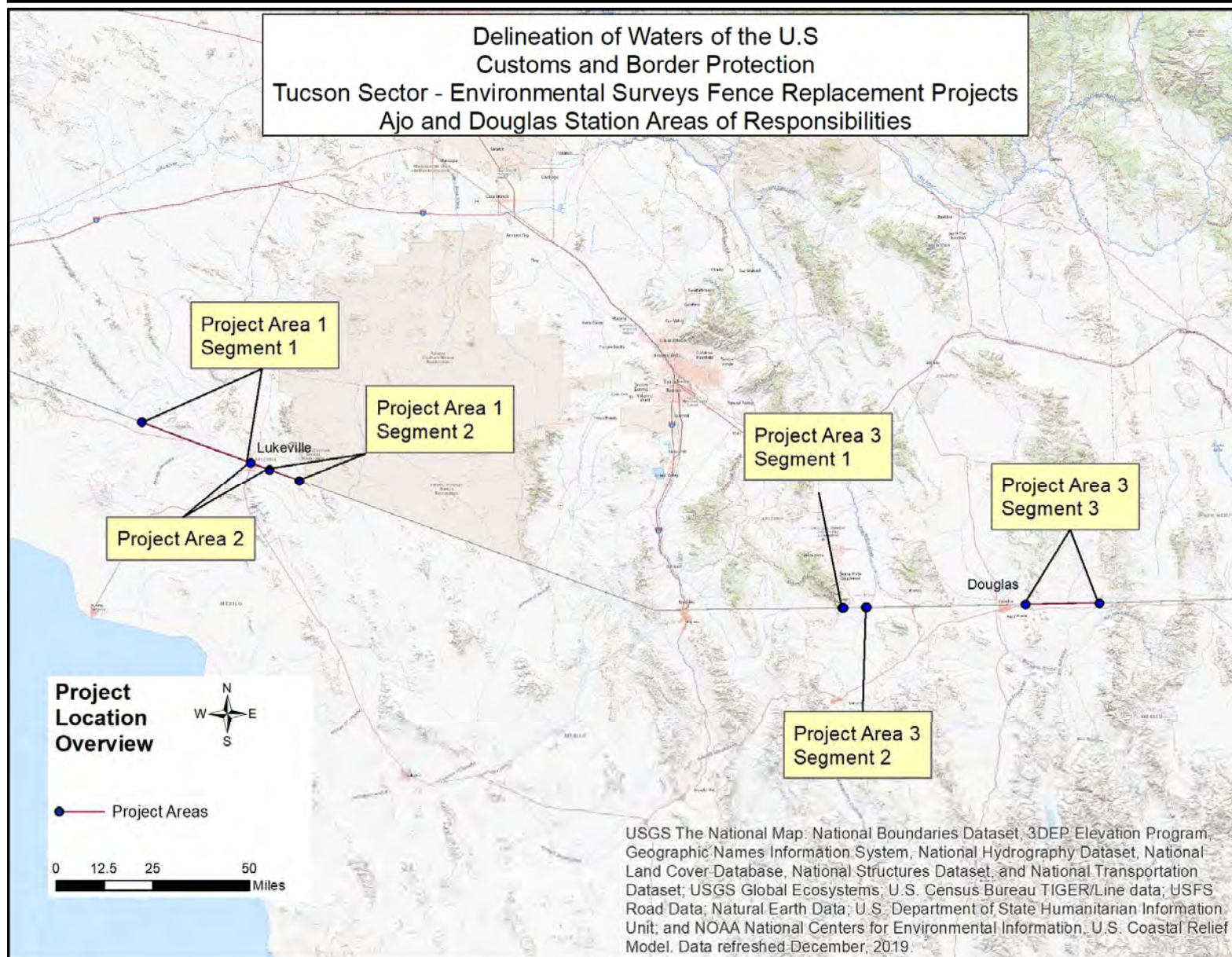


Figure 2. Overview map of project areas.



## **Report Outline**

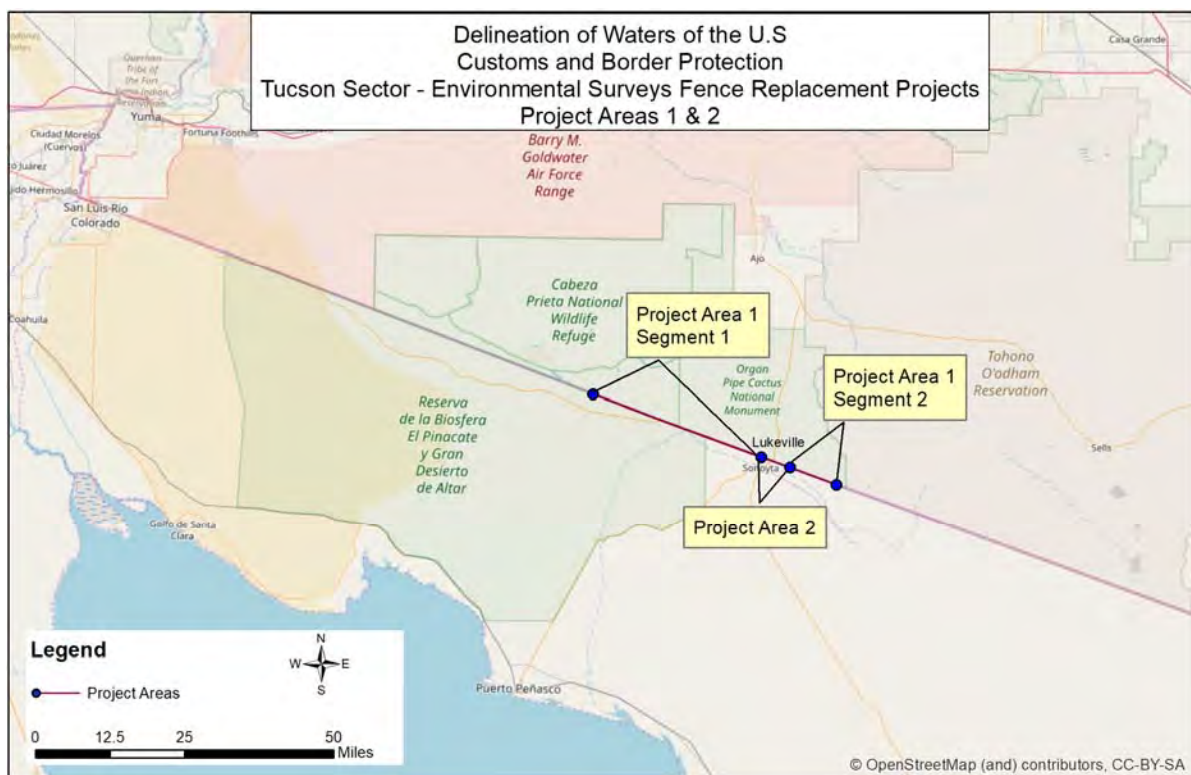
This report documents current site conditions and identifies potential WOUS within the project corridor. Sites that may be jurisdictional are described including maps showing delineated areas and photo documentation of each site. Potential WOUS are summarized for each area and segment.

## **Project Sites**

The project sites occupy approximately 63 non-contiguous miles of the international border and all are located within the 60-foot-wide Roosevelt Reservation that buffers the U.S. - Mexico border. The three project sites are spread across approximately 250 miles of the border in Pima and Cochise counties in southern Arizona.

## ***Project Areas 1 & 2***

Project Areas 1 and 2 are located in Organ Pipe Cactus National Monument and the Cabeza Prieta National Wildlife Refuge in Pima County, Arizona (Figure 3.). Project Area 2 has a different designation due to the existing type of pedestrian fence currently in place, otherwise Areas 1 and 2 are contiguous.



**Figure 3. Map of Project Areas 1 and 2.**

Project Areas 1 and 2 occur in the Arizona Upland subregion of the Sonoran Desert (Brown, 1994) dominated by Yellow Palo Verde (*Parkinsonia microphylla*), Saguaro (*Carnegiea gigantea*) and Ironwood (*Oleña tesota*). The western edge of Project Area 1 extends into one of the hottest and driest deserts in North America, the Lower Colorado Valley subregion of the Sonoran Desert (Brown, 1994), where perennial shrubs of creosote (*Larrea tridentata*) and bursage (*Ambrosia* spp.) dominate. Yet, even in this arid region, during the rare, exceptionally wet El Niño years, plant diversity explodes with a variety of annual

herbaceous plants that cover the stark landscapes (Bowers 2004). Annual precipitation averages 7.7 inches at the Organ Pipe visitor center, and generally becomes drier going to the west.

There are no wetland areas in Project Areas 1 and 2 (USFWS, 2019). All the channels in these Areas 1 and 2 are ephemeral. Channel flow is typically related to intense thunderstorm events. The majority of channels are formed on broad alluvial fans along with some hillslope areas. Aerial views of the channels upstream in their watersheds show merging and diverging along their routes and flow can be dependent on the latest runoff event, channel blockage, and sediment rearranging. As the topography becomes steeper to the west, channels are generally more confined into valleys. Many of the tributaries that cross the border enter the El Pinacate and Gran Desierto de Altar National Biosphere Reserve, which are listed as a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site (Figure 3).

### ***Project Area 3***

Project Area 3 is located in Cochise County, Arizona, where ecosystems (as described by Brown, 1994) are primarily transitional between Chihuahuan Desert Scrub and Semidesert Grassland with elements from the Madrean Evergreen Woodland and the Sonoran Desert, Arizona Upland Subdivision at higher elevations. Depending on topography and aspect, vegetation can contain different mixes of species from several plant communities. Segment 1 at the western end of Area 3, south of Sierra Vista, Arizona, crosses through an area of Madrean Evergreen Woodland. This vegetation type is characterized by alternating mosaics of woodland on north-facing slopes and in the canyons, and desert grassland or savannah on drier south-facing slopes and across valleys. Common woodland species are evergreen oaks (Emory Oak [*Quercus emoryi*] and Arizona White Oak [*Q. arizonica*]), shrub oak (*Q. toumeyii*), Mexican Pinyon (*Pinus cemroides*), and Alligator Juniper (*Juniperus deppeana*). The desert savannah/grassland includes a variety of perennial grasses, cacti, and succulents, especially Agave (*Agave* spp.).

Segment 2 in the broad San Pedro Valley lies within the Plains and Great Basin Grassland (Brown, 1994). Before the A.D. 1800's era of over-grazing, this vegetation type contained a variety of perennial grasses, such as Bluestem (*Schizachyrium scoparium* and *Andropogon* spp.), Panic Grass (*Panicum* spp.), and Grama Grasses (e.g. *Bouteloua curtipendula*, *B. gracilis*, *B. hirsuta*, and others) with Alkali Sacaton (*Sporobolus wrightii*) in the deeper soils along drainages and on lower alluvial terraces. Today, non-native grasses (Cheat Grass [*Bromus* spp.], Lehmann Lovegrass [*Eragrostis lehmanniana*], and Buffel Grass [*Pennisetum ciliare*]) have spread throughout southern Arizona impacting the distribution and abundance of native species.

The alignment of Segment 3 at the eastern end of Area 3 dips in and out of Chihuahuan Desert Scrub and Semidesert Grassland (Brown, 1994). Chihuahuan Desert Scrub is dominated by microphyllous shrubs, especially Creosote Bush (*Larrea tridentata*), but also common are Acacia (*Acacia constricta* and *A. neovernicosa*) and Tarbush (*Flourensia cernua*). Important sub-shrubs include Mariola (*Parthenium incanum*), Guayule (*Parthenium argentatum*), Goldeneye (*Viguiera stenoloba*), and Dogweed (*Dyssodia* spp.). On rocky slopes and *bajadas* above valley floors, a greater diversity of plant species are found including the signature Chihuahuan Desert Scrub succulents Lechuguilla (*Agave*

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*lechuguilla*), *Yucca* (*Yucca elata* and *Y. torreyi*), Beargrass (*Nolina* spp.), and Sotol (*Dasyllirion wheeleri*).

Semidesert Grassland can cover large areas as a pure grassland characterized by bunch grasses of Curly Mesquite Grass (*Hilaria berlanderi*) and summer-growing, perennial grasses, such as Black Grama (*Bouteloua eriopoda*), Three Awn (*Aristida divaricata*, *A. wrightii*, *A. pupurea*, and others), Vine Mesquite Grass (*Panicum obtusum*), Tanglehead Grass (*Heteropogon contortus*), Bush Muhly (*Muhlenbergia porteri*), and other grasses. The Semidesert Grassland also shares many shrub and succulent species with the surrounding Chihuahuan Desert Scrub (Brown, 1994) including *Yucca*, Agave, and Sotol. Other scrub-shrubs that can be locally dominant include Mesquite (*Prosopis glandulosa*, *P. juliflora*), Lotebush (*Zizyphus obtusifolia*, *Condalia spathulata*), Allthorn (*Koeberlinia spinosa*), Catclaw Acacia (*Acacia greggii*), Mimosa (*Mimosa biuncifera*, *M. dysocarpa*), and Ocotillo (*Fouquieria splendens*).

Larger runoff events typically occur in the summer months when intense monsoon thunderstorms produce runoff. All channels discussed are ephemeral with the exception of Black Draw located towards the eastern end of the project. Within Project Area 3, Segment 1 is a tributary to the San Pedro River, while Segment 2 is on the San Pedro, which flows north from Mexico. Both of these segments are located just south of Hereford, Arizona.

Channels in the western portion of Segment 3 are small tributaries to the Agua Prieta, which flows into the Yaqui River. The eastern portion of Segment 3 has tributaries that flow south into the Rio San Bernardino, which also connects to the Yaqui River. There were two locations identified as wetlands (USFWS, 2019) in Segment 3: Black Draw and Hay Hollow Wash, which are located within the San Bernardino National Wildlife Refuge (Figure 4 and Figure 5). Black Draw is a perennial stream and is designated critical habitat for three federally endangered fish species. There are no wetland areas in Segments 1 and 2 of Project Area 3 (USFWS, 2019).

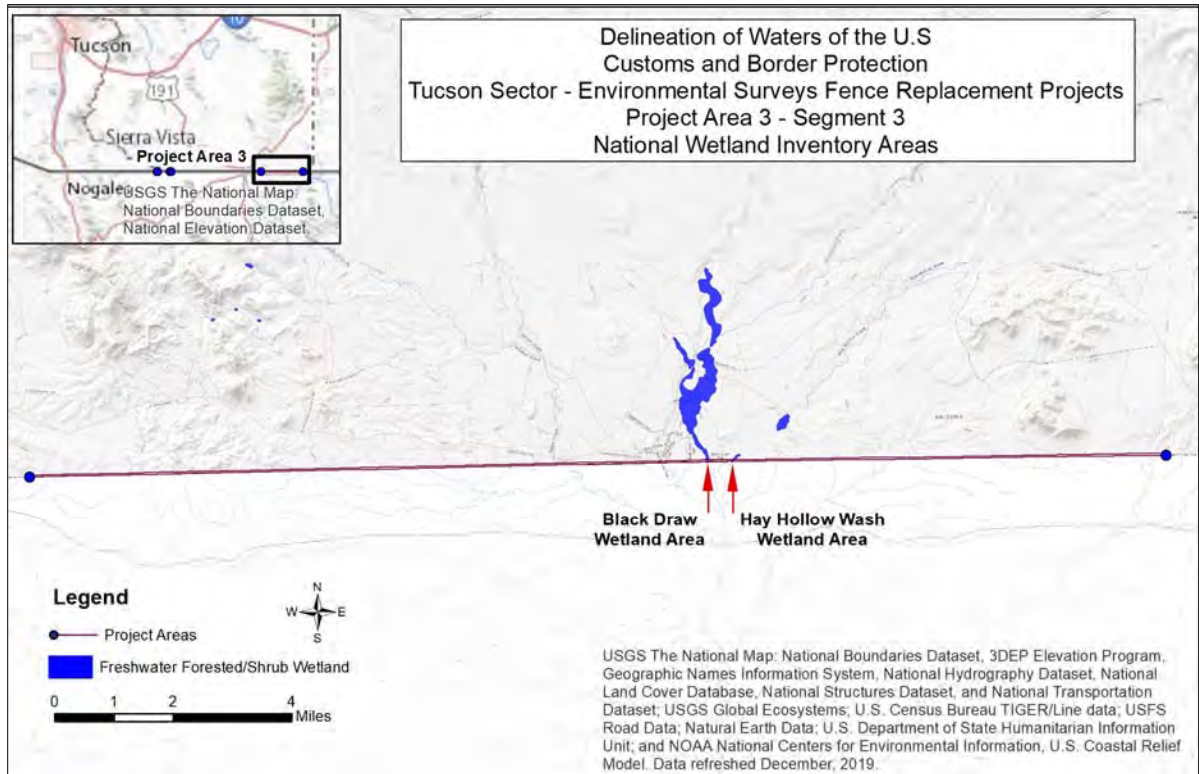


Figure 4. Location of National Wetland Inventory areas in Project Area 3, Segment 3.

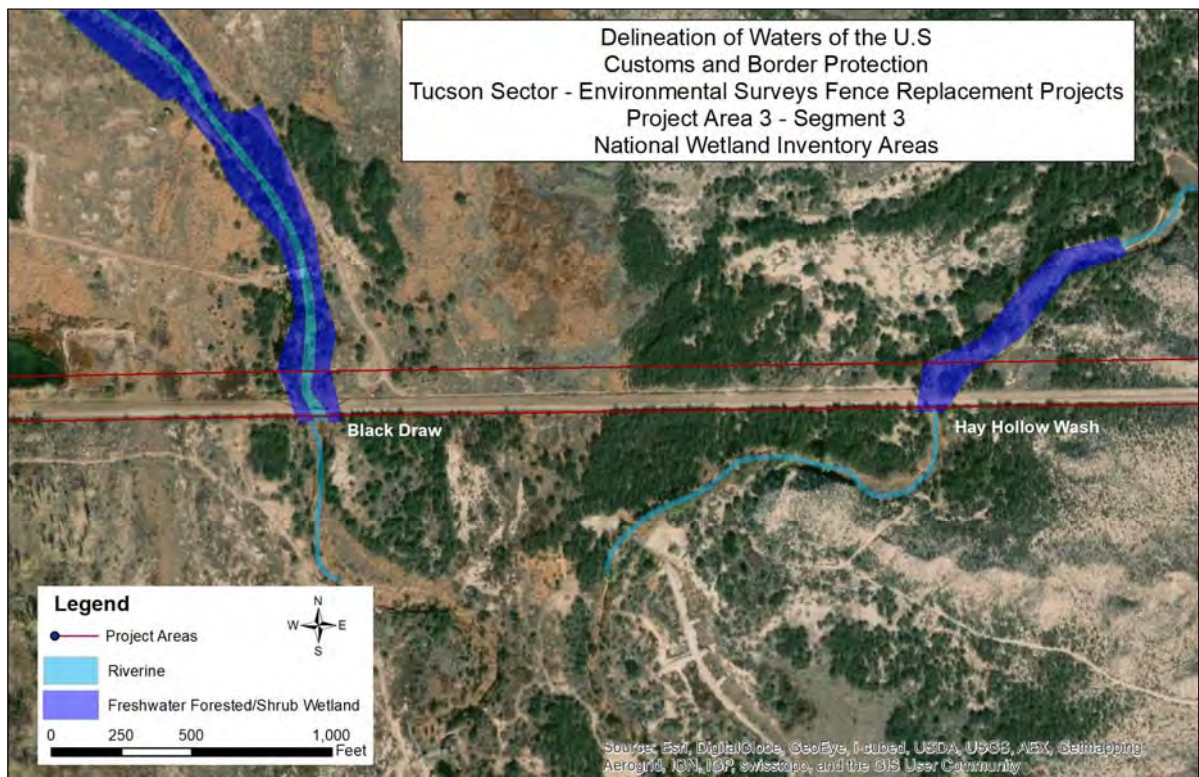


Figure 5. Close up aerial view of National Wetland Inventory areas on Black Draw and Hay Hollow Wash.

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### **Regulatory Background**

Section 404 of the Clean Water Act established a program to regulate the discharge of dredged and fill material into Waters of the United States. Under 40 CFR 230.3(s) the term *Waters of the United States* means:

1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
2. All interstate waters including interstate wetlands;
3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including any such waters:
  - i. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
  - ii. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
  - iii. Which are used or could be used for industrial purposes by industries in interstate commerce;
4. All impoundments of waters otherwise defined as Waters of the United States under this definition;
5. Tributaries of waters identified in paragraphs (s)(1) through (4) of this section;
6. The territorial sea;
7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (s)(1) through (6) of this section.

“On October 22, 2019, the United States Environmental Protection Agency and Department of the Army (the agencies) published a final rule (“Step One”) that repeals the 2015 Rule defining “Waters of the United States” and re-codifies the regulatory text that existed prior to the 2015 Rule. With this final rule, the agencies are implementing the pre-2015 Rule regulations nationwide as informed by applicable agency guidance documents and consistent with Supreme Court decisions and longstanding agency practice. This final rule became effective on December 23, 2019” (USEPA, 2020).

For non-tidal and non-wetland waters, the extent of jurisdiction (or what is delineated as Waters of the United States) is defined by the Ordinary High Water Mark (OHWM). The OHWM is *an approach for identifying the lateral limits of non-wetland waters. However, determining whether any non-wetland water is a jurisdictional “Water of the United States” involves further assessment in accordance with the regulations, case law, and clarifying guidance* (Lichvar and McColley, 2008).

### **Delineation Methods**

This delineation of the OHWM followed the methods identified in the U.S. ACOE document Updated Datasheet for the Identification of the Ordinary High Water Mark in the Arid West Region of the Western United States (Curtis and Lichvar, 2010). The OHWM is defined as *the line on the shore established by fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, or the presence of litter and debris. In dry-land fluvial systems typical of the Arid West, a clear natural scour*

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*line impressed on the bank, recent bank erosion, destruction of native terrestrial vegetation, and the presence of litter and debris are the most commonly used physical characteristics to indicate the OHWM (Lichvar and McColley, 2008).*

This delineation utilized field observations of channel geomorphology and associated vegetation, in particular, the lateral extent of the OHWM was mapped following a change of substrate size, presence of a scour line and slope breaks along banks. In some cases, the presence of upland herbaceous vegetation was used. Notes and comments were kept electronically.

The project area is limited to the 60-ft-wide Roosevelt Reservation. The survey included driving the existing border fence road and identifying any drainage along the route that displayed a clear active channel. In all areas, the OHWM was located on the northern side of the road and often only found outside of the Reserve boundary due to thick vegetation that has grown in the active channel. Views over the fence into Mexico allowed visual estimates of the OHWM route as it crosses the road, but no travel across the border was undertaken.

Within the project area boundary, the existing border road, border fence, and associated maintenance has obliterated or altered most natural channel forms. As water flows across the road, it tends to pool and spread before reentering the downstream channel. During evaluation and identification of OHWM, it was often necessary to look outside the project area boundary to determine presence of an OHWM. Since there had been recent flows in the project areas, the channel flow path across the road was often evident due to debris or scour and an estimated OHWM within the Reservation was more easily determined. If an OHWM was observed in the channel, then the channel was provided a unique ID and the outline of the OHWM was surveyed utilizing the GPS software MapItFast™ created by AgTerra Technologies, Inc. The software was installed on an android tablet that has GPS capability.

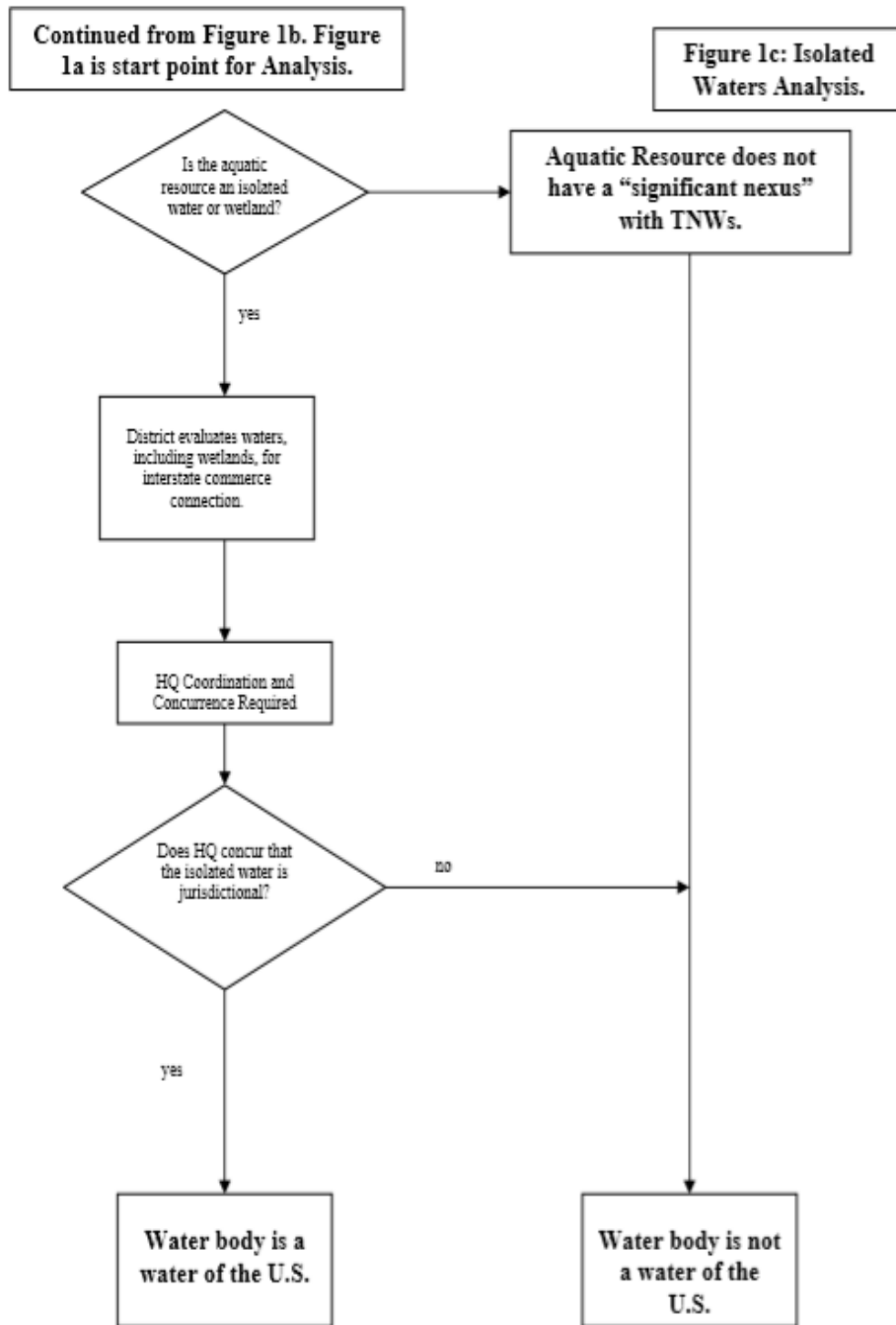
### **Results**

During the survey, 403 washes were identified and surveyed that displayed an ordinary high-water mark within the Roosevelt Reservation. There were many smaller drainages crossing the project area that can be seen on aerial images as more heavily vegetated linear features, but these had no discernible channel form or any ordinary high-water features that were located within the project area at the time of the survey. Tables are included in Appendix A that list each delineated wash location, linear feet, and area.

With the exception of one channel in the San Bernardino National Wildlife Refuge, all the channels surveyed are ephemeral washes and are not **relatively permanent** waters. Relatively permanent water is defined as non-navigable tributaries to traditional navigable waters (TNW) that typically flow year-round or have continuous flow at least seasonally, typically 3 months. The channels in the project areas flow only in response to precipitation events.

The channels described in this report were delineated for consideration as WOUS and Preliminary Jurisdictional Areas. Apart from the two wetland channels in Project Area 3, a U.S. ACOE concurrence with a jurisdictional determination may be required for classifying isolated, interstate waters as WOUS. The decision would be based on the following flow

chart presented in the U.S. ACOE Jurisdictional Determination Form Instructional Guidebook, page 10 (Figure 6).



- NOTES:**
1. Non-wetland water bodies include traditional navigable waters (TNWs) and tributaries that flow directly or indirectly into TNWs.
  2. For a wetland adjacent to a TNW, adjacent means "bordering, neighboring or contiguous." Wetlands separated from other waters of the U.S. by man-made dikes or barriers, natural river berms, beach dunes, and the like are also adjacent.
  3. Tributary is a natural, man-altered, or man-made water body. Examples include rivers, streams, and lakes that flow directly or indirectly into TNWs.
  4. A wetland abuts a tributary if it is not separated from the tributary by uplands, a berm, dike, or similar feature.
  5. Additional coordination requirements for isolated waters and those waters requiring significant nexus determination are presented in Figure 2.
  6. Photographic examples of these water bodies follow.

Figure 6. Flow chart outlining U.S. Army Corps of Engineers Isolated Waters Determination.

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### ***Project Areas 1 & 2***

There were 334 channels surveyed in Project Areas 1 and 2 and all are ephemeral. The channels generally flow from north to south into Mexico. Starting from the western end of Project Area 1 and heading east for 10.8 miles, there were 93 channels that flow towards the El Pinacate Volcanic Shield where they appear to end in a dry lakebed. These channels don't appear to connect to any TNW and do not have a significant nexus to any TNW but may be considered WOUS since they flow across the border and can be interpreted to be Interstate Waters. Within the rest of Project Areas 1 and 2, the channels are tributaries to the Rio Sonoyta in Mexico. This is an intermittent stream with perennial pools and is home to the Sonoyta pupfish and the Sonoyta mud turtle, both listed as endangered. The river connects to the Gulf of California and may have once been navigable. Again, since all the channels flow across the boundary, they may be designated as interstate waters and considered WOUS. A total of 10.73 acres were delineated in these project areas. Individual site locations and photos are documented in Appendix B.

### ***Project Area 3***

There were 69 washes or bosque areas surveyed in Project Area 3. All are ephemeral with the exception of Black Draw in the San Bernardino Wildlife Refuge. Project Area 3 is divided into three segments. The first two segments are isolated sites located west of Douglas, and south of Hereford, AZ. Segment 1 has two channels which drain south across the border into Mexico where they enter the San Pedro River. The San Pedro River then flows north and crosses Segment 2 as it continues north to the Gila River. Both the tributaries and the mainstem of the San Pedro can be considered WOUS. The San Pedro is a tributary to the Gila River, which is a TNW. A total of 3.53 acres were delineated in this project area. Individual site locations and photos are located in Appendix C.

Within Segment 3, the channels generally flow from north to south, though there are a few that flow north. All the channels surveyed cross the international boundary and therefore may be defined as interstate waters and would be jurisdictional under the Clean Water Act (1986/1988 Regulatory Definition of "Waters of the United States 40 CFR 230.3(s)).

Located in the San Bernardino Wildlife Refuge, the Black Draw drainage is a freshwater wetland and had standing water at the time of the survey. Black Draw is listed as Critical Habitat for several threatened or endangered species including the beautiful shiner (*Cyprinella formosa*), Yaqui catfish (*Ictalurus pricei*) and Yaqui chub (*Gila purpurea*), Northern Mexican gartersnake (*Thamnophis eques megalops*) and the yellow-billed cuckoo (*Coccyzus americanus*). Hay Hollow wash is mapped as a wetland in the National Wetlands Inventory (U.S. Fish and Wildlife Service 2019), but did not have standing water within the project area at the time of survey. It is listed as critical habitat for the Northern Mexican gartersnake. Both of these areas can be considered WOUS.

All the datasheets for each delineated channel in Project Areas 1, 2, and 3 are provided in Appendix D.

### ***Site Numbering System***

We initially endeavored to create a naming convention for observed channels from aerial imagery prior to going out into the field, but so many additional channels were identified in the field that the initial naming convention was discontinued. However, each delineated



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wash has a unique identifier which consists of the Project Area, Segment (if applicable), and channel ID. Each unique ID for each delineated channel can be found on the location maps located in Appendices B and C, in the summary tables in Appendix A, and on the datasheets in Appendix D.

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## APPENDIX A

### Project Area Tables:

#### Site ID, Location, Acreage in OHWM & Linear Length of Channel

**Table 1. Project Area 1, Segment 1****Total Acreage within OHWM: 7.92 acres**

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 1, Segment 1	a1w2	32.0312	-113.3091	0.06	60
Area 1, Segment 1	a1w1a	32.0310	-113.3084	0.02	60
Area 1, Segment 1	a1w1	32.0306	-113.3071	0.04	60
Area 1, Segment 1	a1a	32.0294	-113.3032	0.02	60
Area 1, Segment 1	a1	32.0293	-113.3029	0.03	60
Area 1, Segment 1	a2a	32.0270	-113.2955	0.01	60
Area 1, Segment 1	a2	32.0268	-113.2951	0.04	60
Area 1, Segment 1	a3b	32.0261	-113.2929	0.03	125
Area 1, Segment 1	a3a	32.0260	-113.2926	0.01	60
Area 1, Segment 1	a3	32.0260	-113.2924	0.03	60
Area 1, Segment 1	a4w6	32.0251	-113.2895	0.03	60
Area 1, Segment 1	a4w5	32.0229	-113.2827	0.02	60
Area 1, Segment 1	a4w5	32.0229	-113.2826	0.03	60
Area 1, Segment 1	a4w4	32.0228	-113.2823	0.02	60
Area 1, Segment 1	a4w3	32.0221	-113.2798	0.32	690
Area 1, Segment 1	a4w1	32.0215	-113.2781	0.01	60
Area 1, Segment 1	a4a	32.0210	-113.2768	0.04	60
Area 1, Segment 1	a4	32.0209	-113.2763	0.06	60
Area 1, Segment 1	a5w2	32.0197	-113.2724	0.02	60
Area 1, Segment 1	a5w1	32.0196	-113.2721	0.02	60
Area 1, Segment 1	a5b	32.0188	-113.2696	0.01	60
Area 1, Segment 1	a5a	32.0187	-113.2694	0.01	60
Area 1, Segment 1	a5	32.0187	-113.2693	0.01	60
Area 1, Segment 1	a6w2a	32.0185	-113.2686	0.01	60
Area 1, Segment 1	a6w2a	32.0183	-113.2682	0.03	60
Area 1, Segment 1	a6w1	32.0181	-113.2675	0.01	60
Area 1, Segment 1	a6a	32.0172	-113.2647	0.02	60
Area 1, Segment 1	a6	32.0166	-113.2628	0.03	60
Area 1, Segment 1	a7w13	32.0159	-113.2606	0.02	60
Area 1, Segment 1	a7w12	32.0157	-113.2598	0.07	152
Area 1, Segment 1	a7w11a	32.0152	-113.2582	0.01	60
Area 1, Segment 1	a7w11	32.0148	-113.2570	0.01	60
Area 1, Segment 1	a7w10	32.0138	-113.2540	0.02	60
Area 1, Segment 1	a7w9	32.0138	-113.2538	0.02	60
Area 1, Segment 1	a7w8	32.0135	-113.2530	0.02	60
Area 1, Segment 1	a7w7	32.0130	-113.2515	0.03	60
Area 1, Segment 1	a7w6	32.0121	-113.2486	0.02	60
Area 1, Segment 1	a7w5	32.0117	-113.2471	0.01	60
Area 1, Segment 1	a7w4	32.0113	-113.2459	0.01	60
Area 1, Segment 1	a7w3	32.0107	-113.2442	0.02	60

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 1, Segment 1	a7w2	32.0104	-113.2430	0.01	60
Area 1, Segment 1	a7w1	32.0098	-113.2412	0.02	60
Area 1, Segment 1	a7	32.0095	-113.2402	0.02	60
Area 1, Segment 1	a8w4	32.0089	-113.2385	0.03	60
Area 1, Segment 1	a8w3a	32.0086	-113.2374	0.01	60
Area 1, Segment 1	a8w3	32.0084	-113.2367	0.02	60
Area 1, Segment 1	a8w2	32.0073	-113.2332	0.02	60
Area 1, Segment 1	a8w1	32.0064	-113.2306	0.01	60
Area 1, Segment 1	a8b	32.0063	-113.2300	0.01	60
Area 1, Segment 1	a8a	32.0057	-113.2281	0.03	60
Area 1, Segment 1	a8	32.0056	-113.2278	0.03	60
Area 1, Segment 1	a9w5	32.0047	-113.2250	0.02	60
Area 1, Segment 1	a9w5a	32.0046	-113.2247	0.01	60
Area 1, Segment 1	a9w4	32.0043	-113.2239	0.01	60
Area 1, Segment 1	a9w3	32.0036	-113.2215	0.01	60
Area 1, Segment 1	a9w2	32.0033	-113.2206	0.02	60
Area 1, Segment 1	a9w1	32.0027	-113.2188	0.02	60
Area 1, Segment 1	a9	32.0023	-113.2176	0.03	60
Area 1, Segment 1	a10w3	32.0011	-113.2139	0.03	225
Area 1, Segment 1	a10w2	32.0009	-113.2130	0.01	60
Area 1, Segment 1	a10w1	32.0002	-113.2109	0.02	60
Area 1, Segment 1	a10	31.9996	-113.2088	0.04	60
Area 1, Segment 1	a10a	31.9994	-113.2084	0.02	60
Area 1, Segment 1	a11w9	31.9992	-113.2077	0.01	60
Area 1, Segment 1	a11w7	31.9988	-113.2065	0.02	60
Area 1, Segment 1	a11w6	31.9987	-113.2060	0.02	60
Area 1, Segment 1	a11w5	31.9981	-113.2042	0.02	60
Area 1, Segment 1	a11w4	31.9974	-113.2020	0.01	60
Area 1, Segment 1	a11w3	31.9970	-113.2009	0.02	60
Area 1, Segment 1	a11w2	31.9958	-113.1970	0.05	115
Area 1, Segment 1	a11w1	31.9952	-113.1950	0.03	60
Area 1, Segment 1	a11	31.9943	-113.1921	0.05	60
Area 1, Segment 1	a12w1	31.9933	-113.1890	0.02	60
Area 1, Segment 1	a12	31.9922	-113.1857	0.02	60
Area 1, Segment 1	a13w3	31.9916	-113.1837	0.02	60
Area 1, Segment 1	a13w2	31.9912	-113.1826	0.06	215
Area 1, Segment 1	a13w1	31.9908	-113.1812	0.03	60
Area 1, Segment 1	a13	31.9902	-113.1794	0.05	60
Area 1, Segment 1	A14w4	31.9898	-113.1781	0.01	60
Area 1, Segment 1	a14w3	31.9896	-113.1774	0.01	60

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 1, Segment 1	a14w2	31.9888	-113.1750	0.02	60
Area 1, Segment 1	a14w1	31.9885	-113.1740	0.02	60
Area 1, Segment 1	a14a	31.9879	-113.1720	0.01	60
Area 1, Segment 1	a14	31.9877	-113.1714	0.07	60
Area 1, Segment 1	a15w8	31.9870	-113.1693	0.02	60
Area 1, Segment 1	a15w7	31.9868	-113.1685	0.03	60
Area 1, Segment 1	a15w6	31.9865	-113.1675	0.01	60
Area 1, Segment 1	a15w5	31.9860	-113.1661	0.04	60
Area 1, Segment 1	a15w4	31.9855	-113.1644	0.02	60
Area 1, Segment 1	a15w3	31.9853	-113.1637	0.04	60
Area 1, Segment 1	a15w2	31.9847	-113.1620	0.03	60
Area 1, Segment 1	a15w1	31.9845	-113.1614	0.03	60
Area 1, Segment 1	a15	31.9841	-113.1601	0.04	60
Area 1, Segment 1	a16w5	31.9830	-113.1565	0.03	60
Area 1, Segment 1	a16w4	31.9818	-113.1526	0.01	60
Area 1, Segment 1	a16w3	31.9816	-113.1520	0.02	60
Area 1, Segment 1	a16w2	31.9813	-113.1509	0.01	60
Area 1, Segment 1	a16w1	31.9804	-113.1482	0.01	60
Area 1, Segment 1	a16	31.9799	-113.1463	0.03	60
Area 1, Segment 1	a16a	31.9797	-113.1458	0.01	60
Area 1, Segment 1	a17w6	31.9792	-113.1441	0.02	60
Area 1, Segment 1	a17w5	31.9788	-113.1427	0.01	60
Area 1, Segment 1	a17w4	31.9781	-113.1404	0.03	60
Area 1, Segment 1	a17w3	31.9778	-113.1393	0.02	60
Area 1, Segment 1	a17w2	31.9770	-113.1367	0.03	60
Area 1, Segment 1	a17w1	31.9764	-113.1346	0.02	60
Area 1, Segment 1	a17	31.9762	-113.1340	0.03	60
Area 1, Segment 1	a18w2	31.9755	-113.1316	0.03	60
Area 1, Segment 1	a18w1	31.9754	-113.1312	0.02	60
Area 1, Segment 1	a18	31.9738	-113.1262	0.05	60
Area 1, Segment 1	a19w1	31.9736	-113.1253	0.03	60
Area 1, Segment 1	a19	31.9729	-113.1233	0.02	60
Area 1, Segment 1	a19c	31.9728	-113.1230	0.02	60
Area 1, Segment 1	a19b	31.9728	-113.1228	0.01	60
Area 1, Segment 1	a19a	31.9728	-113.1227	0.03	60
Area 1, Segment 1	a20w2	31.9724	-113.1214	0.03	60
Area 1, Segment 1	a20w1	31.9718	-113.1193	0.03	60
Area 1, Segment 1	a20	31.9714	-113.1181	0.03	100
Area 1, Segment 1	a20a	31.9713	-113.1179	0.02	60
Area 1, Segment 1	a21	31.9711	-113.1170	0.02	60

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 1, Segment 1	a22w4	31.9708	-113.1162	0.02	60
Area 1, Segment 1	a22w3	31.9704	-113.1149	0.02	60
Area 1, Segment 1	a22w2	31.9699	-113.1134	0.02	60
Area 1, Segment 1	a22w1	31.9697	-113.1124	0.02	60
Area 1, Segment 1	a22a	31.9691	-113.1104	0.03	60
Area 1, Segment 1	a22	31.9689	-113.1100	0.02	60
Area 1, Segment 1	a23w2	31.9684	-113.1083	0.04	60
Area 1, Segment 1	a23w1	31.9679	-113.1066	0.02	60
Area 1, Segment 1	a23	31.9673	-113.1045	0.07	60
Area 1, Segment 1	a24w2	31.9664	-113.1016	0.02	60
Area 1, Segment 1	a24w1	31.9661	-113.1007	0.02	60
Area 1, Segment 1	a24	31.9650	-113.0970	0.08	127
Area 1, Segment 1	a25	31.9640	-113.0939	0.04	135
Area 1, Segment 1	a26w1	31.9629	-113.0901	0.01	60
Area 1, Segment 1	a26	31.9628	-113.0899	0.01	60
Area 1, Segment 1	a27w1	31.9618	-113.0864	0.06	60
Area 1, Segment 1	a27	31.9616	-113.0856	0.05	60
Area 1, Segment 1	a28	31.9609	-113.0834	0.01	60
Area 1, Segment 1	a29	31.9606	-113.0825	0.09	60
Area 1, Segment 1	a30	31.9582	-113.0746	0.03	60
Area 1, Segment 1	a31w4	31.9575	-113.0721	0.01	60
Area 1, Segment 1	a31w3	31.9569	-113.0702	0.02	123
Area 1, Segment 1	a31w2	31.9567	-113.0695	0.01	60
Area 1, Segment 1	a31w1	31.9562	-113.0679	0.01	60
Area 1, Segment 1	a31	31.9557	-113.0661	0.08	60
Area 1, Segment 1	a32w1	31.9552	-113.0645	0.03	60
Area 1, Segment 1	a32	31.9547	-113.0631	0.08	60
Area 1, Segment 1	a34b	31.9539	-113.0603	0.02	60
Area 1, Segment 1	a34	31.9538	-113.0598	0.02	60
Area 1, Segment 1	a35w3	31.9523	-113.0552	0.02	60
Area 1, Segment 1	a35w2a	31.9513	-113.0519	0.14	595
Area 1, Segment 1	a35w2	31.9510	-113.0508	0.04	60
Area 1, Segment 1	a35w1	31.9499	-113.0471	0.01	60
Area 1, Segment 1	a35	31.9496	-113.0461	0.04	60
Area 1, Segment 1	b1w7	31.9475	-113.0391	0.05	60
Area 1, Segment 1	b1w6	31.9472	-113.0380	0.02	60
Area 1, Segment 1	b1w5	31.9448	-113.0304	0.09	60
Area 1, Segment 1	b1w4	31.9443	-113.0288	0.04	60
Area 1, Segment 1	b1w3	31.9434	-113.0257	0.02	60
Area 1, Segment 1	b1w2b	31.9427	-113.0233	0.18	60

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 1, Segment 1	b1w2a	31.9409	-113.0172	0.01	60
Area 1, Segment 1	b1w2	31.9407	-113.0166	0.02	60
Area 1, Segment 1	b1w1	31.9402	-113.0149	0.06	60
Area 1, Segment 1	b1d	31.9397	-113.0133	0.01	60
Area 1, Segment 1	b1c	31.9395	-113.0127	0.03	60
Area 1, Segment 1	b1b	31.9393	-113.0123	0.04	60
Area 1, Segment 1	b1a	31.9392	-113.0117	0.12	335
Area 1, Segment 1	b2w1	31.9386	-113.0097	0.06	60
Area 1, Segment 1	b2	31.9379	-113.0075	0.03	60
Area 1, Segment 1	b3w11c	31.9374	-113.0060	0.03	60
Area 1, Segment 1	b3w11b	31.9374	-113.0057	0.02	60
Area 1, Segment 1	b3w11a	31.9372	-113.0053	0.05	60
Area 1, Segment 1	b3w10	31.9367	-113.0036	0.02	60
Area 1, Segment 1	b3w9	31.9352	-112.9987	0.03	60
Area 1, Segment 1	b3w8	31.9349	-112.9976	0.01	60
Area 1, Segment 1	b3w7	31.9339	-112.9943	0.00	60
Area 1, Segment 1	b3w7	31.9339	-112.9941	0.15	381
Area 1, Segment 1	b3w6	31.9330	-112.9916	0.46	1155
Area 1, Segment 1	b3w6	31.9325	-112.9895	0.03	60
Area 1, Segment 1	b3w5	31.9322	-112.9887	0.02	60
Area 1, Segment 1	b3w4	31.9321	-112.9883	0.08	60
Area 1, Segment 1	b3w3a	31.9316	-112.9868	0.07	329
Area 1, Segment 1	b3w3	31.9314	-112.9861	0.06	60
Area 1, Segment 1	b3w2	31.9298	-112.9807	0.04	60
Area 1, Segment 1	b3w1	31.9290	-112.9780	0.03	60
Area 1, Segment 1	b3	31.9288	-112.9773	0.02	60
Area 1, Segment 1	b4w3	31.9259	-112.9680	0.07	60
Area 1, Segment 1	b4w2	31.9250	-112.9648	0.01	60
Area 1, Segment 1	b4w1	31.9231	-112.9587	0.06	60
Area 1, Segment 1	b4	31.9227	-112.9573	0.04	60
Area 1, Segment 1	b5w6	31.9204	-112.9499	0.03	60
Area 1, Segment 1	b5w5	31.9200	-112.9486	0.04	60
Area 1, Segment 1	b5w4	31.9192	-112.9457	0.05	60
Area 1, Segment 1	b5w3	31.9188	-112.9444	0.06	60
Area 1, Segment 1	b5w2	31.9182	-112.9424	0.05	60
Area 1, Segment 1	b5w1	31.9177	-112.9409	0.02	60
Area 1, Segment 1	b5	31.9172	-112.9394	0.02	60
Area 1, Segment 1	b6w3a	31.9163	-112.9363	0.01	60
Area 1, Segment 1	b6w3	31.9158	-112.9345	0.02	60
Area 1, Segment 1	b6w2	31.9152	-112.9328	0.01	60

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 1, Segment 1	b6w1	31.9147	-112.9312	0.03	161
Area 1, Segment 1	b6	31.9145	-112.9303	0.02	60
Area 1, Segment 1	b7w2	31.9143	-112.9296	0.02	60
Area 1, Segment 1	b7w1	31.9138	-112.9282	0.02	60
Area 1, Segment 1	b7w1a	31.9136	-112.9274	0.02	60
Area 1, Segment 1	b7	31.9131	-112.9258	0.04	60
Area 1, Segment 1	b8w3	31.9123	-112.9230	0.02	60
Area 1, Segment 1	b8w2	31.9117	-112.9213	0.07	127
Area 1, Segment 1	b8w1	31.9109	-112.9185	0.06	60
Area 1, Segment 1	b8	31.9106	-112.9177	0.02	60
Area 1, Segment 1	b9w17	31.9100	-112.9156	0.04	60
Area 1, Segment 1	b9w16	31.9092	-112.9128	0.01	60
Area 1, Segment 1	b9w15	31.9088	-112.9117	0.01	60
Area 1, Segment 1	b9w14	31.9085	-112.9108	0.02	60
Area 1, Segment 1	b9w13	31.9079	-112.9087	0.02	60
Area 1, Segment 1	b9w12	31.9075	-112.9073	0.01	60
Area 1, Segment 1	b9w11	31.9069	-112.9053	0.02	60
Area 1, Segment 1	b9w10	31.9064	-112.9039	0.01	60
Area 1, Segment 1	b9w9	31.9061	-112.9027	0.01	60
Area 1, Segment 1	b9w8	31.9056	-112.9013	0.01	60
Area 1, Segment 1	b9w7	31.9052	-112.8999	0.01	60
Area 1, Segment 1	b9w6	31.9051	-112.8993	0.01	60
Area 1, Segment 1	b9w5b	31.9046	-112.8977	0.02	60
Area 1, Segment 1	b9w5a	31.9045	-112.8975	0.01	60
Area 1, Segment 1	b9w4	31.9037	-112.8949	0.03	60
Area 1, Segment 1	b9w3	31.9035	-112.8943	0.04	60
Area 1, Segment 1	b9w2	31.9034	-112.8937	0.01	60
Area 1, Segment 1	b9w1	31.9030	-112.8926	0.02	60
Area 1, Segment 1	b9	31.9028	-112.8919	0.02	60
Area 1, Segment 1	b10w12	31.9022	-112.8900	0.02	60
Area 1, Segment 1	b10w11	31.9019	-112.8891	0.01	60
Area 1, Segment 1	b10w10	31.9016	-112.8881	0.01	60
Area 1, Segment 1	b10w9	31.9015	-112.8876	0.03	60
Area 1, Segment 1	b10w8	31.9012	-112.8867	0.01	60
Area 1, Segment 1	b10w7b	31.9004	-112.8841	0.04	60
Area 1, Segment 1	b10w7	31.9003	-112.8839	0.03	60
Area 1, Segment 1	b10w6	31.9001	-112.8830	0.01	60
Area 1, Segment 1	b10w5	31.8996	-112.8814	0.01	60
Area 1, Segment 1	b10w4	31.8987	-112.8786	0.02	60
Area 1, Segment 1	b10w3	31.8980	-112.8760	0.02	60



<b>Project Area</b>	<b>Site</b>	<b>Latitude (dec deg)</b>	<b>Longitude (dec deg)</b>	<b>Acreage</b>	<b>Linear Length (ft)</b>
Area 1, Segment 1	b10w2	31.8976	-112.8747	0.01	60
Area 1, Segment 1	b10w1	31.8974	-112.8741	0.02	60
Area 1, Segment 1	b10	31.8967	-112.8718	0.01	60
Area 1, Segment 1	b10a	31.8966	-112.8716	0.02	60
Area 1, Segment 1	b11w1	31.8965	-112.8711	0.02	60
Area 1, Segment 1	b11	31.8961	-112.8700	0.03	60
Area 1, Segment 1	b12	31.8949	-112.8661	0.06	60
Area 1, Segment 1	b13w8	31.8943	-112.8639	0.01	60
Area 1, Segment 1	b13w7	31.8938	-112.8622	0.02	60
Area 1, Segment 1	b13w6	31.8929	-112.8595	0.03	60
Area 1, Segment 1	b13w5	31.8928	-112.8590	0.02	60
Area 1, Segment 1	b13w4	31.8920	-112.8563	0.03	60
Area 1, Segment 1	b13w3	31.8915	-112.8548	0.01	60
Area 1, Segment 1	b13w2	31.8909	-112.8529	0.03	60
<b>Totals</b>				<b>7.92</b>	<b>19,310</b>

**Table 2. Project Area 2****Total Acreage within OHWM: 1.0 acres**

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 2	b13w1	31.8867	-112.8389	0.02	60
Area 2	b13	31.8855	-112.8350	0.04	60
Area 2	b14	31.8844	-112.8315	0.07	60
Area 2	b15w4	31.8834	-112.8282	0.03	60
Area 2	b15w3	31.8828	-112.8264	0.03	60
Area 2	b15w2	31.8826	-112.8256	0.04	60
Area 2	b15w1	31.8812	-112.8211	0.04	60
Area 2	b15	31.8804	-112.8184	0.04	60
Area 2	b15e1	31.8787	-112.8128	0.04	60
Area 2	b15e2	31.8785	-112.8121	0.03	60
Area 2	b16	31.8773	-112.8081	0.05	60
Area 2	b16e1	31.8759	-112.8035	0.03	60
Area 2	b17	31.8734	-112.7956	0.09	60
Area 2	b17e1	31.8732	-112.7947	0.05	60
Area 2	b18	31.8714	-112.7889	0.07	60
Area 2	b18e1	31.8704	-112.7855	0.02	60
Area 2	b18e2	31.8701	-112.7847	0.03	60
Area 2	b18e3	31.8695	-112.7828	0.02	60
Area 2	b18e4	31.8692	-112.7818	0.02	60
Area 2	b18e5	31.8690	-112.7810	0.02	60
Area 2	b18e6	31.8687	-112.7801	0.02	60
Area 2	b18e7	31.8685	-112.7794	0.03	60
Area 2	b18e8	31.8679	-112.7774	0.11	215
Area 2	b19	31.8674	-112.7759	0.05	60
<b>Totals</b>				<b>1.00</b>	<b>1,595</b>

**Table 3. Project Area 1, Segment 2****Total Acreage within OHWM: 1.97 acres**

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 1, Segment 2	c0e1	31.8646	-112.7668	0.02	60
Area 1, Segment 2	c0e2	31.8640	-112.7648	0.05	160
Area 1, Segment 2	c0e3	31.8637	-112.7637	0.02	60
Area 1, Segment 2	c0e4	31.8620	-112.7583	0.06	60
Area 1, Segment 2	c0e5	31.8612	-112.7557	0.04	60
Area 1, Segment 2	c1	31.8595	-112.7501	0.07	60
Area 1, Segment 2	c1e1	31.8590	-112.7483	0.02	60
Area 1, Segment 2	c2	31.8568	-112.7411	0.04	60
Area 1, Segment 2	c2e1	31.8556	-112.7372	0.04	60
Area 1, Segment 2	c2e2	31.8545	-112.7337	0.04	60
Area 1, Segment 2	c2e3	31.8538	-112.7313	0.03	60
Area 1, Segment 2	c2e4	31.8534	-112.7301	0.04	60
Area 1, Segment 2	c2e5	31.8531	-112.7293	0.01	60
Area 1, Segment 2	c2e6	31.8529	-112.7285	0.02	80
Area 1, Segment 2	c3	31.8520	-112.7255	0.07	60
Area 1, Segment 2	c3e1	31.8516	-112.7243	0.03	60
Area 1, Segment 2	c3e2	31.8510	-112.7223	0.03	60
Area 1, Segment 2	c3e3	31.8504	-112.7204	0.03	60
Area 1, Segment 2	c4	31.8499	-112.7187	0.04	60
Area 1, Segment 2	c4e1	31.8493	-112.7166	0.02	90
Area 1, Segment 2	c4e2	31.8485	-112.7143	0.02	60
Area 1, Segment 2	c4e3	31.8472	-112.7097	0.02	60
Area 1, Segment 2	c4e4	31.8466	-112.7081	0.04	60
Area 1, Segment 2	c4e5	31.8460	-112.7060	0.02	60
Area 1, Segment 2	c4e6	31.8450	-112.7026	0.03	60
Area 1, Segment 2	c4e7	31.8443	-112.7006	0.04	60
Area 1, Segment 2	c4e8	31.8437	-112.6985	0.02	60
Area 1, Segment 2	c4e9	31.8427	-112.6953	0.01	60
Area 1, Segment 2	c4e10	31.8425	-112.6947	0.06	60
Area 1, Segment 2	c4e11	31.8416	-112.6916	0.03	60
Area 1, Segment 2	c4e12	31.8405	-112.6882	0.04	60
Area 1, Segment 2	c4e13	31.8400	-112.6865	0.06	60
Area 1, Segment 2	c4e14	31.8391	-112.6833	0.04	60
Area 1, Segment 2	c5	31.8379	-112.6792	0.18	261
Area 1, Segment 2	c5a	31.8377	-112.6787	0.05	60
Area 1, Segment 2	c5e1	31.8375	-112.6779	0.04	60
Area 1, Segment 2	c5e2	31.8365	-112.6750	0.03	60

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 1, Segment 2	c5e2a	31.8364	-112.6746	0.05	60
Area 1, Segment 2	c5e3	31.8360	-112.6733	0.01	60
Area 1, Segment 2	c5e4	31.8353	-112.6710	0.01	60
Area 1, Segment 2	c6	31.8343	-112.6677	0.07	198
Area 1, Segment 2	c6e1	31.8340	-112.6670	0.01	60
Area 1, Segment 2	c6e2	31.8336	-112.6655	0.01	60
Area 1, Segment 2	c6e3	31.8326	-112.6622	0.01	60
Area 1, Segment 2	c6e4	31.8322	-112.6608	0.02	60
Area 1, Segment 2	c6e5	31.8320	-112.6603	0.04	85
Area 1, Segment 2	c6e6	31.8313	-112.6582	0.05	60
Area 1, Segment 2	c7a	31.8305	-112.6553	0.04	60
Area 1, Segment 2	c7b	31.8304	-112.6550	0.02	60
Area 1, Segment 2	c7c	31.8303	-112.6548	0.01	60
Area 1, Segment 2	c7e1	31.8293	-112.6514	0.03	60
Area 1, Segment 2	c7e2	31.8283	-112.6481	0.04	60
Area 1, Segment 2	c7e3	31.8279	-112.6469	0.01	60
Area 1, Segment 2	c7e4	31.8275	-112.6455	0.03	60
Area 1, Segment 2	c7e5	31.8274	-112.6452	0.06	60
Area 1, Segment 2	c7e6	31.8263	-112.6419	0.03	60
<b>Totals</b>				<b>1.97</b>	<b>3,874</b>

**Table 4. Project Area 3. Segment 1****Total Acreage within OHWM: 0.03 acres**

<b>Project Area</b>	<b>Site</b>	<b>Latitude (dec deg)</b>	<b>Longitude (dec deg)</b>	<b>Acreage</b>	<b>Linear Length (ft)</b>
<b>Area 3, Segment 1</b>	a1	31.3338	-110.254	0.01	60
<b>Area 3, Segment 1</b>	a2	31.3339	-110.251	0.02	60
<b>Totals</b>				<b>0.03</b>	<b>120</b>

**Table 5. Project Area 3, Segment 2****Total Acreage within OHWM: 0.06 acres**

<b>Project Area</b>	<b>Site</b>	<b>Latitude (dec deg)</b>	<b>Longitude (dec deg)</b>	<b>Acreage</b>	<b>Linear Length (ft)</b>
<b>Area 3, Segment 2</b>	b1	31.3342	-110.148	0.06	0
<b>Totals</b>				<b>0.06</b>	<b>0</b>

**Table 6. Project Area 3, Segment 3****Total Acreage within OHWM: 3.43 acres**

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 3, Segment 3	C1	31.3341	-109.449	0.02	60
Area 3, Segment 3	C1A	31.3341	-109.449	0.02	60
Area 3, Segment 3	A2	31.3341	-109.443	0.02	60
Area 3, Segment 3	A2B	31.3341	-109.44	0.03	60
Area 3, Segment 3	A3	31.3341	-109.435	0.10	439
Area 3, Segment 3	A3A	31.3341	-109.434	0.02	60
Area 3, Segment 3	A3B	31.3341	-109.434	0.03	60
Area 3, Segment 3	A4	31.3341	-109.43	0.01	60
Area 3, Segment 3	A5	31.3341	-109.429	0.02	124
Area 3, Segment 3	A6	31.3341	-109.425	0.01	60
Area 3, Segment 3	A7	31.3341	-109.421	0.02	60
Area 3, Segment 3	A8	31.3341	-109.42	0.03	200
Area 3, Segment 3	A9	31.3341	-109.418	0.02	60
Area 3, Segment 3	A10A	31.3341	-109.41	0.01	60
Area 3, Segment 3	A10B	31.3341	-109.41	0.01	60
Area 3, Segment 3	A10C	31.3341	-109.409	0.01	60
Area 3, Segment 3	A11	31.3341	-109.406	0.01	60
Area 3, Segment 3	C12	31.3341	-109.404	0.01	60
Area 3, Segment 3	A13	31.3341	-109.395	0.01	60
Area 3, Segment 3	C14	31.3341	-109.391	0.02	120
Area 3, Segment 3	C15	31.3341	-109.382	0.02	60
Area 3, Segment 3	C16	31.3341	-109.378	0.05	266
Area 3, Segment 3	C17	31.3341	-109.376	0.02	60
Area 3, Segment 3	C18	31.3341	-109.374	0.06	60
Area 3, Segment 3	D1	31.3341	-109.363	0.02	132
Area 3, Segment 3	D2	31.3341	-109.344	0.09	1015
Area 3, Segment 3	D2A	31.3341	-109.341	0.16	570
Area 3, Segment 3	D3	31.3341	-109.338	0.04	164
Area 3, Segment 3	D4	31.3341	-109.329	0.04	370
Area 3, Segment 3	D4A	31.3341	-109.326	0.07	262
Area 3, Segment 3	D5	31.3341	-109.324	0.02	60
Area 3, Segment 3	D6	31.3341	-109.322	0.02	129
Area 3, Segment 3	D7	31.3341	-109.317	0.05	292
Area 3, Segment 3	D8	31.3341	-109.313	0.01	101
Area 3, Segment 3	D9	31.3340	-109.306	0.16	628
Area 3, Segment 3	D10	31.3341	-109.303	0.05	150
Area 3, Segment 3	D11	31.3341	-109.3	0.12	60

Project Area	Site	Latitude (dec deg)	Longitude (dec deg)	Acreage	Linear Length (ft)
Area 3, Segment 3	D12	31.3341	-109.282	0.04	214
Area 3, Segment 3	D14	31.3340	-109.274	0.06	92
Area 3, Segment 3	E1	31.3340	-109.269	0.07	60
Area 3, Segment 3	E2	31.3340	-109.26	0.05	60
Area 3, Segment 3	E3	31.3339	-109.253	0.04	60
Area 3, Segment 3	E4	31.3338	-109.245	0.03	60
Area 3, Segment 3	E5	31.3338	-109.238	0.04	109
Area 3, Segment 3	E6	31.3338	-109.237	0.02	102
Area 3, Segment 3	E7	31.3337	-109.226	0.04	785
Area 3, Segment 3	E7a & b	31.3337	-109.221	0.26	1362
Area 3, Segment 3	E8	31.3337	-109.221	included in E7a&b	
Area 3, Segment 3	E8a	31.3336	-109.215	0.02	94
Area 3, Segment 3	E9	31.3336	-109.212	0.02	60
Area 3, Segment 3	E10	31.3335	-109.208	0.02	60
Area 3, Segment 3	E11	31.3335	-109.204	0.01	96
Area 3, Segment 3	E12	31.3335	-109.201	0.04	81
Area 3, Segment 3	E13	31.3334	-109.197	0.04	60
Area 3, Segment 3	E14	31.3334	-109.194	0.03	90
Area 3, Segment 3	E15	31.3334	-109.19	0.07	277
Area 3, Segment 3	E16	31.3334	-109.187	0.01	60
Area 3, Segment 3	e17	31.3333	-109.183	0.40	1544
Area 3, Segment 3	e18	31.3333	-109.178	0.03	60
Area 3, Segment 3	e19	31.3332	-109.174	0.03	60
Area 3, Segment 3	e20	31.3332	-109.172	0.02	88
Area 3, Segment 3	e21	31.3332	-109.17	0.02	60
Area 3, Segment 3	e22	31.3332	-109.166	0.01	60
Area 3, Segment 3	e23	31.3332	-109.166	0.02	60
Area 3, Segment 3	e24	31.3331	-109.16	0.04	130
Area 3, Segment 3	e25	31.3331	-109.157	0.03	60
Area 3, Segment 3	e26	31.3331	-109.153	0.07	60
Area 3, Segment 3	e27	31.3329	-109.138	0.21	60
Area 3, Segment 3	e28	31.3329	-109.134	0.09	60
Area 3, Segment 3	e29	31.3329	-109.132	0.11	60
<b>Totals</b>				<b>3.43</b>	<b>12366</b>

## **APPENDIX B**

### **Individual Site Photos and Locations Project Areas 1 & 2**

#### **Photo Point Key:**

**us - upstream**

**ds - downstream**

**These refer to the direction the photo is taken, i.e. “a1w1 ds” is a photo taken at site a1w1 looking downstream.**



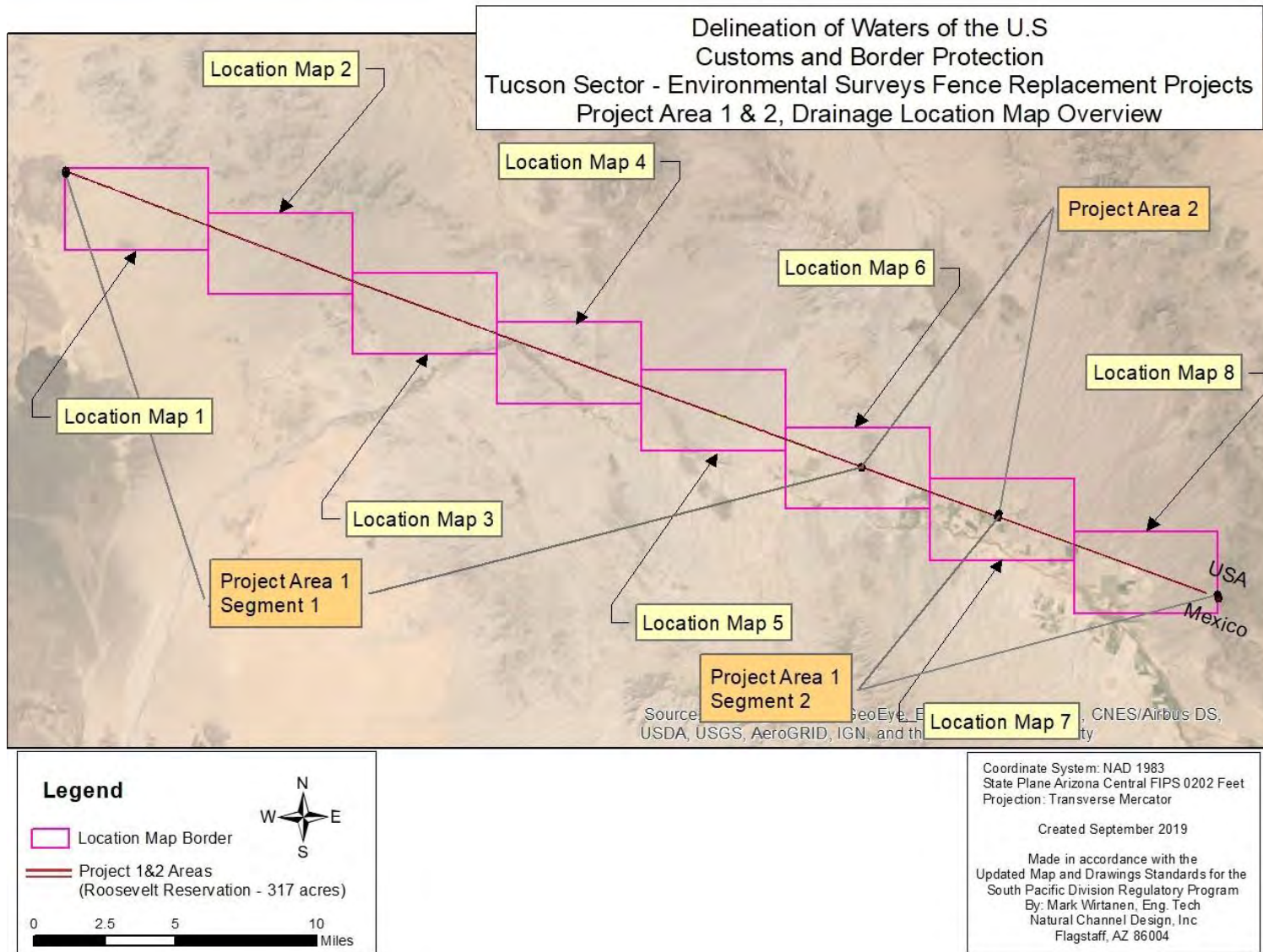


Figure 1. Project areas 1 and 2 overview map

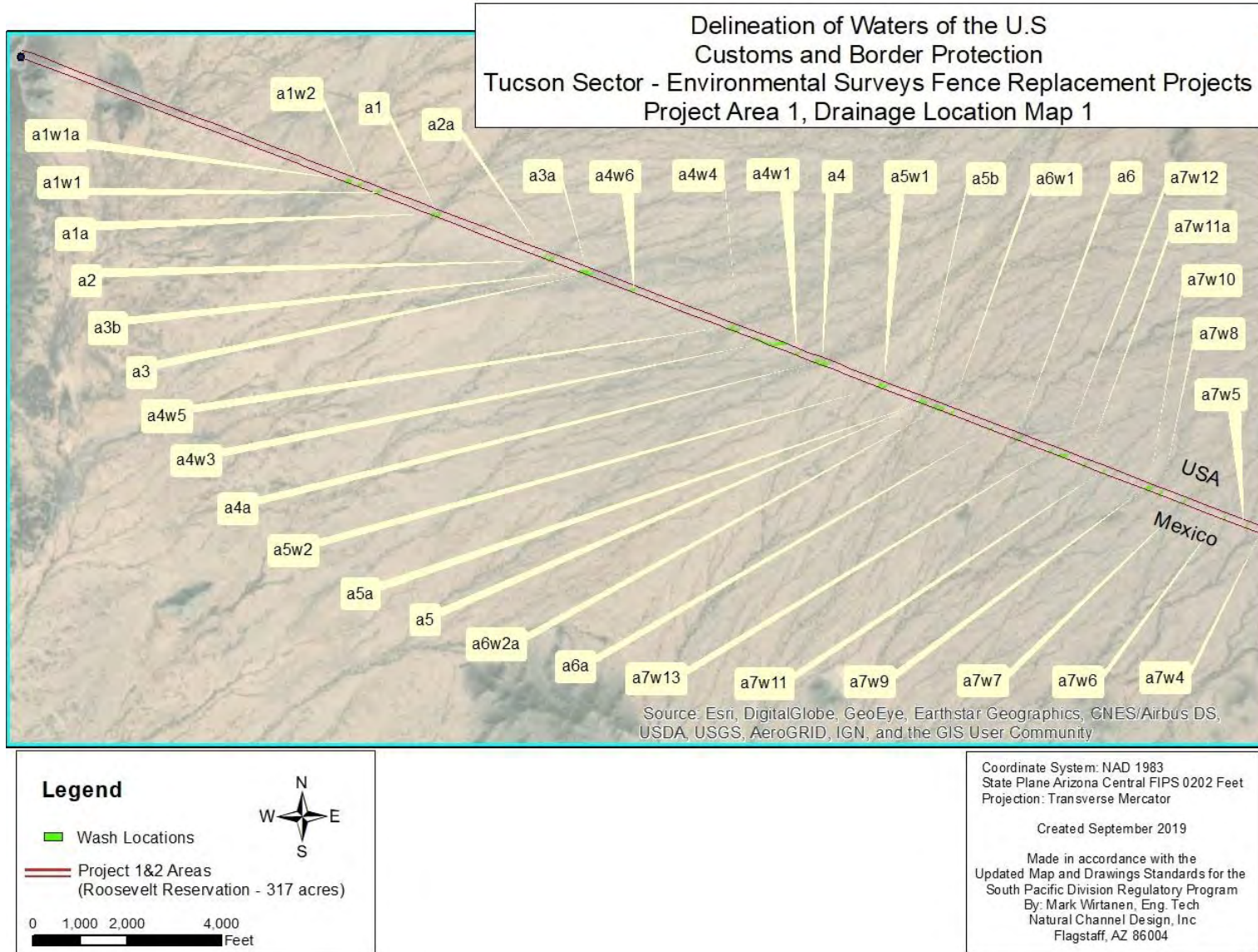


Figure 2. Project area 1, location map 1

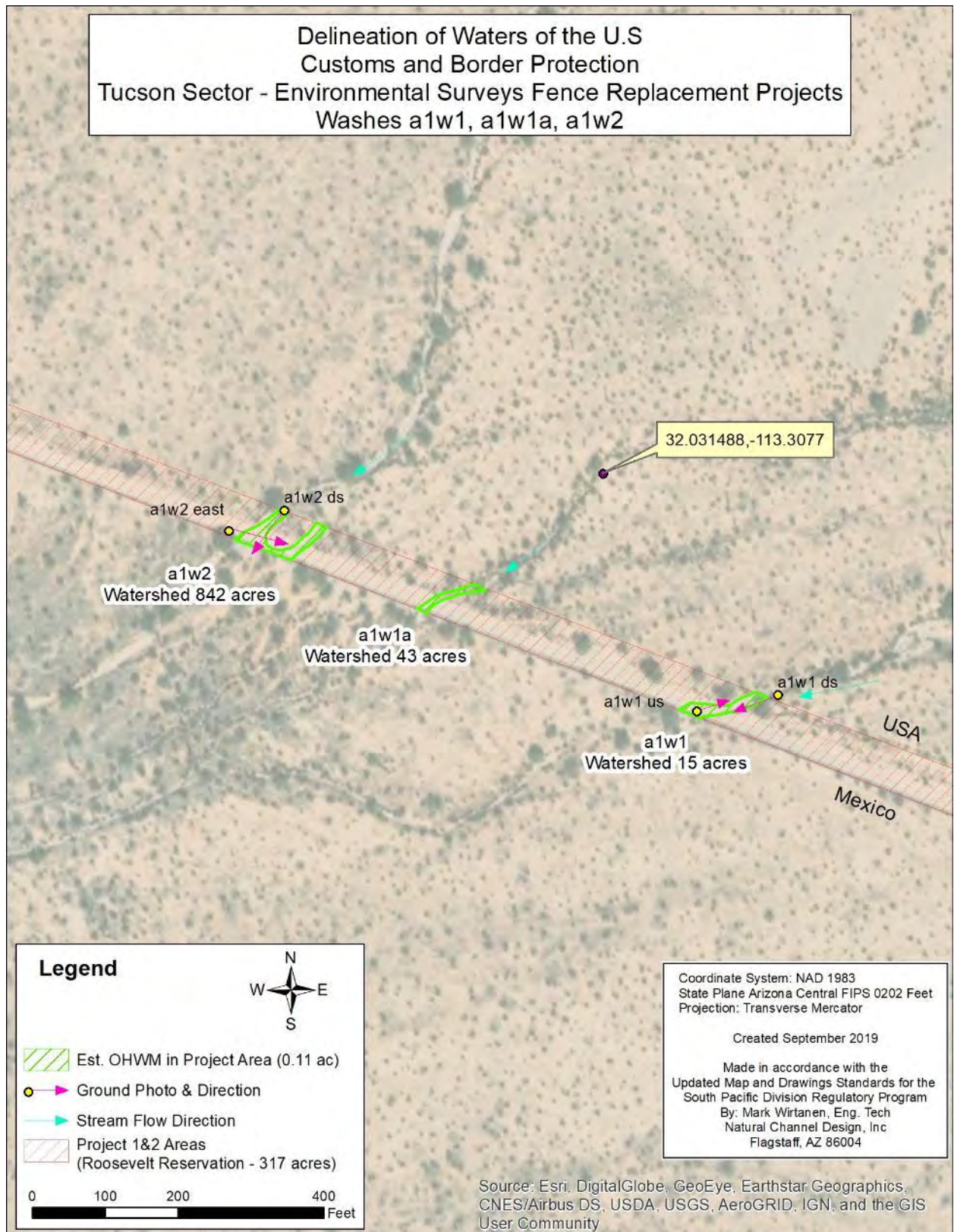


Figure 3. Aerial view of washes a1w1, a1w1a and a1w2 with photo points.



**Figure 4. Photo point a1w2 looking east.**



**Figure 5. Photo point a1w2 looking downstream.**



**Figure 6. Photo point a1w1 looking upstream.**



**Figure 7. Photo point a1w1 looking downstream.**

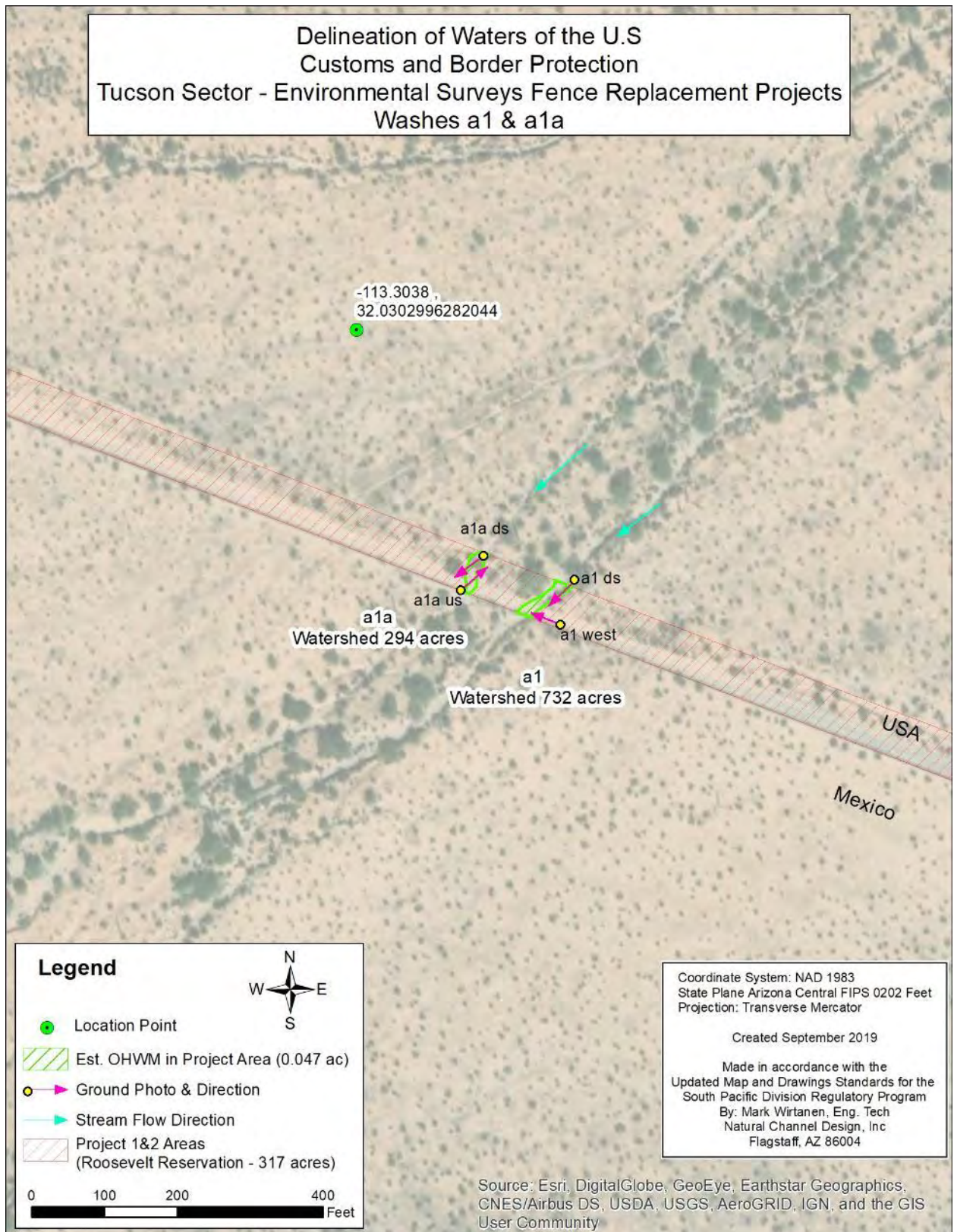


Figure 8. Aerial view of washes a1 and a1a with photo points.



**Figure 9. Photo point a1 looking west.**



**Figure 10. Photo point a1 looking downstream.**



**Figure 11. Photo point a1a looking upstream.**



**Figure 12. Photo point a1a looking downstream.**



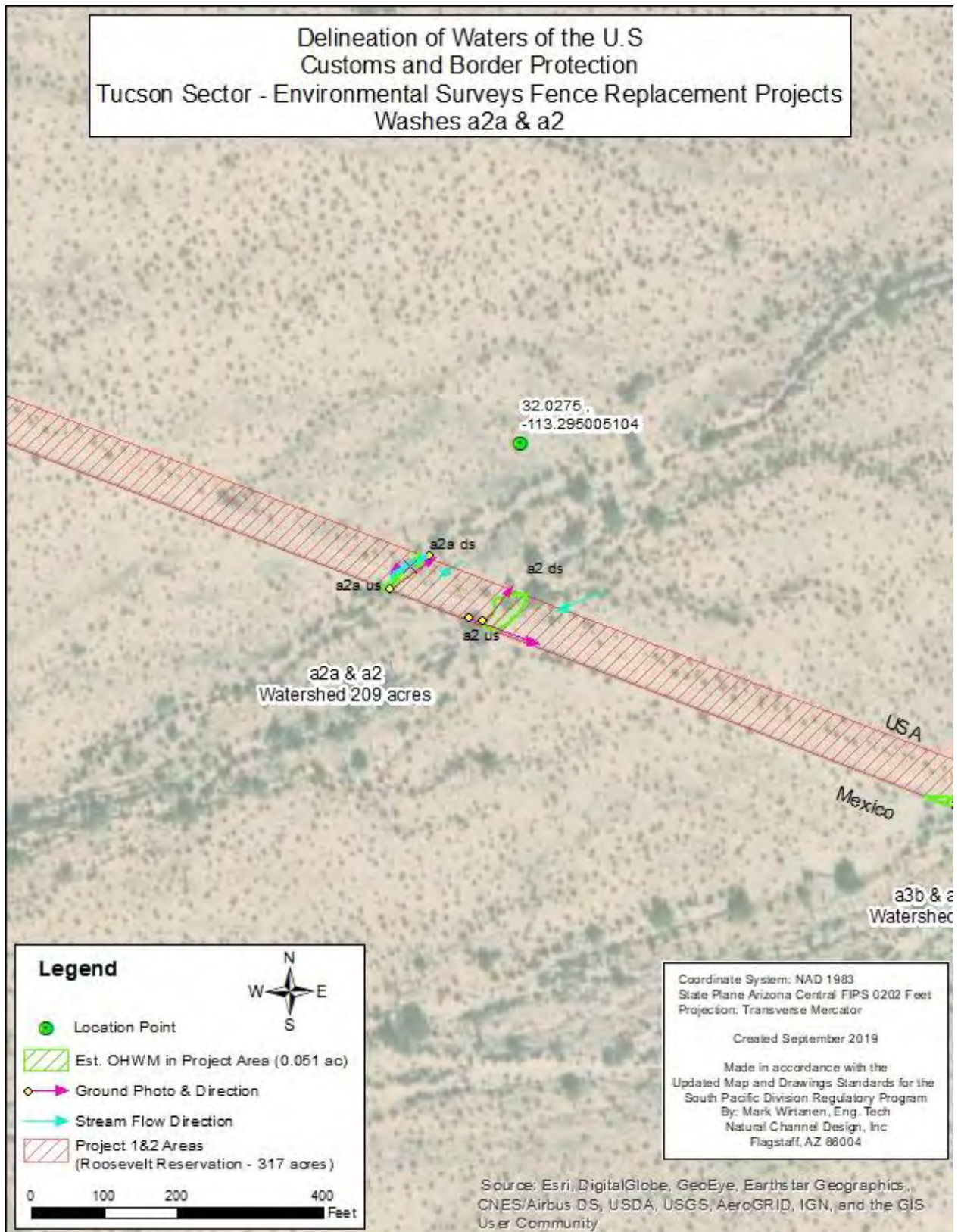


Figure 13. Aerial view of washes a2a and a2 with photo points.



**Figure 14. Photo point a2a looking downstream**



**Figure 15. Photo point a2a looking upstream**



**Figure 16. Photo point a2 looking east**



**Figure 17. Photo point a2 looking upstream**



Figure 18. Aerial view of washes a3b and a3a and of a3 with photo points.



**Figure 19. Photo point a3 looking downstream**



**Figure 20. Photo point a3 looking upstream**

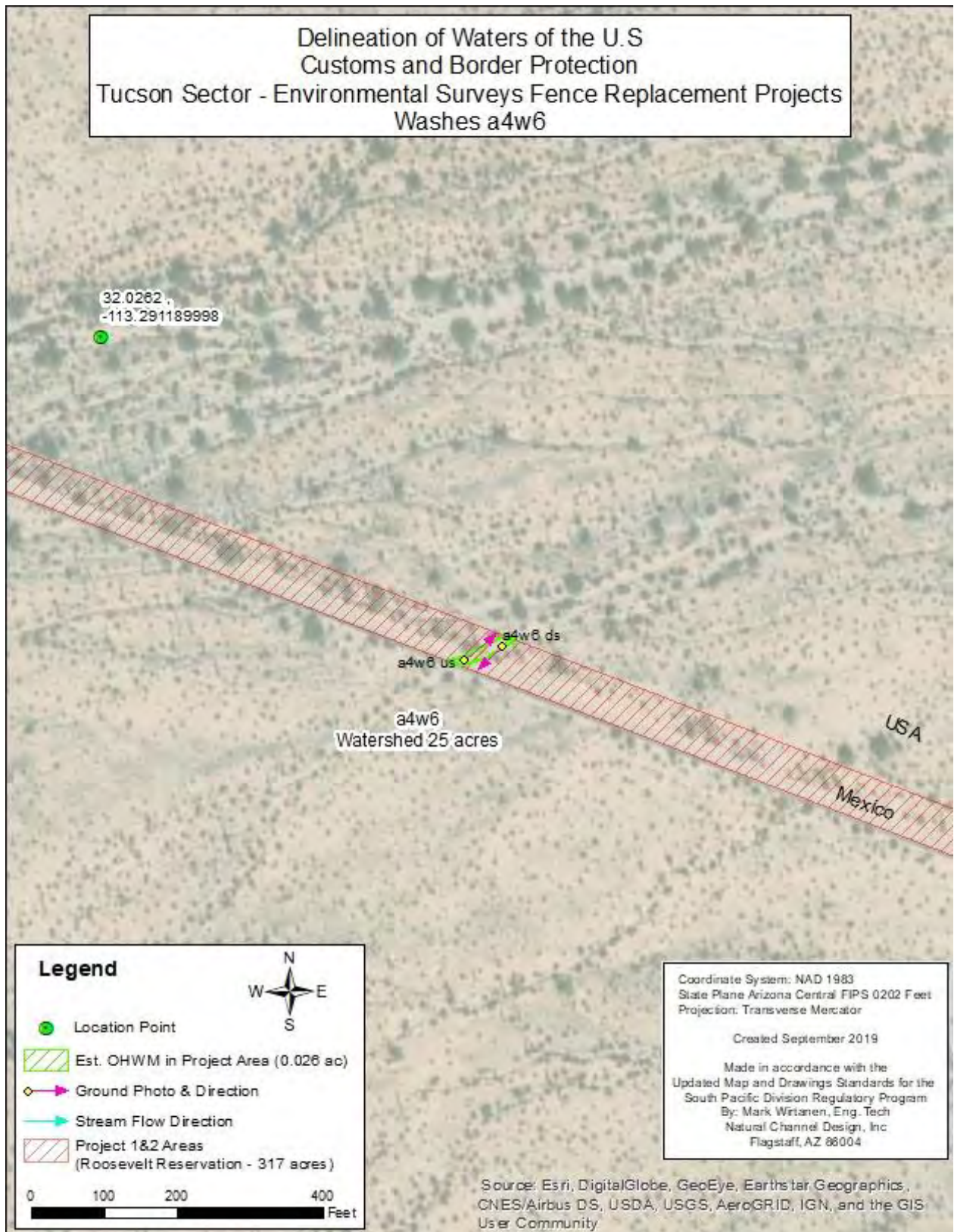


Figure 21. Aerial view of washes a3b and a3a and a3 with photo points.



**Figure 22. Photo point a4w6 looking downstream**



**Figure 23. Photo point a4w6 looking upstream**



Figure 24. Aerial view of washes a4w5 and a4w4 and a4w3 with photo points.





**Figure 25. Photo point a4w5 looking upstream**



**Figure 26. Photo point a4w5 looking downstream**



**Figure 27. Photo point a4w4 looking upstream**



**Figure 28. Photo point a4w4 looking downstream**



Figure 29. Photo point a4w3 looking east



Figure 30. Photo point a4w3 looking downstream

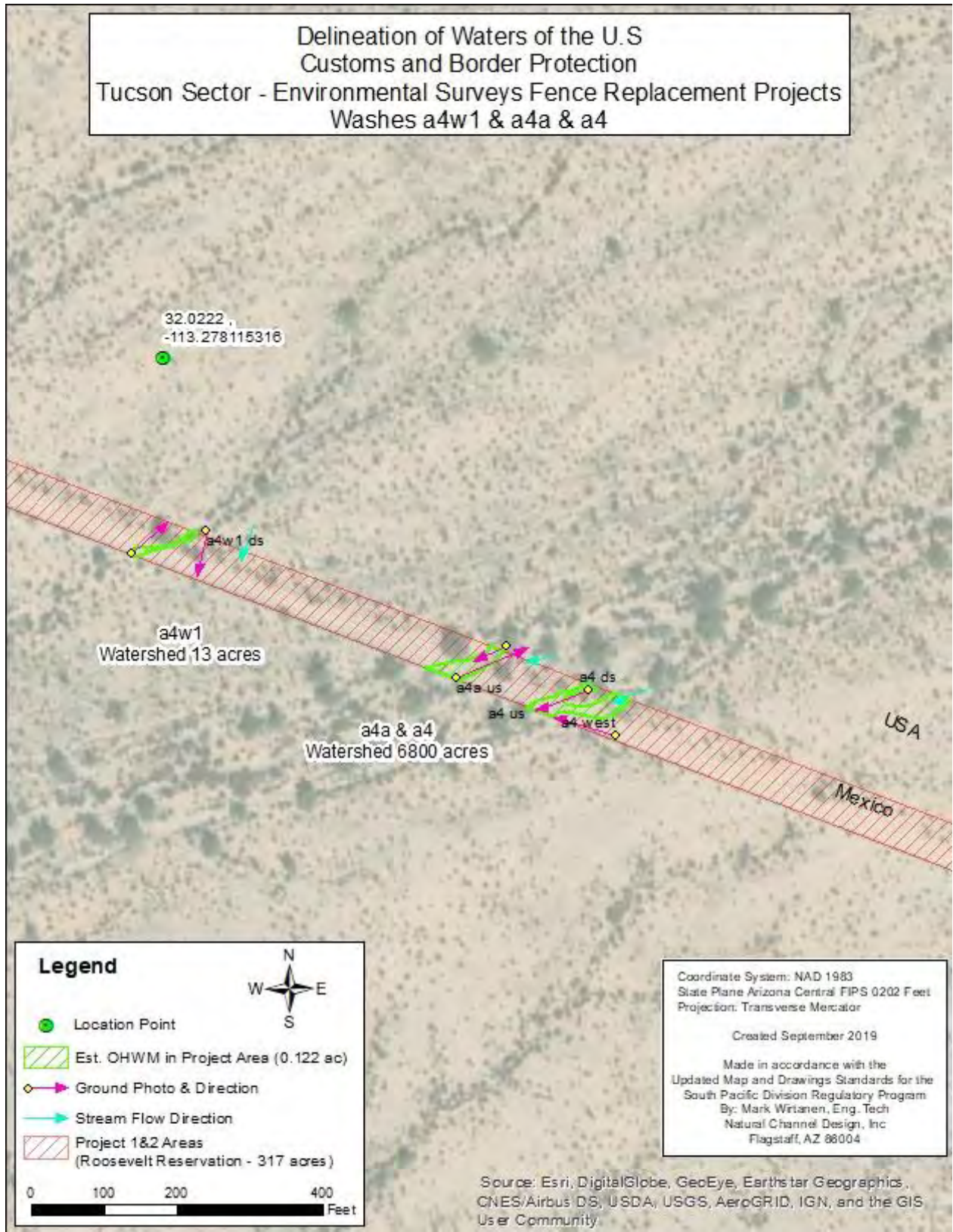


Figure 31. Aerial view of washes a4w1 and a4a and a4 with photo points.



**Figure 32. Photo point a4w1 looking upstream**



**Figure 33. Photo point a4w1 looking downstream**



**Figure 34. Photo point a4a looking upstream**



**Figure 35. Photo point a4a looking downstream**



**Figure 36. Photo point a4 looking downstream**



**Figure 37. Photo point a4 looking west**

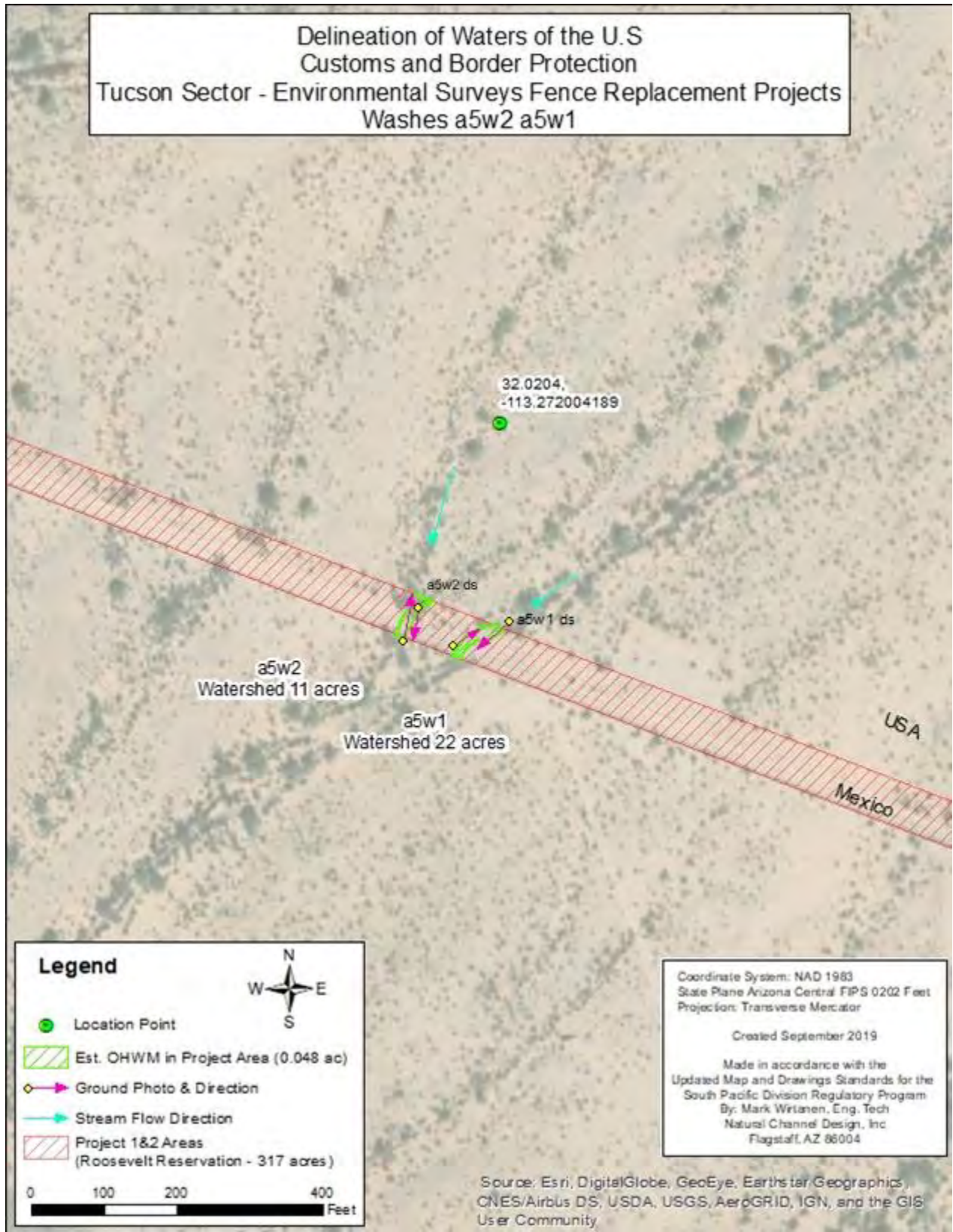


Figure 38. Aerial view of washes a5w2 and a5w1 with photo points.





**Figure 39. Photo point a5w2 looking upstream**



**Figure 40. Photo point a5w2 looking downstream**



**Figure 41. Photo point a5w1 looking upstream**



**Figure 42. Photo point a5w1 looking downstream**

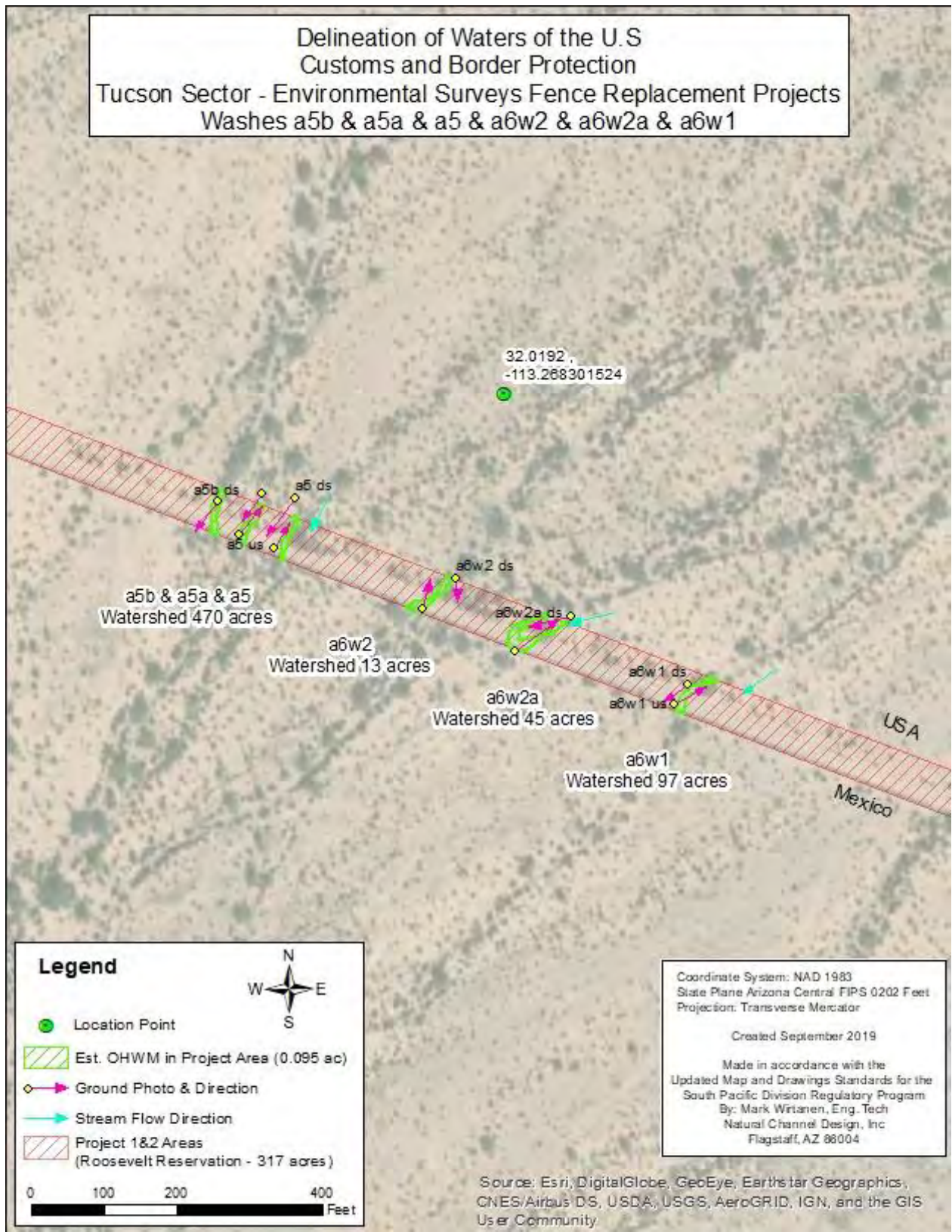


Figure 43. Aerial view of washes a5b, a5a, a5, a6w2, a6w2a, and a6w1 with photo points.



**Figure 44. Photo point a5b looking downstream**



**Figure 45. Photo point a5a looking upstream**



**Figure 46. Photo point a5a looking downstream**



**Figure 47. Photo point a5 looking upstream**



**Figure 48. Photo point a5 looking downstream**



**Figure 49. Photo point a6w2 looking upstream**



**Figure 50. Photo point a6w2 looking downstream**



**Figure 51. Photo point a6w2a looking upstream**



**Figure 52. Photo point a6w2a looking downstream**



**Figure 53. Photo point a6w1 looking upstream**





**Figure 54. Photo point a6w1 looking downstream**

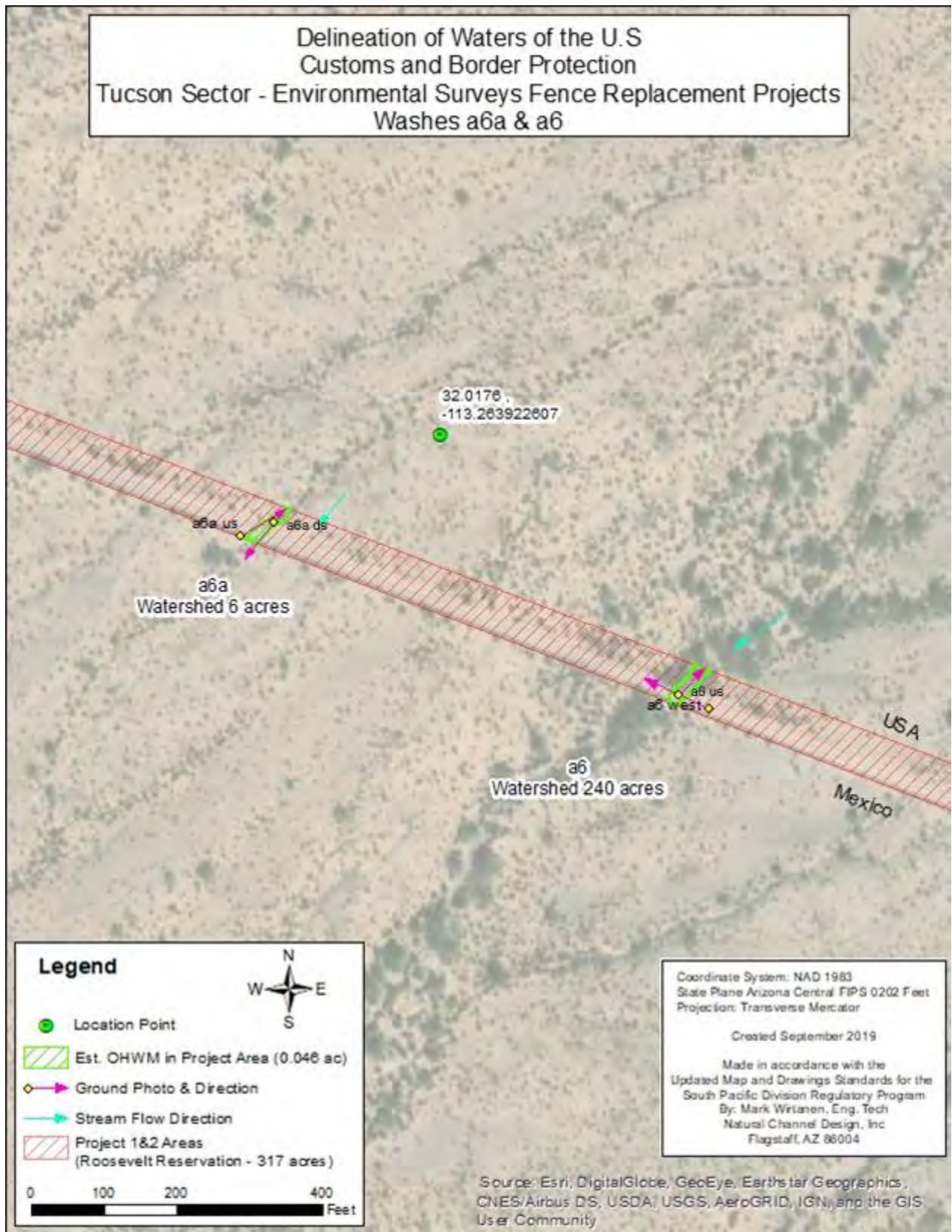


Figure 55. Aerial view of washes a6a and a6 with photo points



**Figure 56. Photo point a6a looking upstream**



**Figure 57. Photo point a6a looking downstream**



**Figure 58. Photo point a6 looking upstream**



**Figure 59. Photo point a6 looking west**



Figure 60. Aerial view of washes a7w13 and a7w12 with photo points



**Figure 61. Photo point a7w13 looking upstream**



**Figure 62. Photo point a7w13 looking downstream**



**Figure 63. Photo point a7w12 looking upstream**



**Figure 64. Photo point a7w12 looking west**

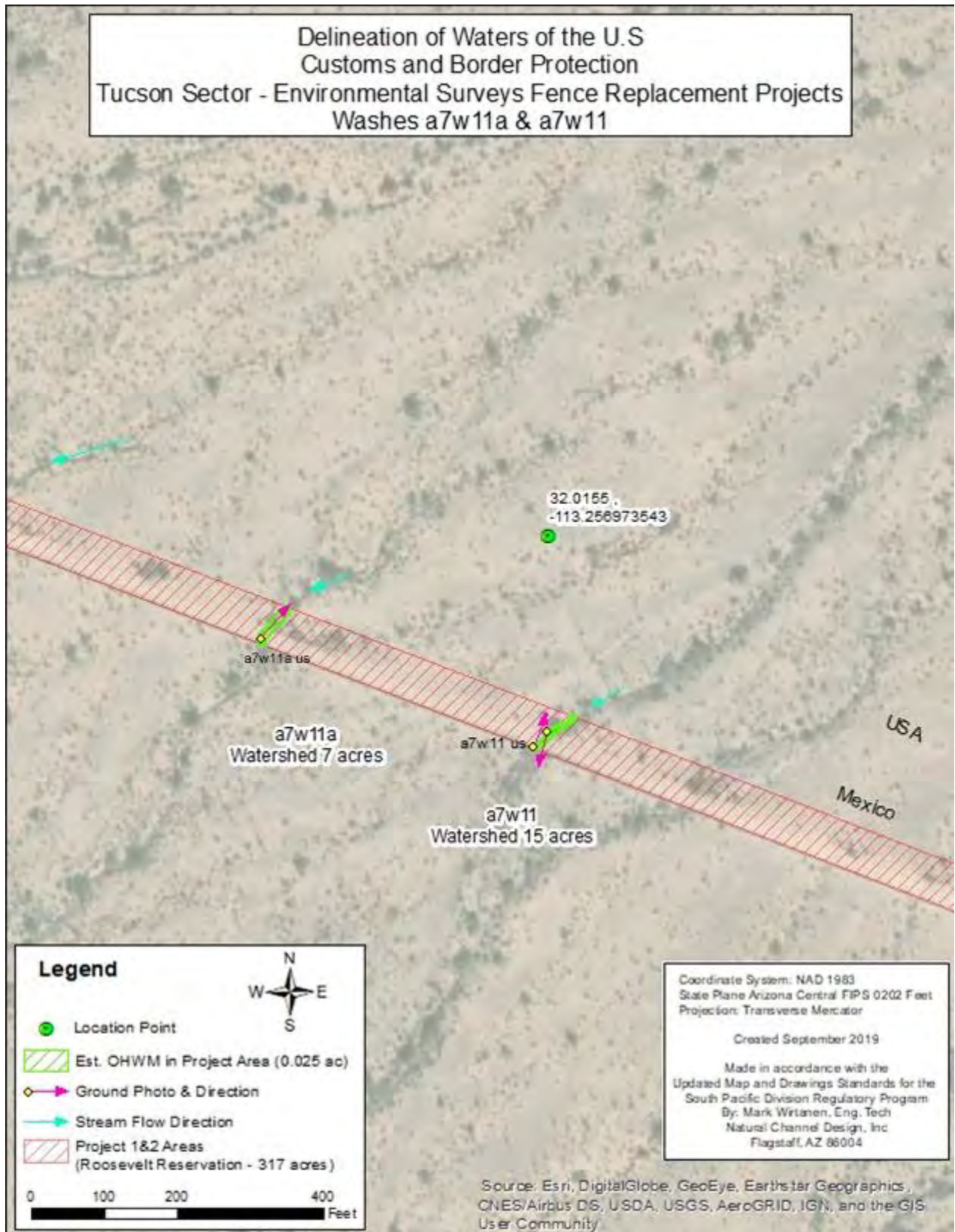


Figure 65. Aerial view of washes a7w11a and a7w11 with photo points





**Figure 66. Photo point a7wa looking upstream**



**Figure 67. Photo point a7w11 looking upstream**



**Figure 68. Photo point a7w11 looking downstream**

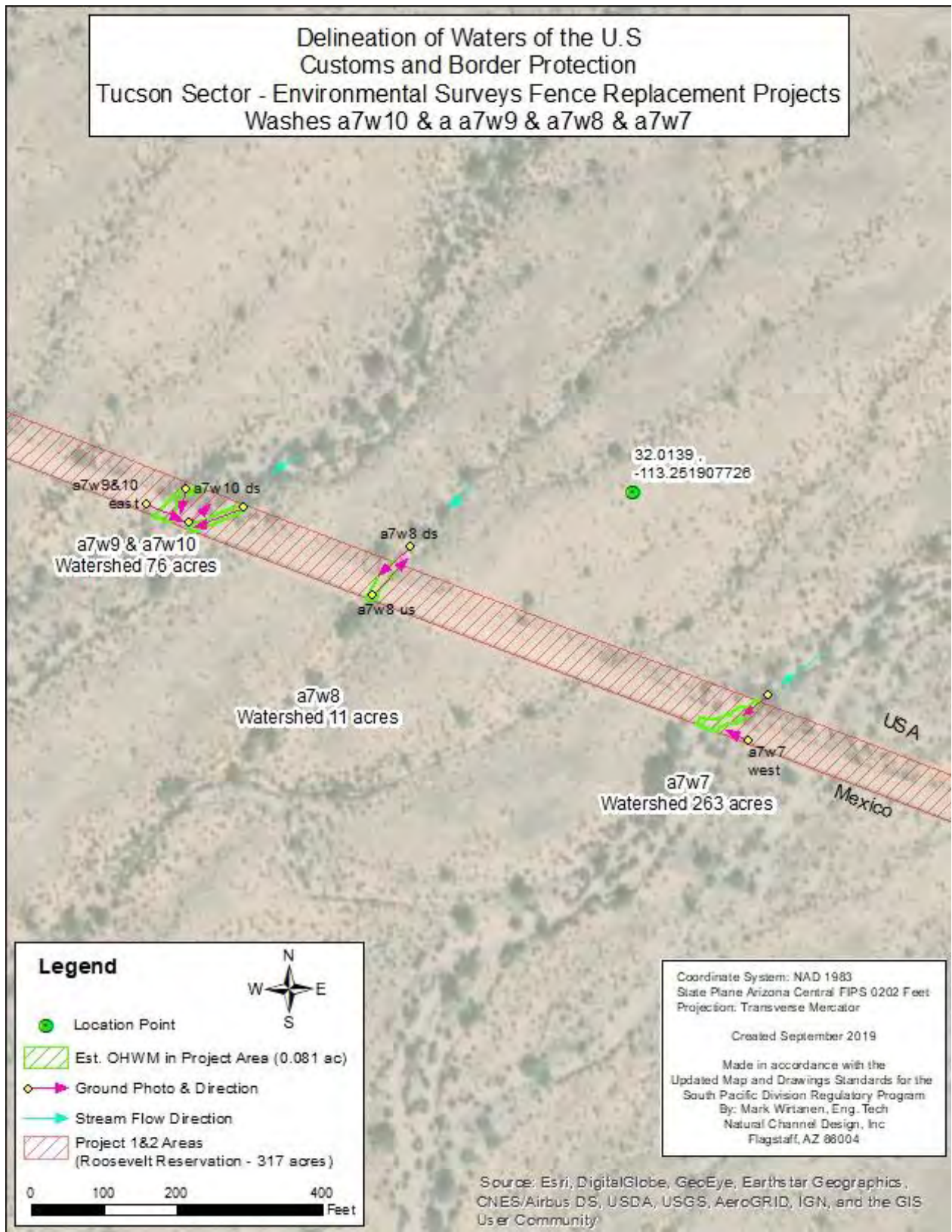


Figure 69. Aerial view of washes a7w10, a7w9, a7w8, and a7w7 with photo points.



**Figure 70. Photo point a7w10 and a7w9 looking east**



**Figure 71. Photo point a7w10 looking downstream**



**Figure 72. Photo point a7w9 looking upstream**



**Figure 73. Photo point a7w9 looking downstream**



**Figure 74. Photo point a7w8 looking upstream**



**Figure 75. Photo point a7w8 looking downstream**



**Figure 76. Photo point a7w8 looking west**



**Figure 77. Photo point a7w7 looking downstream**

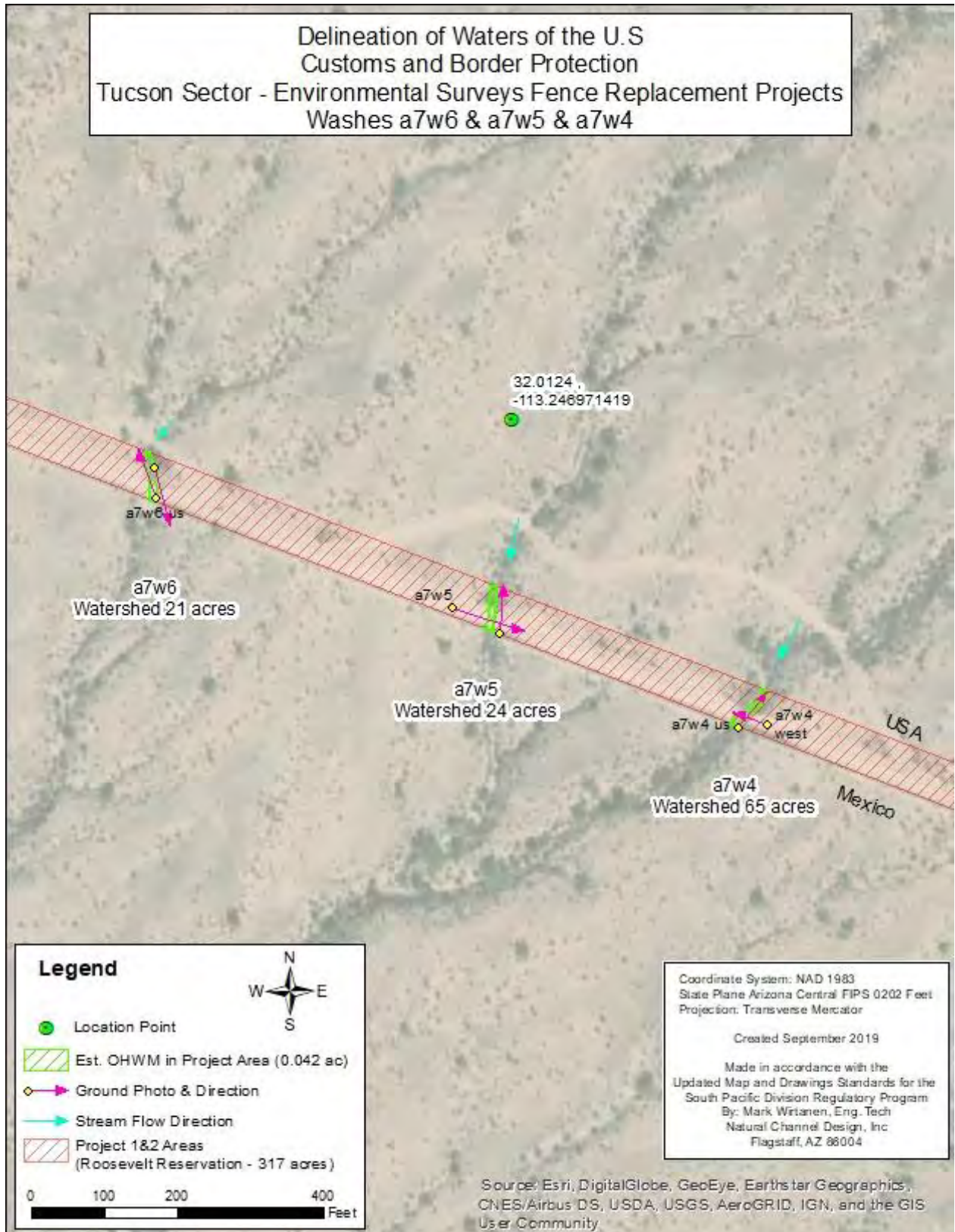


Figure 78. Aerial view of washes a7w6 a7w5 a7w4 with photo points.





**Figure 79. Photo point a7w6 looking upstream**



**Figure 80. Photo point a7w6 looking downstream**



**Figure 81. Photo point a7w5 looking east**



**Figure 82. Photo point a7w5 looking upstream**



**Figure 83. Photo point a7w4 looking upstream**



**Figure 84. Photo point a7w4 looking west**

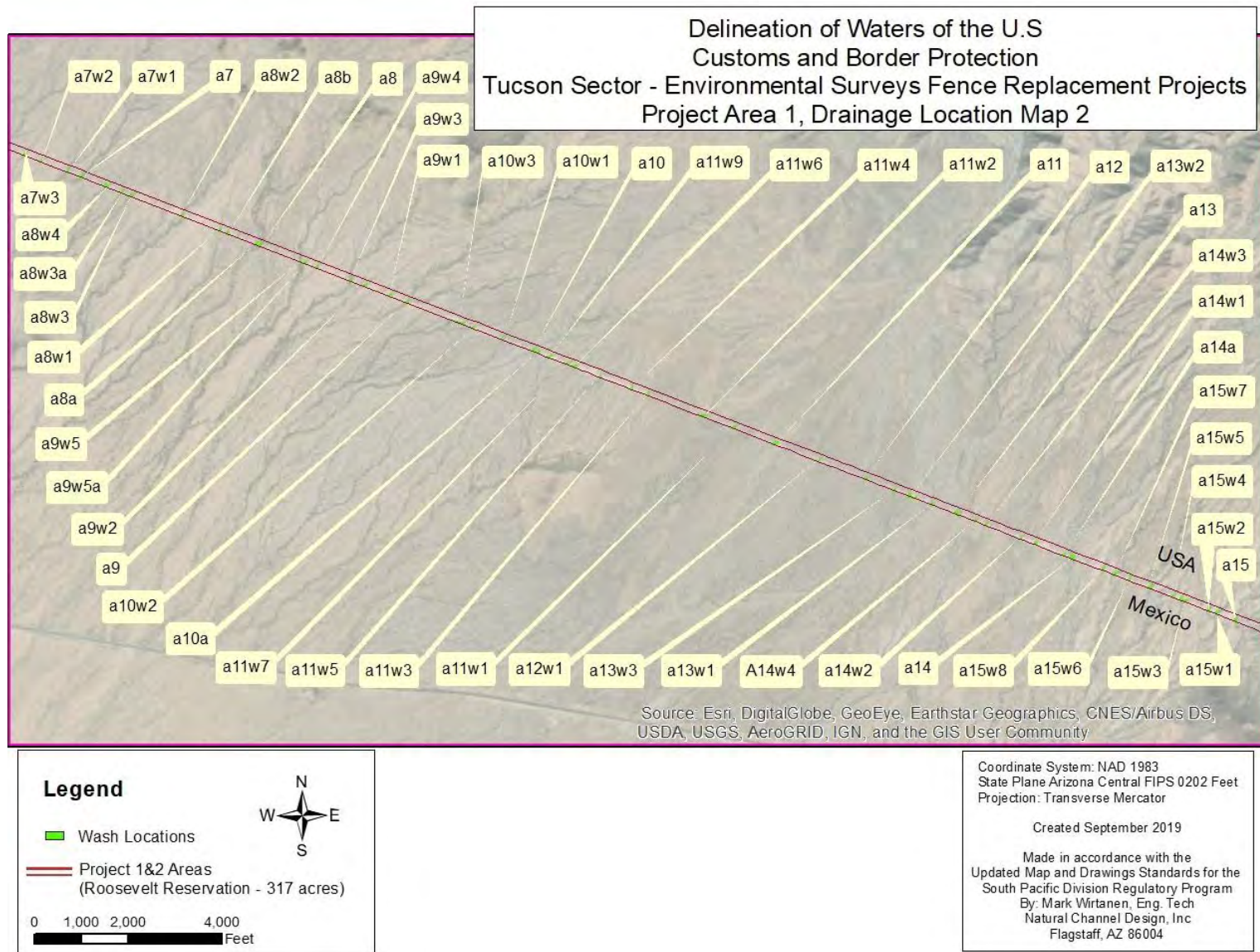


Figure 85. Project Area 1, Location Map 2



Figure 86. Aerial view of washes a7w3 and a7w2 with photo points.



**Figure 87. Photo point a7w3 looking upstream**



**Figure 88. Photo point a7w3 looking downstream**



**Figure 89. Photo point a7w2 looking upstream**



**Figure 90. Photo point a7w2 looking west**

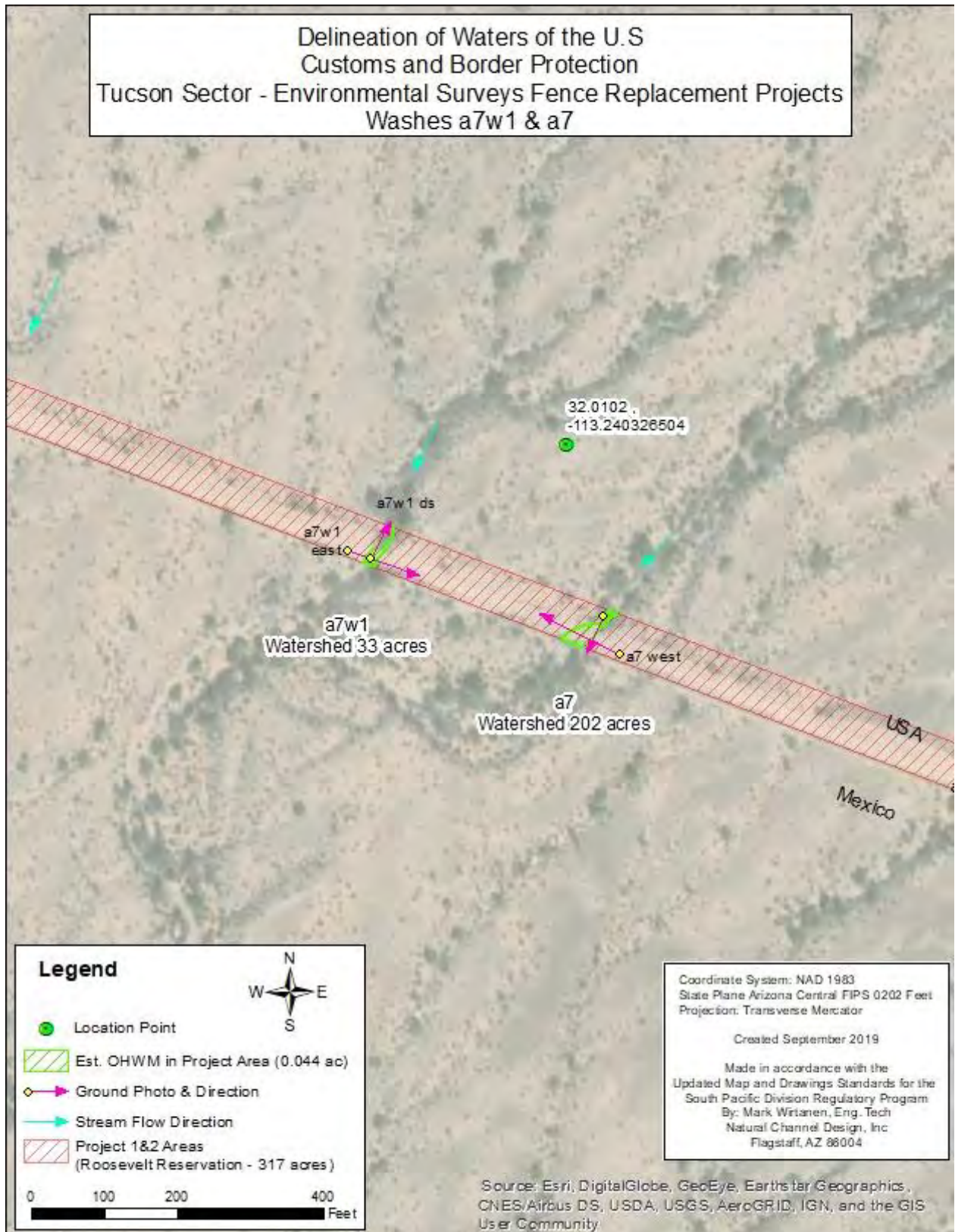


Figure 91. Aerial view of washes a7w1 and a7 with photo points.





**Figure 92. Photo point a7w1 looking east**



**Figure 93. Photo point a7w1 looking upstream**



**Figure 94. Photo point a7 looking downstream**



**Figure 95. Photo point a7 looking west**



Figure 96. Aerial view of washes a8w4, a8w3a, and a8w3 with photo points.



**Figure 97. Photo point a8w4 looking west**



**Figure 98. Photo point a8w4 looking downstream**



**Figure 99. Photo point a8w3a looking upstream**



**Figure 100. Photo point a8w3a looking west**



**Figure 101. Photo point a8w3 looking upstream**



**Figure 102. Photo point a8w3 looking downstream**



Figure 103. Aerial view of washes a8w2, a8w1, and a8b with photo points.



**Figure 104. Photo point a8w2 looking upstream**



**Figure 105. Photo point a8w2 looking west**





**Figure 106. Photo point a8w1 looking east**



**Figure 107. Photo point a8w1 looking downstream**



**Figure 108. Photo point a8b looking upstream**



**Figure 109. Photo point a8b looking west**



Figure 110. Aerial view of washes a8a and a8 with photo points.



**Figure 111. Photo point a8a looking east**



**Figure 112. Photo point a8 looking upstream**



**Figure 113. Photo point a8 looking west**

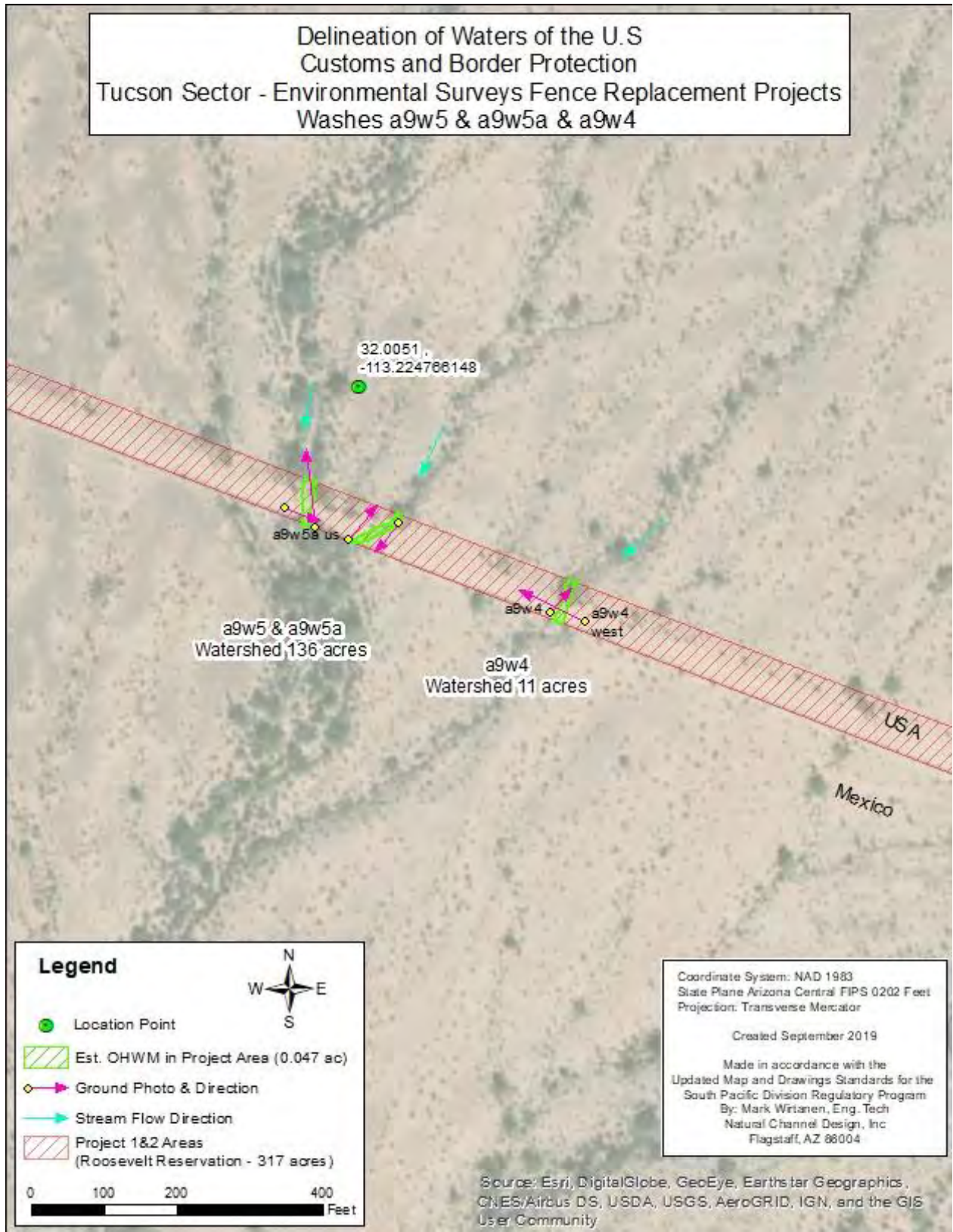


Figure 114



**Figure 115. Photo point a9w5 looking east**



**Figure 116. Photo point a9w5 looking upstream**



**Figure 117. Photo point a9w5a looking upstream**



**Figure 118. Photo point a9w5a looking downstream**





**Figure 119. Photo point a9w4 looking upstream**



**Figure 120. Photo point a9w4 looking west**

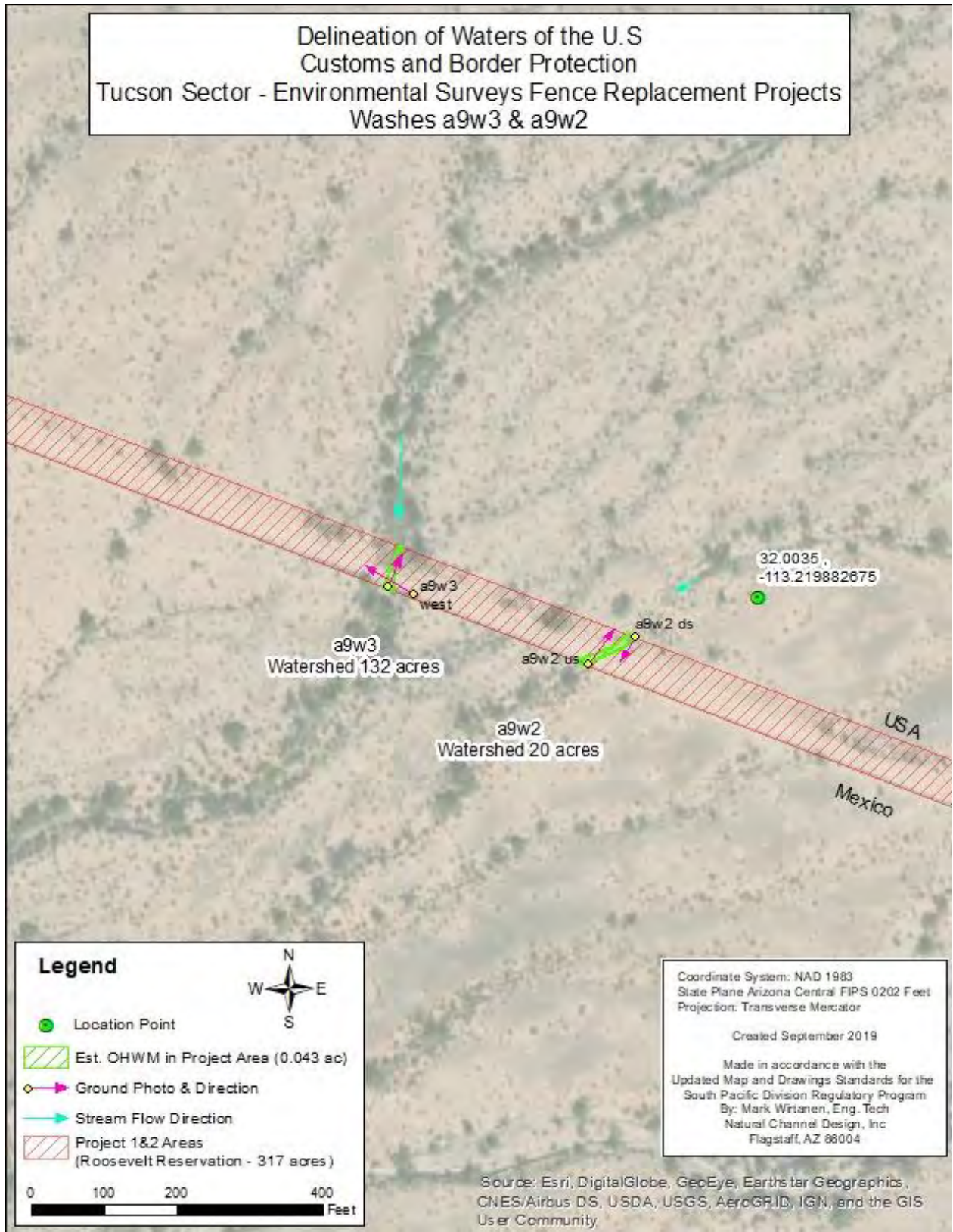


Figure 121. Aerial view of washes a9w3 and a9w2 with photo points



Figure 122. Photo point a9w3 looking upstream



Figure 123. Photo point a9w3 looking west



**Figure 124. Photo point a9w2 looking upstream**



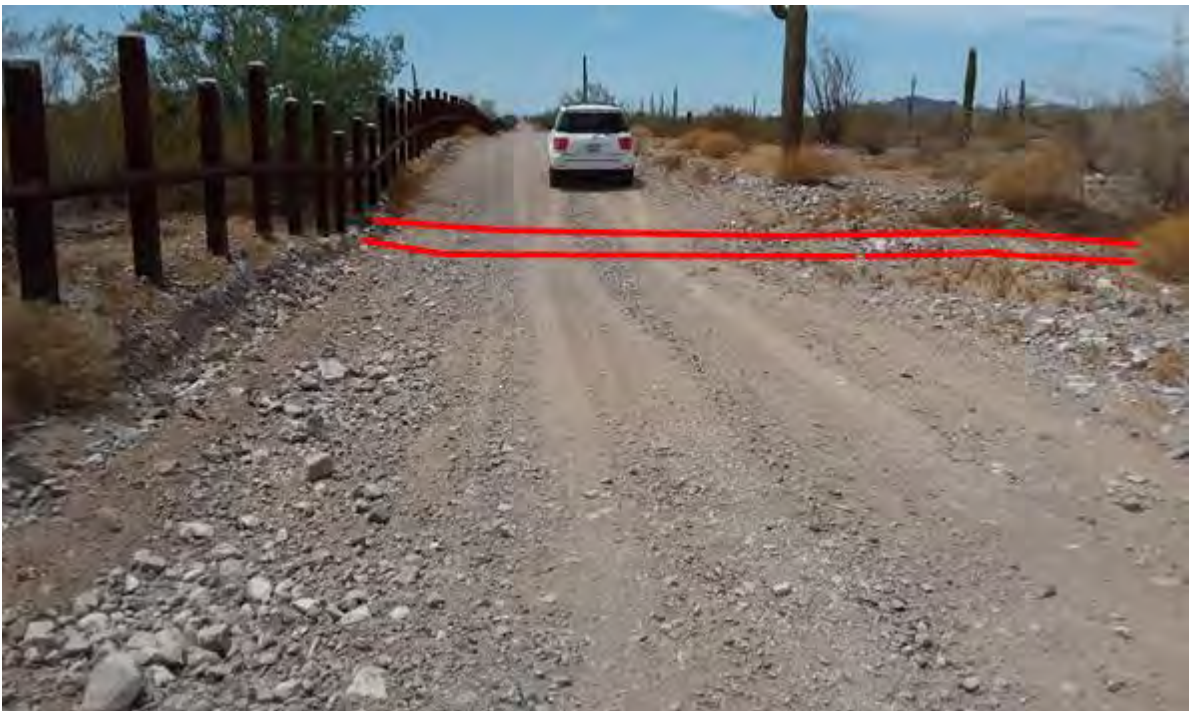
**Figure 125. Photo point a9w2 looking downstream**



Figure 126. Aerial view of washes a9w1 and a9 with photo points



**Figure 127. Photo point a9w1 looking upstream**



**Figure 128. Photo point a9w1 looking west**



**Figure 129. Photo point a9 looking upstream**



**Figure 130. Photo point a9 looking west**



Figure 131. Aerial view of washes a10w3, a10w2, and a10w1 with photo points





Figure 132. Photo point a10w3 looking east



Figure 133. Photo point a10w3 looking west



**Figure 134. Photo point a10w2 looking upstream**



**Figure 135. Photo point a10w2 looking west**



**Figure 136. Photo point a10w1 looking east**



**Figure 137. Photo point a10w1 looking upstream**



Figure 138. Aerial view of washes a10, a10a a11w9, a11w7, and a11w6 with photo points



**Figure 139. Photo point a10 looking east**



**Figure 140. Photo point a10 looking downstream**



**Figure 141. Photo point a11w9 looking upstream**



**Figure 142. Photo point a11w9 looking downstream**



**Figure 143. Photo point a11w7 looking upstream**



**Figure 144. Photo point a11w7 looking west**



**Figure 145. Photo point a11w6 looking east**



**Figure 146. Photo point a11w6 looking upstream**





Figure 147. Aerial view of washes a11w5, a11w4, and a11w3 with photo points.



**Figure 148. Photo point a11w5 looking upstream**



**Figure 149. Photo point a11w5 looking west**



**Figure 150. Photo point a11w4 looking east**



**Figure 151. Photo point a11w4 looking upstream**



**Figure 152. Photo point a11w3 looking east**



**Figure 153. Photo point a11w3 looking upstream**

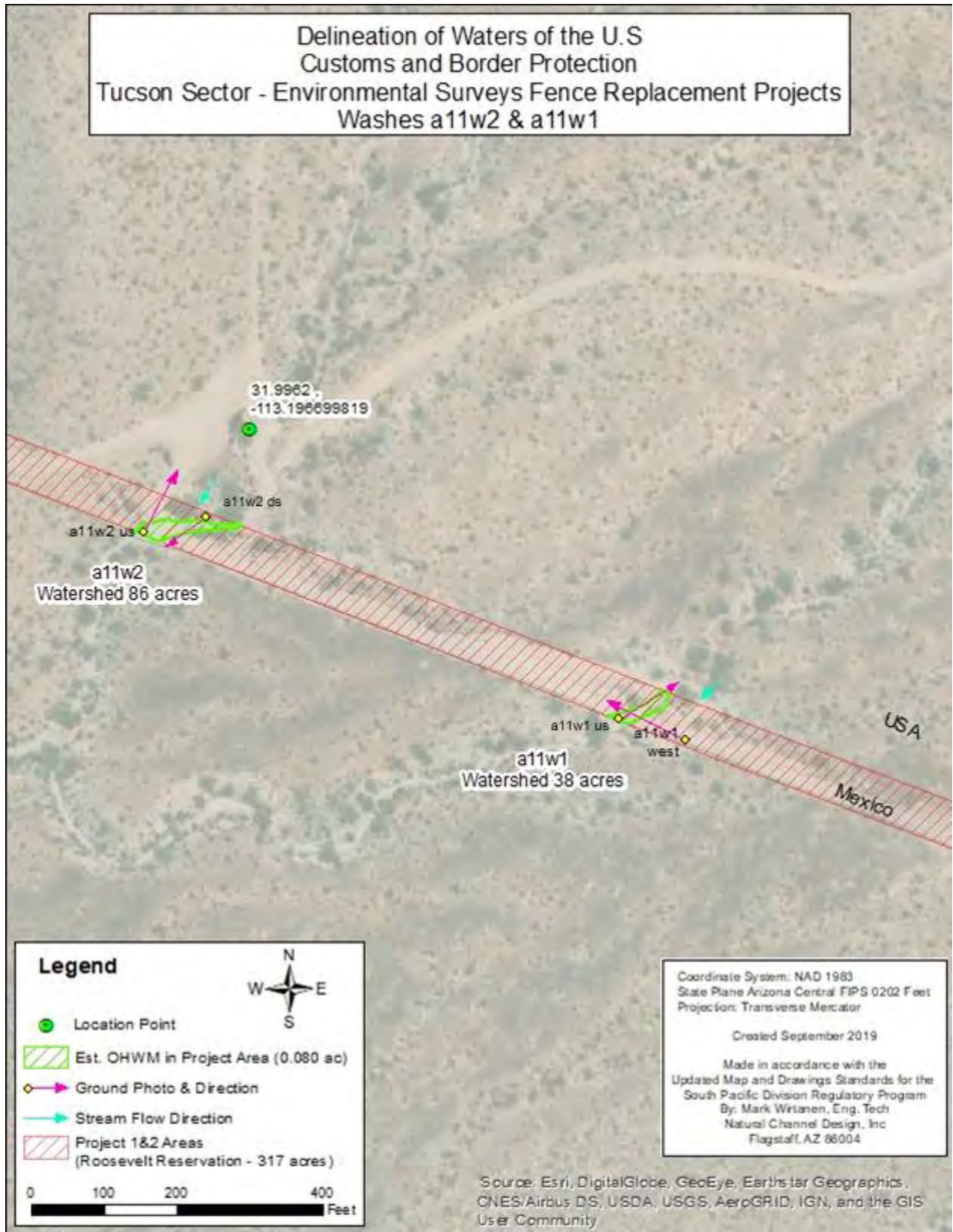


Figure 154. Aerial view of washes a11w2 and a11w1 with photo points



**Figure 155. Photo point a11w2 looking upstream**



**Figure 156. Photo point a11w2 looking downstream**



**Figure 157. Photo point a11w1 looking upstream**



**Figure 158. Photo point a11w1 looking west**



Figure 159. Aerial view of washes a11 and a12w1 with photo points





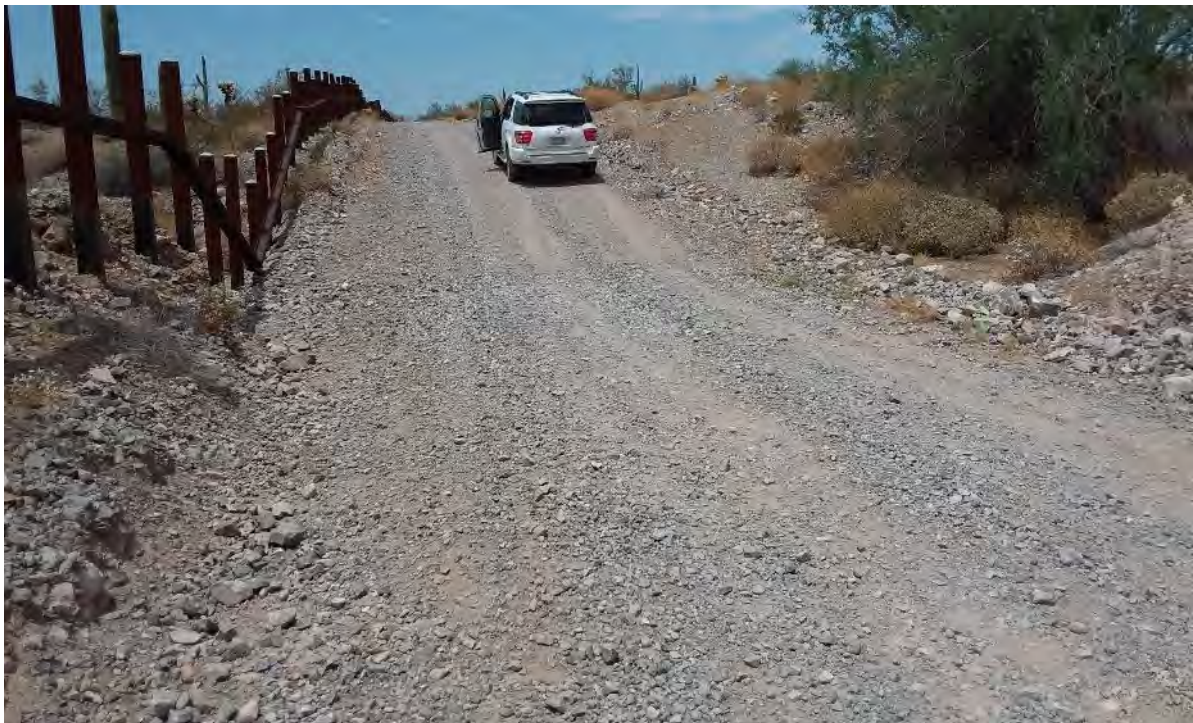
**Figure 160. Photo point a11 looking east**



**Figure 161. Photo point a11 looking upstream**



**Figure 162. Photo point a12w1 looking upstream**



**Figure 163. Photo point a12w1 looking west**



Figure 164. Aerial view of washes a12, a13w3, and a13w2 with photo points



**Figure 165. Photo point a12 looking upstream**



**Figure 166. Photo point a12 looking west**



**Figure 167. Photo point a13w3 looking east**



**Figure 168. Photo point a13w2 looking east**



Figure 169. Aerial view of washes a13w1, a13, and a14w4 with photo points



**Figure 170. Photo point a13w1 looking upstream**



**Figure 171. Photo point a13w1 looking west**



**Figure 172. Photo point a13 looking east**



**Figure 173. Photo point a13 looking downstream**





**Figure 174. Photo point a14w4 looking downstream**



**Figure 175. Photo point a14w4 looking west**

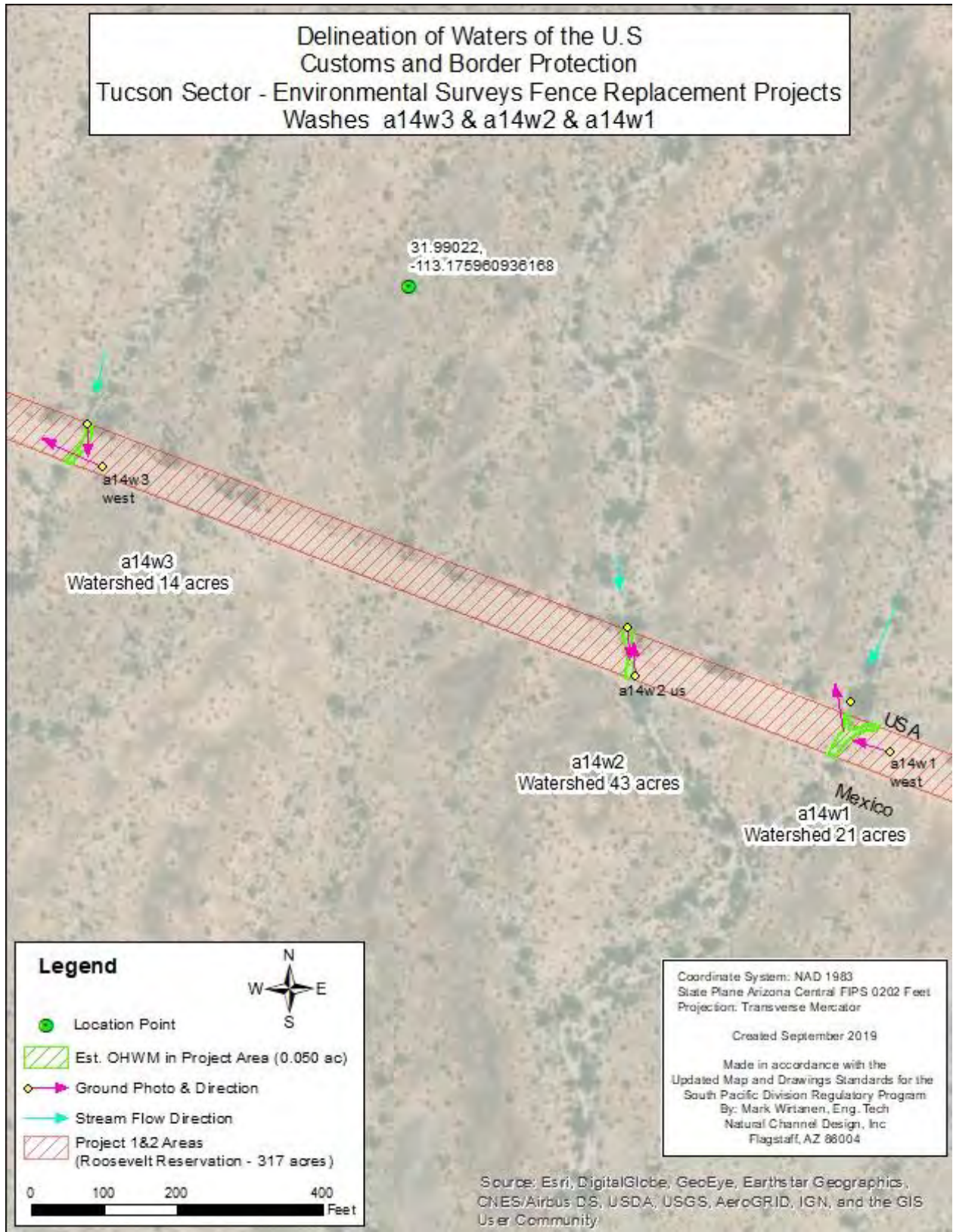


Figure 176. Aerial view of washes a14w3, a14w2, and a14w1 with photo points.



**Figure 177. Photo point a14w3 looking downstream**



**Figure 178. Photo point a14w3 looking west**



**Figure 179. Photo point a14w2 looking downstream**



**Figure 180. Photo point a14w2 looking upstream**



**Figure 181. Photo point a14w1 looking downstream**



**Figure 182. Photo point a14w1 looking west**  
*There is a double culvert under the road here*



Figure 183. Aerial view of washes a14a, a14, a15w8, and a5w7 with photo points



**Figure 184. Photo point a14 looking east**



**Figure 185. Photo point a14 looking downstream**



**Figure 186. Photo point a15w7 looking upstream**



**Figure 187. Photo point a15w7 looking west**



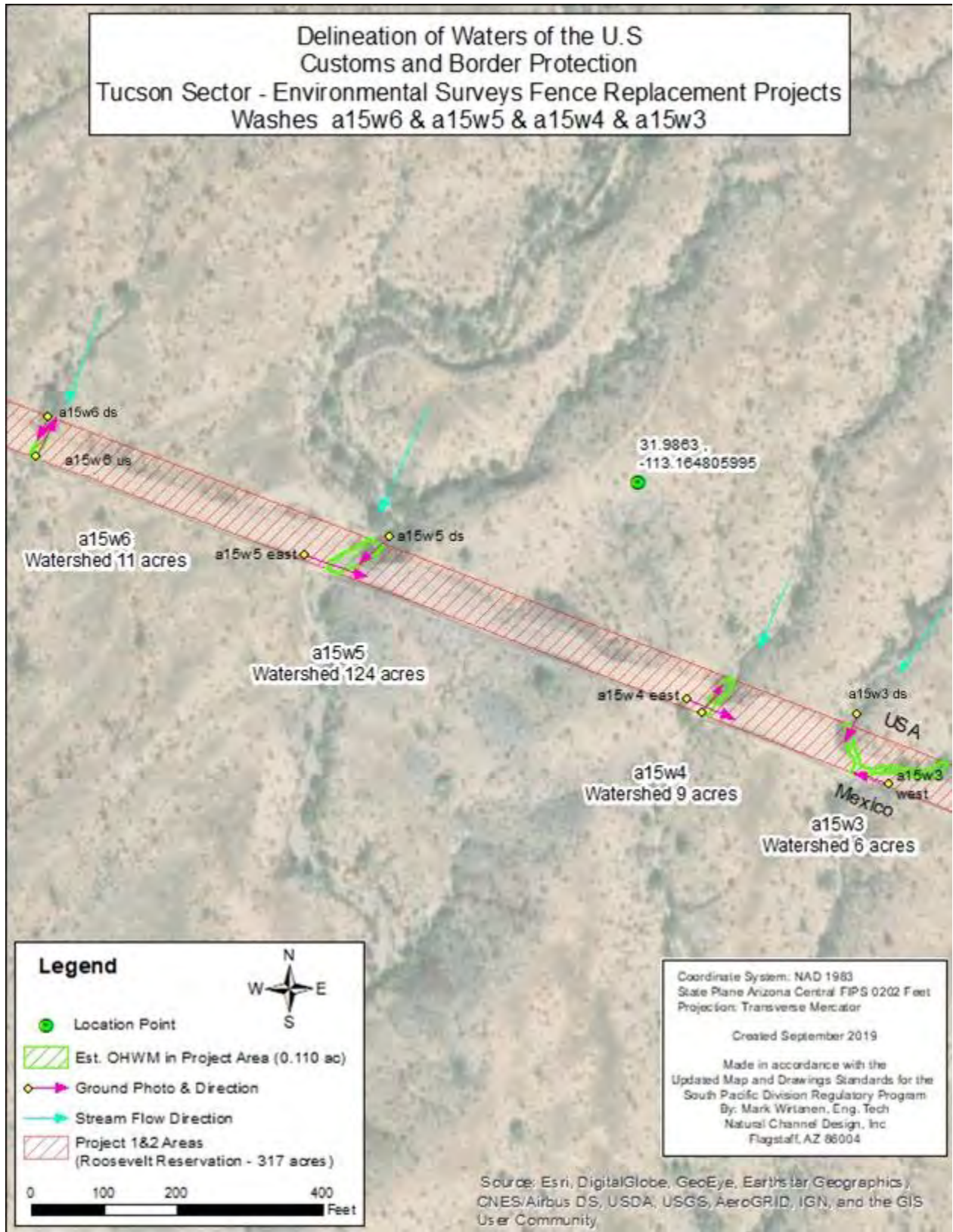


Figure 188. Aerial view of washes a15w6, a15w5, a15w4, and a15w3 with photo points.



**Figure 189. Photo point a15w6 looking upstream**



**Figure 190. Photo point a15w6 looking downstream**



**Figure 191. Photo point a15w5 looking east**



**Figure 192. Photo point a15w4 looking downstream**



**Figure 193. Photo point a15w4 looking east**



**Figure 194. Photo point a15w3 looking upstream**



**Figure 195. Photo point a15w3 looking downstream**



**Figure 196. Photo point # looking west**



Figure 197. Aerial view of washes a15w2, a15w1, and a15 with photo points.



**Figure 198. Photo point a15w2 looking east**



**Figure 199. Photo point a15w2 looking upstream**



**Figure 200. Photo point a15w1 looking east**



**Figure 201. Photo point a15w1 looking upstream**





**Figure 202. Photo point a15 looking downstream**



**Figure 203. Photo point a15 looking upstream**

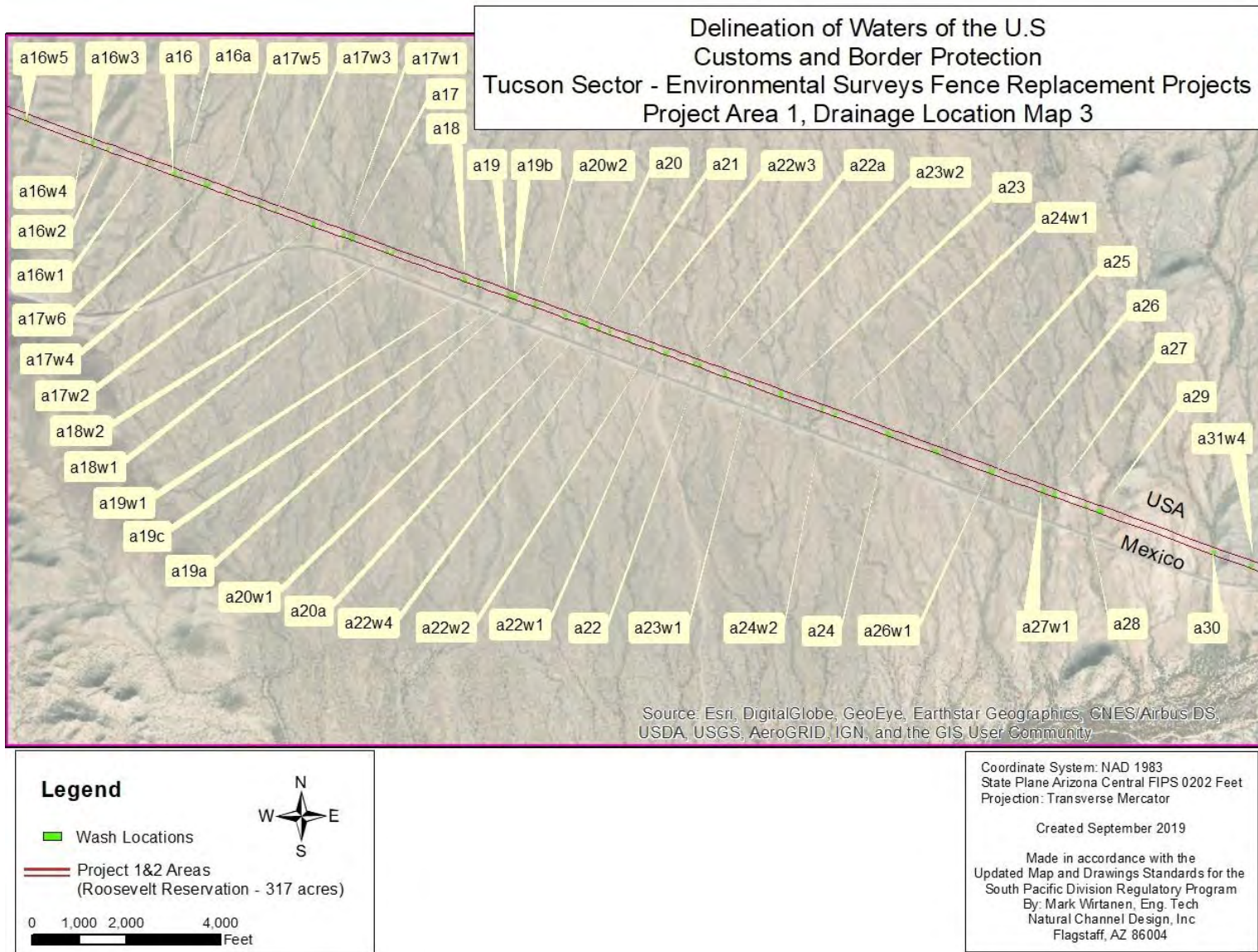


Figure 204. Project Area 1, Location Map 3

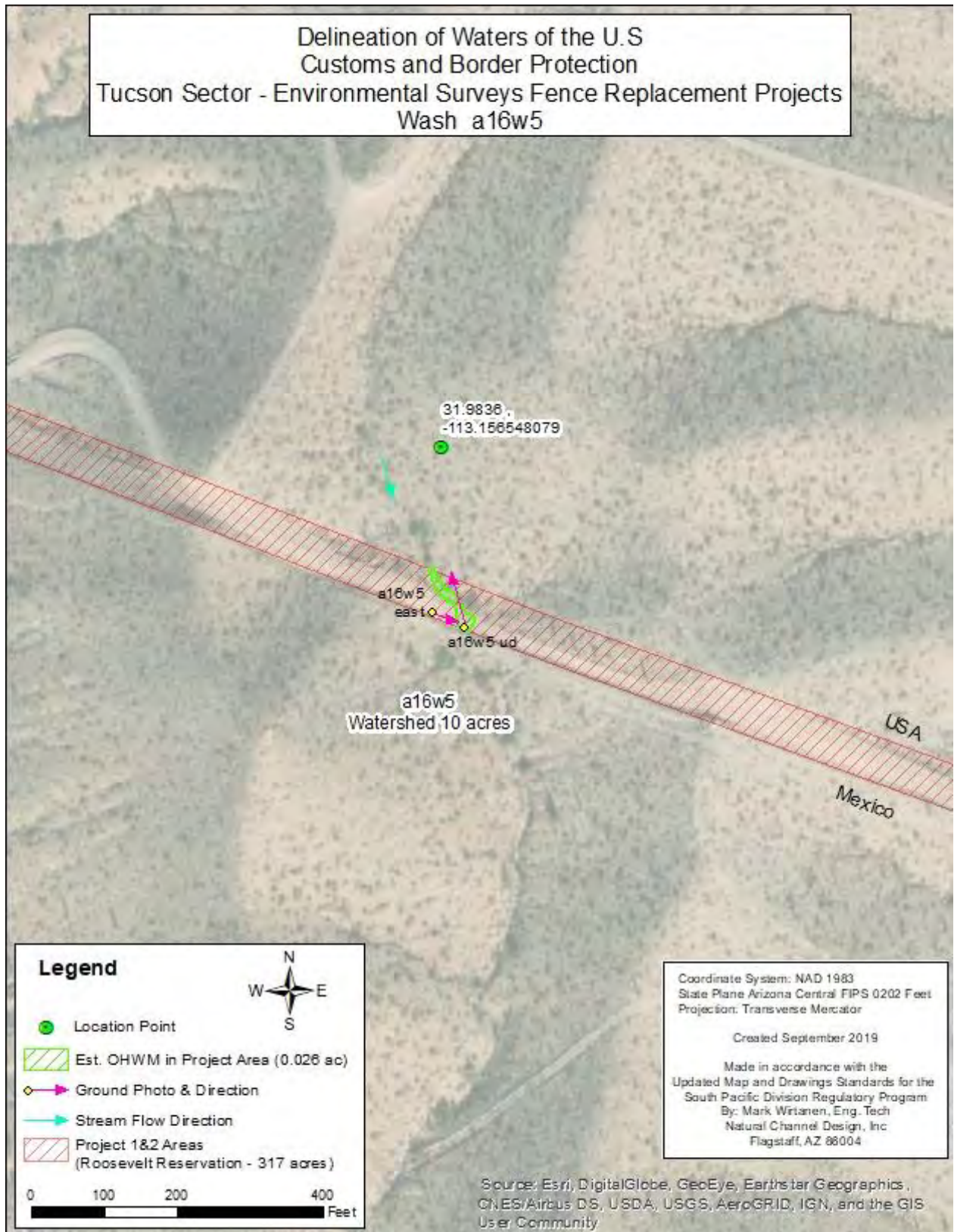


Figure 205. Aerial view of wash a16w5 with photo points.



**Figure 206. Photo point a16w5 looking east**



**Figure 207. Photo point a16w5 looking upstream**



Figure 208. Aerial view of washes a16w4, a16w3, and a15w2 with photo points



**Figure 209. Photo point a16w4 looking upstream**



**Figure 210. Photo point a16w4 looking west**



**Figure 211. Photo point a16w3 looking upstream**



**Figure 212. Photo point a16w3 looking west**



**Figure 213. Photo point a16w2 looking east**



**Figure 214. Photo point a16w2 looking upstream**



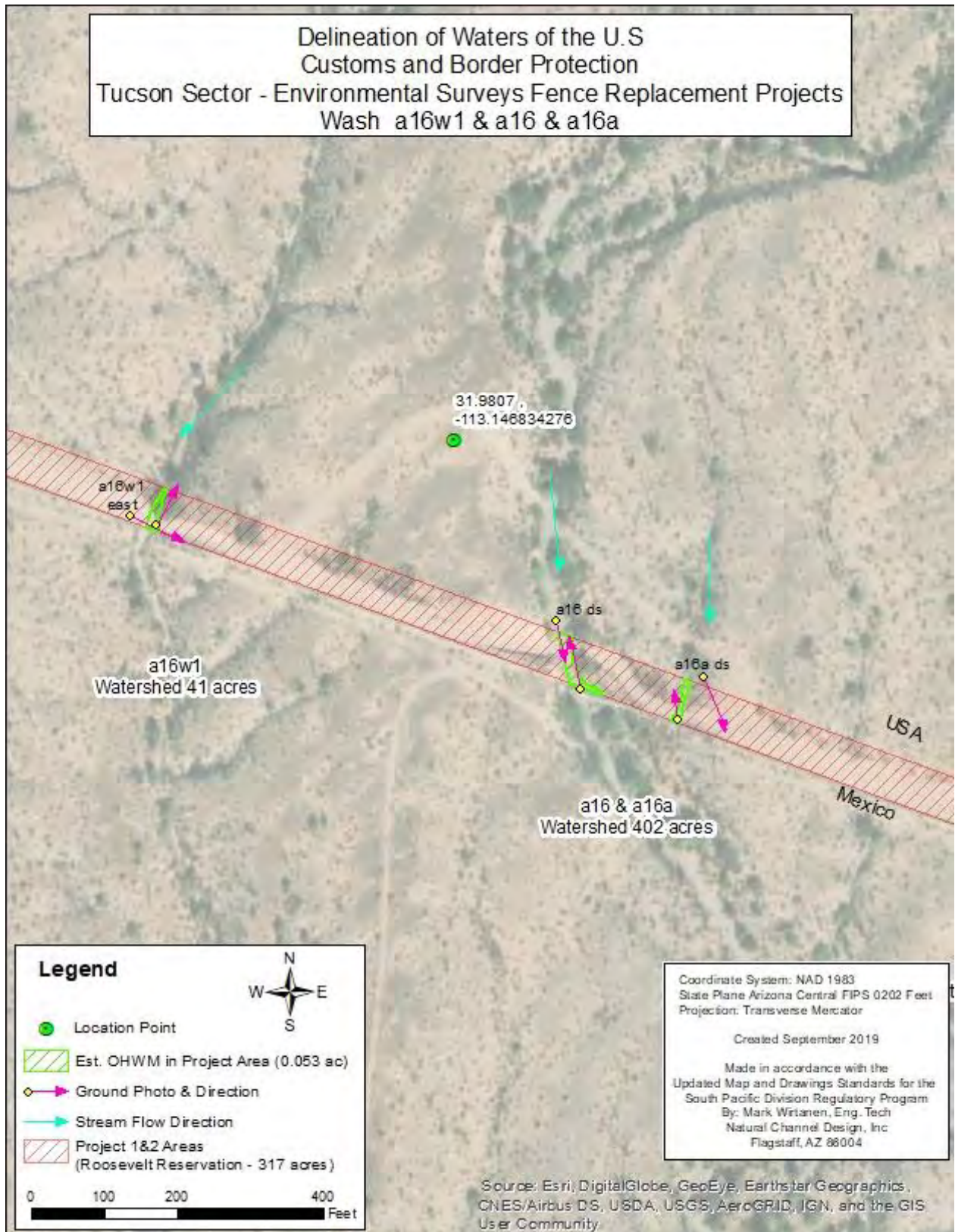


Figure 215. Aerial view of washes a16w1, a16, and a16a with photo points.



**Figure 216. Photo point a16w1 looking east**



**Figure 217. Photo point a16w1 looking upstream**



**Figure 218. Photo point a16 looking downstream**



**Figure 219. Photo point a16 looking upstream**



**Figure 220. Photo point a16a looking upstream**



**Figure 221. Photo point a16a looking downstream**

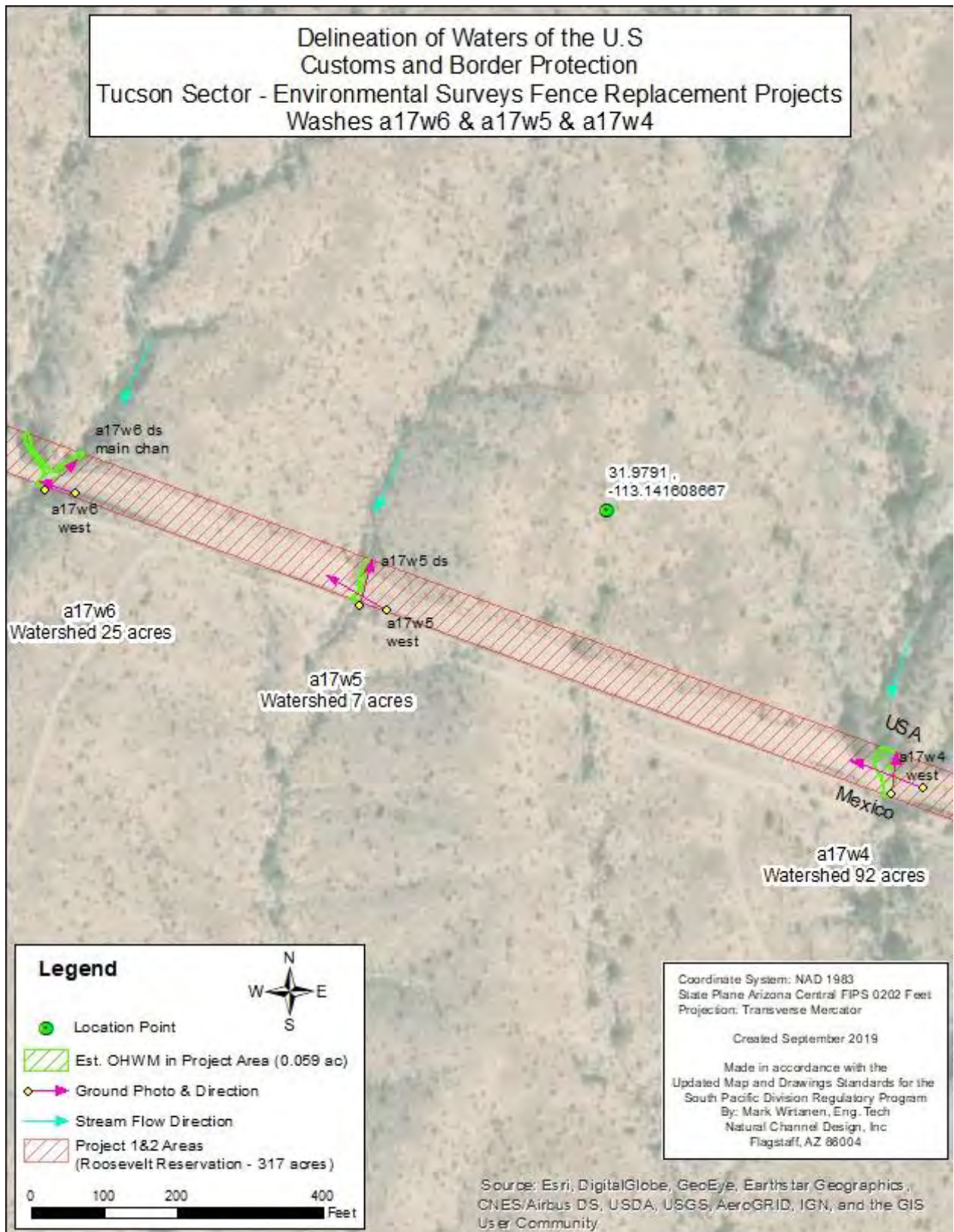


Figure 222. Aerial view of washes a17w6, a17w5, and a17w4 with photo points



**Figure 223. Photo point a17w6 looking upstream**



**Figure 224. Photo point a17w6 looking west**



**Figure 225. Photo point a17w5 looking upstream**



**Figure 226. Photo point a17w5 looking west**



**Figure 227. Photo point a17w4 looking upstream**



**Figure 228. Photo point a17w4 looking west**





Figure 229. Aerial view of washes a17w3 & a17w2 with photo points



**Figure 230. Photo point a17w3 looking downstream towards culverts**



**Figure 231. Photo point a17w3 looking downstream from culverts**  
*Double culverts under road*



**Figure 232. Photo point a17w3 looking west**

*Double 30-inch culverts under road at this location.*



**Figure 233. Photo point a17w2 looking upstream**



**Figure 234. Photo point a17w2 west**

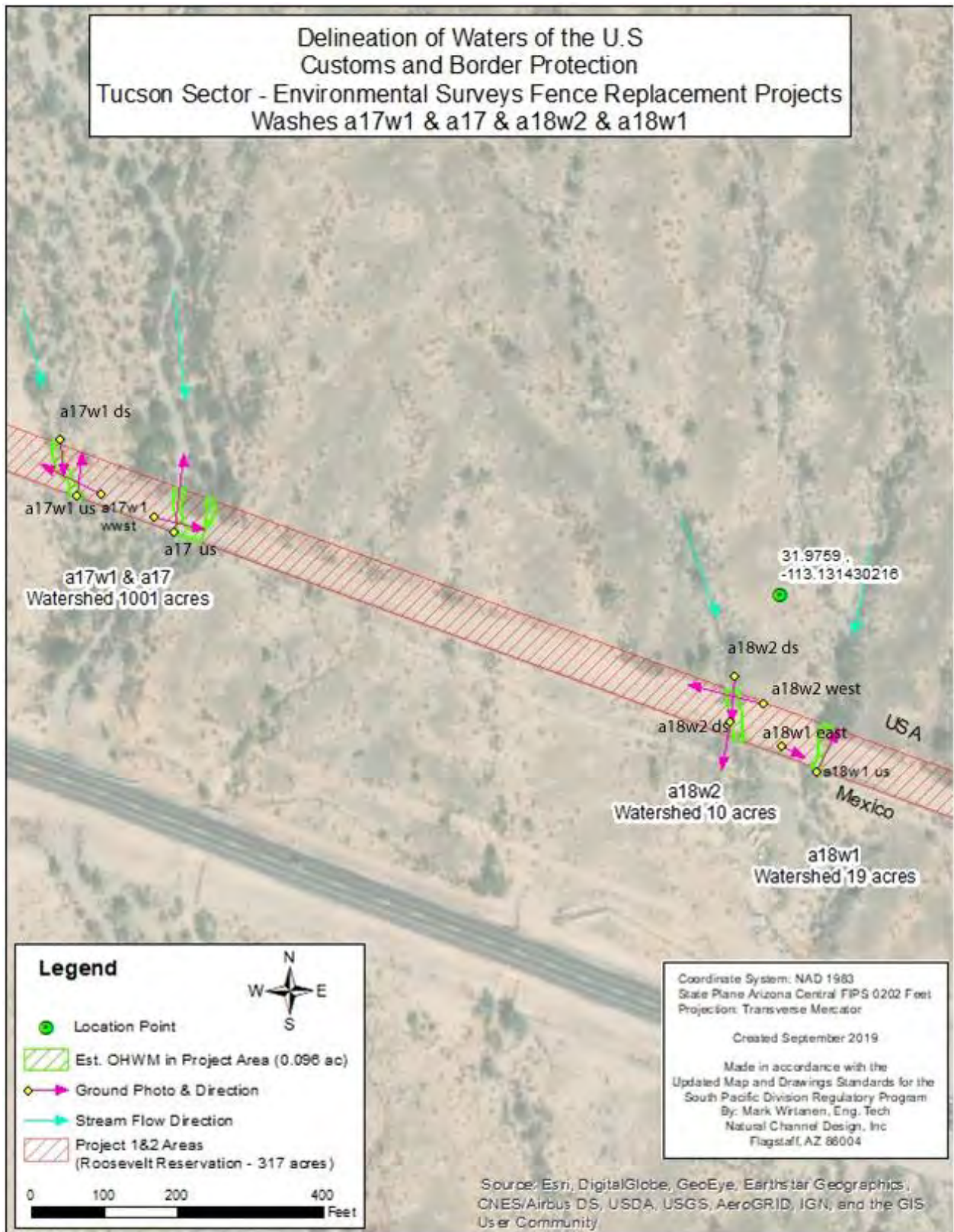


Figure 235. Aerial view of washes a17w1, a17, a18w2, and a18w1 with photo points



**Figure 236. Photo point a17w1 looking downstream**



**Figure 237. Photo point a17w1 looking upstream**



**Figure 238. Photo point a17 looking east**



**Figure 239. Photo point a17 looking upstream**



**Figure 240. Photo point a18w2 looking downstream**



**Figure 241. Photo point a18w2 looking downstream**





**Figure 242. Photo point a18w2 looking west**

*There are culverts under the road at this location.*



**Figure 243. Photo point a18w1 looking east**



**Figure 244. Photo point a18w1 looking upstream**



Figure 245. Photo point # looking downstream



**Figure 246. Photo point a18 looking downstream**



**Figure 247. Photo point a18 looking west**



**Figure 248. Photo point a19w1 looking east**



**Figure 249. Photo point a19w1 looking downstream**



**Figure 250. Photo point a19w1 looking upstream**



**Figure 251. Photo point a19d looking east**



**Figure 252. Photo point a19d looking upstream**

S



**Figure 253. Photo point a19c looking downstream**



**Figure 254. Photo point a19c looking upstream**



**Figure 255. Photo point a19b looking upstream**





**Figure 256. Photo point a19a looking upstream**



**Figure 257. Photo point a19a looking west**



Figure 258. Photo point # looking downstream



**Figure 259. Photo point a20w2 looking upstream**  
*Multiple small channels in the sacaton grasses*



**Figure 260. Photo point a20w2 looking west**



Figure 261. Photo point a20w1 looking east



Figure 262. Photo point a20w1 looking upstream



**Figure 263. Photo point a20 looking upstream**



**Figure 264. Photo point a20a looking upstream**



**Figure 265. Photo point a20a looking west**

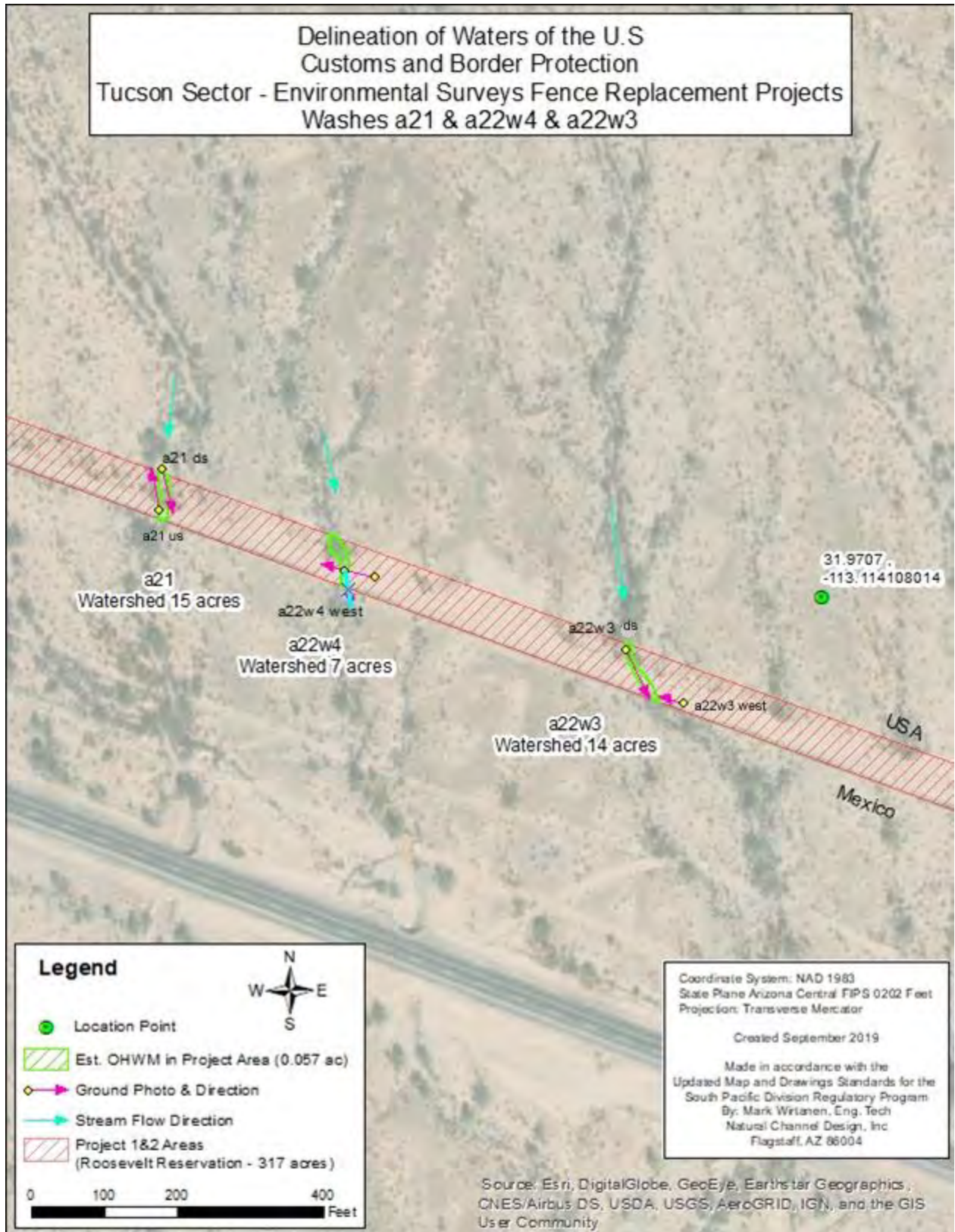


Figure 266. Photo point # looking downstream



**Figure 267. Photo point a21 looking upstream**



**Figure 268. Photo point a21 looking downstream**





**Figure 269. Photo point a22w4 looking downstream from culvert outlet**



**Figure 270. Photo point a22w4 looking west**

*This channel crosses the road in a culvert.*



**Figure 271. Photo point a22w3 looking downstream**



**Figure 272. Photo point a22w3 looking west**



Figure 273. Photo point # looking downstream



**Figure 274. Photo point a22w2 looking east**



**Figure 275. Photo point a22w2 looking upstream**



**Figure 276. Photo point a22w1 looking east**



**Figure 277. Photo point a22w1 looking upstream**



Figure 278. Photo point # looking downstream



**Figure 279. Photo point a22a looking east**



**Figure 280. Photo point a22a looking upstream**



**Figure 281. Photo point a22 looking upstream**



**Figure 282. Photo point a22 looking west**





**Figure 283. Photo point a23w2 looking east**



**Figure 284. Photo point a23w2 looking downstream**



Figure 285. Photo point # looking downstream



**Figure 286. Photo point a23w1 looking upstream**  
*Channel flows into a culvert under road*



**Figure 287. Photo point a23w1 looking downstream**



**Figure 288. Photo point a23w1 looking west**



**Figure 289. Photo point a23 looking upstream**



**Figure 290. Photo point a23 looking west**



Figure 291. Photo point # looking downstream



**Figure 292. Photo point a24w2 looking upstream**



**Figure 293. Photo point a24w2 looking west**



**Figure 294. Photo point a24w1 looking upstream**



**Figure 295. Photo point a24w1 looking downstream**

Single 30 in culvert.





Figure 296. Aerial view of washes a24 and a25 with photo points



**Figure 297. Photo point a24 looking east**



**Figure 298. Photo point a24 looking upstream**



**Figure 299. Photo point a25 looking east**



**Figure 300. Photo point 25 looking downstream**



Figure 301. Aerial view of washes a26w1 and a26 with photo points



**Figure 302. Photo point a26w1 looking east**



**Figure 303. Photo point a26w1 looking downstream**



**Figure 304. Photo point a26 looking downstream**



**Figure 305. Photo point a26 looking west**



Figure 306. Aerial view of washes a27w1 and a27 with photo points



**Figure 307. Photo point a27w1 looking east**



**Figure 308. Photo point a27w1 looking downstream**





**Figure 309. Photo point a27 looking upstream**



**Figure 310. Photo point a27 looking west**

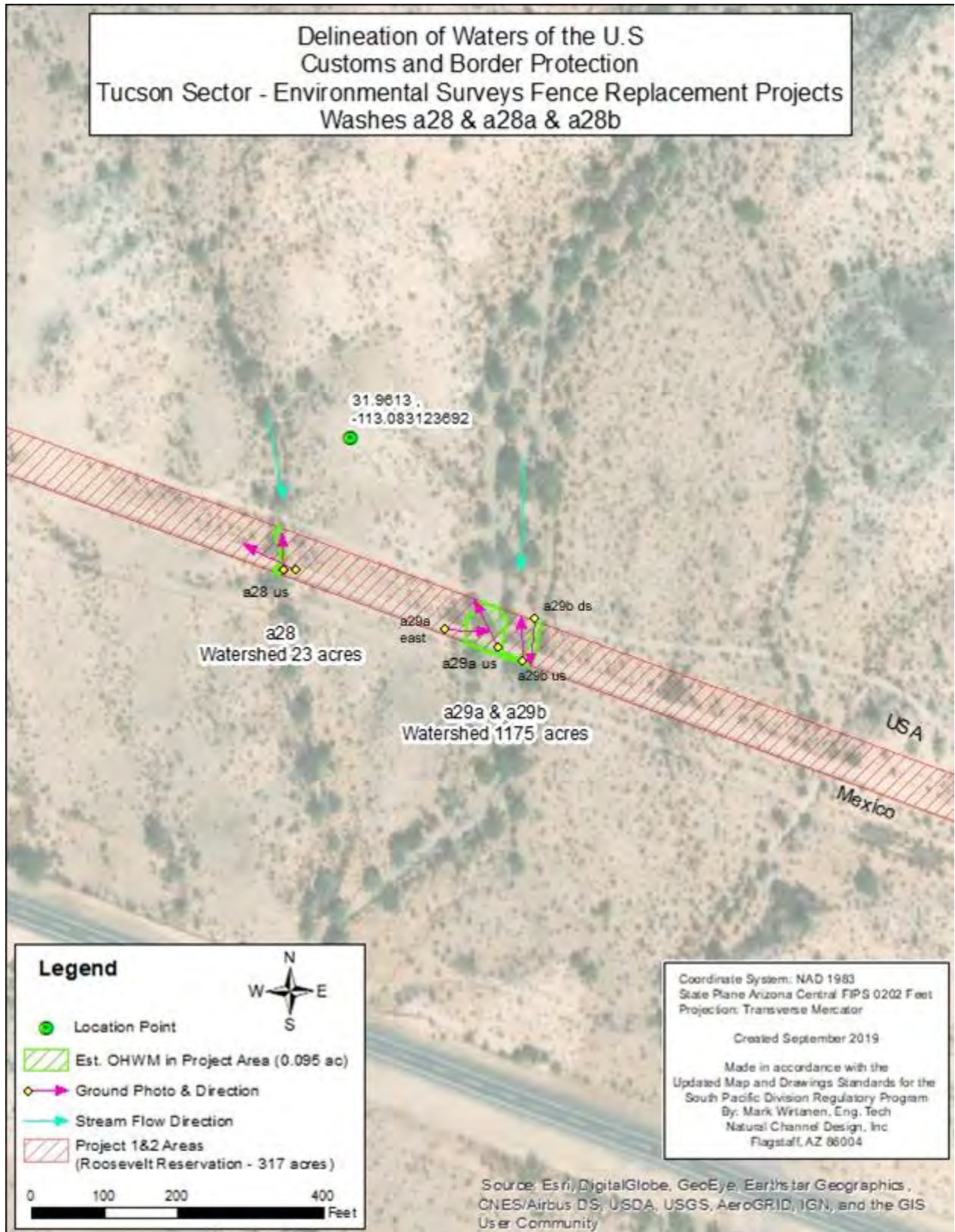


Figure 311. Aerial view of washes a28 a29a a29b with photo points.



**Figure 312. Photo point a28 looking upstream**



**Figure 313. Photo point a28 looking west**



**Figure 314. Photo point a29a looking east**



**Figure 315. Photo point a29a looking upstream**



**Figure 316. Photo point a29b looking upstream**



**Figure 317. Photo point a29b looking downstream**



Figure 318. Aerial view of washes a30 and a31w4 with photo points



**Figure 319. Photo point a30 looking upstream**



**Figure 320. Photo point a30 looking west**



**Figure 321. Photo point a31w4 looking east**



**Figure 322. Photo point a31w4 looking upstream**



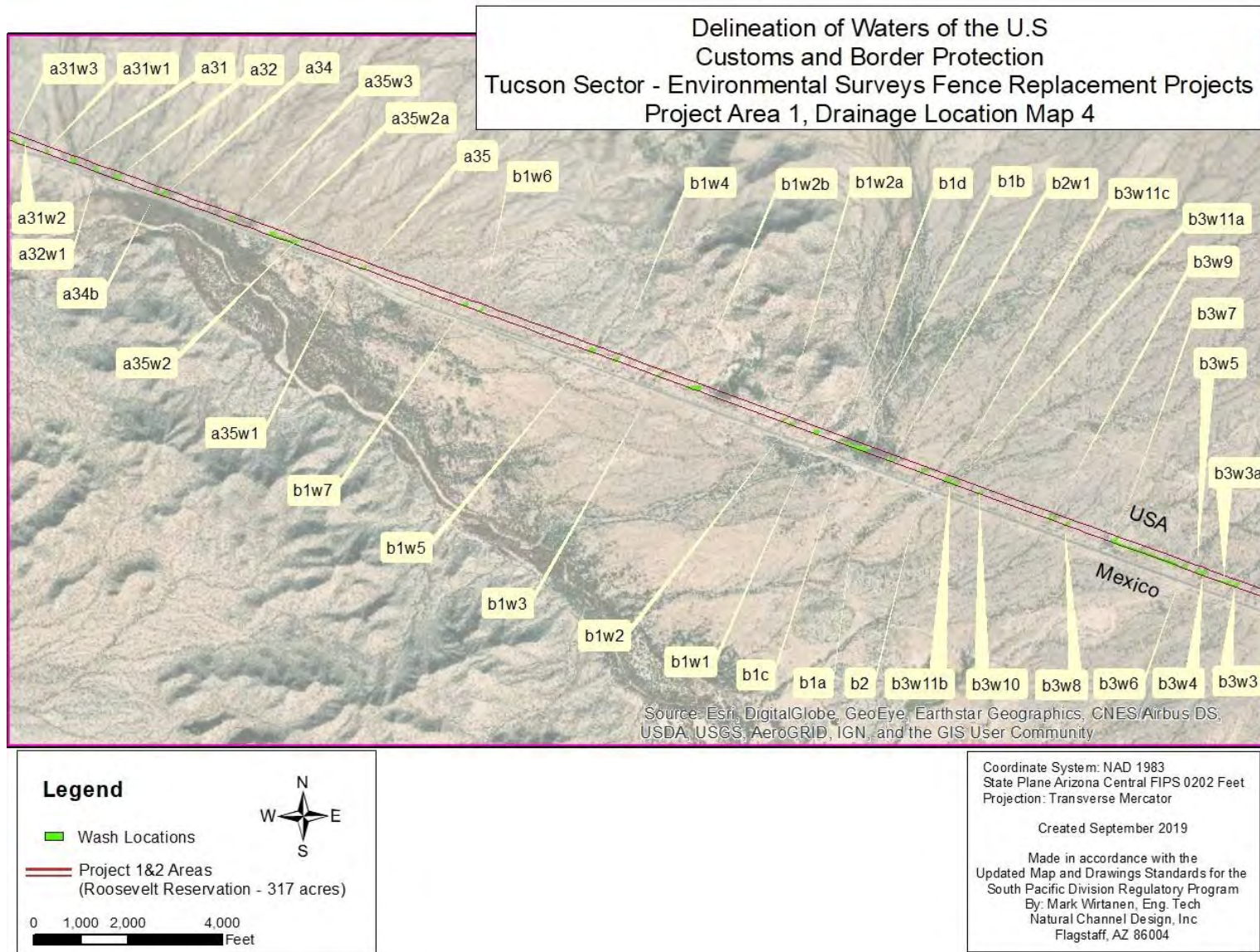


Figure 323. Project Area 1, Location Map 4



Figure 324. Aerial view of washes a31w3, a31w2, and a31w1 with photo points.



**Figure 325. Photo point a31w3 looking downstream**



**Figure 326. Photo point a31w3 looking upstream**



**Figure 327. Photo point a31w2 looking upstream**



**Figure 328. Photo point a31w2 looking upstream**



**Figure 329. Photo point a31w1 looking east**



**Figure 330. Photo point a31w1 looking downstream**



Figure 331. Aerial view of washes a31, a32w1, and a32 with photo points



**Figure 332. Photo point a31 looking east**



**Figure 333. Photo point a31 looking upstream**



**Figure 334. Photo point a32w1 looking east**



**Figure 335. Photo point a31w1 looking upstream**





**Figure 336. Photo point a32 looking downstream**



**Figure 337. Photo point a32 looking west**



Figure 338. Aerial view of washes a34b and a34 with photo points



**Figure 339. Photo point a34b looking upstream**



**Figure 340. Photo point a34b looking west**



**Figure 341. Photo point a34 looking upstream**



**Figure 342. Photo point a34 looking west**



Figure 343. Aerial view of washe a35w3 with photo points



**Figure 344. Photo point a35w3 looking a35w3 stream**



**Figure 345. Photo point a35w3 looking west**



Figure 346. Aerial view of washes a35w2a and a35w2 with photo points



**Figure 347. Photo point a35w2a looking east**



**Figure 348. Photo point a35w2a looking downstream**  
*Channel into this bridge in Mexico from north and east along road bed*





**Figure 349. Photo point a35w2 looking upstream**



**Figure 350. Photo point a35w2 looking west**

Channel flows west in road bed .



Figure 351. Aerial view of washes a35w1 and a35 with photo points



**Figure 352. Photo point a35w1 looking east**



**Figure 353. Photo point a35w1 looking upstream**



**Figure 354. Photo point a35 looking upstream**



**Figure 355. Photo point a35 looking upstream**



Figure 356. Aerial view of washes b1w7 and b1w6 with photo points



**Figure 357. Photo point b1w7 looking west**



**Figure 358. Photo point b1w7 looking downstream**



**Figure 359. Photo point b1w6 looking downstream**



**Figure 360. Photo point b1w6 looking west**



Figure 361. Aerial view of washes b1w5 and b1w4 with photo points





**Figure 362. Photo point b1w5 looking upstream**



**Figure 363. Photo point b1w5 looking west**



**Figure 364. Photo point b1w4 looking downstream**



**Figure 365. Photo point b1w4 looking west**



Figure 366. Aerial view of washes b1w3 and b1w2b with photo points



**Figure 367. Photo point b1w3 looking upstream**



**Figure 368. Photo point b1w3 looking west**



**Figure 369. Photo point b1w2b looking east**

*Multiple small channels disperse upstream, then concentrate on road.*

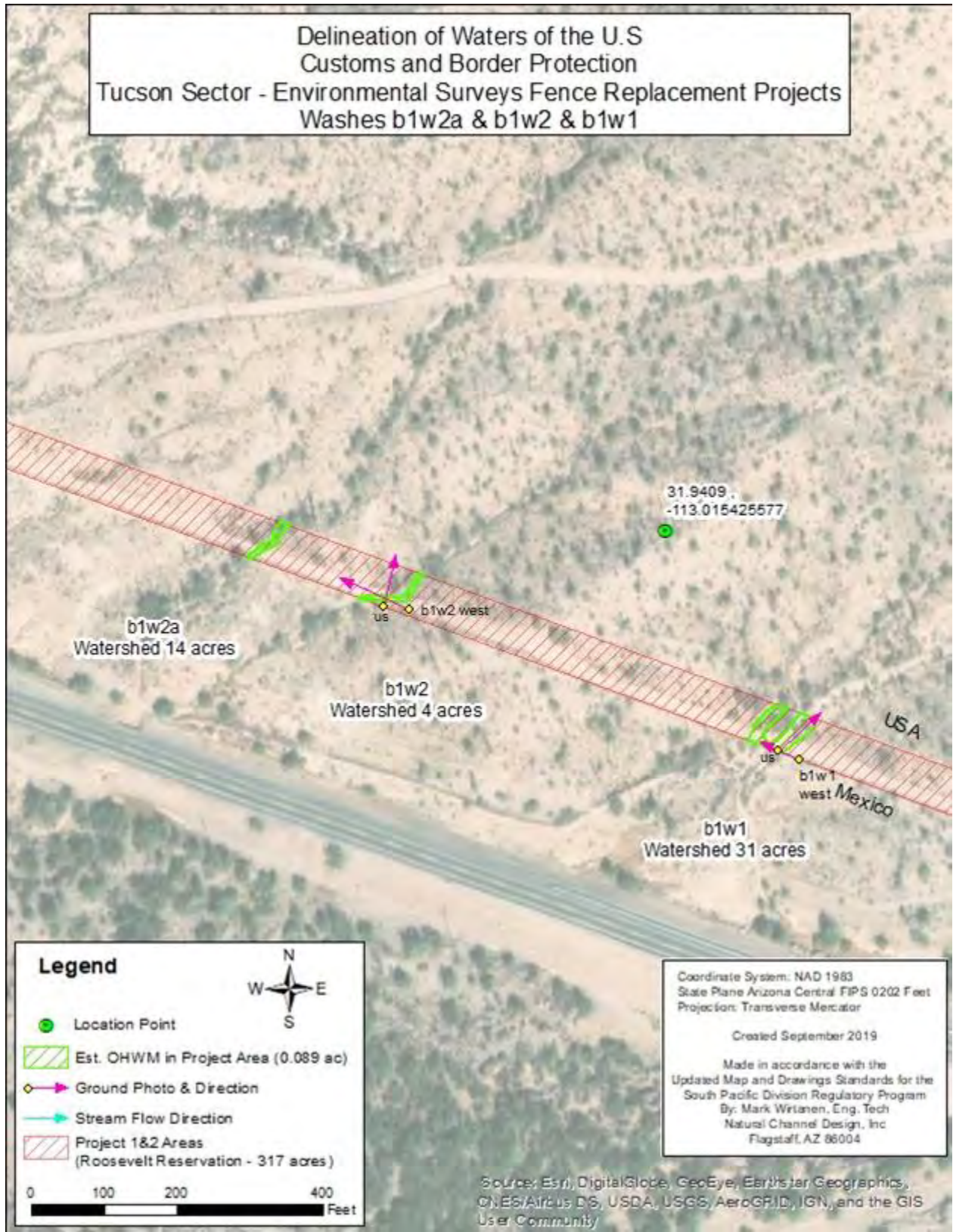


Figure 370. Aerial view of washes b1w2a, b1w2, and b1w1 with photo points



**Figure 371. Photo point b1w2 looking upstream**



**Figure 372. Photo point b1w2 looking west**



**Figure 373. Photo point b1w1 looking upstream**



**Figure 374. Photo point b1w1 looking west**





Figure 375. Aerial view of washes b1, b1c, b1b, b1a with photo points



**Figure 376. Photo point b1 looking east**



**Figure 377. Photo point b1a looking downstream**



**Figure 378. Photo point b1a looking west**



Figure 379. Aerial view of washes b2w1 and b2 with photo points



**Figure 380. Photo point b2w1 looking west**



**Figure 381. Photo point b2w1 looking downstream**



**Figure 382. Photo point b2 looking upstream**



**Figure 383. Photo point b2 looking west**

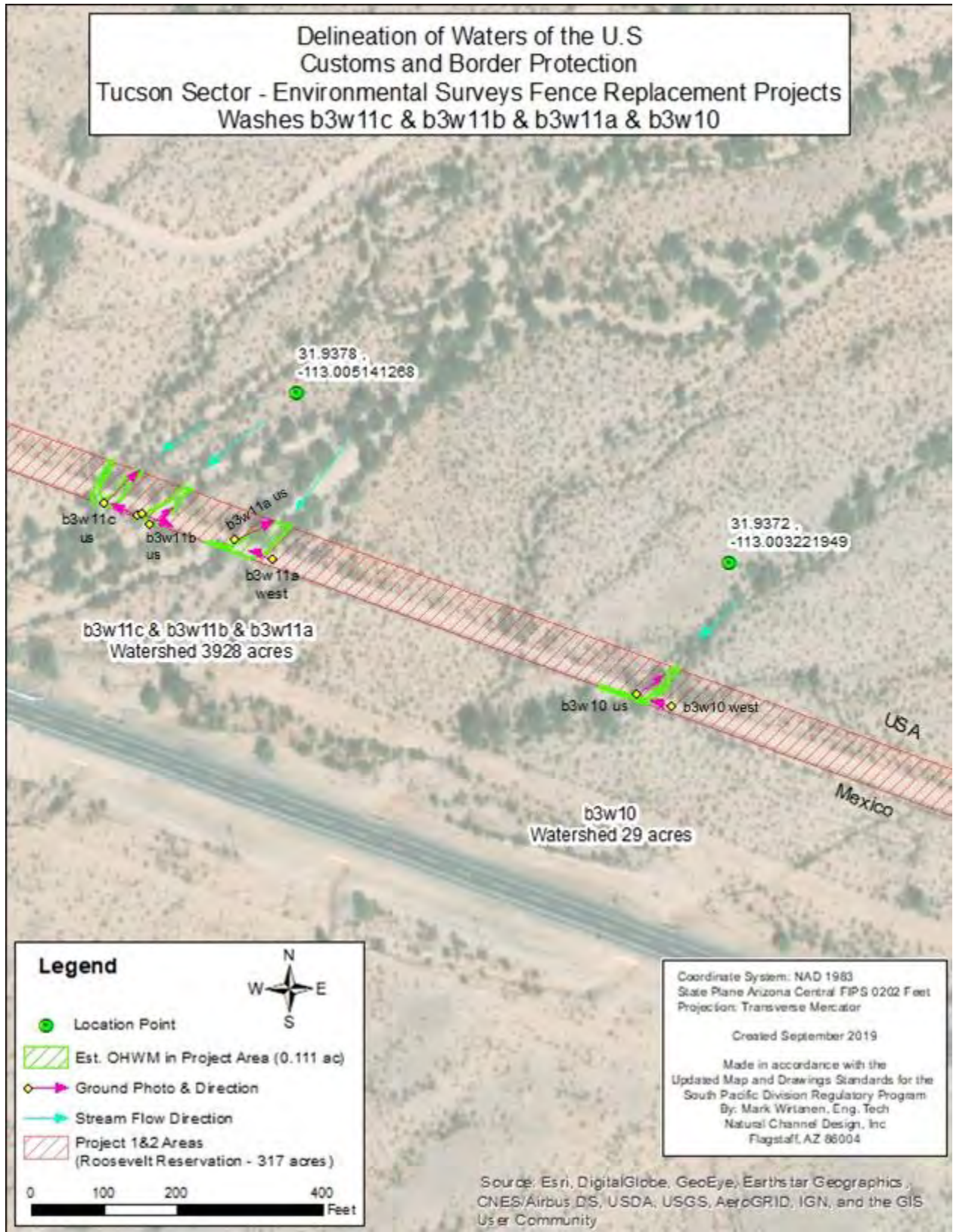


Figure 384. Aerial view of washes b3w11c, b3w11b, b3w11a, and b3w10 with photo points



**Figure 385. Photo point b3w11c looking upstream**



**Figure 386. Photo point b3w11c looking west**





**Figure 387. Photo point b3w11b looking east**



**Figure 388. Photo point b3w11b looking upstream**



**Figure 389. Photo point b3w11a looking upstream**



**Figure 390. Photo point b3w11a looking west**



**Figure 391. Photo point b3w10 looking upstream**



**Figure 392. Photo point b3w10 looking west**



Figure 393. Aerial view of washes b3w9 and b3w8 with photo points



**Figure 394. Photo point b3w9 looking upstream**



**Figure 395. Photo point b3w9 looking west**



**Figure 396. Photo point b3w8 looking upstream**



**Figure 397. Photo point b3w8 looking west**



Figure 398. Aerial view of washes b3w7 and b3w6 with photo points



**Figure 399. Photo point b3w7 looking downstream**



**Figure 400. Photo point 3w7 looking west**





**Figure 401. Photo point b3w7 looking east**



Figure 402. Aerial view of washes b3w6, b3w5, and b3w4 with photo points



**Figure 403. Photo point b3w6 looking upstream**



**Figure 404. Photo point b3w6 looking west**



**Figure 405. Photo point b3w5 looking upstream**



**Figure 406. Photo point b3w5 looking west**



**Figure 407. Photo point b3w4 looking upstream**  
*There are several small channels crossing through the grasses.*



**Figure 408. Photo point b3w4 looking west**



Figure 409. Aerial view of washes b3w3a and b3w3 with photo points



**Figure 410. Photo point b3w3 looking downstream**



**Figure 411. Photo point b3w3 looking west**

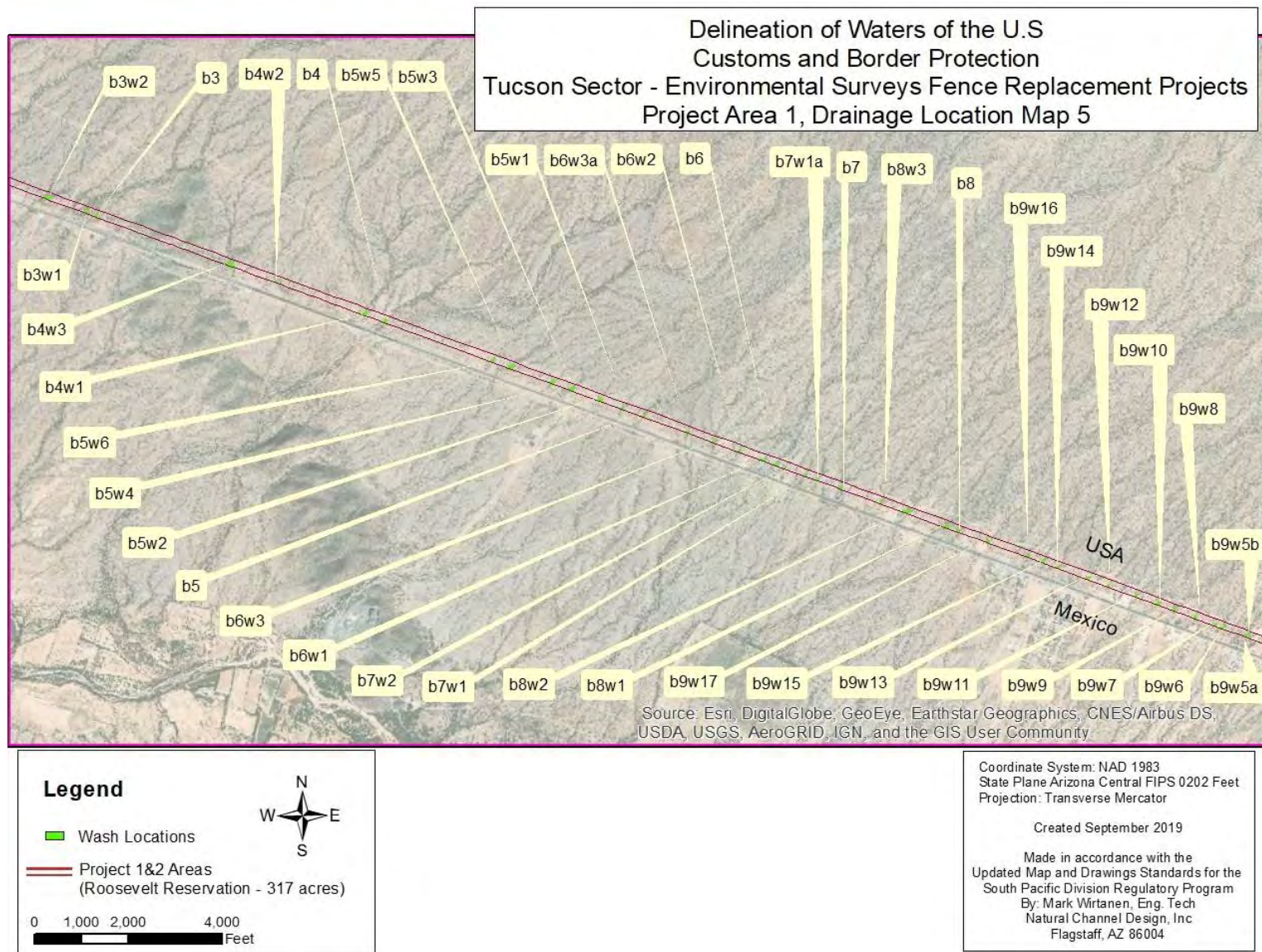


Figure 412. Project Area 1, Location Map 5



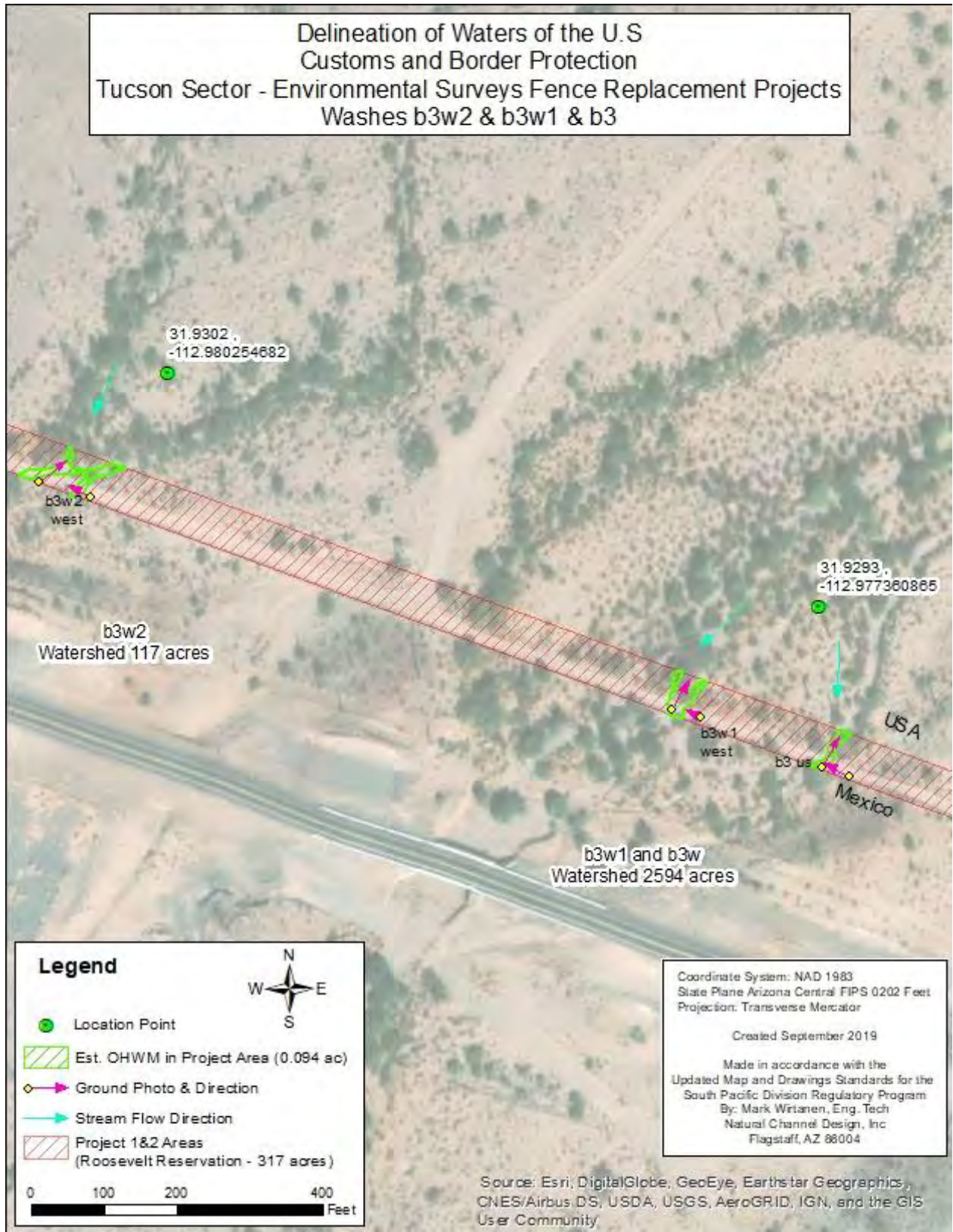


Figure 413. Aerial view of washes b3w2, b3w1, and b3 with photo points.



**Figure 414. Photo point b3w2 looking upstream**



**Figure 415. Photo point b3w2 looking west**



**Figure 416. Photo point b3w1 looking upstream**



**Figure 417. Photo point b3w1 looking west**



**Figure 418. Photo point b3 looking upstream**



**Figure 419. Photo point b3 looking west**

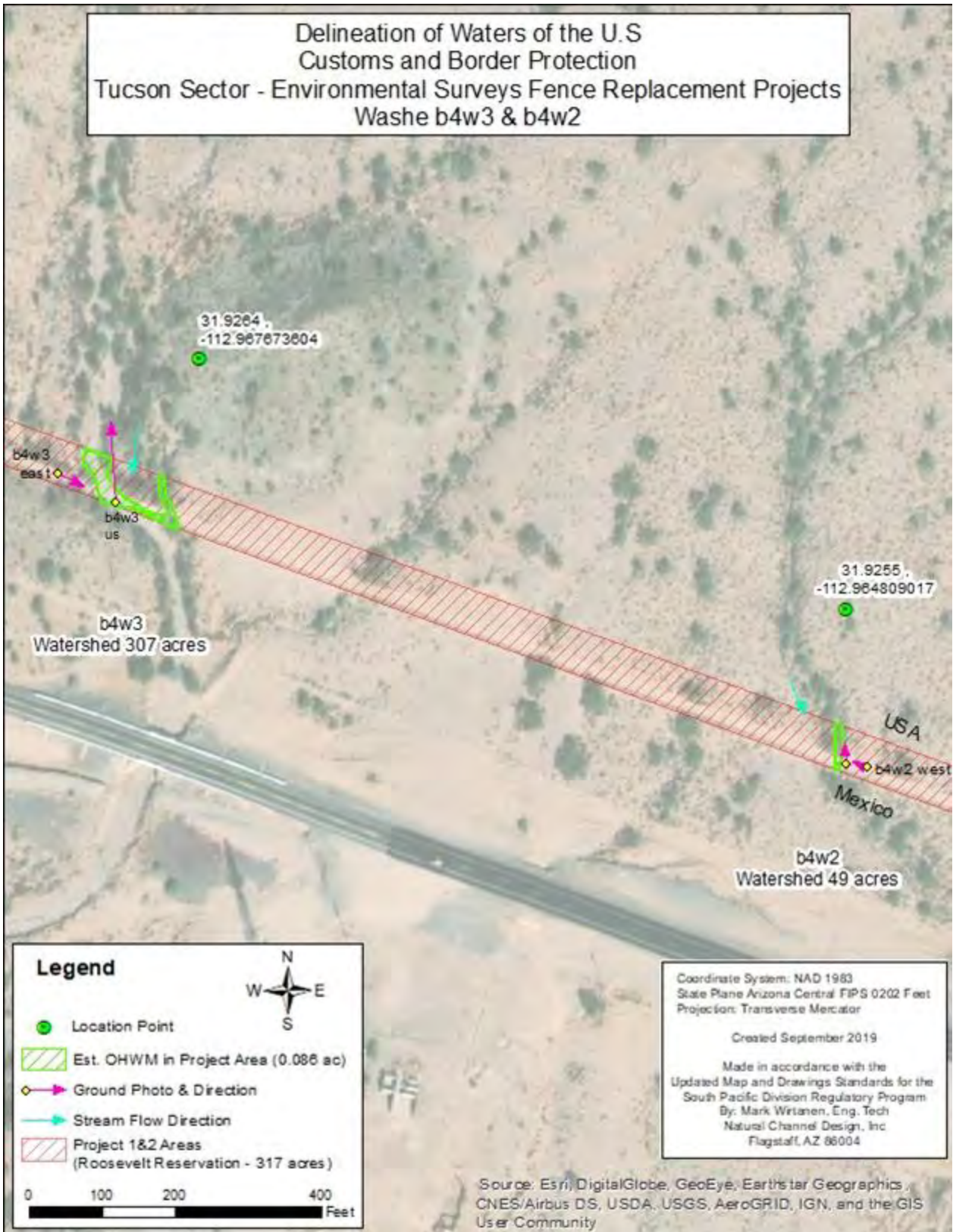


Figure 420. Aerial view of washes b4w3 and b4w2 with photo points



**Figure 421. Photo point b4w3 looking east**



**Figure 422. Photo point b4w3 looking upstream**



**Figure 423. Photo point b4w2 looking upstream**



**Figure 424. Photo point b4w2 looking west**



Figure 425. Aerial view of washes b4w1 and b4 with photo points





**Figure 426. Photo point b4w1 looking west**



**Figure 427. Photo point b4w1 looking downstream**



**Figure 428. Photo point b4 looking upstream**



**Figure 429. Photo point b4 looking west**



Figure 430. Aerial view of washes b5w6 and b5w5 with photo points



**Figure 431. Photo point b5w6 looking upstream**



**Figure 432. Photo point b5w6 looking west**



**Figure 433. Photo point b5w5 looking upstream**



**Figure 434. Photo point b5w5 looking downstream**

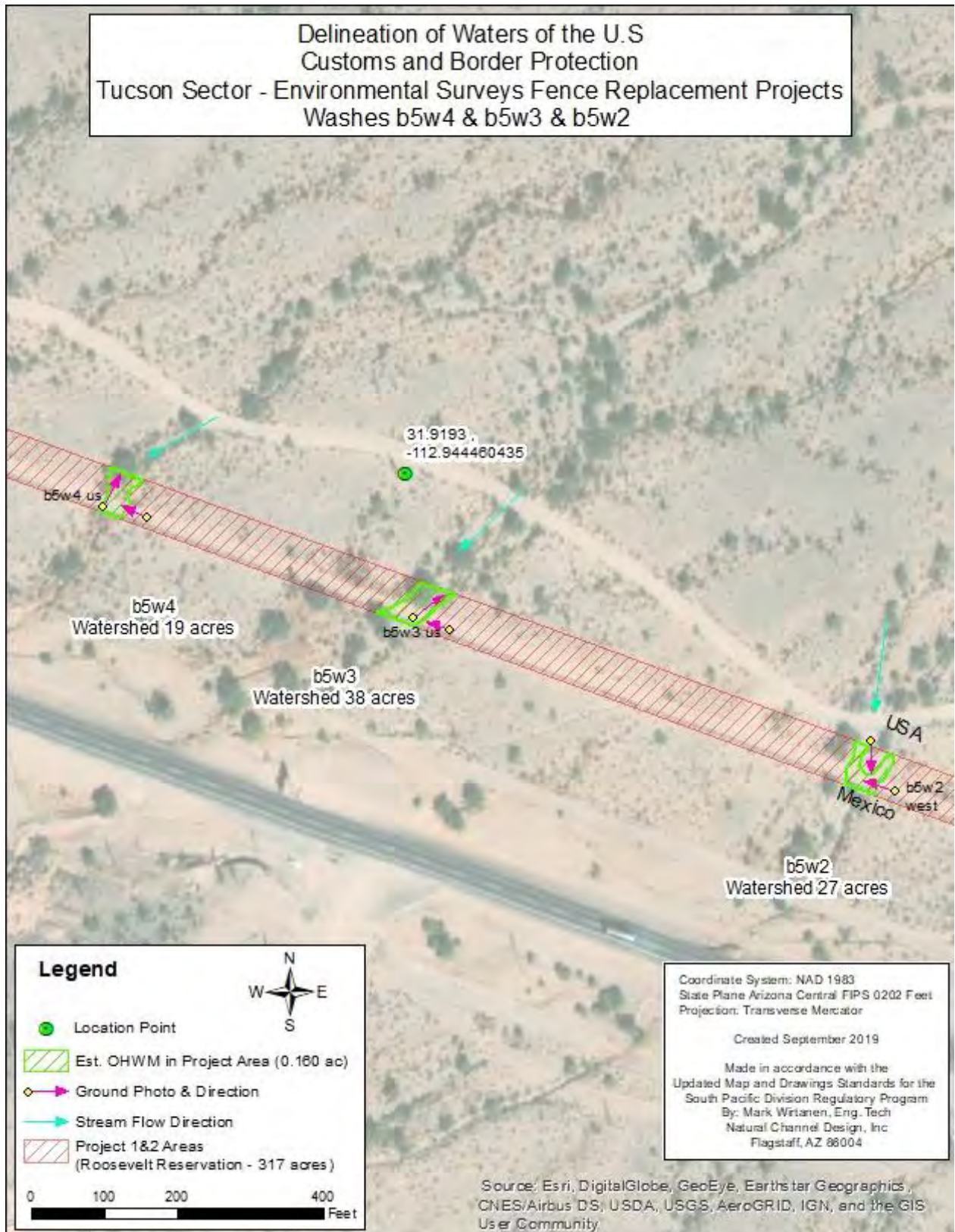


Figure 435. Aerial view of washes b5w4, b5w3, and b5w2 with photo points



**Figure 436. Photo point b5w4 looking upstream**



**Figure 437. Photo point b5w4 looking west  
Sacaton grass in channel bed.**



**Figure 438. Photo point b5w3 looking upstream**



**Figure 439. Photo point b5w3 looking west**





**Figure 440. Photo point b5w2 looking downstream**



**Figure 441. Photo point b5w2 looking west**

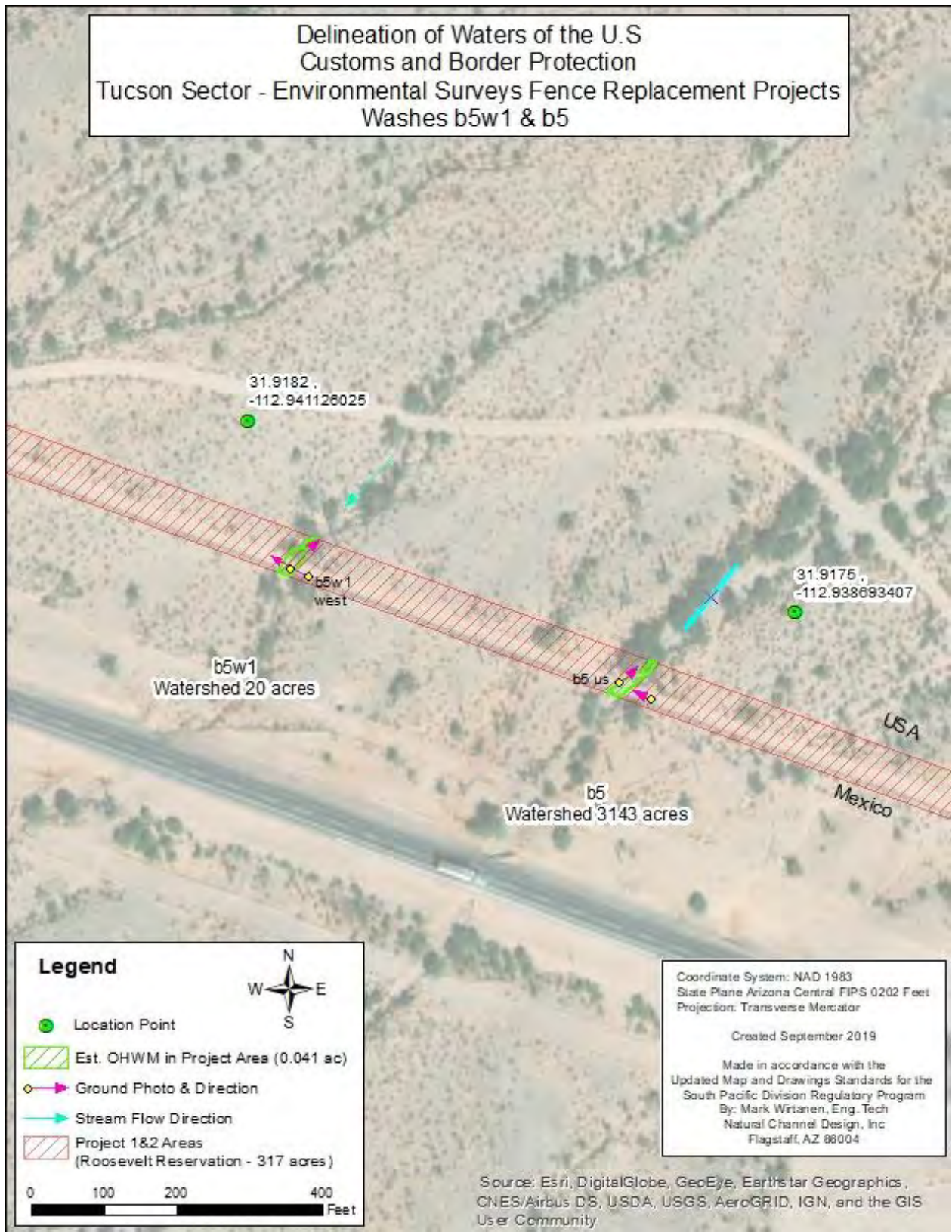


Figure 442. Aerial view of washes b5w1 and b5 with photo points.



**Figure 443. Photo point b5w1 looking upstream**



**Figure 444. Photo point b5w1 looking west**



**Figure 445. Photo point b5 looking upstream**



**Figure 446. Photo point b5 looking west**



Figure 447. Aerial view of washes b6w3a, b6w3, and b6w2 with photo points.



**Figure 448. Photo point b6w3 looking upstream**



**Figure 449. Photo point b6w3 looking west**



**Figure 450. Photo point b6w2 looking downstream**



**Figure 451. Photo point b6w2 looking west**



Figure 452. Aerial view of washes b6w1, b6, and b7w2 with photo points





**Figure 453. Photo point b6w1 looking upstream**



**Figure 454. Photo point b6w1 looking west**



Figure 455. Photo point b6 looking west



Figure 456. Photo point b6 looking downstream



**Figure 457. Photo point b7w2 looking upstream**



**Figure 458. Photo point b7w2 looking west**



Figure 459. Aerial view of washes b7w1, b7w1a, and b7 with photo points.



**Figure 460. Photo point b7w1 looking upstream**



**Figure 461. Photo point b7w1 looking west**



**Figure 462. Photo point b7 looking upstream**



**Figure 463. Photo point b7 looking west**



Figure 464. Aerial view of washes b8w3, and b8w2 with photo points.



**Figure 465. Photo point b8w3 looking upstream**



**Figure 466. Photo point b8w3 looking west**





**Figure 467. Photo point b8w2 looking downstream**



**Figure 468. Photo point b8w2 looking west**

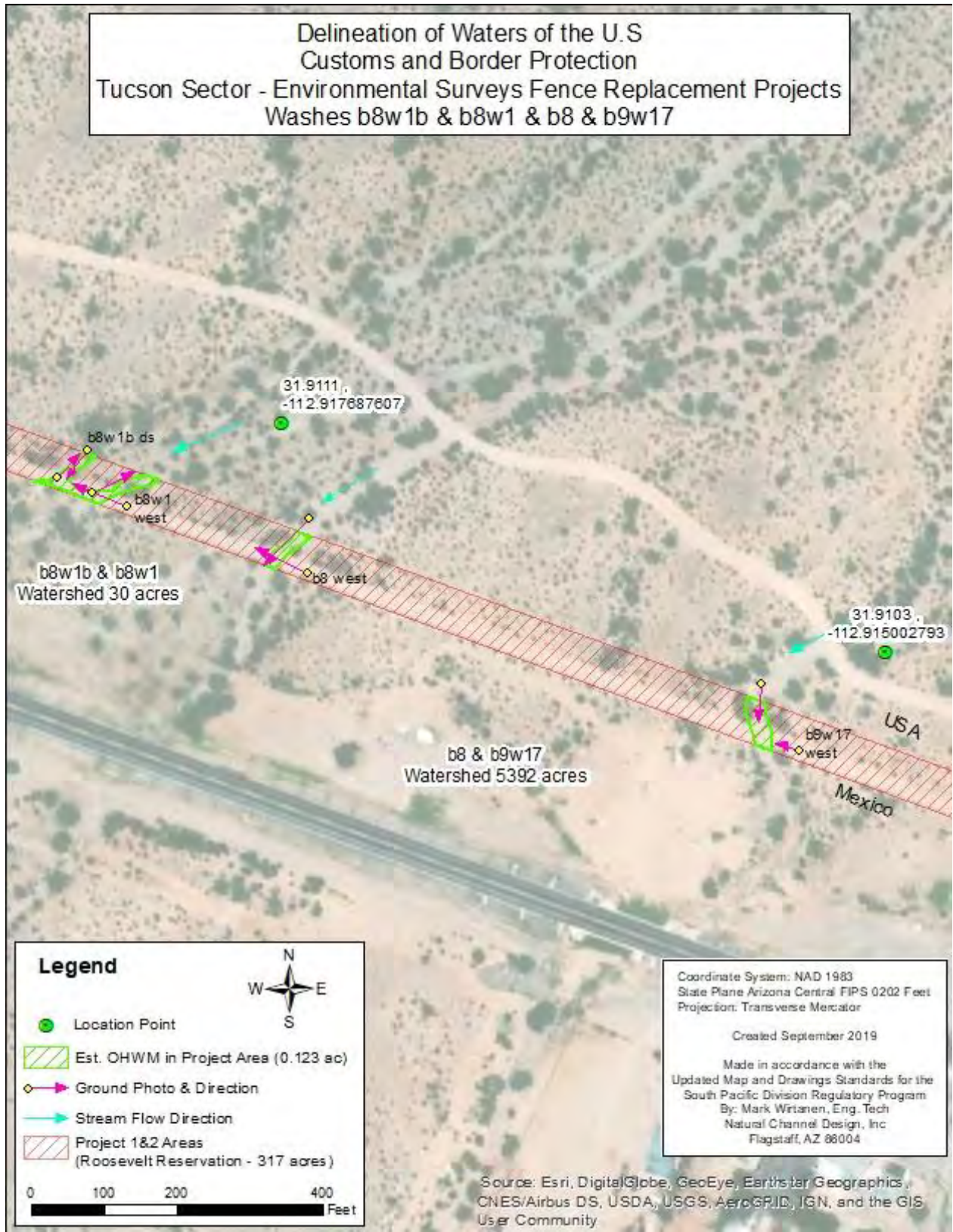


Figure 469. Aerial view of washes b8w1b, b8w1, b8, and b8w17 with photo points



**Figure 470. Photo point b8w1b looking upstream**



**Figure 471. Photo point b8w1b looking downstream**



**Figure 472. Photo point b8w1 looking upstream**



**Figure 473. Photo point b8w1 looking west**



**Figure 474. Photo point b8 looking downstream**



**Figure 475. Photo point b8 looking west**



**Figure 476. Photo point b9w17 looking downstream**  
There is a road on the left side of the channel



**Figure 477. Photo point b9w17 looking west**



Figure 478. Aerial view of washes b9w16, b9w15, and b9w14 with photo points



**Figure 479. Photo point b9w16 looking downstream**



**Figure 480. Photo point b9w16 looking west**





**Figure 481. Photo point b9w15 looking downstream**



**Figure 482. Photo point b9w15 looking west**



**Figure 483. Photo point b9w14 looking upstream**



**Figure 484. Photo point b9w14 looking west**



Figure 485. Aerial view of washes b9w13, b9w12, and b9w11 with photo points



**Figure 486. Photo point b9w13 looking west**



**Figure 487. Photo point b9w13 looking downstream**



**Figure 488. Photo point b9w12 looking downstream**



**Figure 489. Photo point b9w12 looking west**



**Figure 490. Photo point b9w11 looking west**



**Figure 491. Photo point b9w11 looking downstream**



Figure 492. Aerial view of washes b9w10, b9w9, and b9w8 with photo points



**Figure 493. Photo point b9w10 looking upstream**



**Figure 494. Photo point b9w10 looking west**





**Figure 495. Photo point b9w9 looking upstream**



**Figure 496. Photo point b9w9 looking west**



**Figure 497. Photo point b9w8 looking upstream**



**Figure 498. Photo point b9w8 looking west**



Figure 499. Aerial view of washes b9w7, b9w6, b9w5b, and b9w5a with photo points



**Figure 500. Photo point b9w7 looking upstream**



**Figure 501. Photo point b9w7 looking downstream**



**Figure 502. Photo point b9w6 looking upstream**



**Figure 503. Photo point b9w6 looking west**



**Figure 504. Photo point b9w5b looking downstream**



**Figure 505. Photo point b9w5b looking upstream**



**Figure 506. Photo point b9w5a looking upstream**



**Figure 507. Photo point b9w5a looking west**

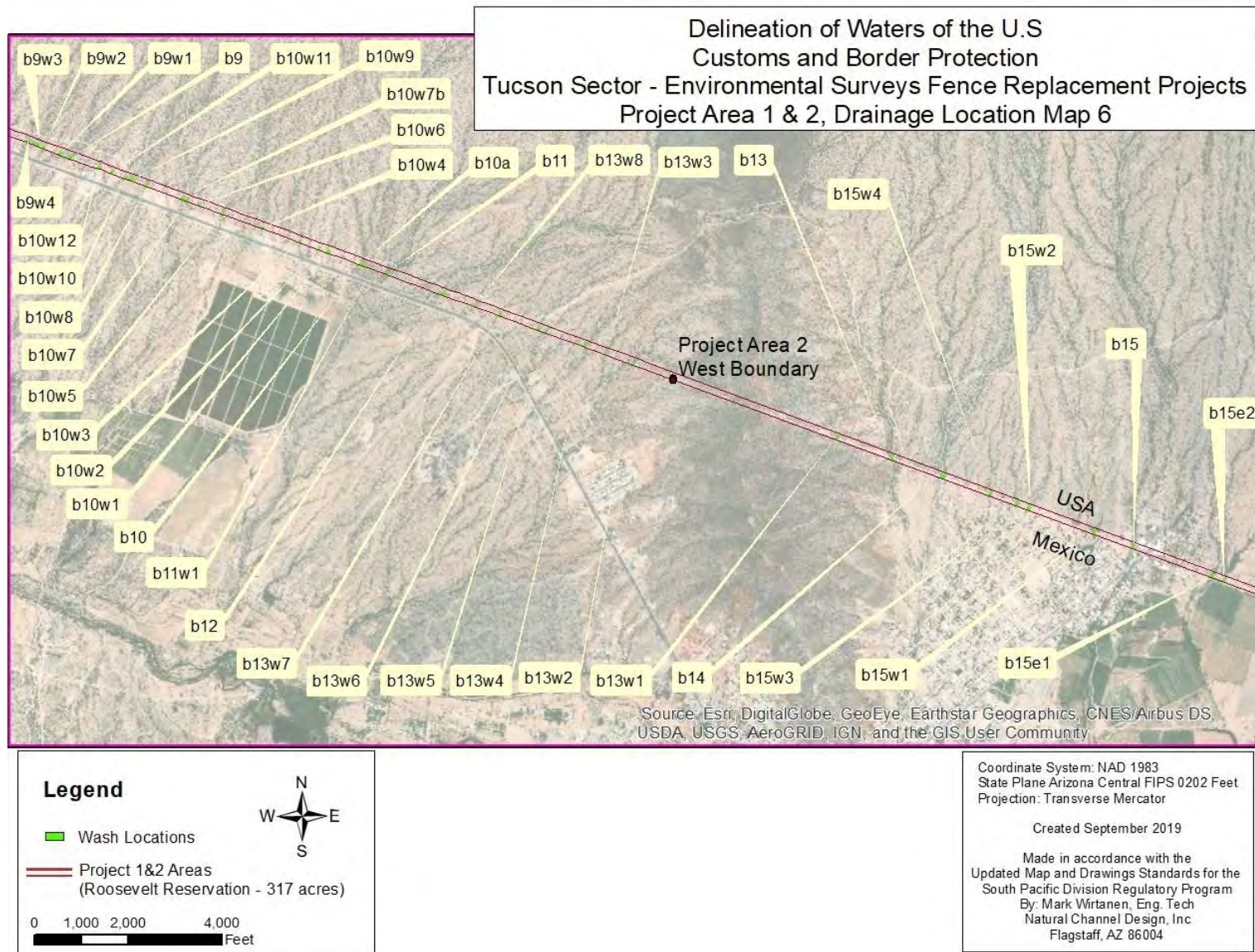


Figure 508. Project Area 1 & 2, Location Map 6



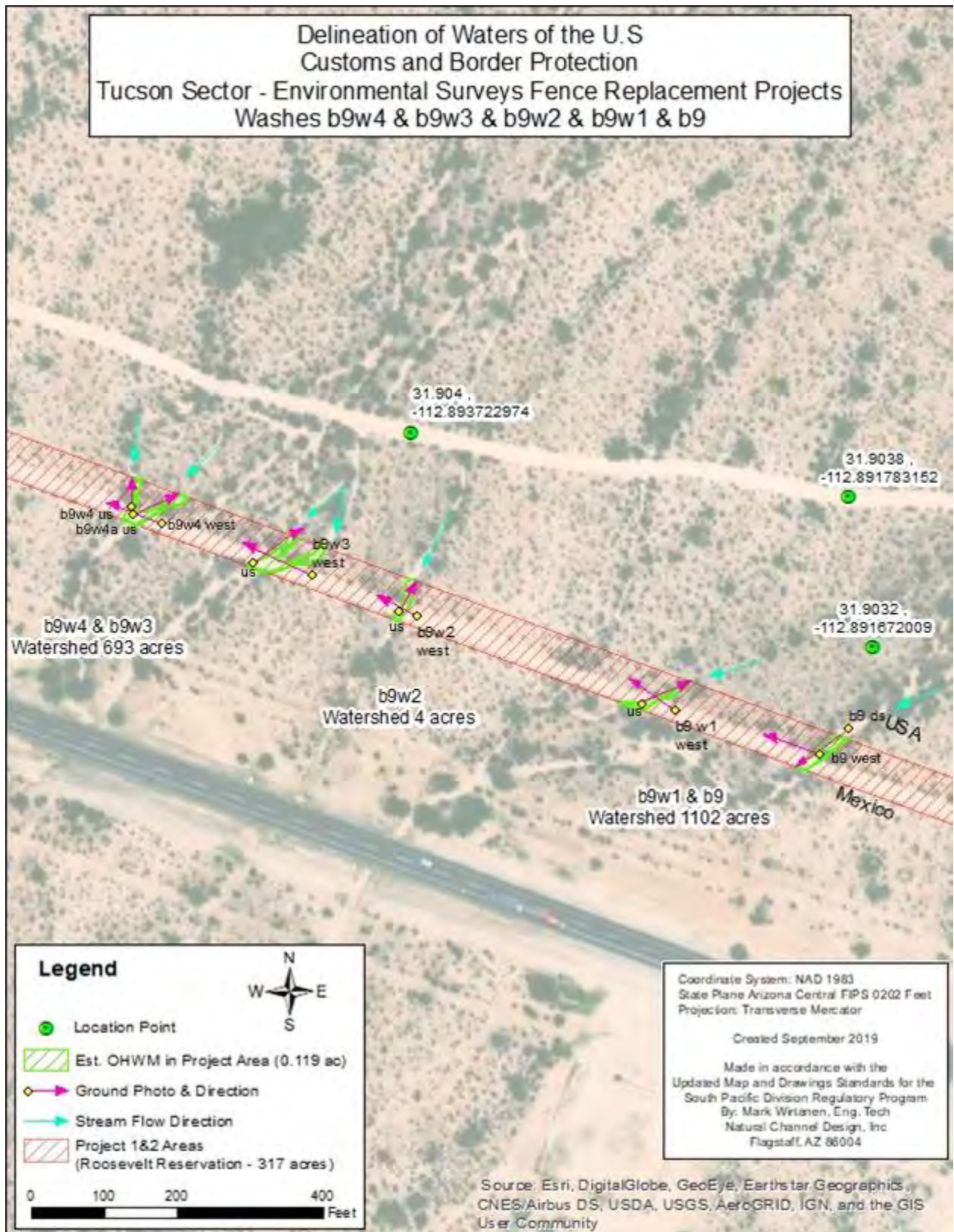


Figure 509. Aerial view of washes b9w4, b9w3, b9w2, b9w1, and b9 with photo points.



**Figure 510. Photo point b9w4 looking upstream**



**Figure 511. Photo point b9w4a looking upstream**



**Figure 512. Photo point b9w4 looking west**



**Figure 513. Photo point b9w3 looking upstream**



**Figure 514. Photo point b9w3 looking west**



**Figure 515. Photo point b9w2 looking upstream**



**Figure 516. Photo point b9w2 looking west**



**Figure 517. Photo point b9w1 looking upstream**



**Figure 518. Photo point b9w1 looking west**



**Figure 519. Photo point b9 looking west**



**Figure 520. Photo point b9 looking downstream**

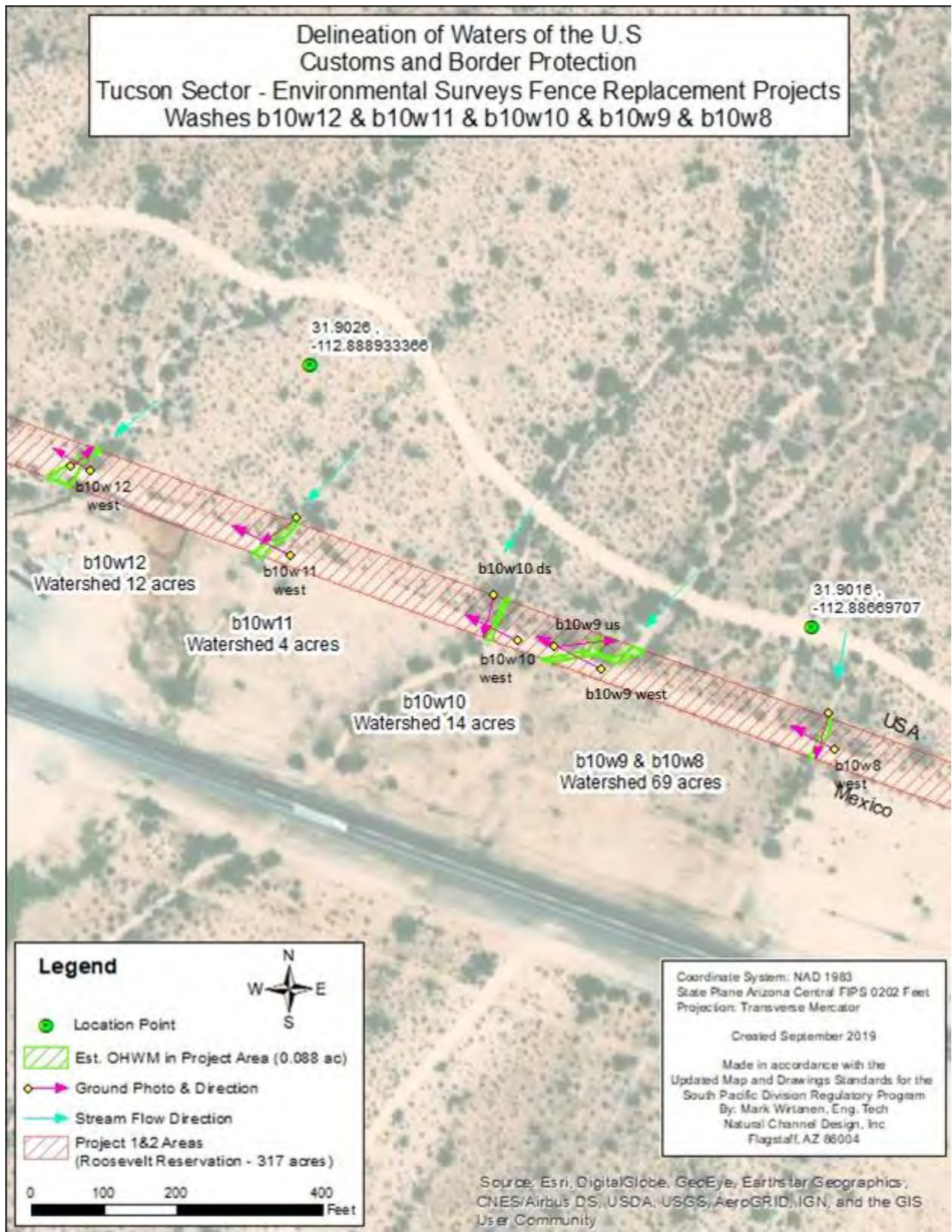


Figure 521. Aerial view of washes b10w12, b10w11, b10w10, b10w9, and b10w8 with photo points





**Figure 522. Photo point b10w12 looking upstream**



**Figure 523. Photo point b10w12 looking west**



**Figure 524. Photo point b10w11 looking west**



**Figure 525. Photo point b10w11 looking downstream**



**Figure 526. Photo point b10w10 looking downstream**



**Figure 527. Photo point b10w10 looking west**



**Figure 528. Photo point b10w9 looking upstream**



**Figure 529. Photo point b10w9 looking west**



**Figure 530. Photo point b10w8 looking downstream**



**Figure 531. Photo point b10w8 looking west**

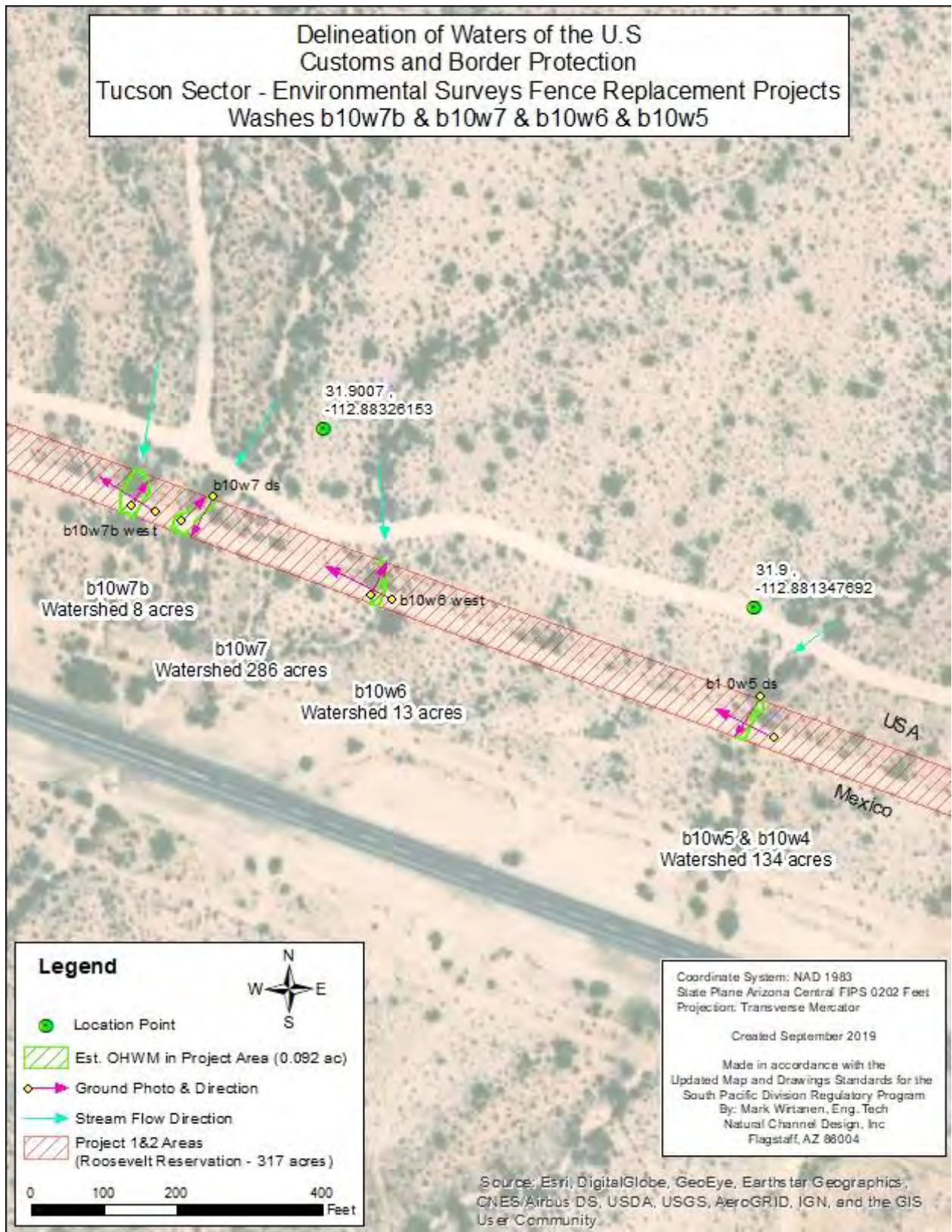


Figure 532. Aerial view of washes b10w7b, b10w7, b10w6, and b10w5, with photo points



**Figure 533. Photo point b10w7b looking upstream**



**Figure 534. Photo point b10w7b looking west**



**Figure 535. Photo point b10w7 looking upstream**



**Figure 536. Photo point b10w7 looking downstream**







**Figure 539. Photo point b10w5 looking downstream**



**Figure 540. Photo point b10w5 looking west**

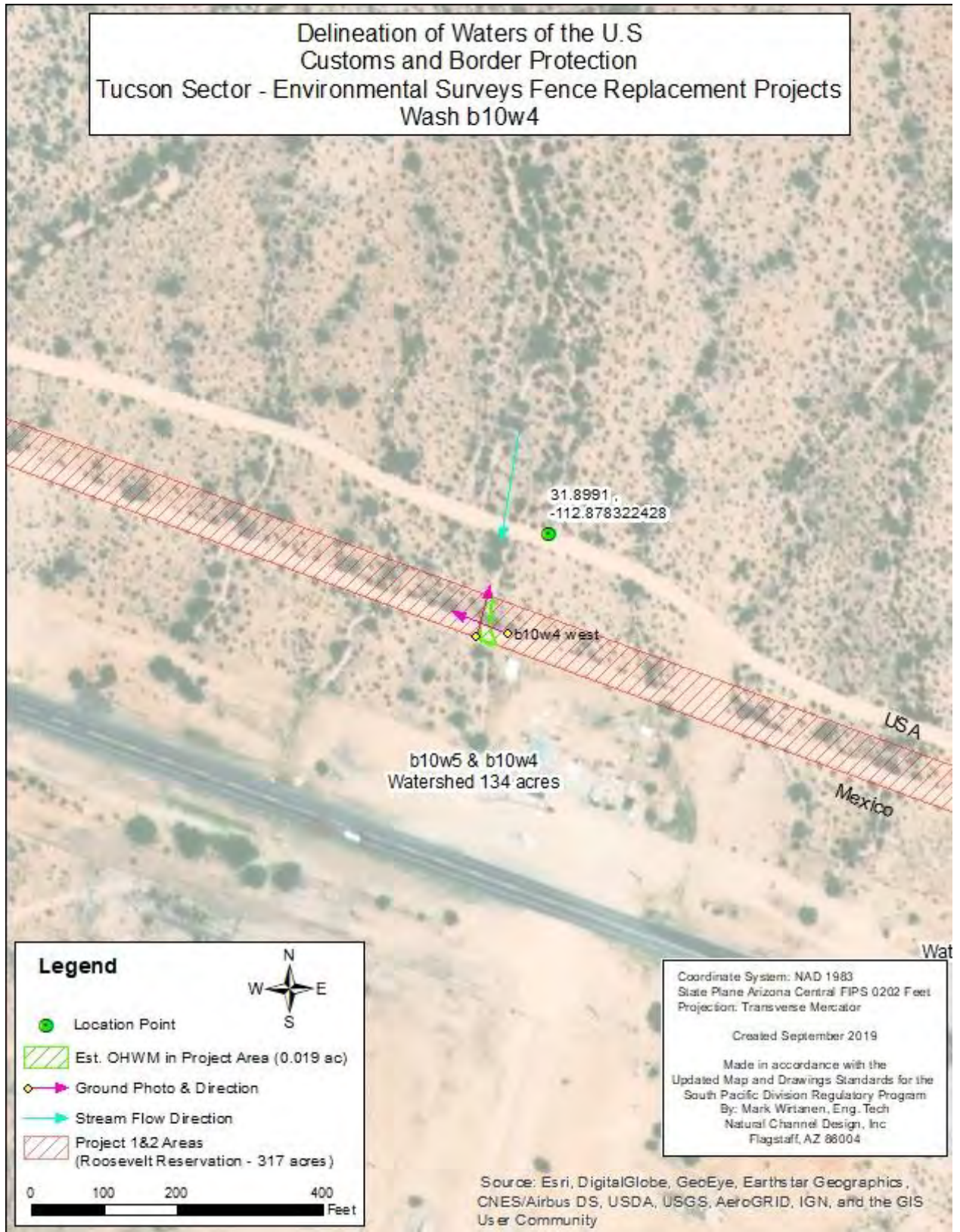


Figure 541. Aerial view of washes b10w4 with photo points



**Figure 542. Photo point b10w4 looking upstream**



**Figure 543. Photo point b10w4 looking west**

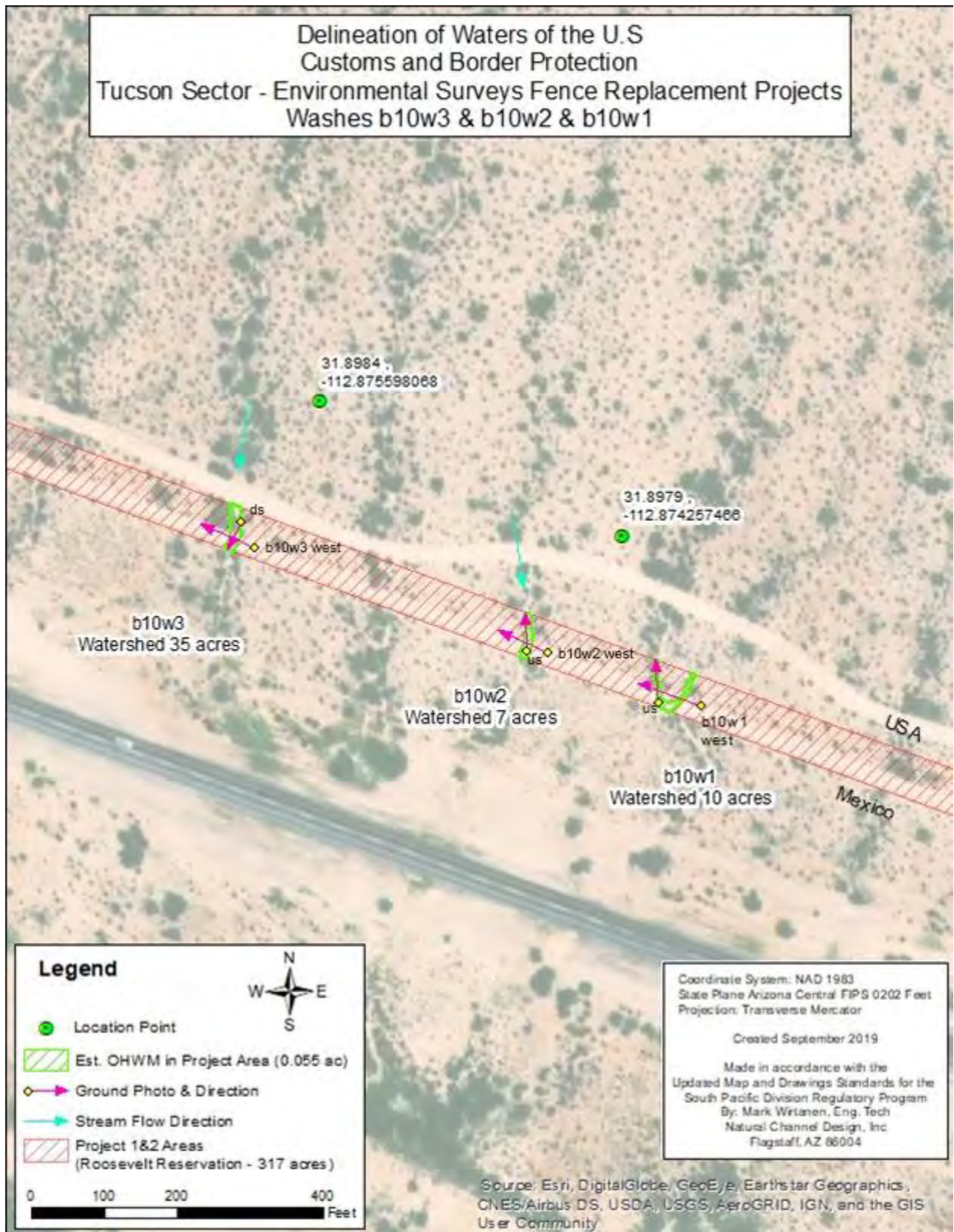


Figure 544. Aerial view of washes b10w3, b10w2, and b10w1 with photo points



**Figure 545. Photo point b10w3 looking downstream**



**Figure 546. Photo point b10w3 looking west**



**Figure 547. Photo point b10w2 looking upstream**



**Figure 548. Photo point b10w2 looking west**



**Figure 549. Photo point b10w1 looking upstream**



**Figure 550. Photo point b10w1 looking west**



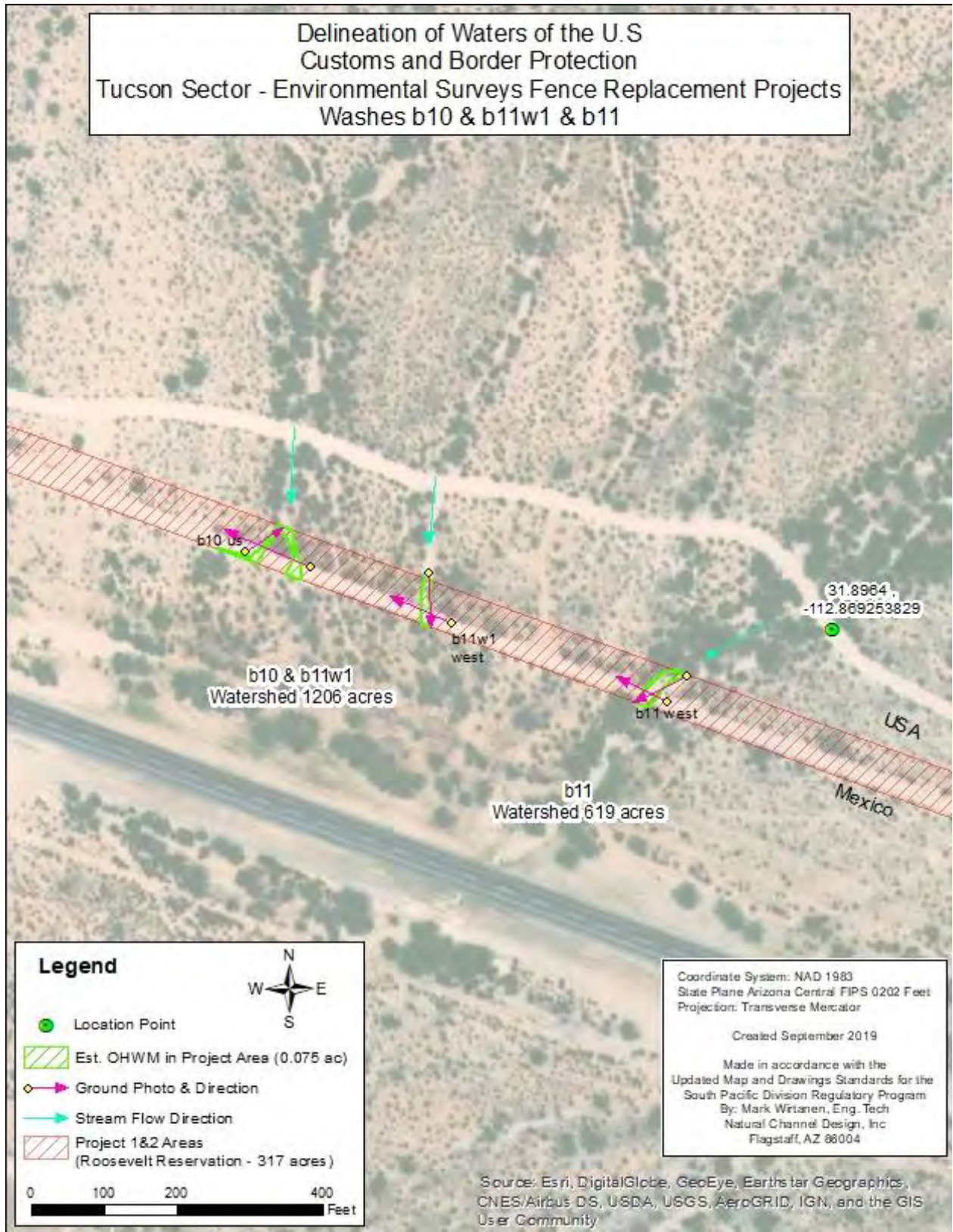


Figure 551. Aerial view of washes b10, b11w1, and b11 with photo points



**Figure 552. Photo point b10 looking upstream**



**Figure 553. Photo point b10 looking west**



**Figure 554. Photo point b11w1 looking downstream**



**Figure 555. Photo point b11w1 looking west**



**Figure 556. Photo point b11 looking west**



**Figure 557. Photo point b11 looking downstream**



Figure 558. Aerial view of washes b12 and b13w8 with photo points



**Figure 559. Photo point b12 looking downstream**



**Figure 560. Photo point b12 looking west**



**Figure 561. Photo point b13w8 looking upstream**



**Figure 562. Photo point b13w8 looking west**

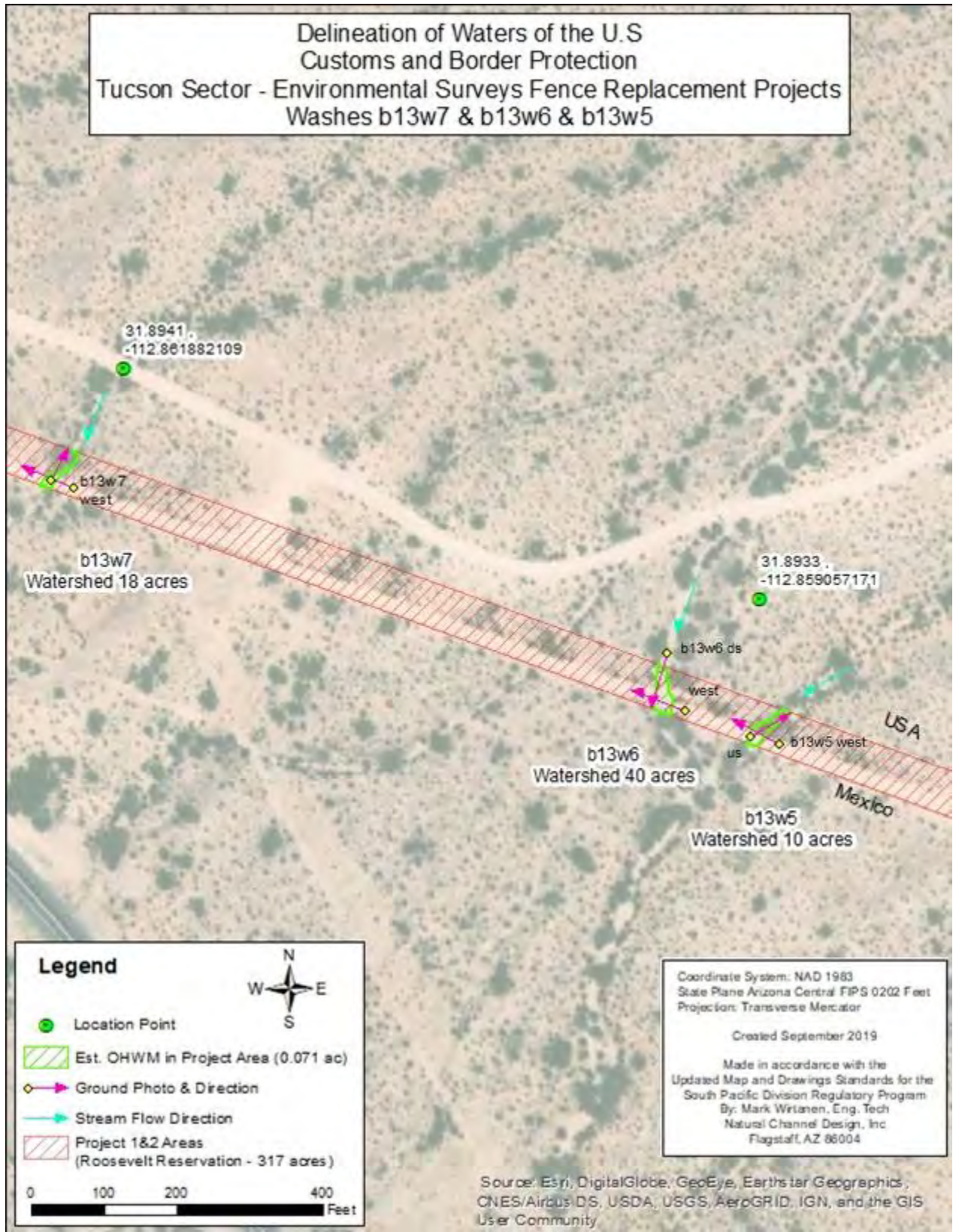


Figure 563. Aerial view of washes b13w7, b13w6, and b13w5 with photo points





**Figure 564. Photo point b13w7 looking upstream**



**Figure 565. Photo point b13w7 looking west**



**Figure 566. Photo point b13w6 looking downstream**



**Figure 567. Photo point b13w6 looking west**



**Figure 568. Photo point b13w5 looking upstream**



**Figure 569. Photo point b13w5 looking west**

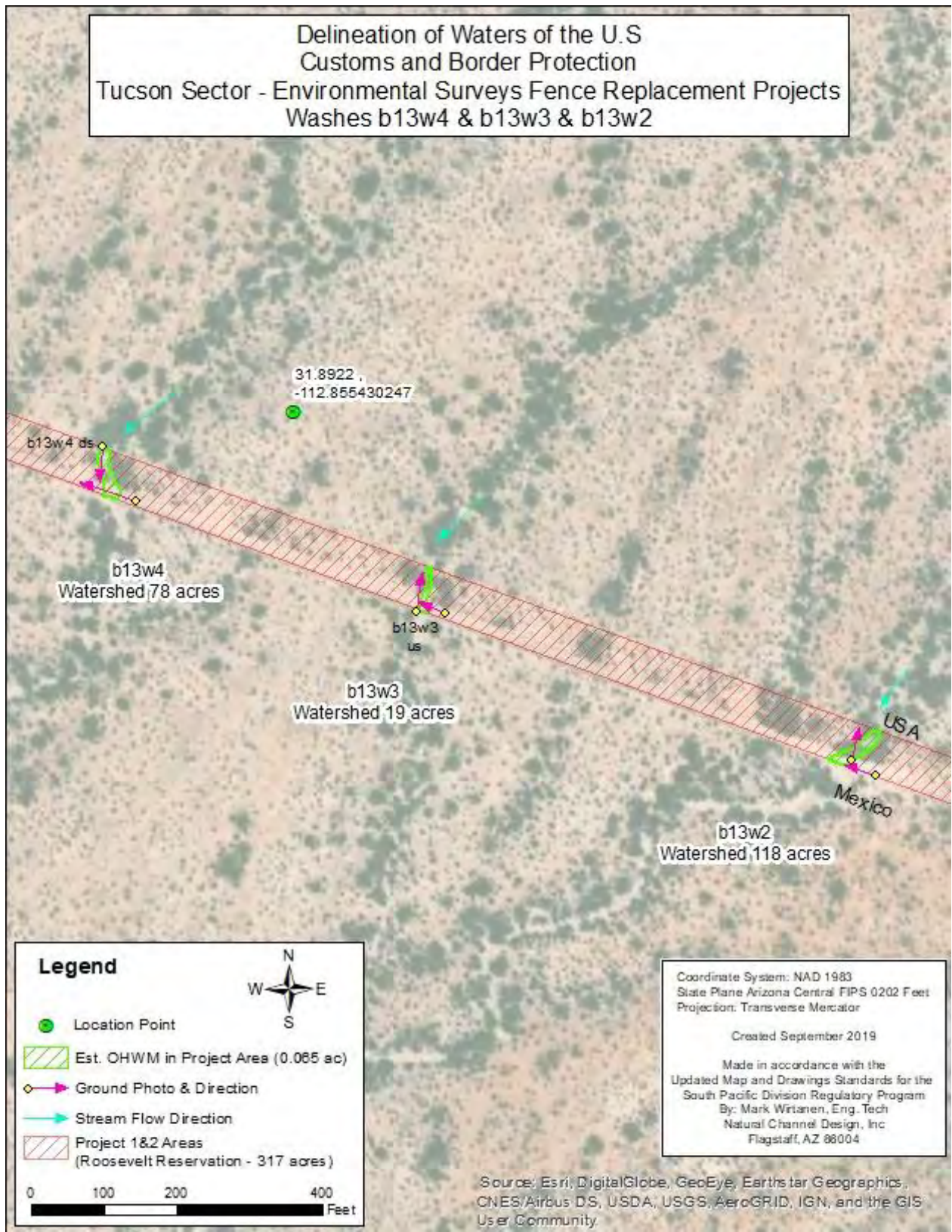


Figure 570. Aerial view of washes b13w4, b13w3, and b13w2 with photo points



**Figure 571. Photo point b13w4 looking downstream**



**Figure 572. Photo point b13w4 looking west**



**Figure 573. Photo point b13w3 looking upstream**



**Figure 574. Photo point b13w3 looking west**



**Figure 575. Photo point b13w2 looking upstream**



**Figure 576. Photo point b13w2 looking west**



Figure 577. Aerial view of washes b13w1 with photo points





**Figure 578. Photo point b13w1 looking upstream**



**Figure 579. Photo point b13w1 looking west**



Figure 580. Aerial view of wash b13 with photo points



**Figure 581. Photo point b13 looking upstream**



**Figure 582. Photo point b13 looking west**



Figure 583. Aerial view of wash b14 with photo points



**Figure 584. Photo point b14 looking downstream**



**Figure 585. Photo point b14 looking west**



Figure 586. Aerial view of washes b15w4, b15w3, and b15w2 with photo points



**Figure 587. Photo point b15w4 looking upstream**



**Figure 588. Photo point b15w4 looking west**



**Figure 589. Photo point b15w3 looking downstream**



**Figure 590. Photo point b15w3 looking west**





**Figure 591. Photo point b15w2 looking downstream**



**Figure 592. Photo point b15w2 looking west**



Figure 593. Aerial view of washes b15w1 and b15 with photo points



**Figure 594. Photo point b15w1 looking upstream**



**Figure 595. Photo point b15w1 looking downstream**



**Figure 596. Photo point b15 looking east**



**Figure 597. Photo point b15 looking upstream**



Figure 598. Aerial view of washes b15e1 and b15e2 with photo points



**Figure 599. Photo point b15e1 looking east**



**Figure 600. Photo point b15e1 looking downstream**



**Figure 601. Photo point b15e2 looking east**



**Figure 602. Photo point b15e2 looking upstream**

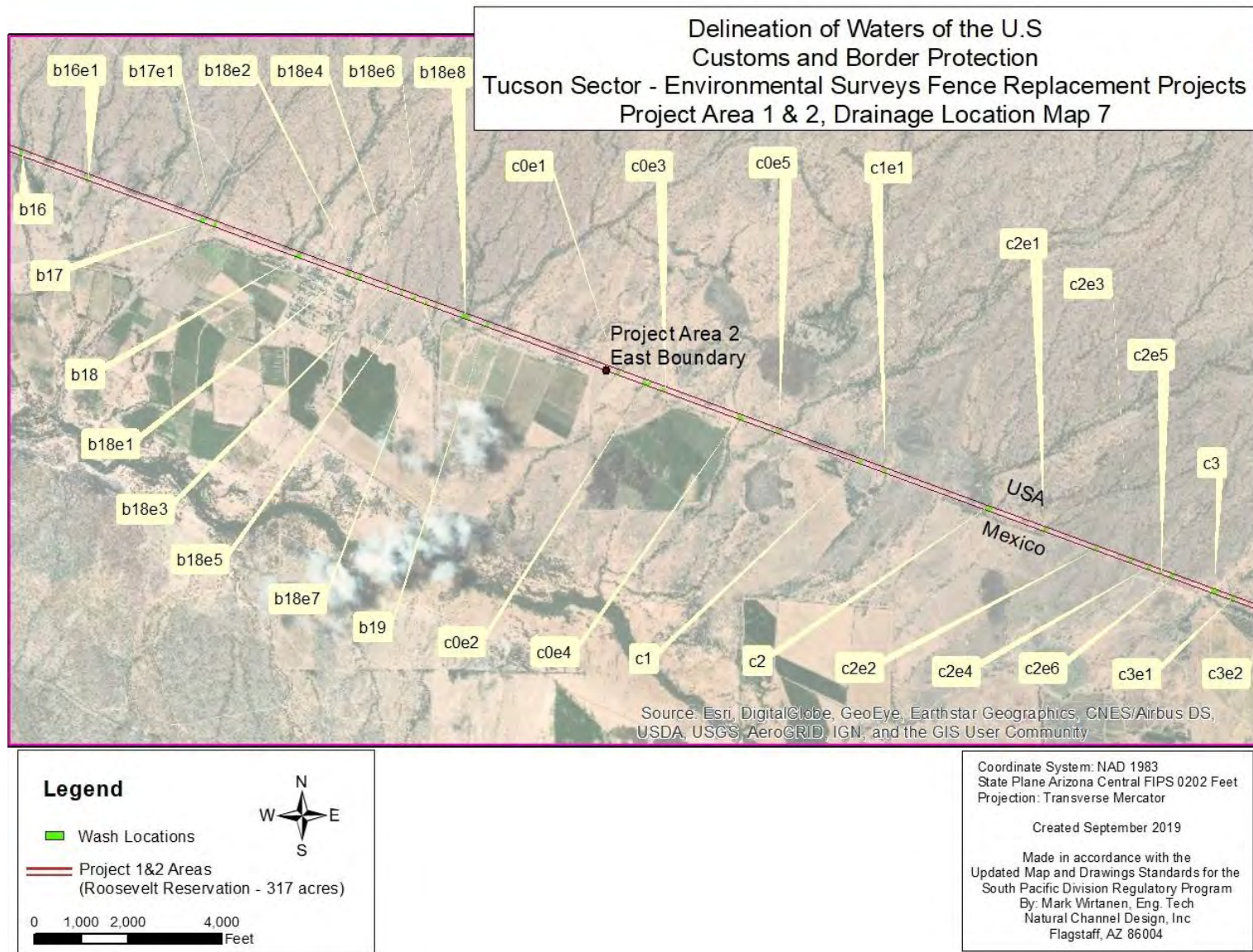


Figure 603. Project Area 1 & 2, Location Map 7





Figure 604. Aerial view of wash b16 with photo points



**Figure 605. Photo point b16 looking east**



**Figure 606. Photo point b16 looking downstream**

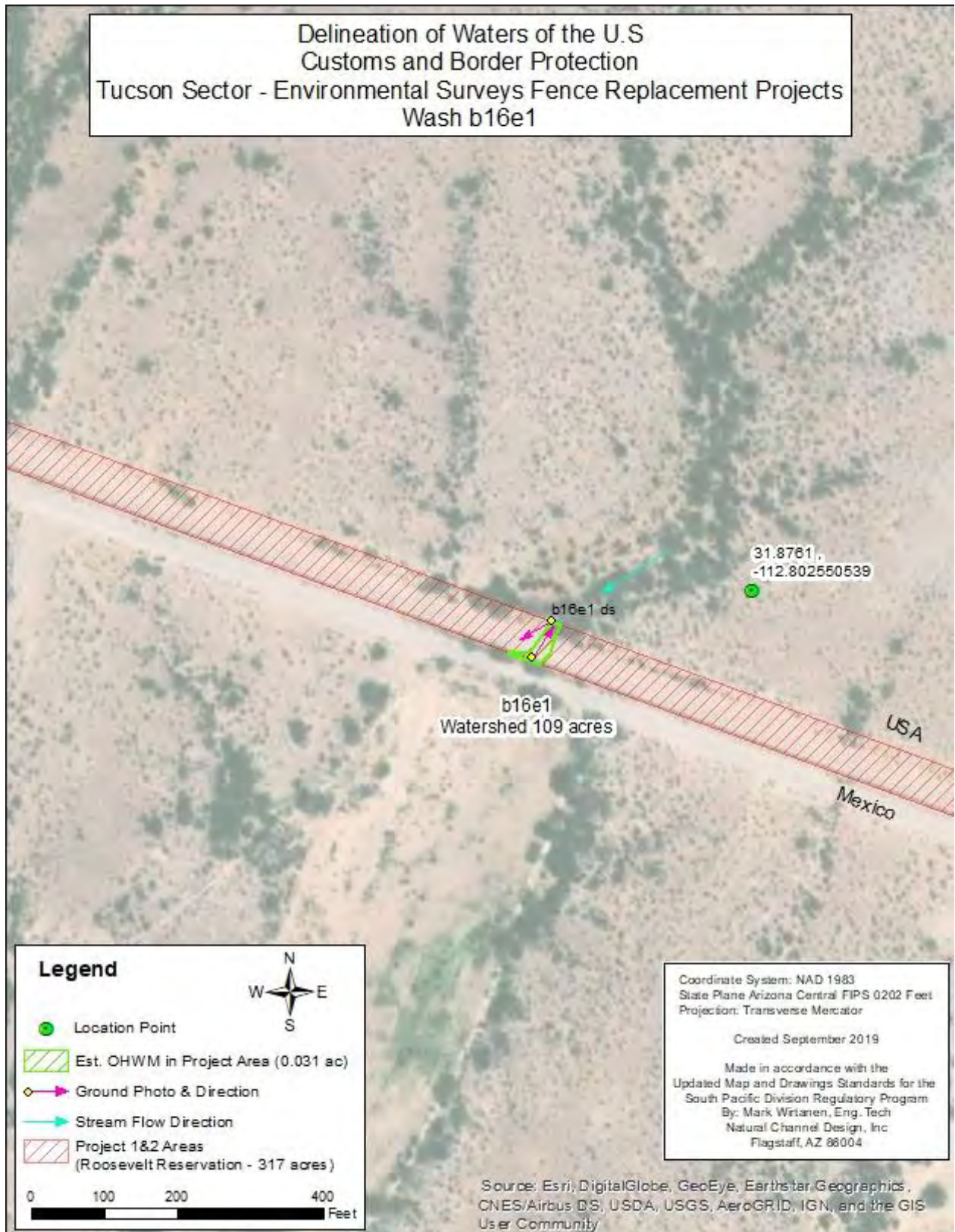


Figure 607. Aerial view of wash b16e1 with photo points.



**Figure 608. Photo point b16e1 looking upstream**



**Figure 609. Photo point b16e1 looking downstream**



Figure 610. Aerial view of washes b17 and b17e1 with photo points



**Figure 611. Photo point b17 looking east**



**Figure 612. Photo point b17 looking downstream**



Figure 613. Photo point b17e1 looking east



Figure 614. Photo point b17e1 looking upstream

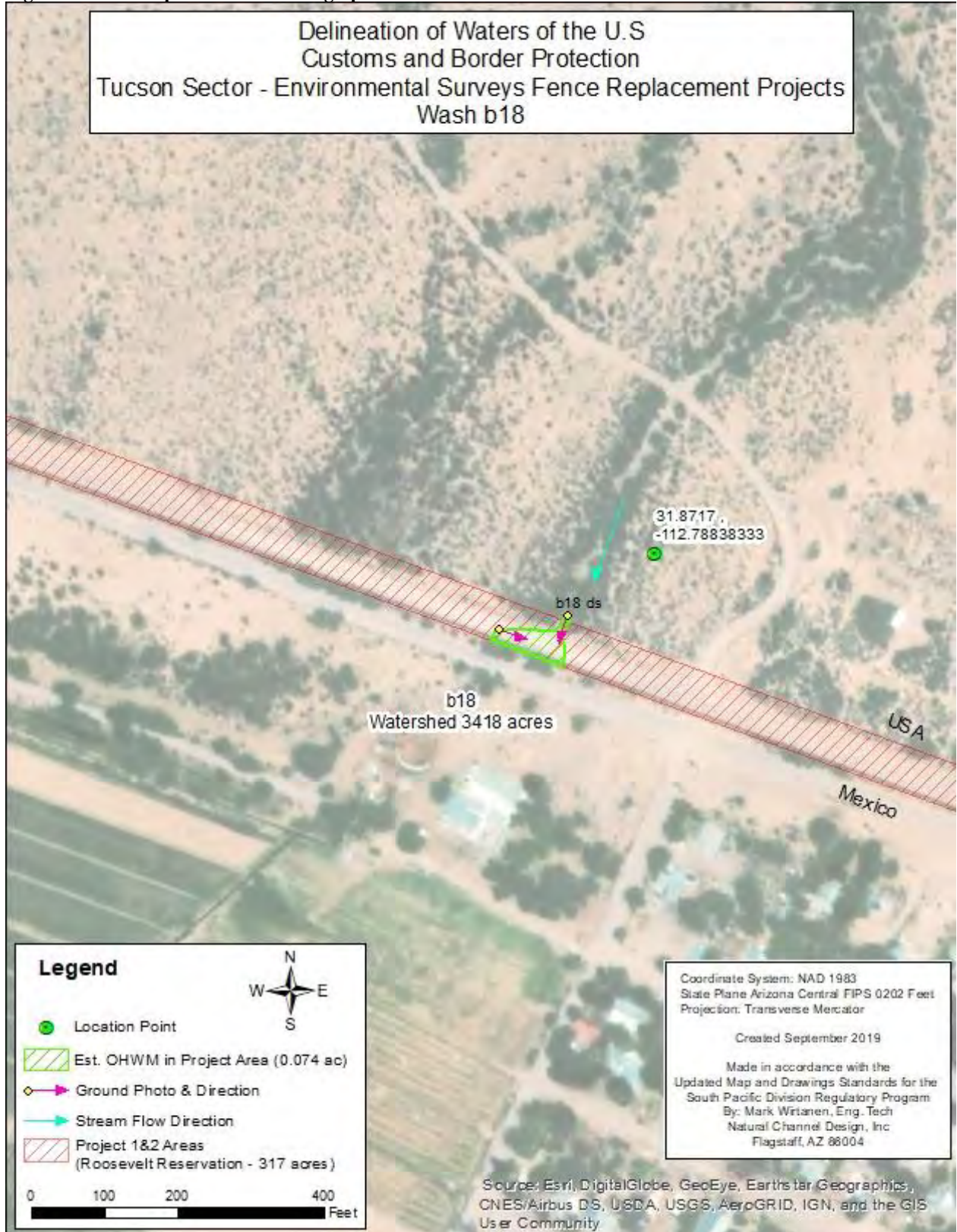


Figure 615. Aerial view of wash b18 with photo points





Figure 616. Photo point b18 looking east



Figure 617. Photo point b18 looking downstream

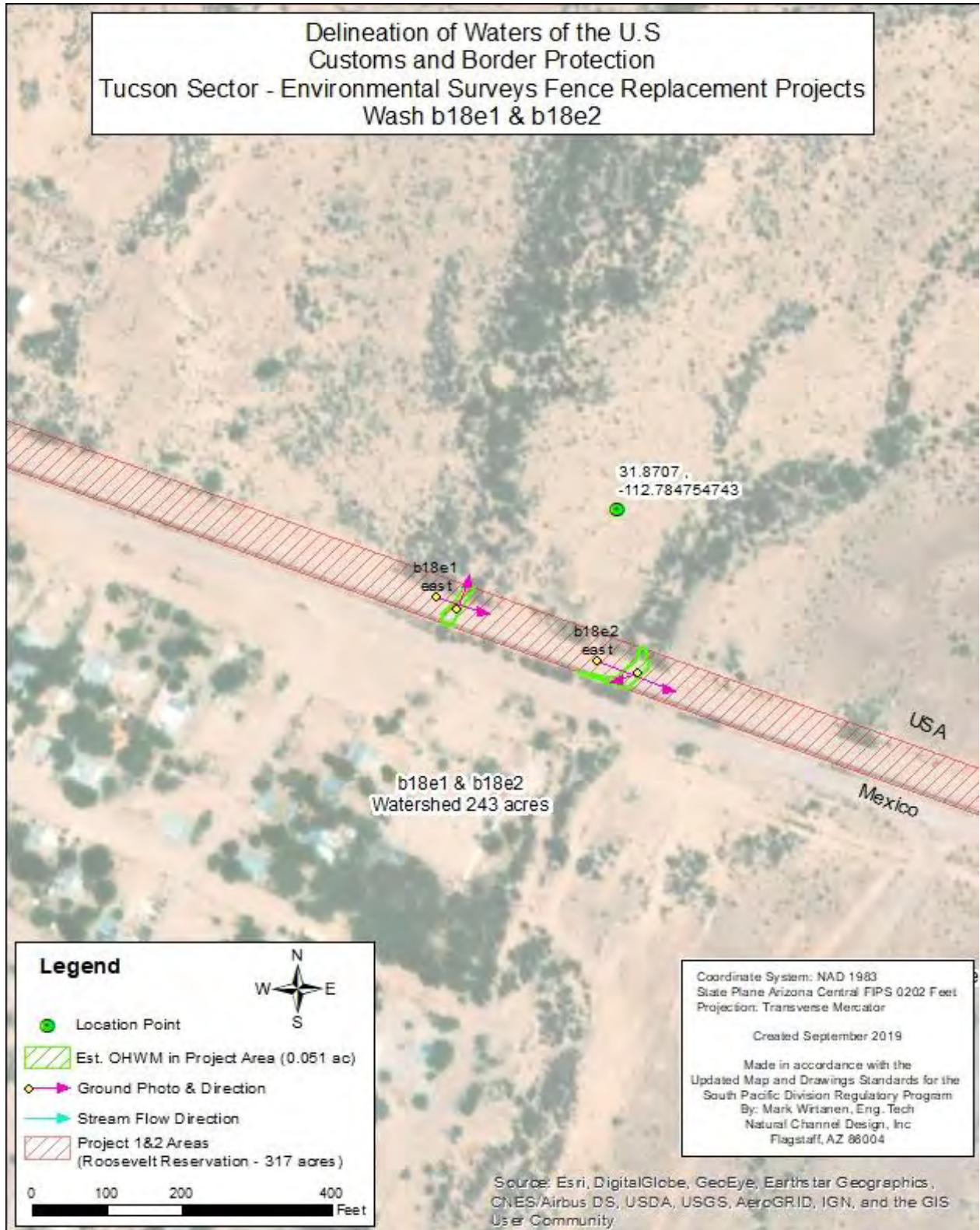


Figure 618. Aerial view of washes b18e1 and b18e2 with photo points



**Figure 619. Photo point b18e1 looking east**



**Figure 620. Photo point b18e1 looking upstream**



**Figure 621. Photo point b18e2 looking east**



**Figure 622. Photo point b18e2 looking downstream**

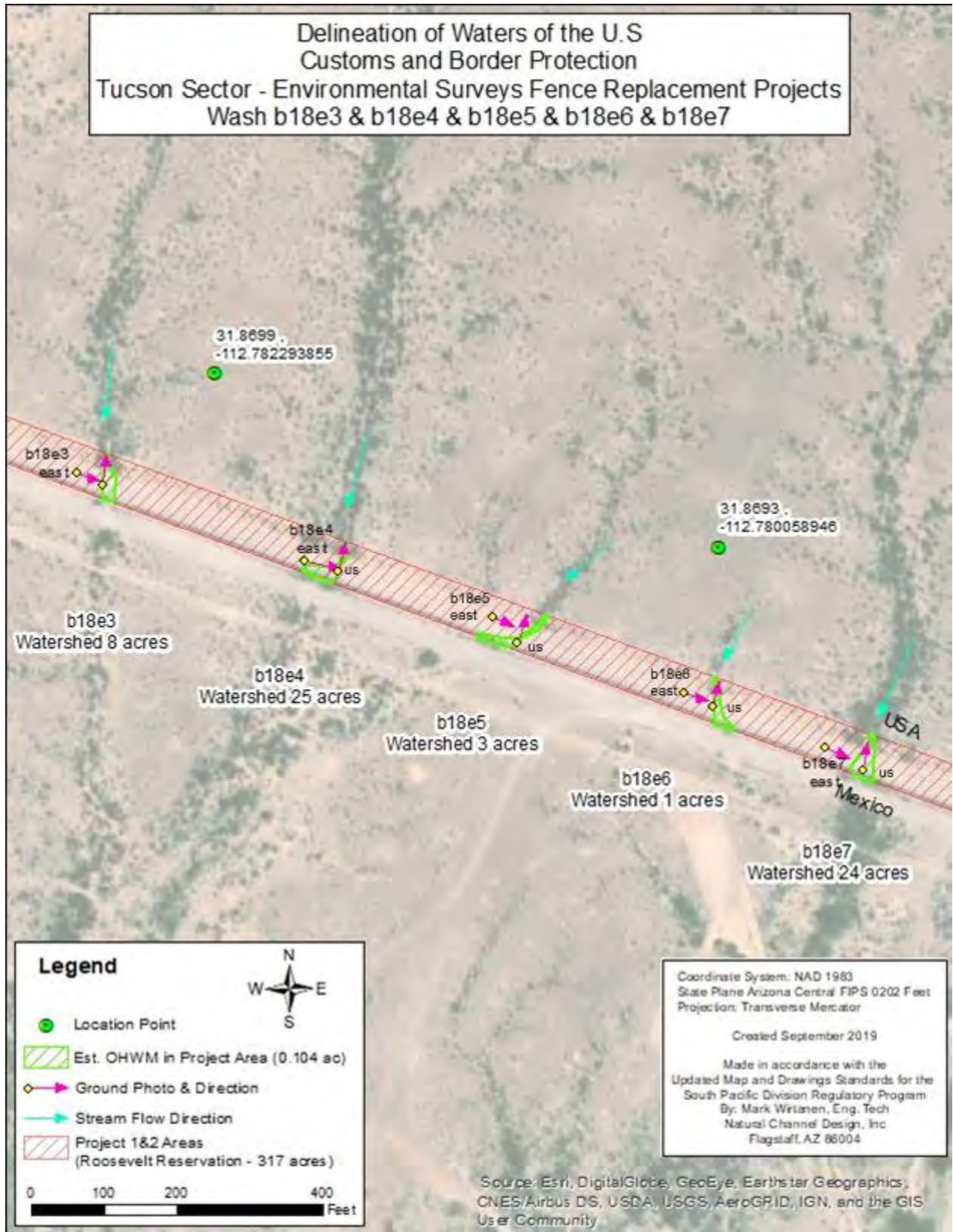


Figure 623. Aerial view of washes b18e3, b18e4, b18e5, b18e6, and b18e7 with photo points



Figure 624. Photo point b18e3 looking east



Figure 625. Photo point b18e3 looking upstream



Figure 626. Photo point b18e4 looking east



Figure 627. Photo point b18e4 looking upstream



**Figure 628. Photo point b18e5 looking east**



**Figure 629. Photo point b18e5 looking upstream**





**Figure 630. Photo point b18e6 looking east**



**Figure 631. Photo point b18e6 looking upstream**



**Figure 632. Photo point b18e7 looking east**



**Figure 633. Photo point b18e7 looking upstream**

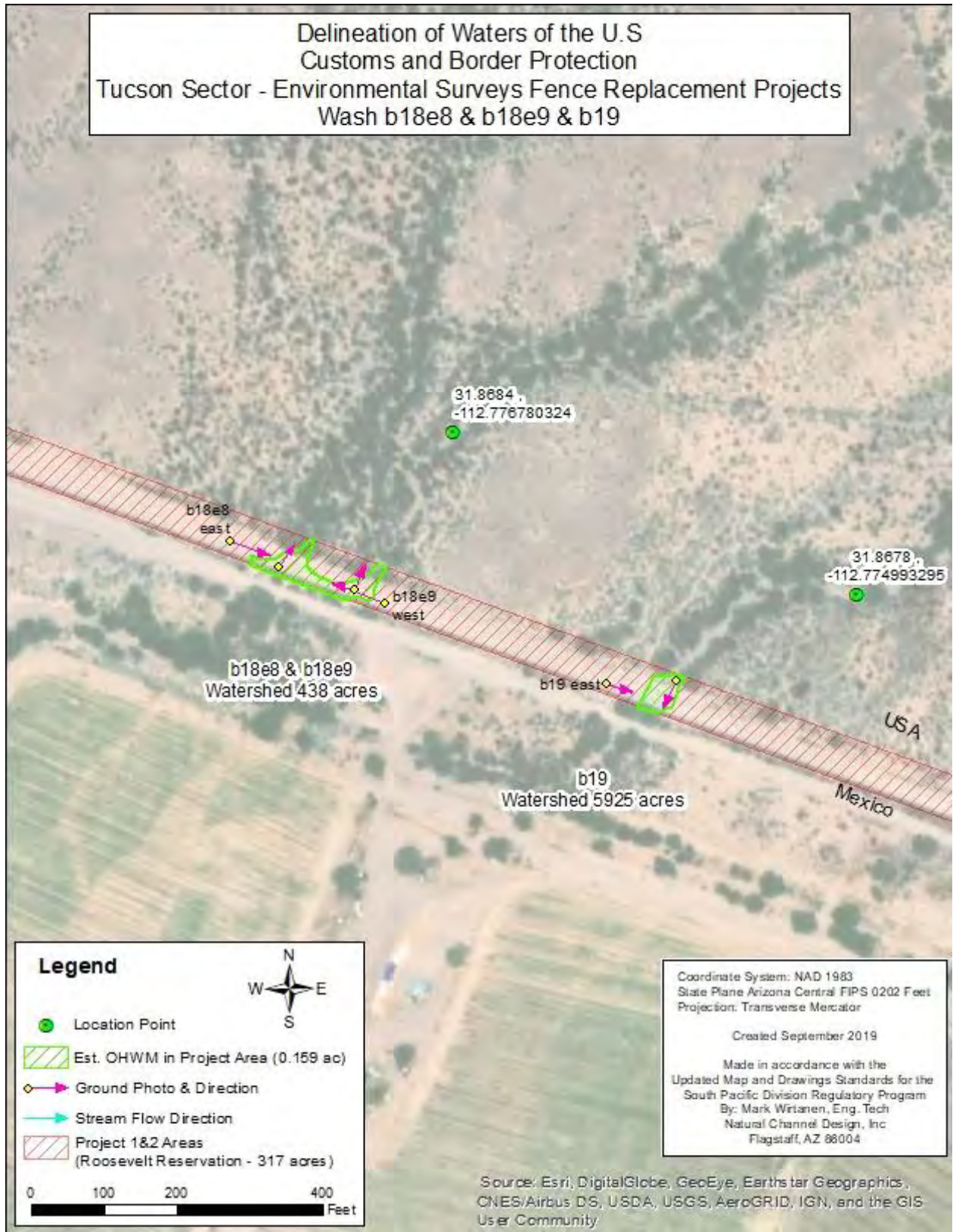


Figure 634. Aerial view of washes b18e8, b18e9, and b19 with photo points.



**Figure 635. Photo point b18e8 looking east**



**Figure 636. Photo point b18e8 looking upstream**



**Figure 637. Photo point b18e9 looking upstream**



**Figure 638. Photo point b18e9 looking west**



**Figure 639. Photo point b19 looking east**



**Figure 640. Photo point b19 looking downstream**

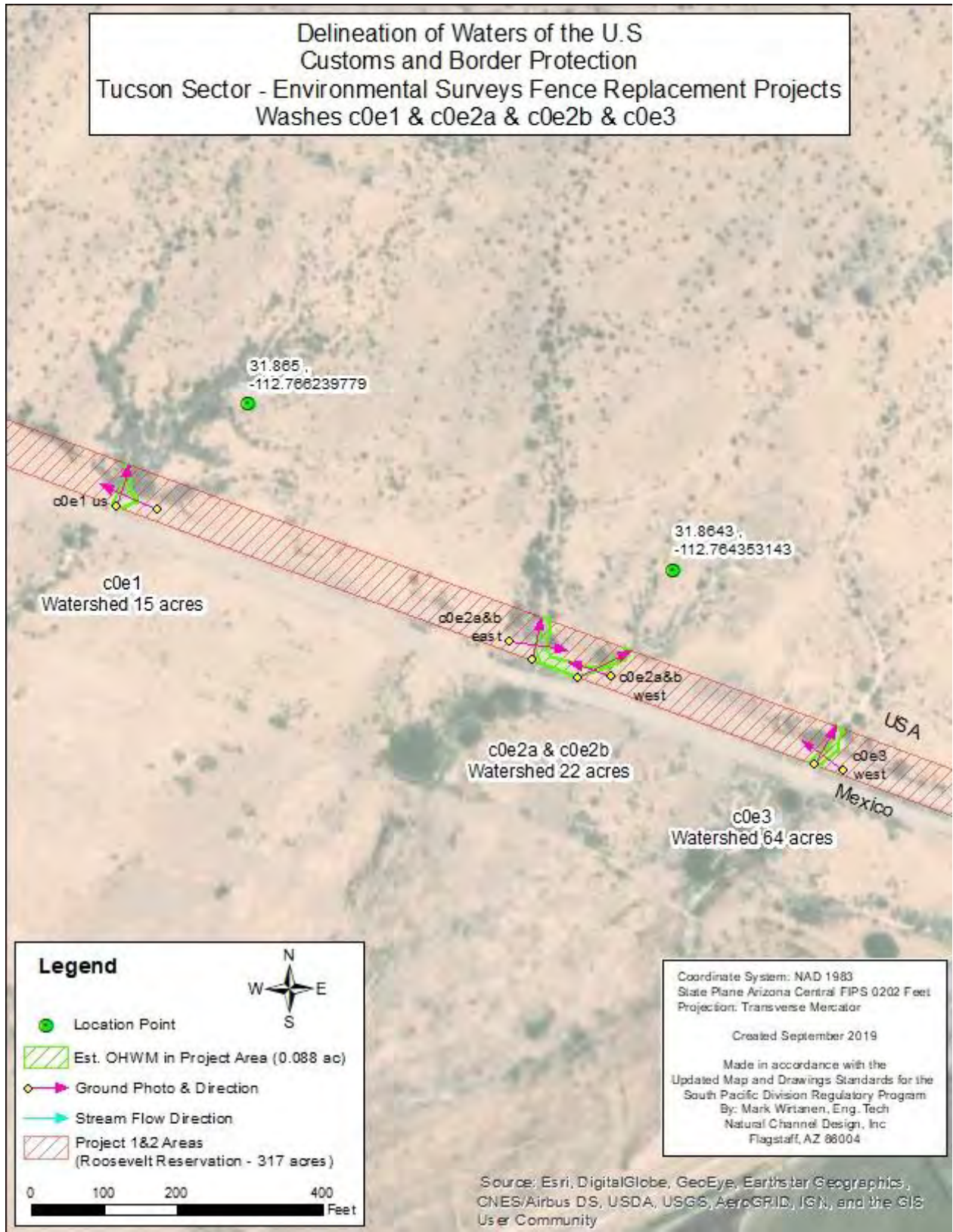


Figure 641. Aerial view of washes c0e1, c0e2b, c0e2a, and c0e3 with photo points



**Figure 642. Photo point c0e1 looking upstream**



**Figure 643. Photo point c0e1 looking west**





**Figure 644. Photo point c0e2b looking east**



**Figure 645. Photo point c0e2b looking upstream**



**Figure 646. Photo point c0e2a looking upstream**



**Figure 647. Photo point c0e2a looking west**



**Figure 648. Photo point c0e3 looking upstream**



**Figure 649. Photo point c0e3 looking west**



Figure 650. Aerial view of washes c0e4 and c0e5 with photo points



**Figure 651. Photo point c0e4 looking upstream**



**Figure 652. Photo point c0e4 looking upstream**



**Figure 653. Photo point c0e4 looking west**



**Figure 654. Photo point c0e5 looking upstream**



**Figure 655. Photo point c0e5 looking west**



Figure 656. Aerial view of washes c1 and c1e1 with photo points





**Figure 657. Photo point c1 looking upstream**



**Figure 658. Photo point c1e1 looking upstream**



**Figure 659. Photo point c1e1 looking west**



Figure 660. Aerial view of wash c2 with photo points.



**Figure 661. Photo point c2 looking east**



**Figure 662. Photo point c2 looking upstream**



**Figure 663. Photo point c2 looking upstream**



Figure 664. Aerial view of wash c2e1 with photo points.



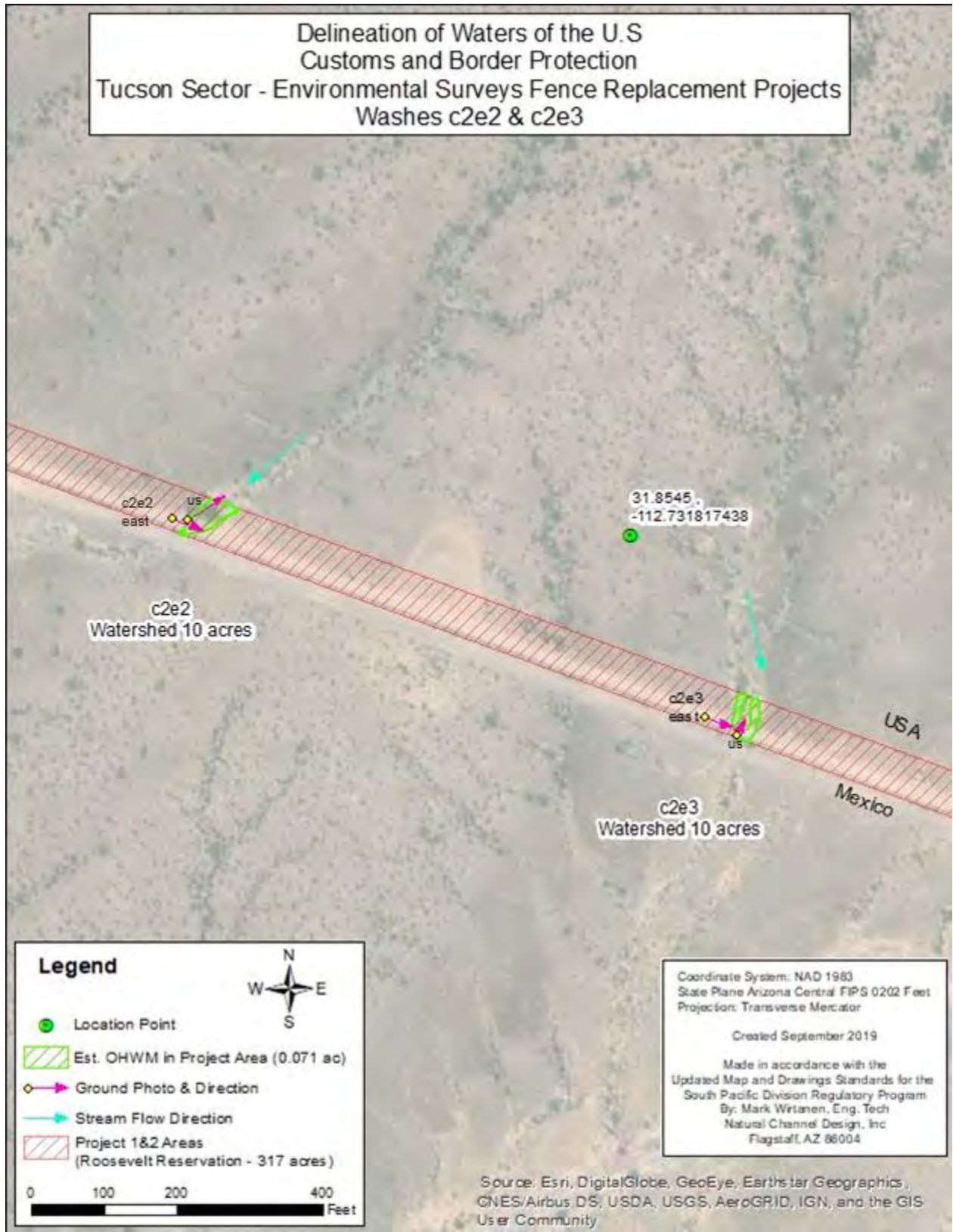


Figure 667. Aerial view of washes c2e2 & c2e3 with photo points





**Figure 668. Photo point c2e2 looking east**



**Figure 669. Photo point c2e2 looking upstream**



**Figure 670. Photo point c2e3 looking east**



**Figure 671. Photo point c2e3 looking upstream**



Figure 672. Aerial view of washes c2e4, c2e5, and c2e6 with photo points



**Figure 673. Photo point c2e4 looking upstream**



**Figure 674. Photo point c2e4 looking west**



**Figure 675. Photo point c2e5 looking east**



**Figure 676. Photo point c2e5 looking upstream**



**Figure 677. Photo point c2e6 looking downstream**



**Figure 678. Photo point c2e6 looking west**

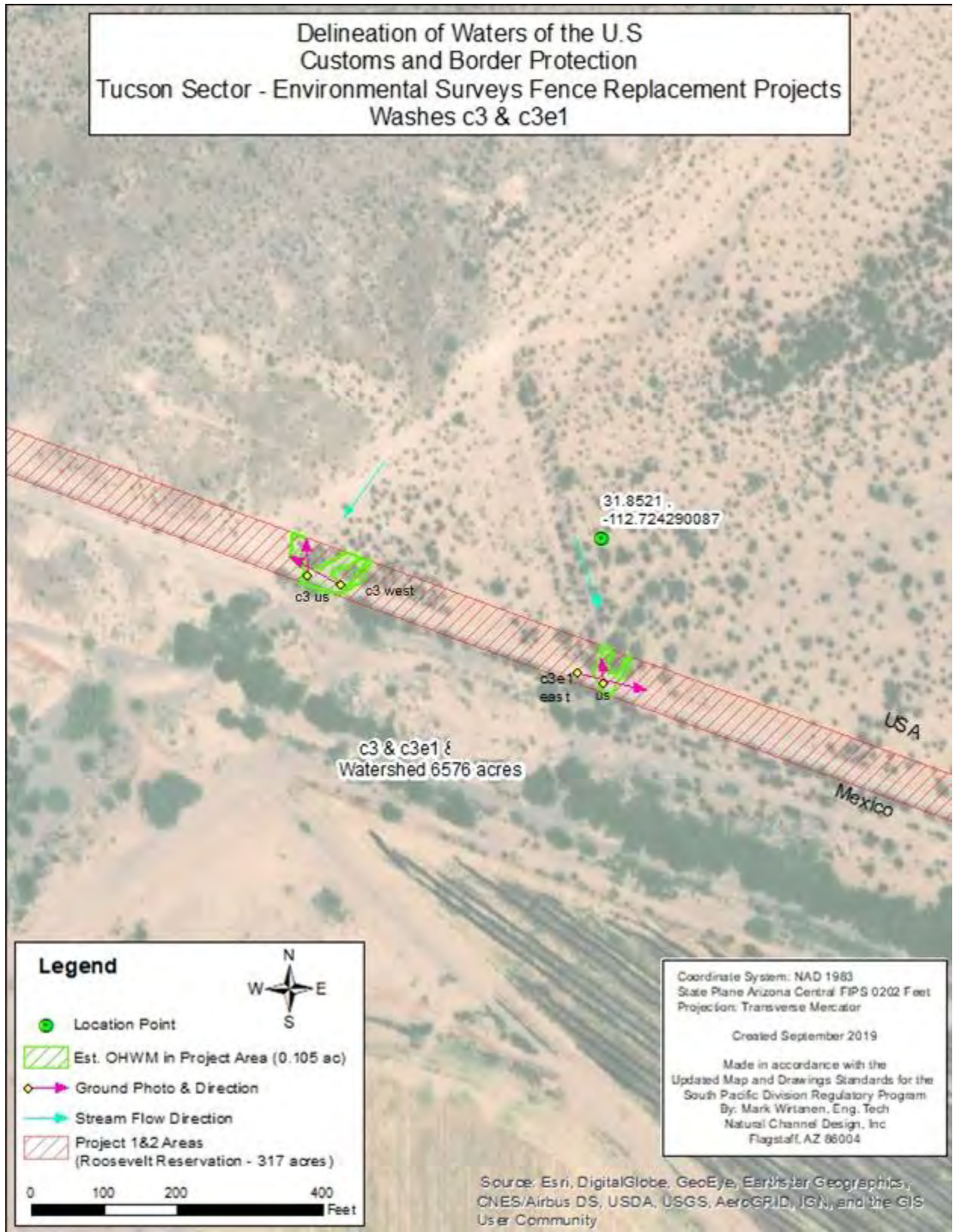


Figure 679. Aerial view of washes c3 an c3e1 with photo points



**Figure 680. Photo point c3 looking upstream**  
*This only shows one of the trib*



**Figure 681. Photo point c3 looking west**





**Figure 682. Photo point c3e1 looking east**



**Figure 683. Photo point c3e1 looking upstream**



Figure 684. Aerial view of washes c3e2, c3e3, and c4 with photo points



**Figure 685. Photo point c3e2 looking downstream**



**Figure 686. Photo point c3e2 looking west**



**Figure 687. Photo point c3e3 looking upstream**



**Figure 688. Photo point c3e3 looking west**



**Figure 689. Photo point c4 looking upstream**



**Figure 690. Photo point c4 looking west**

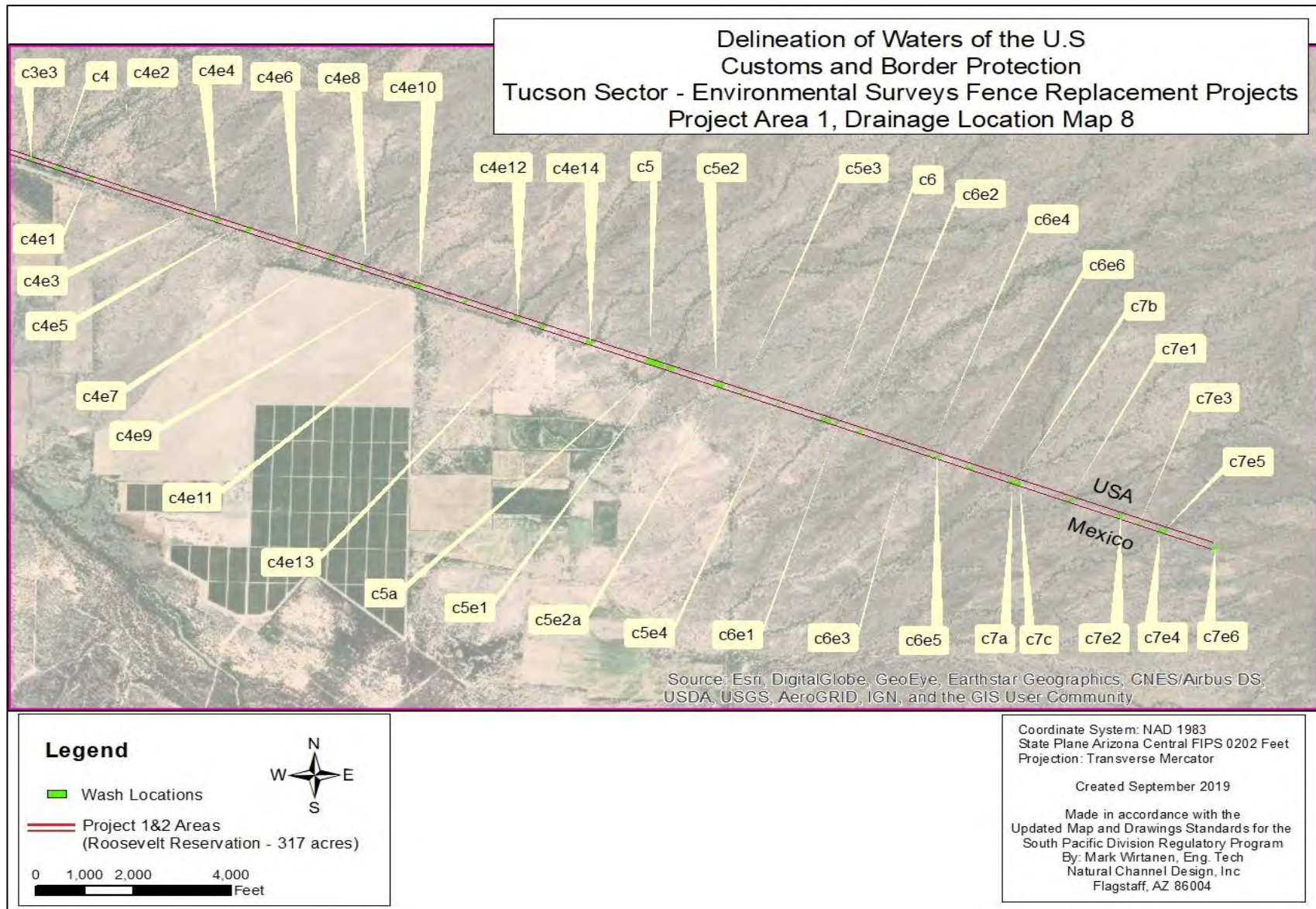


Figure 691. Project Area 1, Location Map 8



Figure 692. Aerial view of washes c4e1 and c4e2 with photo points.



Figure 693. Photo point c4e1 looking east





**Figure 694. Photo point c4e1 looking upstream**



**Figure 695. Photo point c4e2 looking downstream**



**Figure 696. Photo point c4e2 looking west**

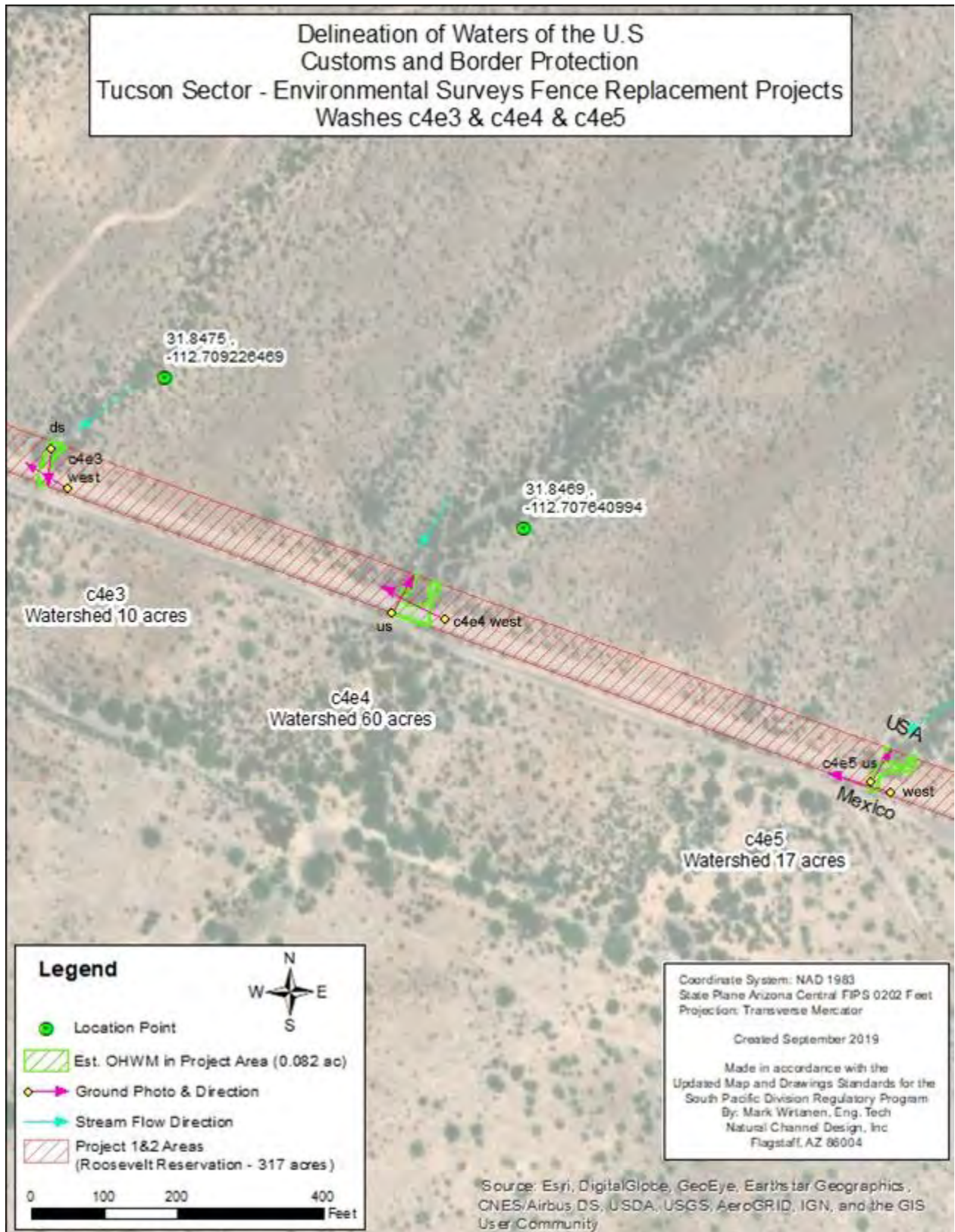


Figure 697. Aerial view of washes c4e3, c4e4, and c4e5 with photo points.



**Figure 698. Photo point c4e3 looking downstream**



**Figure 699. Photo point c4e3 looking west**



**Figure 700. Photo point c4e4 looking upstream**



**Figure 701. Photo point c4e4 looking west**



**Figure 702. Photo point c4e5 looking upstream**



**Figure 703. Photo point c4e5 looking west**



Figure 704. Aerial view of washes c4e6 and c4e7 with photo points



**Figure 705. Photo point c4e6 looking upstream**



**Figure 706. Photo point c4e6 looking west**



**Figure 707. Photo point c4e7 looking east**



**Figure 708. Photo point c4e7 looking upstream**





Figure 709. Aerial view of wash c4e8 with photo points



**Figure 710. Photo point c4e8 looking east**



**Figure 711. Photo point c4e8 looking upstream**



Figure 712. Aerial view of washes c4e9 and c4e10 with photo points



**Figure 713. Photo point c4e9 looking east**



**Figure 714. Photo point c4e9 looking downstream**



**Figure 715. Photo point c4e10 looking east**



**Figure 716. Photo point c4e10 looking downstream**



Figure 717. Aerial view of wash c4e11 with photo points



**Figure 718. Photo point c4e11 looking downstream**



**Figure 719. Photo point c4e11 looking west**



Figure 720. Aerial view of washes c4e12 and c4e13 with photo points





**Figure 721. Photo point c4e12 looking upstream**



**Figure 722. Photo point c4e12 looking west**



**Figure 723. Photo point c4e13 looking downstream**



**Figure 724. Photo point c4e13 looking west**

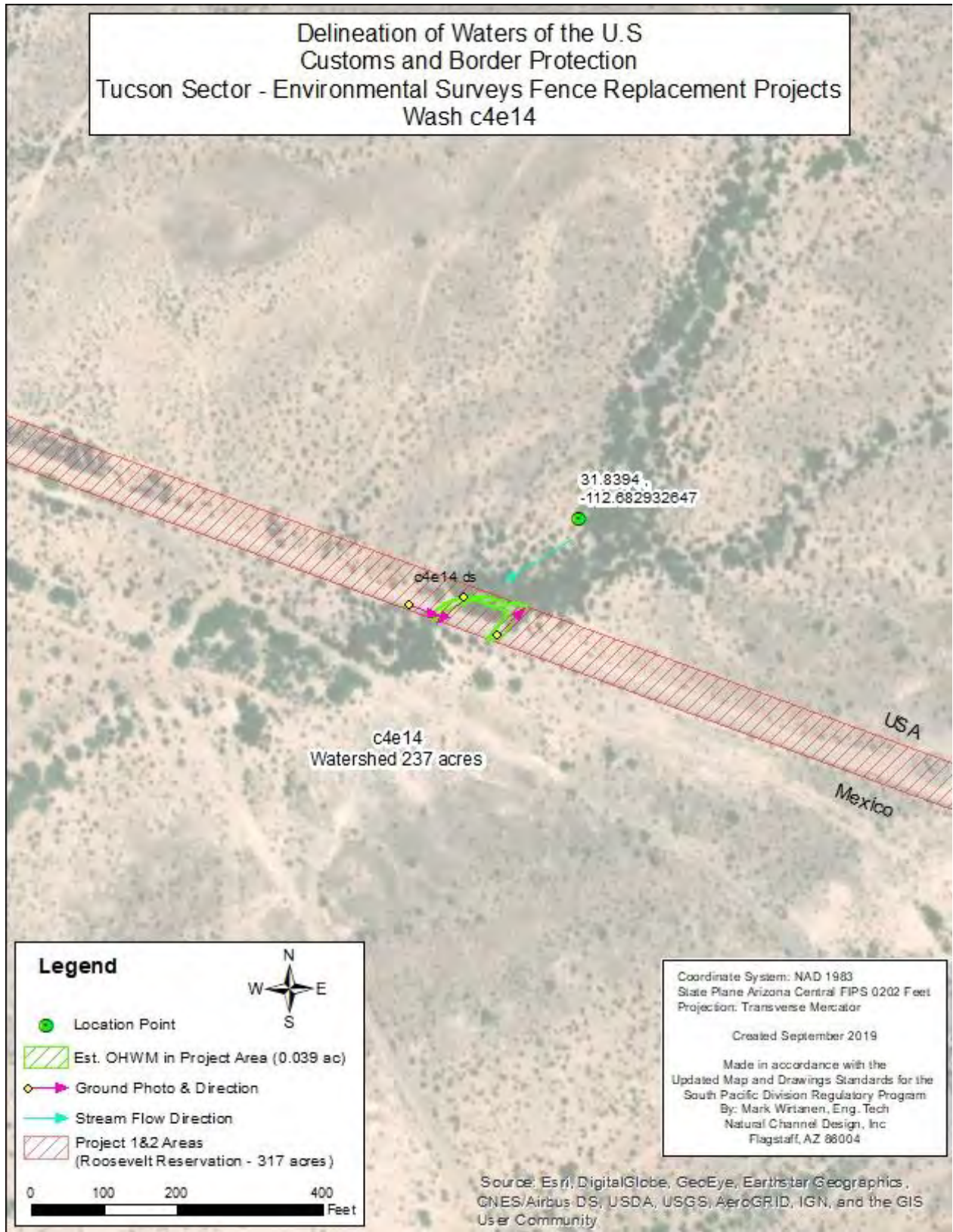


Figure 725. Aerial view of wash c4e14 with photo points



**Figure 726. Photo point c4e14 looking east**



**Figure 727. Photo point c4e14 looking downstream**



**Figure 728. Photo point c4e14 looking upstream**



Figure 729. Aerial view of washes c5, c5a, and c5e1 with photo points



**Figure 730. Photo point c5 looking east**



**Figure 731. Photo point c5 looking upstream**

*This channel, along with c5a, are part of multiple threads flowing through a mesquite bosque.*



**Figure 732. Photo point c5 looking downstream**



**Figure 733. Photo point c5a looking downstream**





**Figure 734. Photo point c5e1 looking downstream**



**Figure 735. Photo point c5e1 looking upstream**



**Figure 736. Photo point c5e1 looking west**

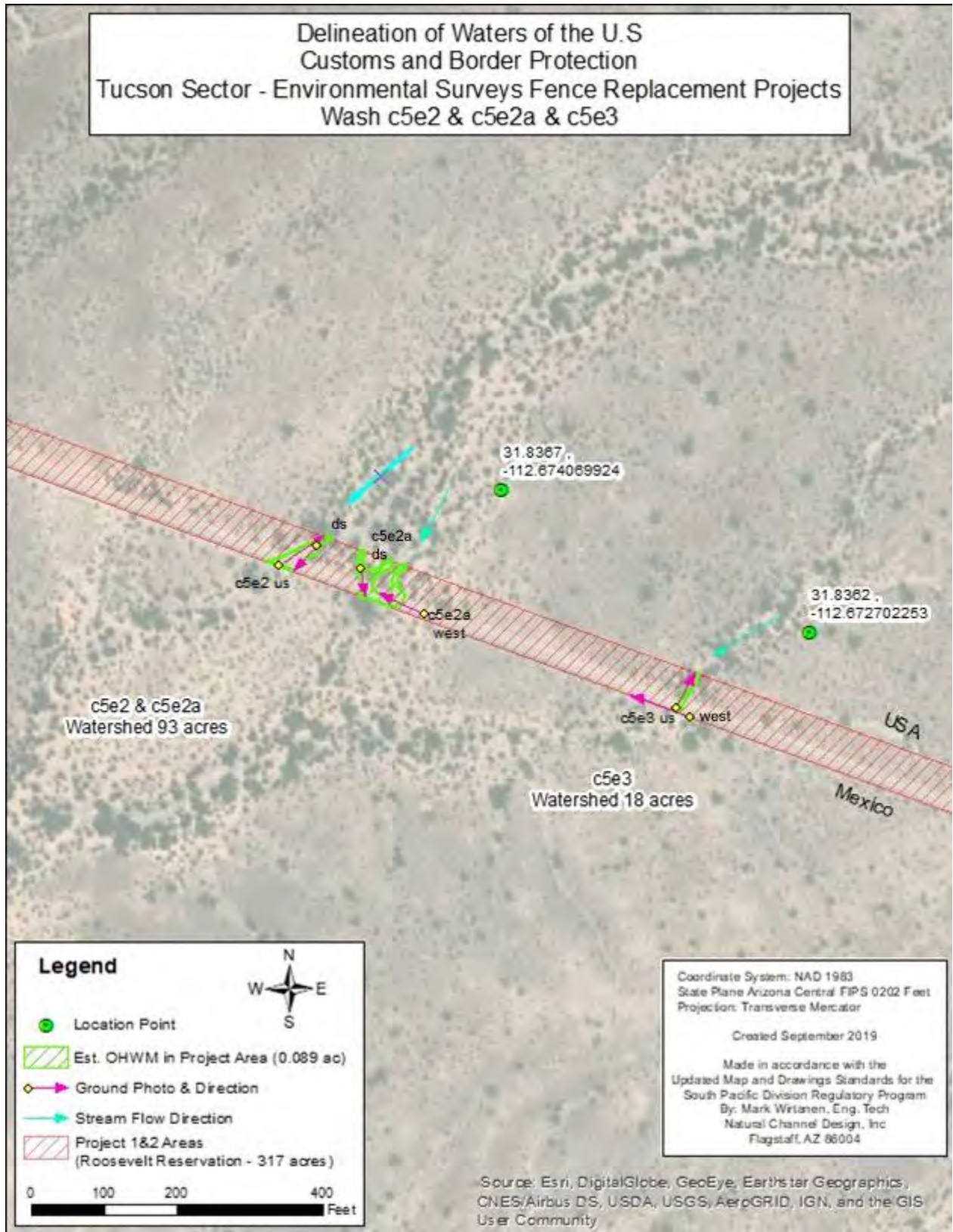


Figure 737. Aerial view of washes c5e2, c5e2a, and c5e3 with photo points



**Figure 738. Photo point c5e2 looking upstream**



**Figure 739. Photo point c5e2 looking downstream**



**Figure 740. Photo point c5e2a looking downstream**



**Figure 741. Photo point c5e2a looking west**



**Figure 742. Photo point c5e3 looking upstream**



**Figure 743. Photo point c5e3 looking west**



Figure 744. Aerial view of wash c5e4 with photo points



**Figure 745. Photo point c5e4 looking east**



**Figure 746. Photo point c5e4 looking downstream**



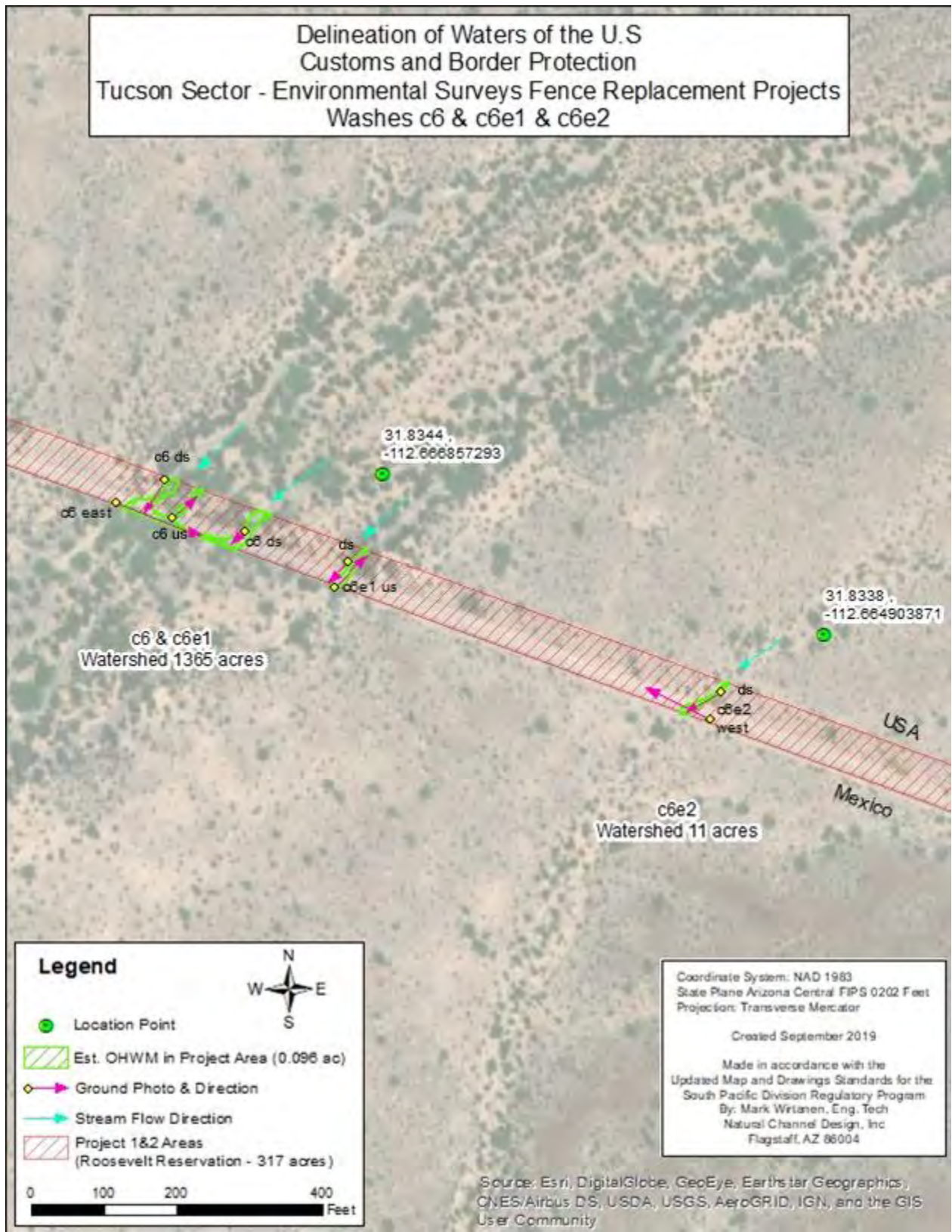


Figure 747. Aerial view of washes c6, c6e1, c6e2 with photo points



**Figure 748. Photo point c6 looking east**



**Figure 749. Photo point c6 looking downstream**



**Figure 750. Photo point c6 looking upstream**



**Figure 751. Photo point c6 looking downstream**



**Figure 752. Photo point c6e1 looking upstream**



**Figure 753. Photo point c6e1 looking downstream**



**Figure 754. Photo point c6e2 looking west**



**Figure 755. Photo point c6e2 looking downstream**



Figure 756. Aerial view of washes c6e3, c6e4, and c6e5 with photo points



**Figure 757. Photo point c6e3 looking east**



**Figure 758. Photo point c6e3 looking downstream**  
*Recent flows outline this channel's flow path*



**Figure 759. Photo point c6e4 looking downstream**



**Figure 760. Photo point c6e4 looking west**





**Figure 761. Photo point c6e5 looking east**



**Figure 762. Photo point c6e5 looking upstream**



Figure 763. Aerial view of wash c6e6 with photo points



**Figure 764. Photo point c6e6 looking downstream**



**Figure 765. Photo point c6e6 looking west**

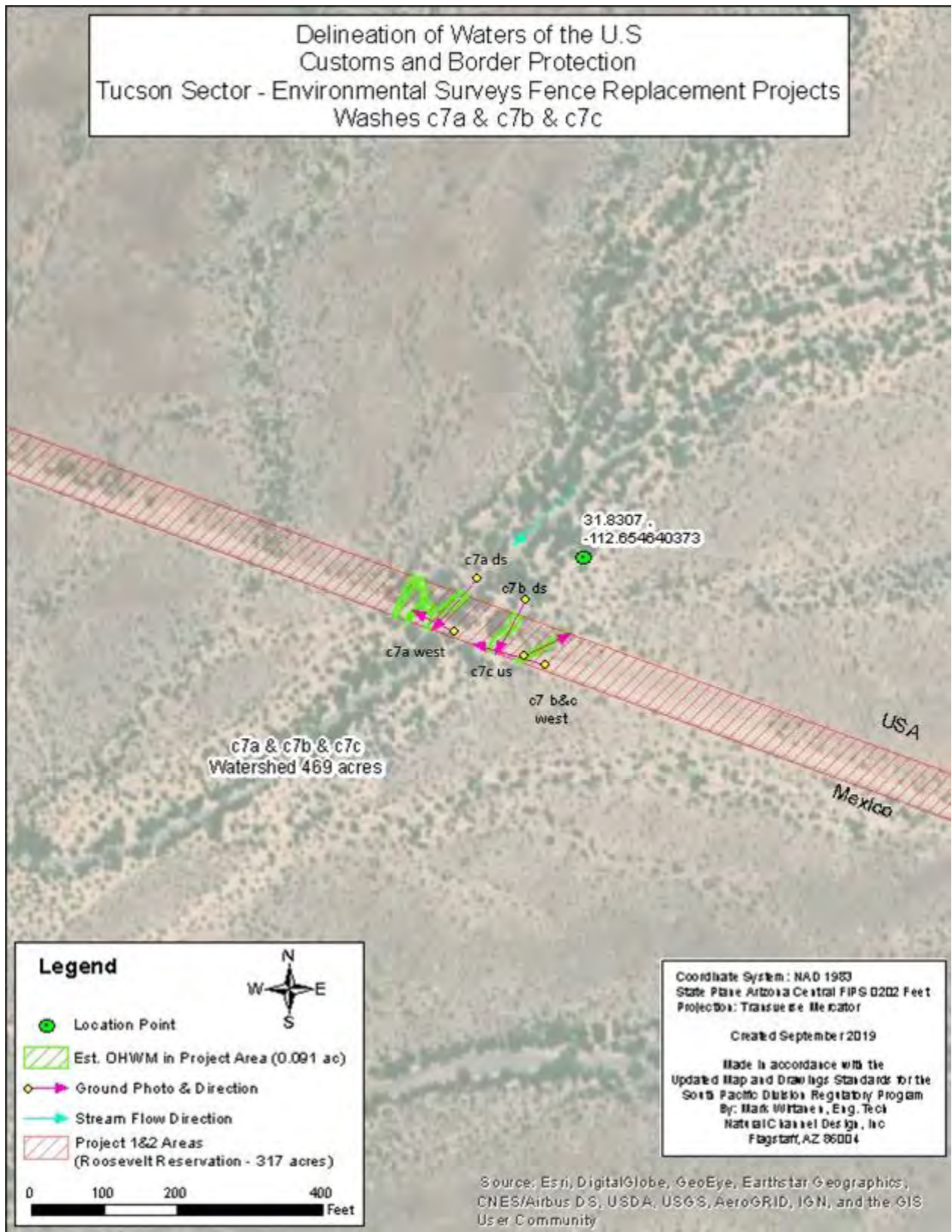


Figure 766. Aerial view of washes c7a, c6b, and c7c with photo points



**Figure 767. Photo point c7a looking west**



**Figure 768. Photo point c7a looking downstream**



**Figure 769. Photo point c7b looking downstream**



**Figure 770. Photo point c7c looking upstream**



**Figure 771. Photo point c7c looking west**



Figure 772. Aerial view of wash c7e1 with photo points





**Figure 773. Photo point c7e1 looking downstream**



**Figure 774. Photo point c7e1 looking west**

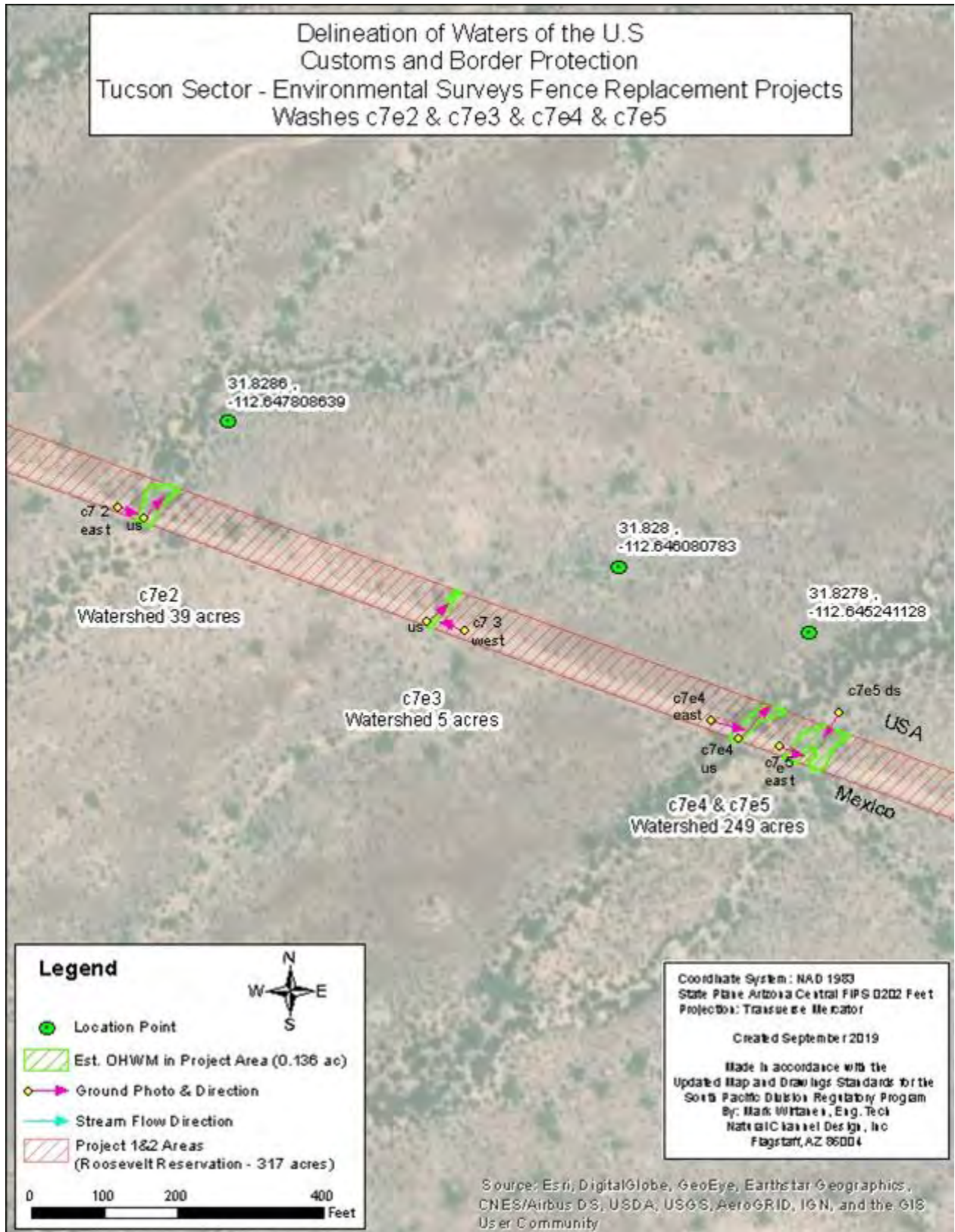


Figure 775. Aerial view of washes c7e2, c7e3, c7e4, and c7e5 with photo points



**Figure 776. Photo point c7e2 looking east**



**Figure 777. Photo point c7e2 looking upstream**



**Figure 778. Photo point c7e3 looking upstream**



**Figure 779. Photo point c7e3 looking west**



**Figure 780. Photo point c7e4 looking east**



**Figure 781. Photo point c7e4 looking upstream**



**Figure 782. Photo point c7e5 looking east**



**Figure 783. Photo point c7e5 looking downstream**



Figure 784. Aerial view of wash c7e6 with photo points



**Figure 785. Photo point c7e6 looking upstream**



**Figure 786. Photo point c7e6 looking west**



**APPENDIX C**

**Individual Site Photos and Locations  
Project Area 3**

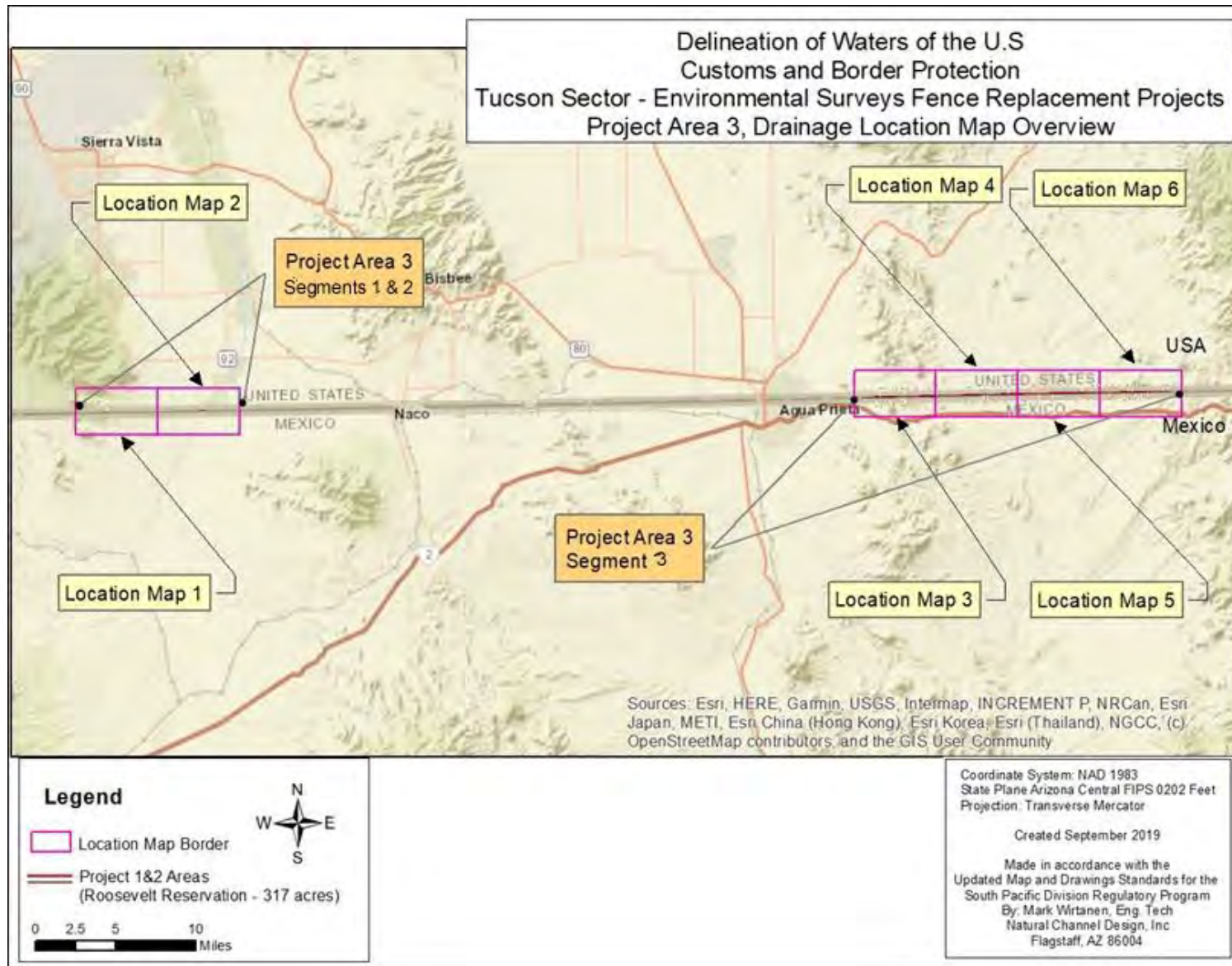
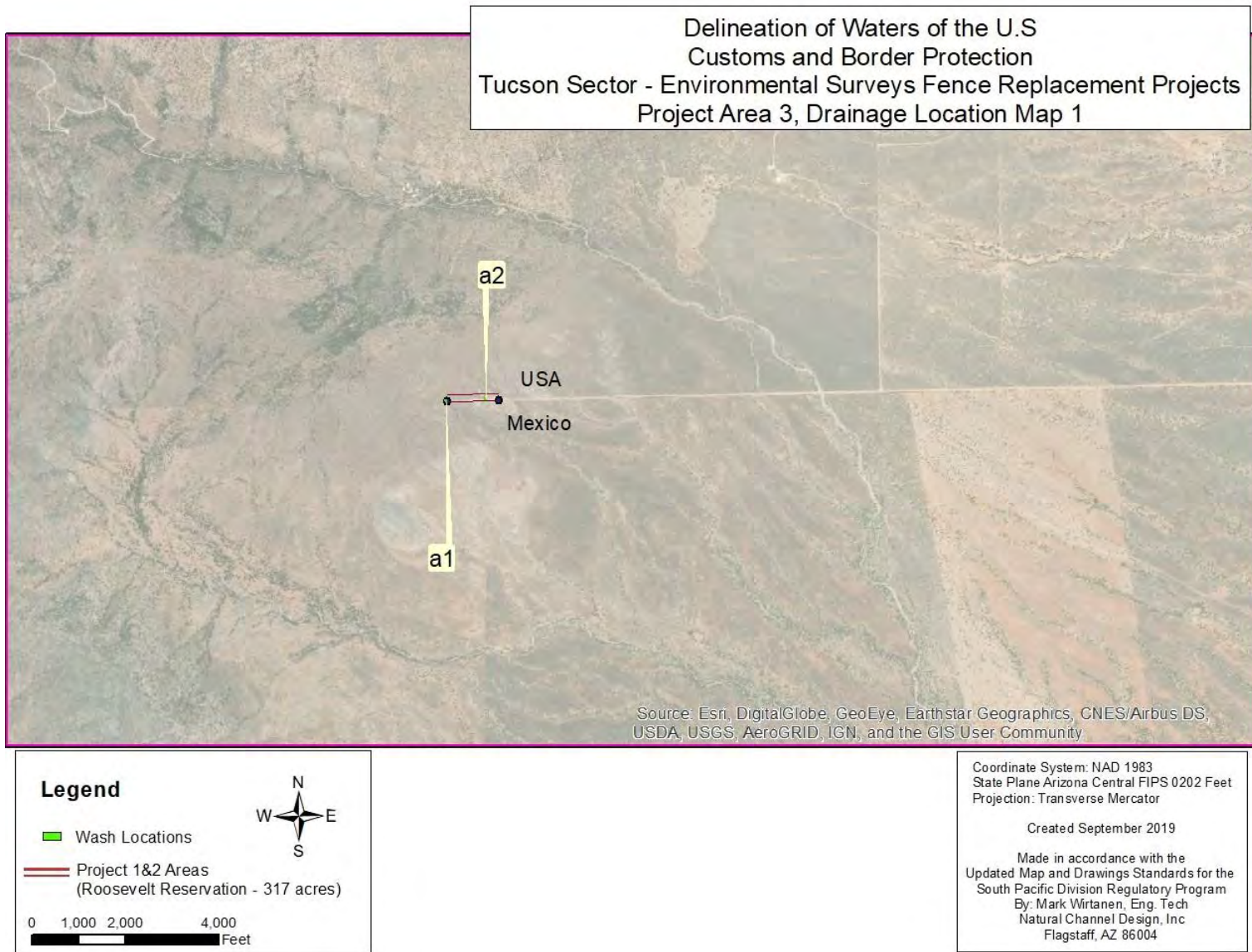


Figure 787. Overview of drainage location maps, Project Area 3



**Figure 788. Project Area 3, Segment 1, Location map 1**

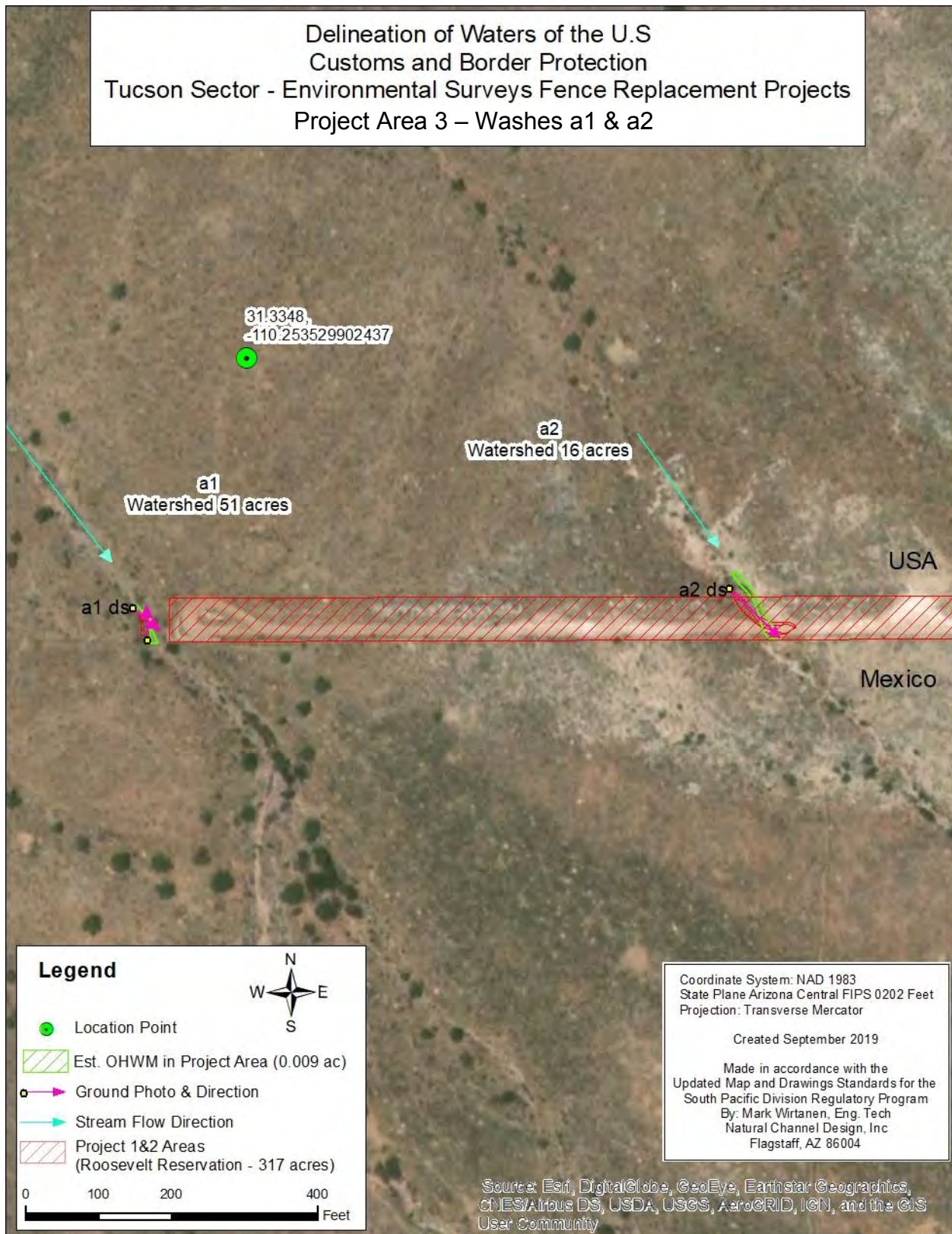


Figure 789. Aerial view of washes a1 and a2 in Project Area 3 with photo points.



**Figure 790. Photo point a1 looking downstream**



**Figure 791. Photo point a1 looking upstream**



**Figure 792. Photo point a2 looking downstream**

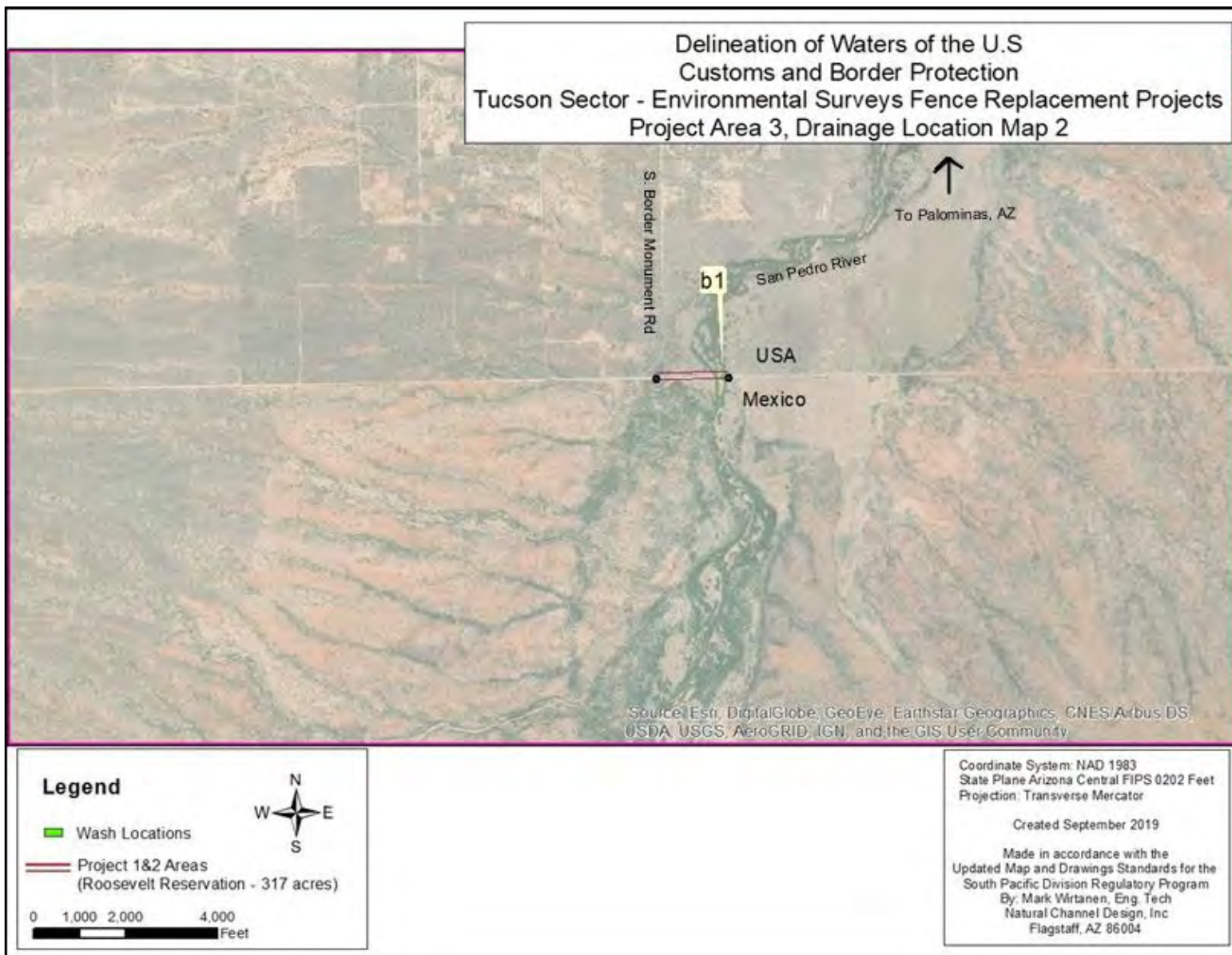


Figure 793. Project Area 3, Segment 2, Location Map 2

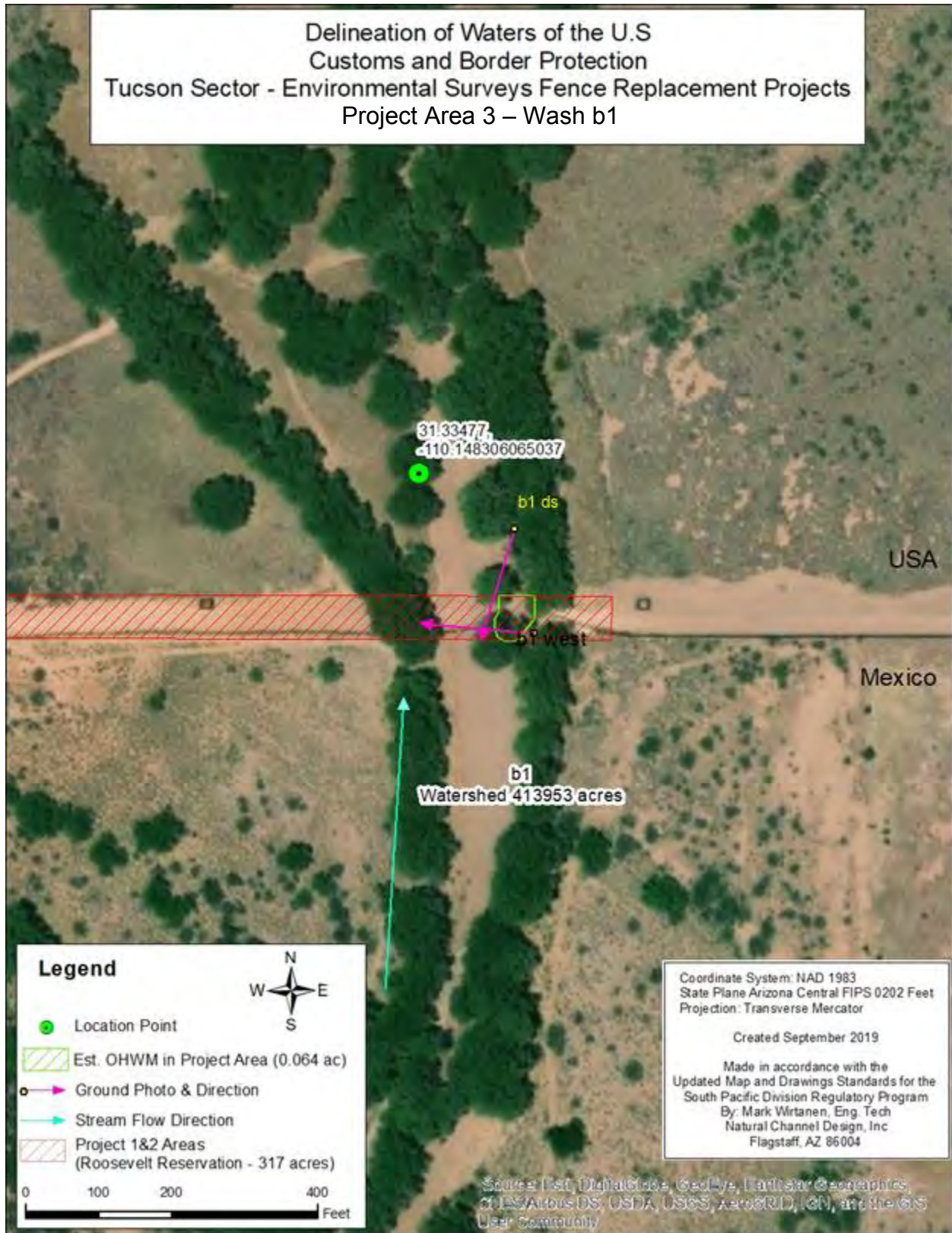


Figure 794. Aerial view of wash b1 in Project Area 3 with photo points. This channel is the San Pedro River.



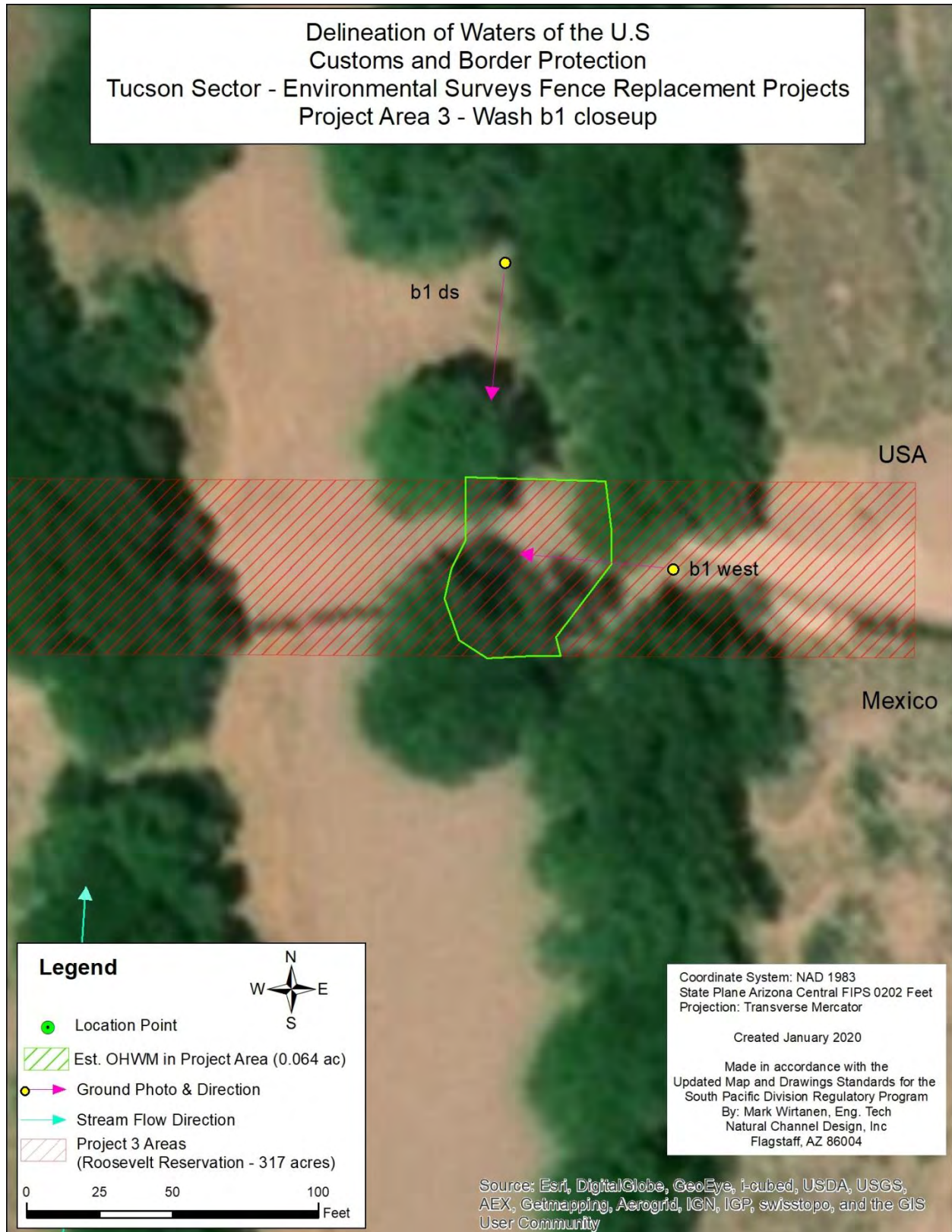


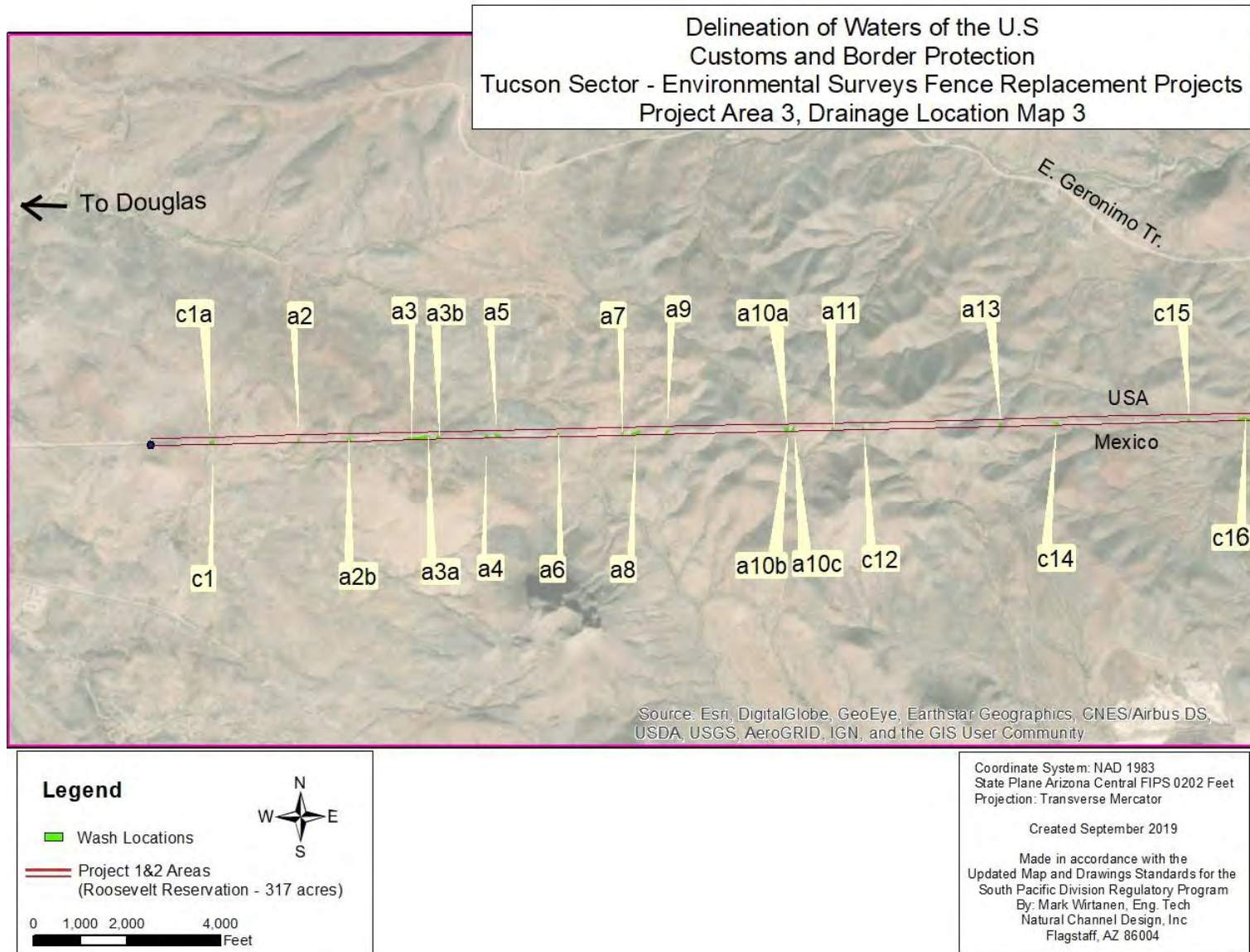
Figure 795. Closer aerial view of wash b1, the San Pedro River, in Project Area 3 with photo points.



**Figure 796. Photo point b1 looking downstream**



**Figure 797. Photo point b1 looking west**



**Figure 798. Project Area 3, Segment 3, Location Map 3**

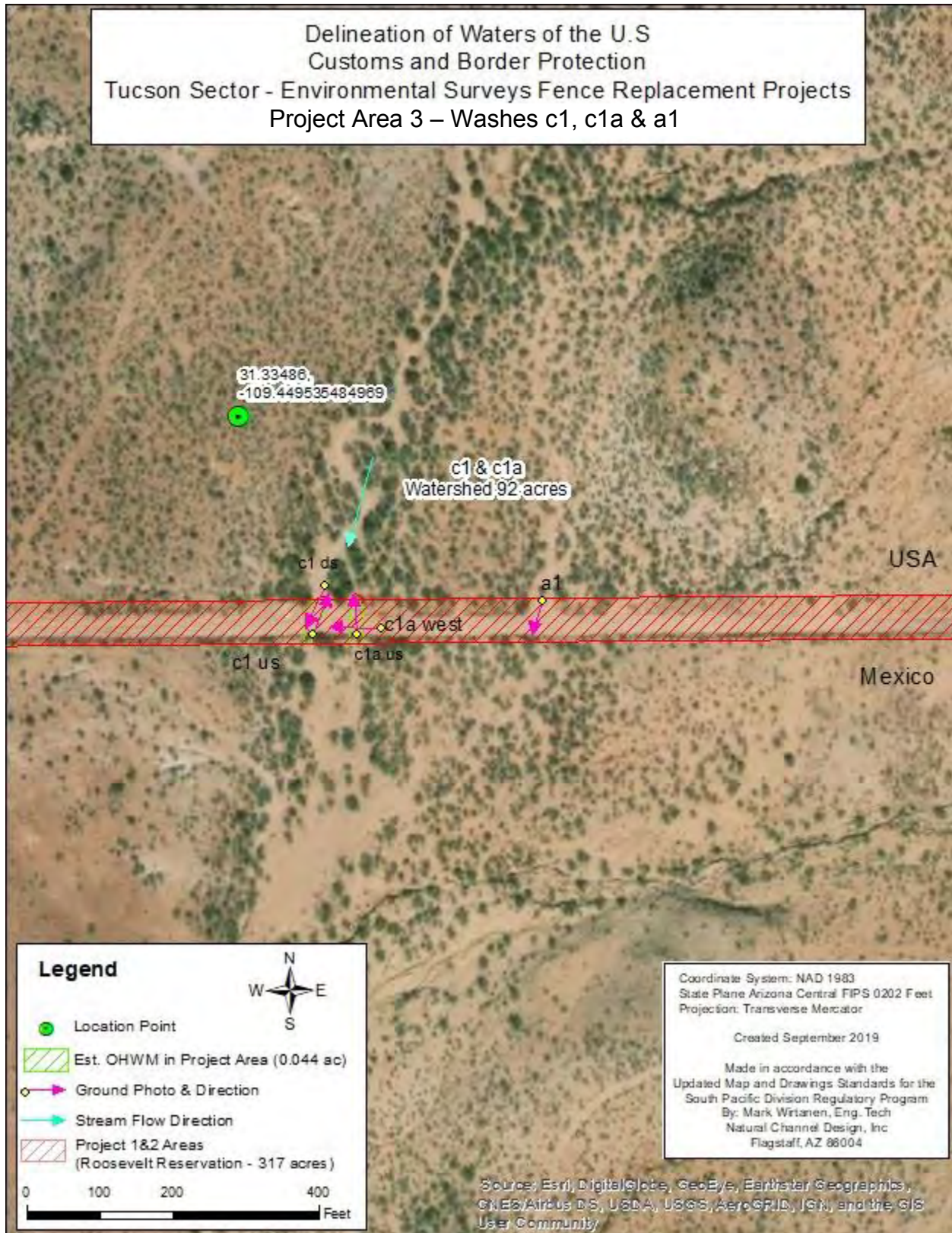


Figure 799. Aerial view of washes c1, c1a, and a1 in Project Area 3 with photo points.



**Figure 800. Photo point c1 looking downstream**



**Figure 801. Photo point c1 looking upstream**



**Figure 802. Photo point c1a looking upstream**



**Figure 803. Photo point c1a looking west**



**Figure 804. Photo point a1 looking downstream**

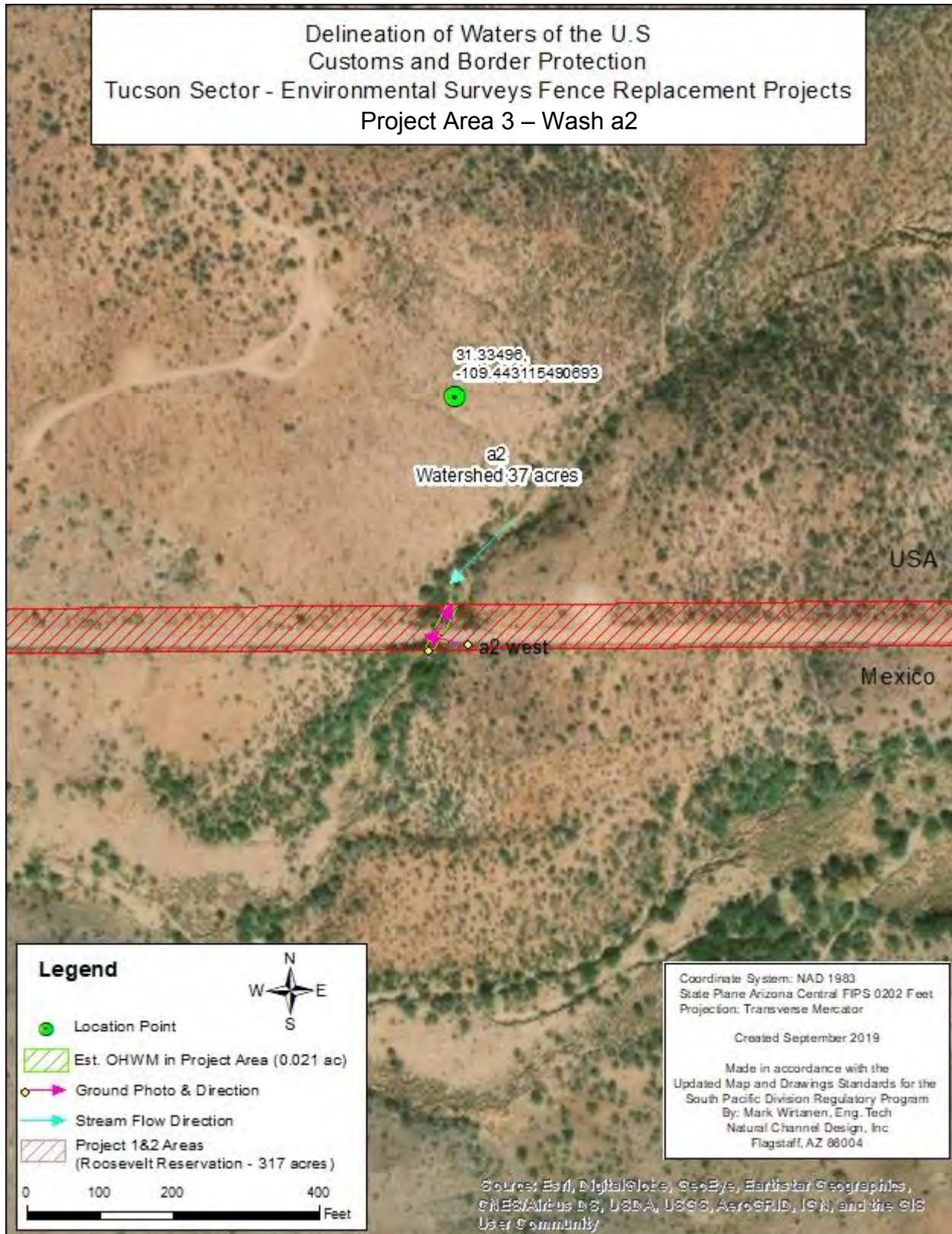


Figure 805. Aerial view of wash a2 in Project Area 3 with photo points.





**Figure 806. Photo point a2 looking upstream**



**Figure 807. Photo point a2 looking west**



Figure 808. Aerial view of wash a2b in Project Area 3 with photo points.



**Figure 809. Photo point a2b looking upstream**



Figure 810. Aerial view of washes a3, a3a and a3b in Project Area 3 with photo points.



**Figure 811. Photo point a3 looking downstream**



**Figure 812. Photo point a3 looking downstream**



**Figure 813. Photo point a3b looking upstream**



**Figure 814. Photo point a3b looking downstream**



Figure 815. Photo point a3b looking west

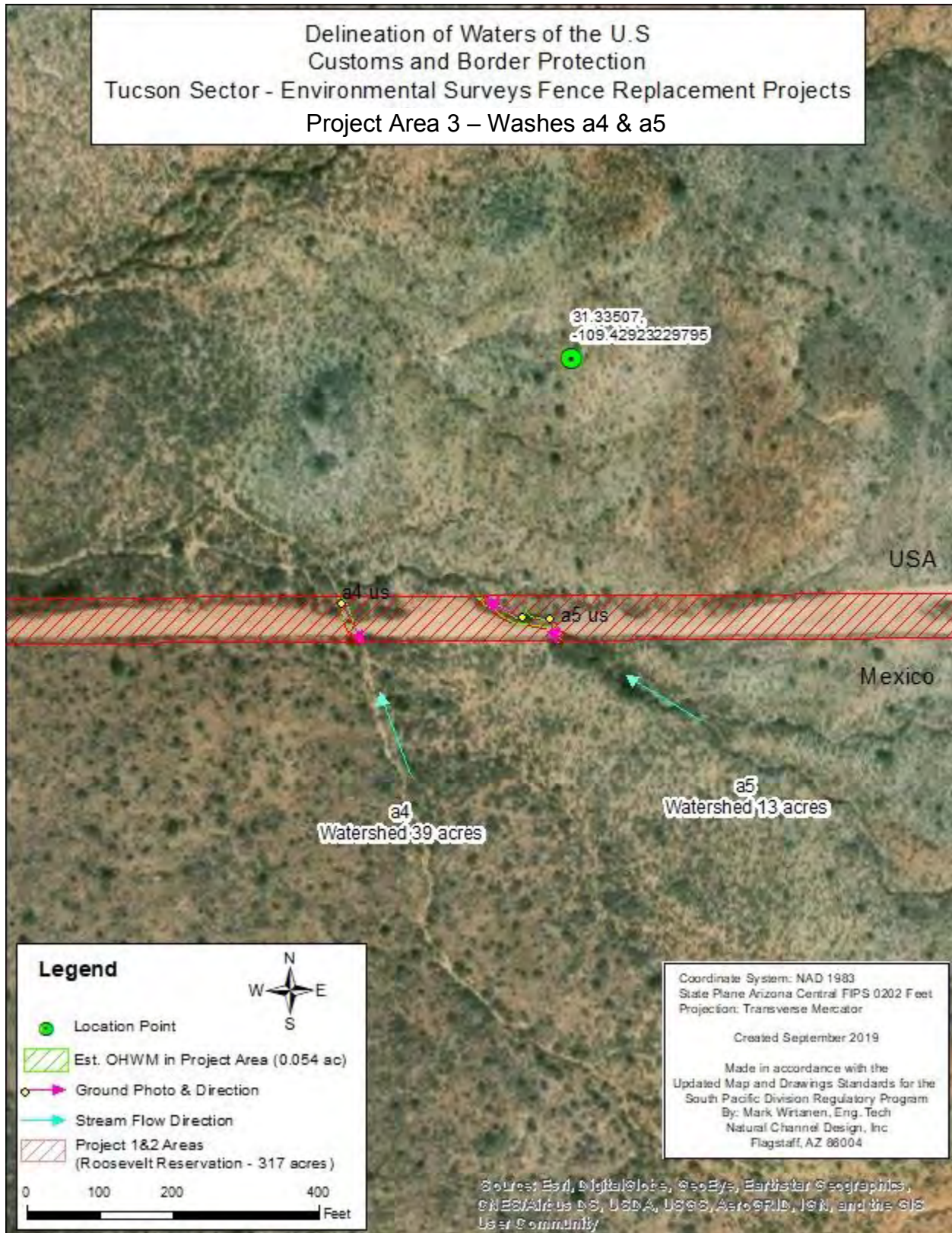


Figure 816. Aerial view of washes a4 and a5 in Project Area 3 with photo points.





**Figure 817. Photo point a4 looking upstream**



**Figure 818. Photo point a5 looking downstream**



**Figure 819. Photo point a5 looking upstream towards culvert**



Figure 820. Aerial view of wash a6 in Project Area 3 with photo points.



**Figure 821. Photo point a6 looking downstream**

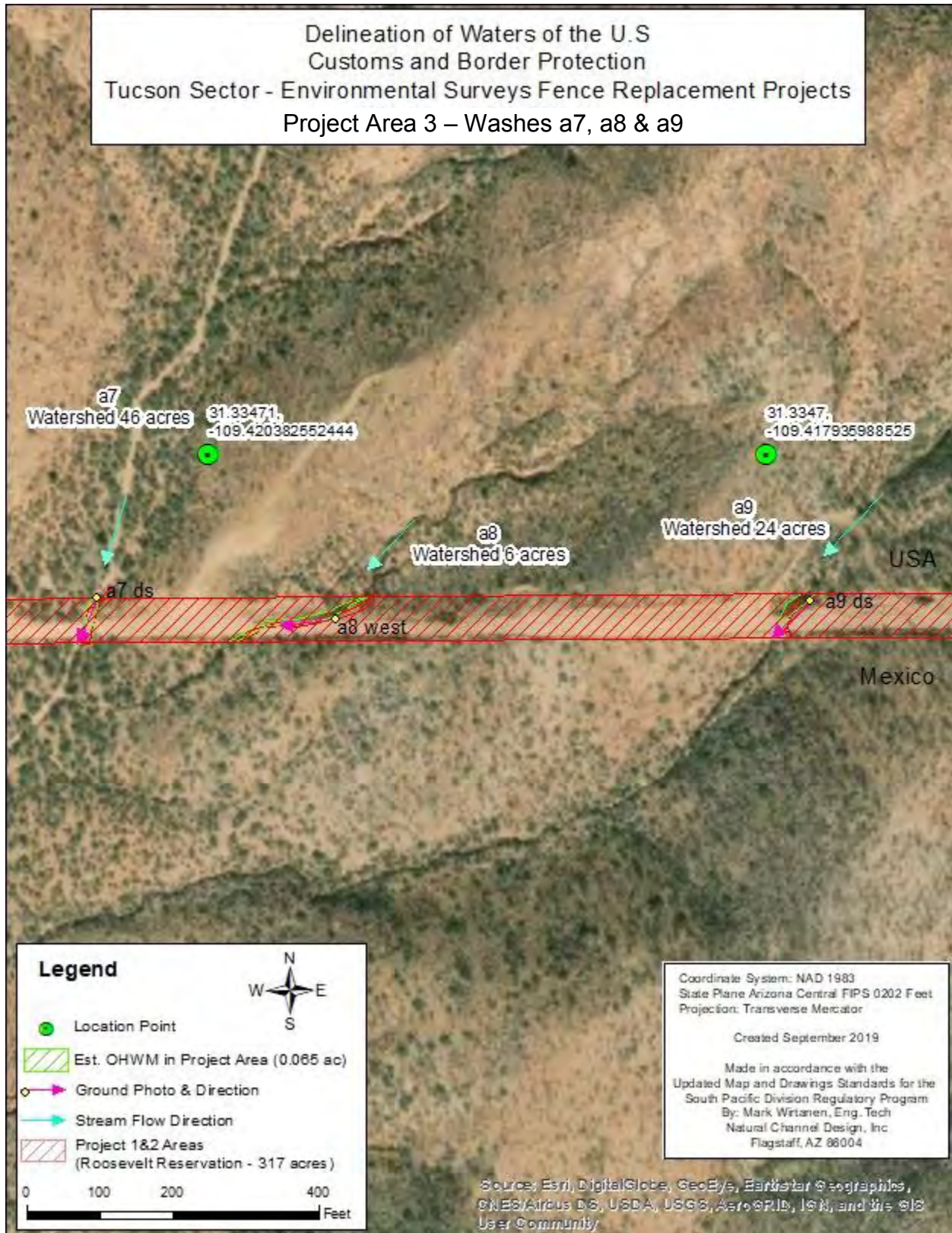


Figure 822. Aerial view of washes a7, a8, and a9 in Project Area 3 with photo points.



**Figure 823. Photo point a7 looking downstream**



**Figure 824. Photo point a8 looking downstream to the west.**



**Figure 825. Photo point a9 looking downstream**

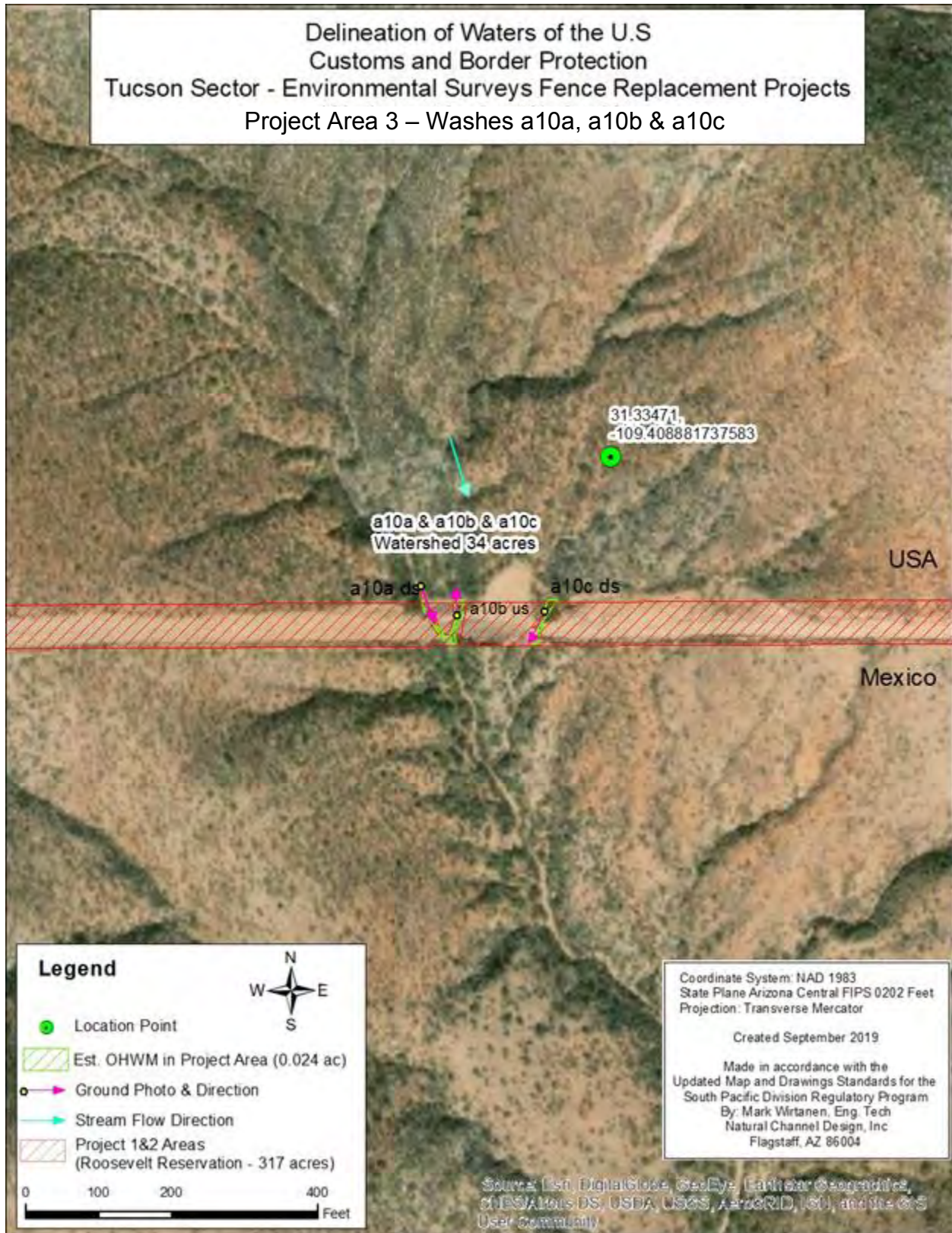


Figure 826. Aerial view of washes a10a, a10b, and a10c in Project Area 3 with photo points.





**Figure 827. Photo point a10a looking downstream**



**Figure 828. Photo point a10b looking upstream from culvert inlet**



**Figure 829. Photo point a10c looking downstream**



Figure 830. Aerial view of washes a11 and a12 in Project Area 3 with photo points.



**Figure 831. Photo point a11 looking downstream**



**Figure 832. Photo point a12 looking upstream**



**Figure 833. Photo point a12 looking downstream**

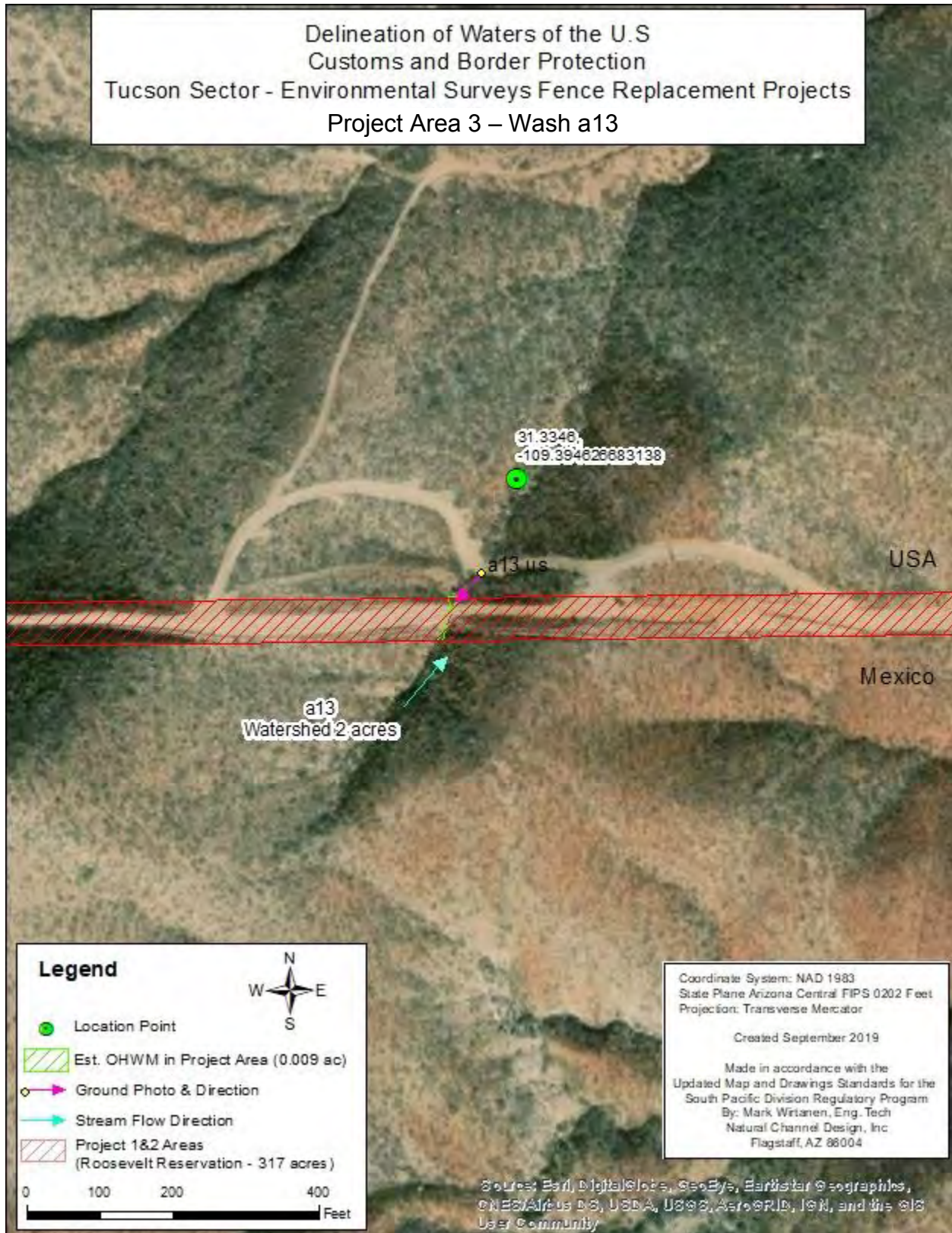


Figure 834. Aerial view of wash a13 in Project Area 3 with photo points.



**Figure 835. Photo point a13 looking upstream**



Figure 836. Aerial view of wash a14 Project Area 3 with photo points.





**Figure 837. Photo point a14 looking downstream**



Figure 838. Aerial view of wash c15 in Project Area 3 with photo points.



**Figure 839. Photo point c15 looking downstream**



Figure 840. Aerial view of wash c16 in Project Area 3 with photo points.



**Figure 841. Photo point a16 looking downstream**

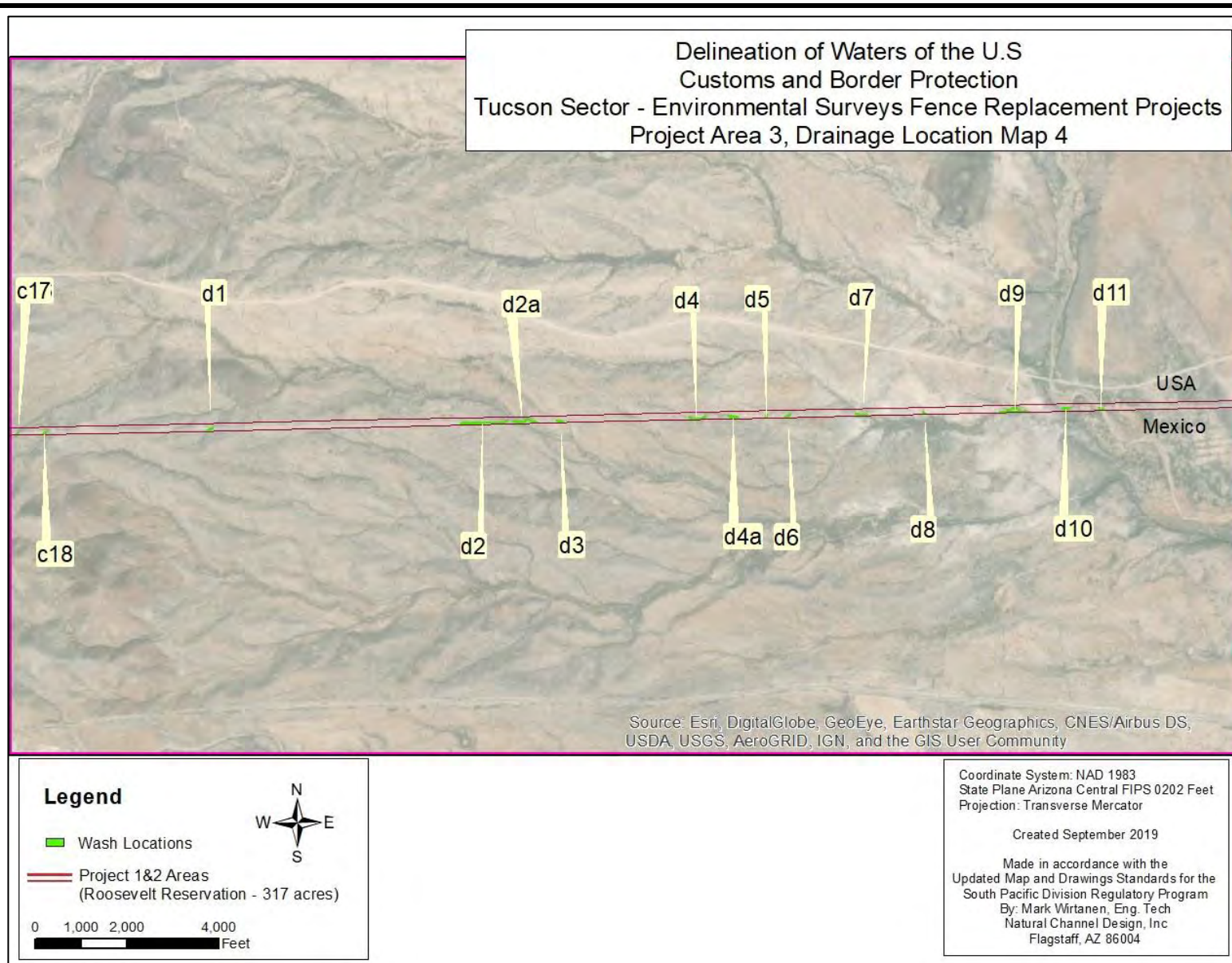


Figure 842. Project Area 3, Segment 3, Location Map 4.



Figure 843. Aerial view of washes c17 and c18 in Project Area 3 with photo points.



**Figure 844. Photo point c17 looking upstream**



**Figure 845. Photo point c18 looking upstream**





**Figure 846. Photo point c18 looking east**

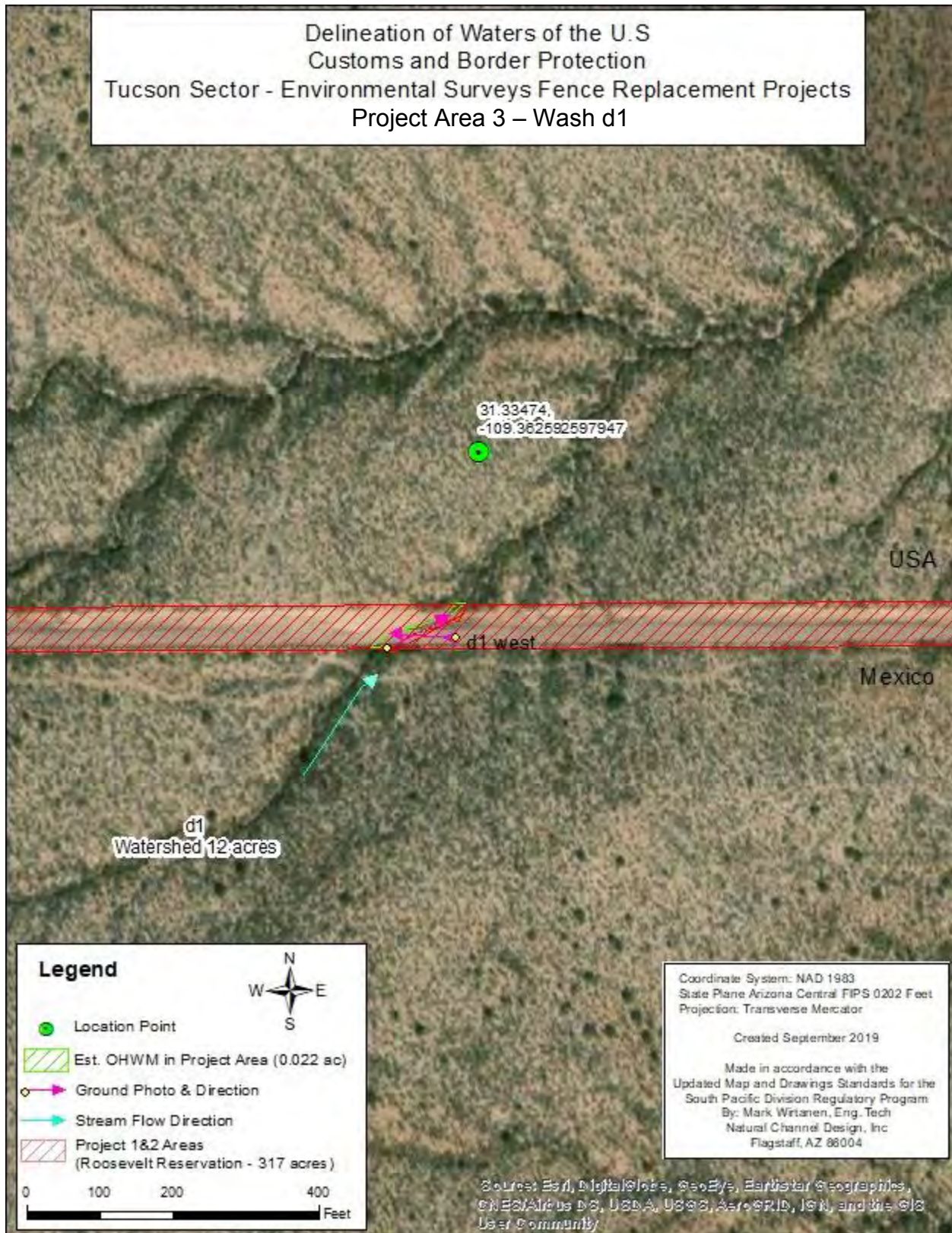


Figure 847 . Aerial view of wash d1 in Project Area 3 with photo points.



**Figure 848. Photo point d1 looking west**



**Figure 849. Photo point d1 looking downstream**



Figure 850. Aerial view of wash d2 in Project Area 3 with photo points.



**Figure 851. Photo point d2 at ditch forming along road**



Figure 852. Aerial view of washes d2a and d3 in Project Area 3 with photo points.



**Figure 853. Photo point d2a looking downstream**



**Figure 854. Photo point d3 looking downstream**

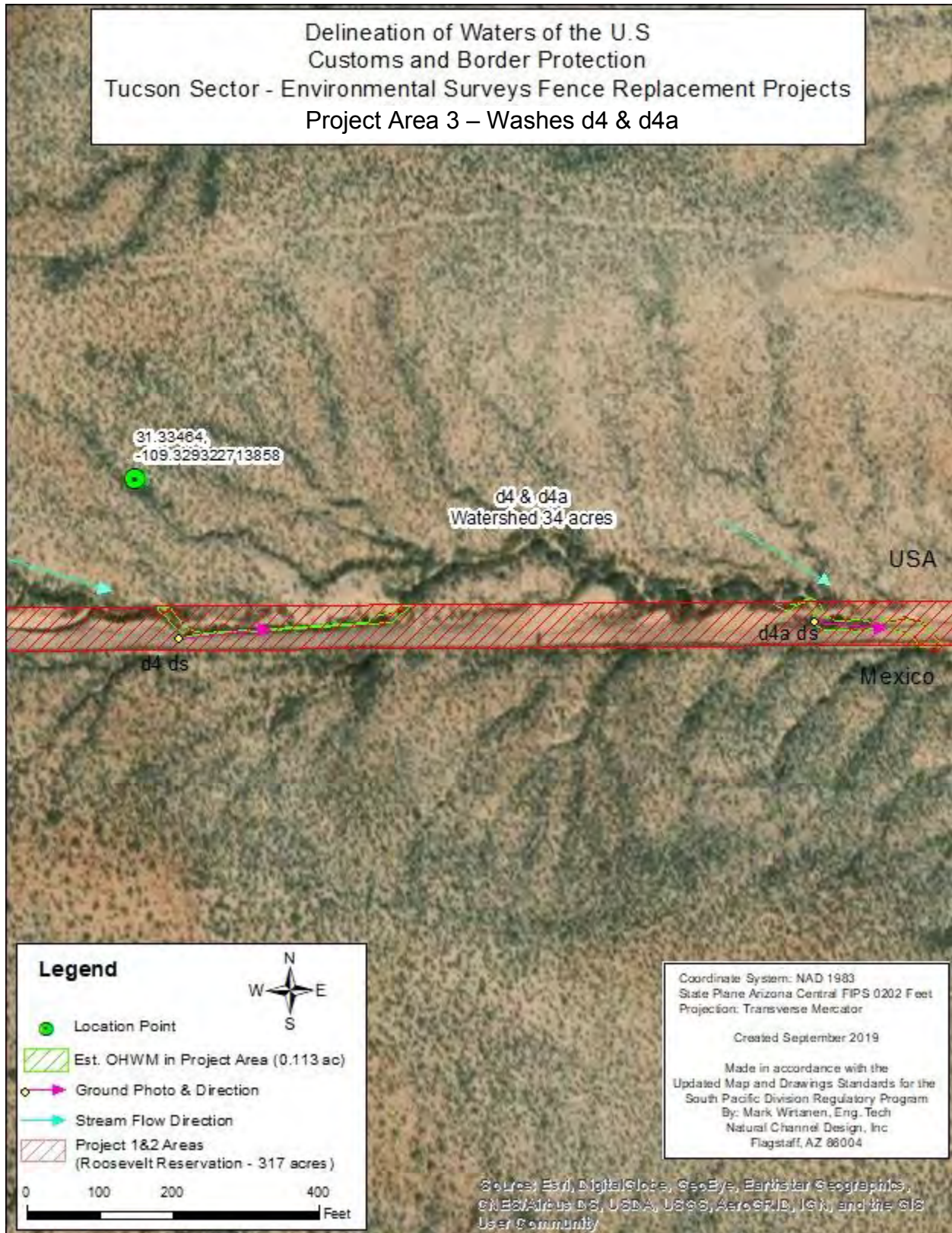


Figure 855. Aerial view of washes d4 and d4a in Project Area 3 with photo points.





**Figure 856. Photo point d4 looking downstream**



**Figure 857. Photo point d4 looking downstream**



Figure 858. Aerial view of washes d5 and d6 in Project Area 3 with photo points.



**Figure 859. Photo point d5 looking upstream**



**Figure 860. Photo point d6 looking upstream**



Figure 861. Aerial view of wash d7 in Project Area 3 with photo points.



**Figure 862. Photo point d7 looking west**



**Figure 863. Photo point d7 looking downstream**



Figure 864. Aerial view of wash d8 in Project Area 3 with photo points.



**Figure 865. Photo point d8 looking upstream**



Figure 866. Aerial view of washes d9 and s9a in Project Area 3 with photo points.





**Figure 867. Photo point d9 looking east**



**Figure 868. Photo point d9 looking upstream**



Figure 869. Photo point d9 looking west



Figure 870. Aerial view of washes d10 and d11 in Project Area 3 with photo points.



**Figure 871. Photo point d10 looking west**



**Figure 872. Photo point d11 looking west**



**Figure 873. Photo point d11 looking upstream**

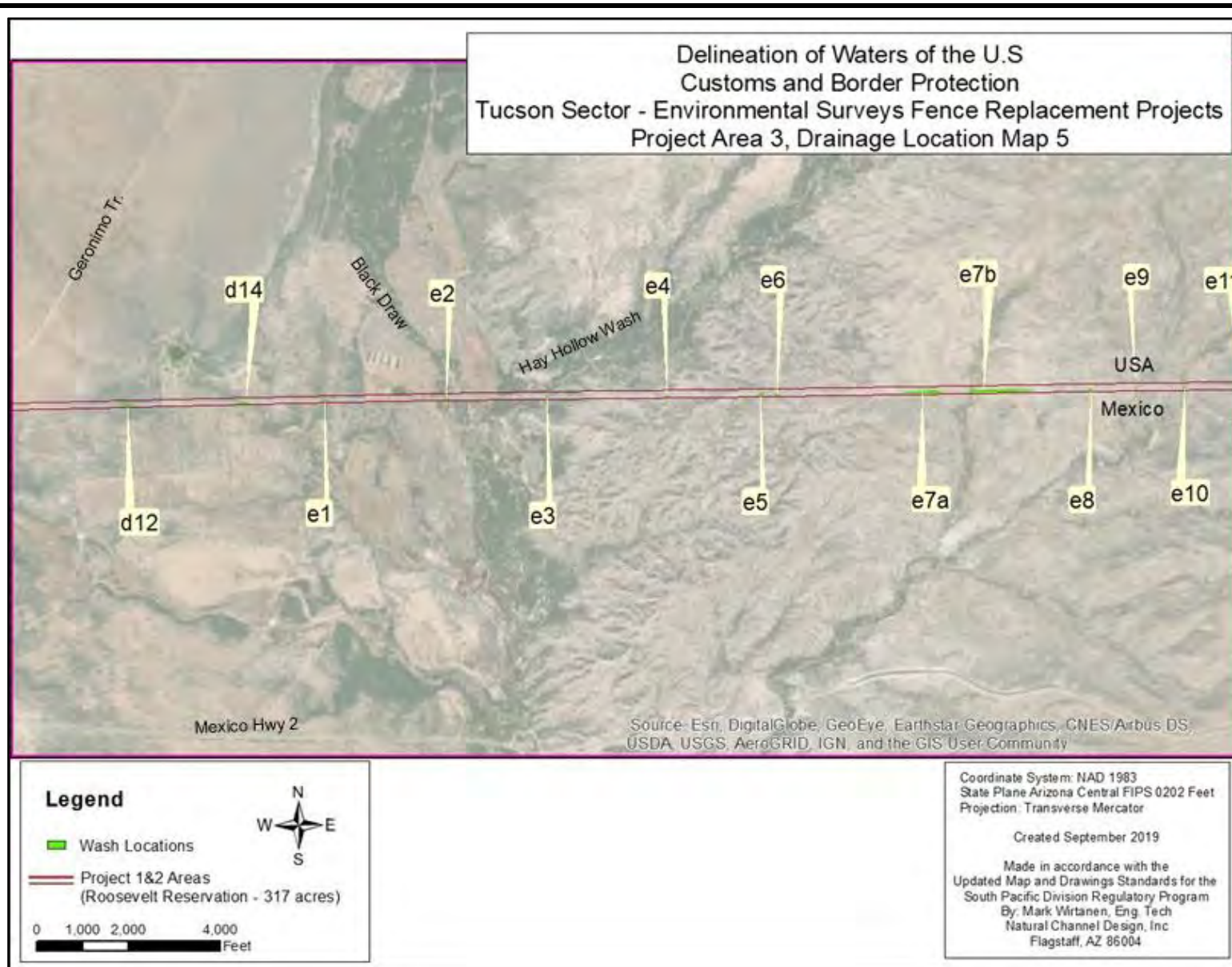


Figure 874. Project Area 3, Segment 3, Location Map 5



Figure 875. Aerial view of wash d12 in Project Area 3 with photo points.



**Figure 876. Photo point d12 looking west**





Figure 877. Aerial view of wash d14 in Project Area 3 with photo points.



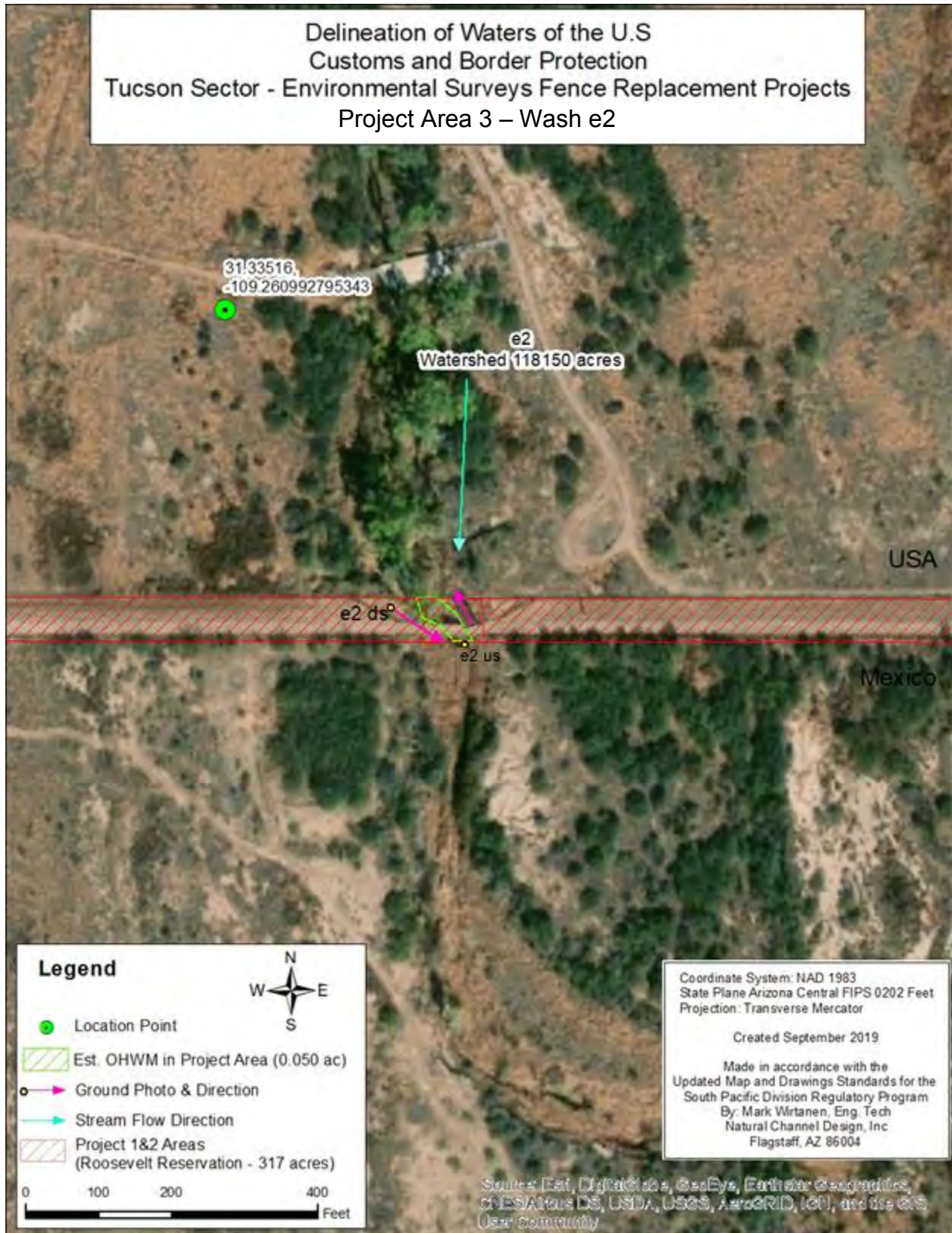
**Figure 878. Photo point d14 looking downstream**



Figure 879. Aerial view of wash e1 in Project Area 3 with photo points.



**Figure 880. Photo point e1 looking west**



**Figure 881. Aerial view of wash e2, Black Draw, in Project Area 3 with photo points.**  
*This channel has perennial waters and is critical habitat for several fish species.*



Figure 882. Closer aerial view of wash e2, Black Draw, in Project Area 3 with photo points.



**Figure 883. Photo point e2 looking upstream. This channel is Black Draw, a perennial channel and freshwater wetland.**



**Figure 884. Photo point e2 looking downstream from the east bank**



Figure 885. Aerial view of wash e3, Hay Hollow Wash, in Project Area 3 with photo points.





Figure 886. Closer aerial view of wash e3, Hay Hollow Wash, in Project Area 3 with photo points.



**Figure 887. Photo point e3 looking downstream. This channel is Hay Hollow Wash and it is mapped as a wetland in the National Wetlands Inventory.**



**Figure 888. Photo point e3 looking east**

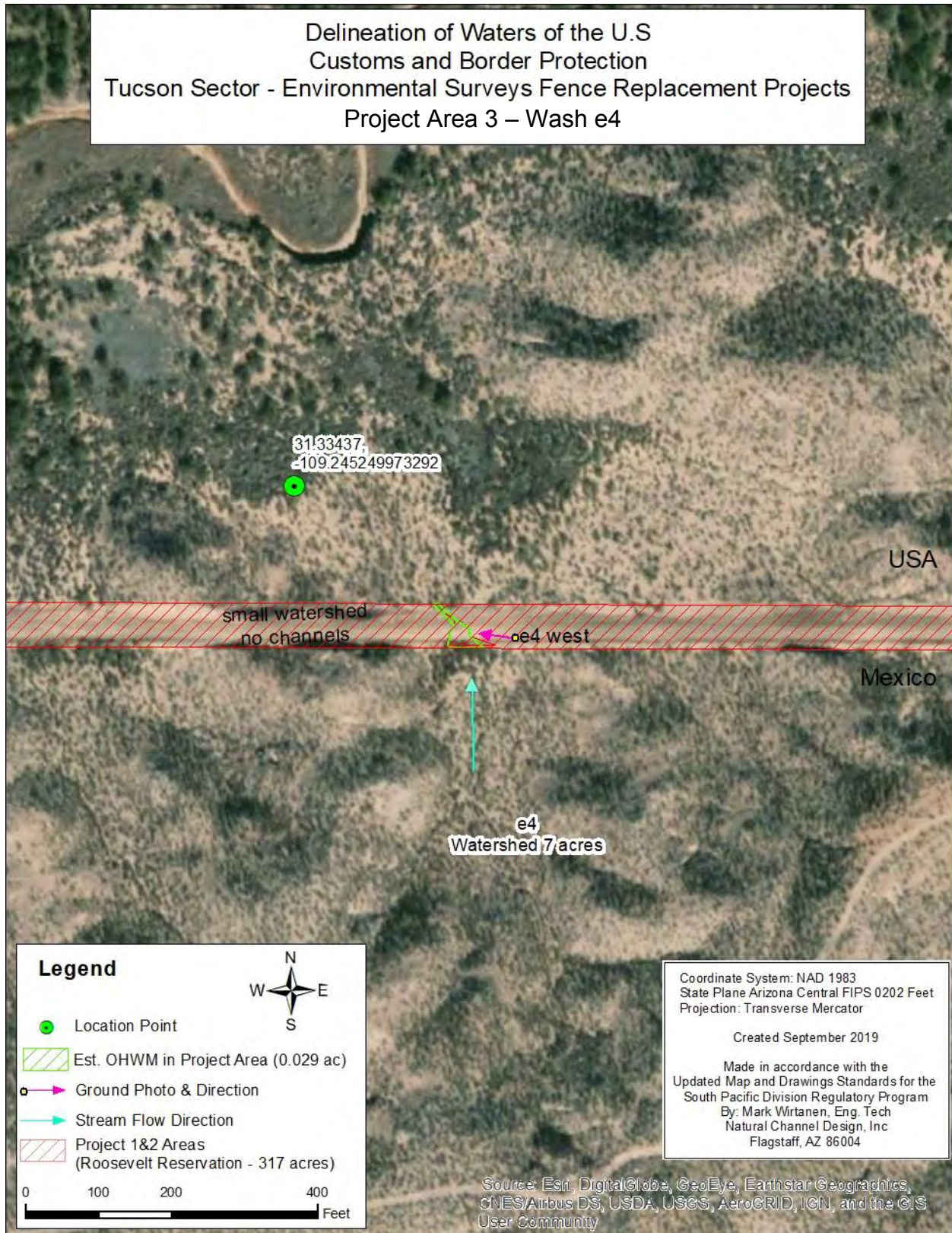


Figure 889. Aerial view of wash e4 in Project Area 3 with photo points.



**Figure 890. Photo point e4 looking west**



Figure 891. Aerial view of washes e5 and e6 in Project Area 3 with photo points.



**Figure 892. Photo point e5 looking upstream.**  
*The vegetation is non-native Johnson grass.*



**Figure 893. Photo point e6 looking downstream**

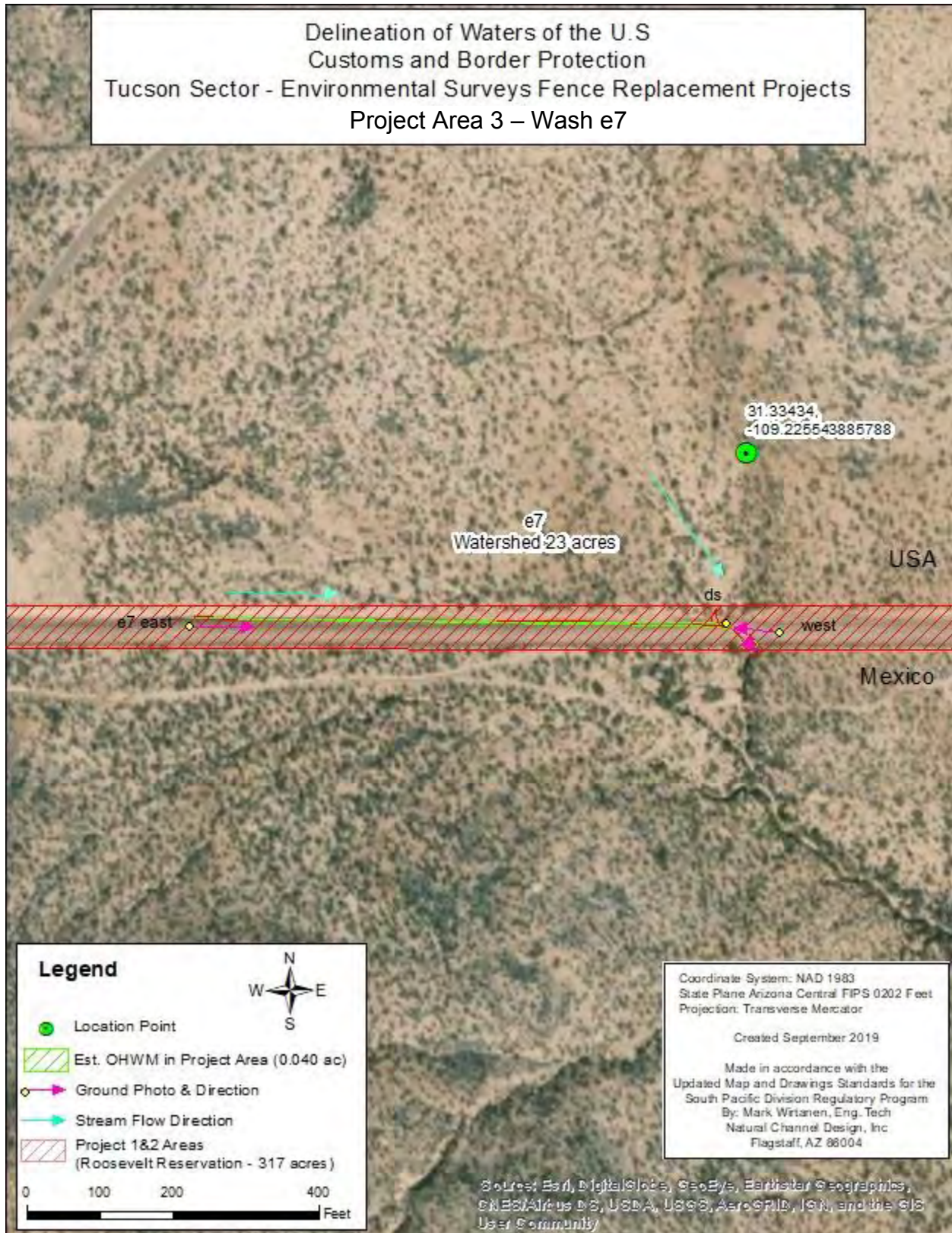


Figure 894. Aerial view of wash e7 in Project Area 3 with photo points.



**Figure 895. Photo point e7 looking east**



**Figure 896. Photo point e7 looking downstream**





**Figure 897. Photo point e7 looking west**

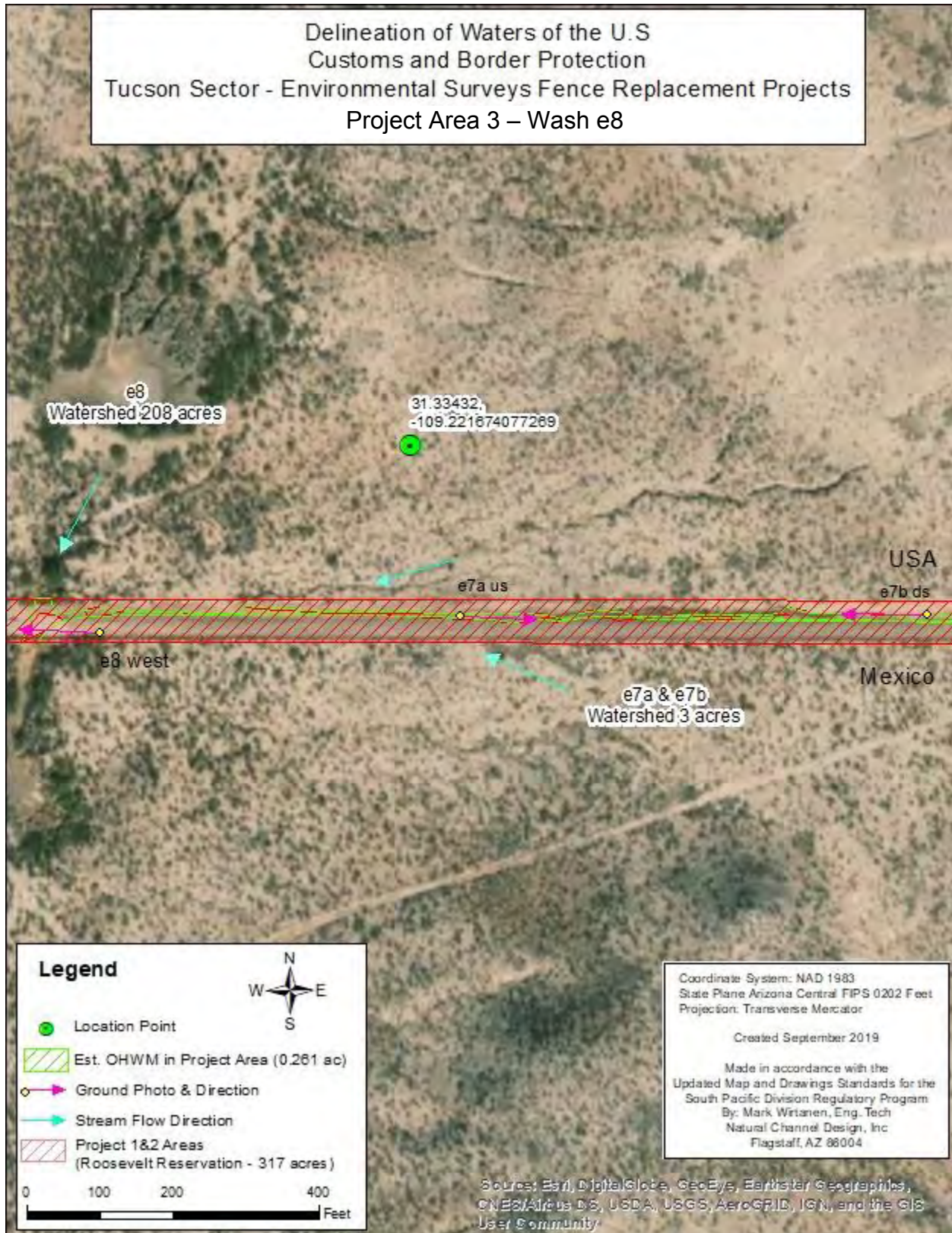


Figure 898. Aerial view of wash e8 in Project Area 3 with photo points.



**Figure 899. Photo point e8 looking west**



**Figure 900. Photo point e7a looking upstream**



**Figure 901. Photo point e7b looking downstream**



Figure 902. Aerial view of washes e8a and e9 in Project Area 3 with photo points.



Figure 903. Photo point e8a looking west



Figure 904. Photo point e8a looking downstream at culvert outlet



**Figure 905. Photo point e9 looking downstream at culvert outlet**



**Figure 906. Photo point e9 looking upstream at culvert inlet.**



Figure 907. Aerial view of wash e10 in Project Area 3 with photo points.





**Figure 908. Photo point e10 looking downstream**

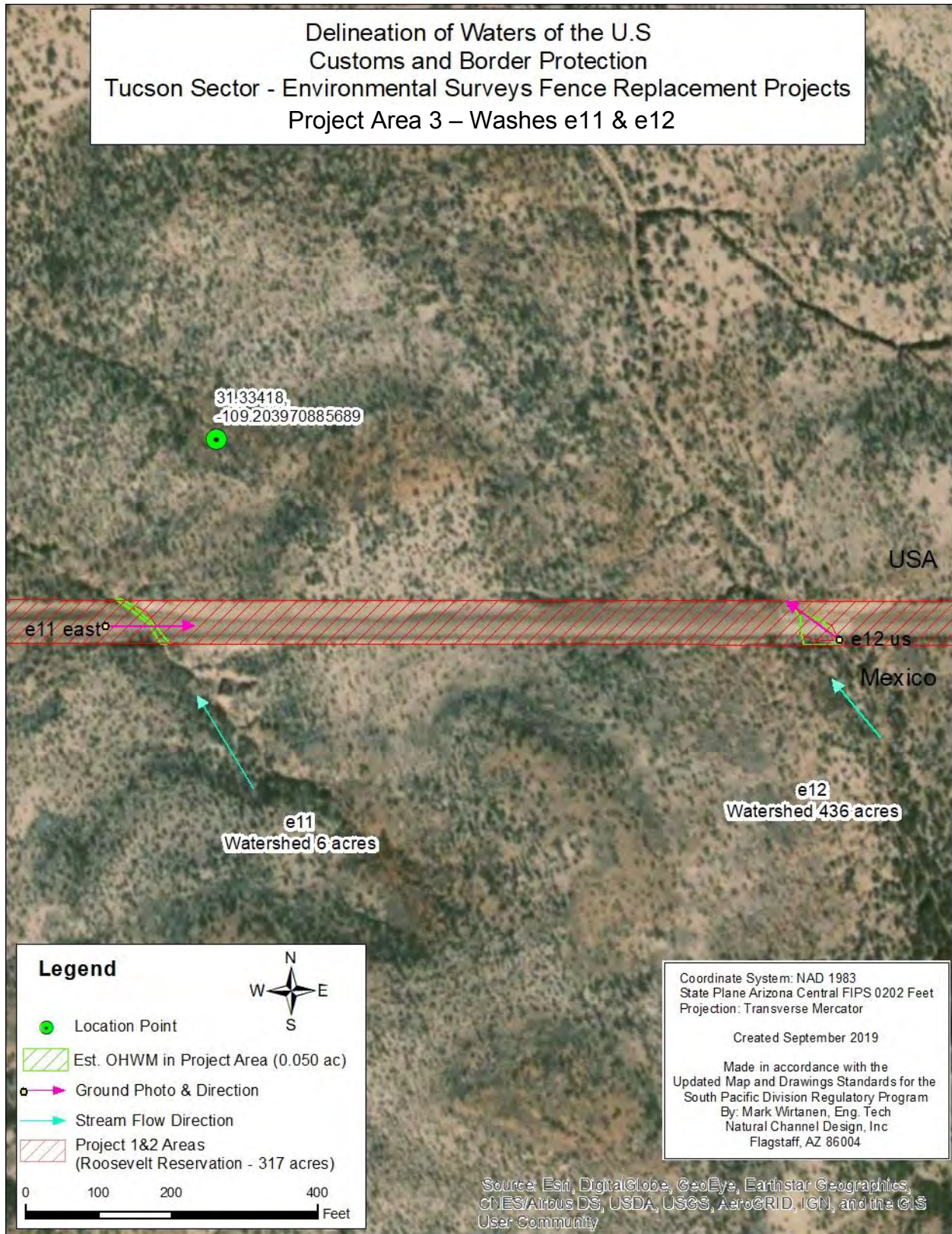


Figure 909. Aerial view of washes e11 and e12 in Project Area 3 with photo points.



**Figure 910. Photo point e11 looking east**



**Figure 911. Photo point e12 looking downstream**

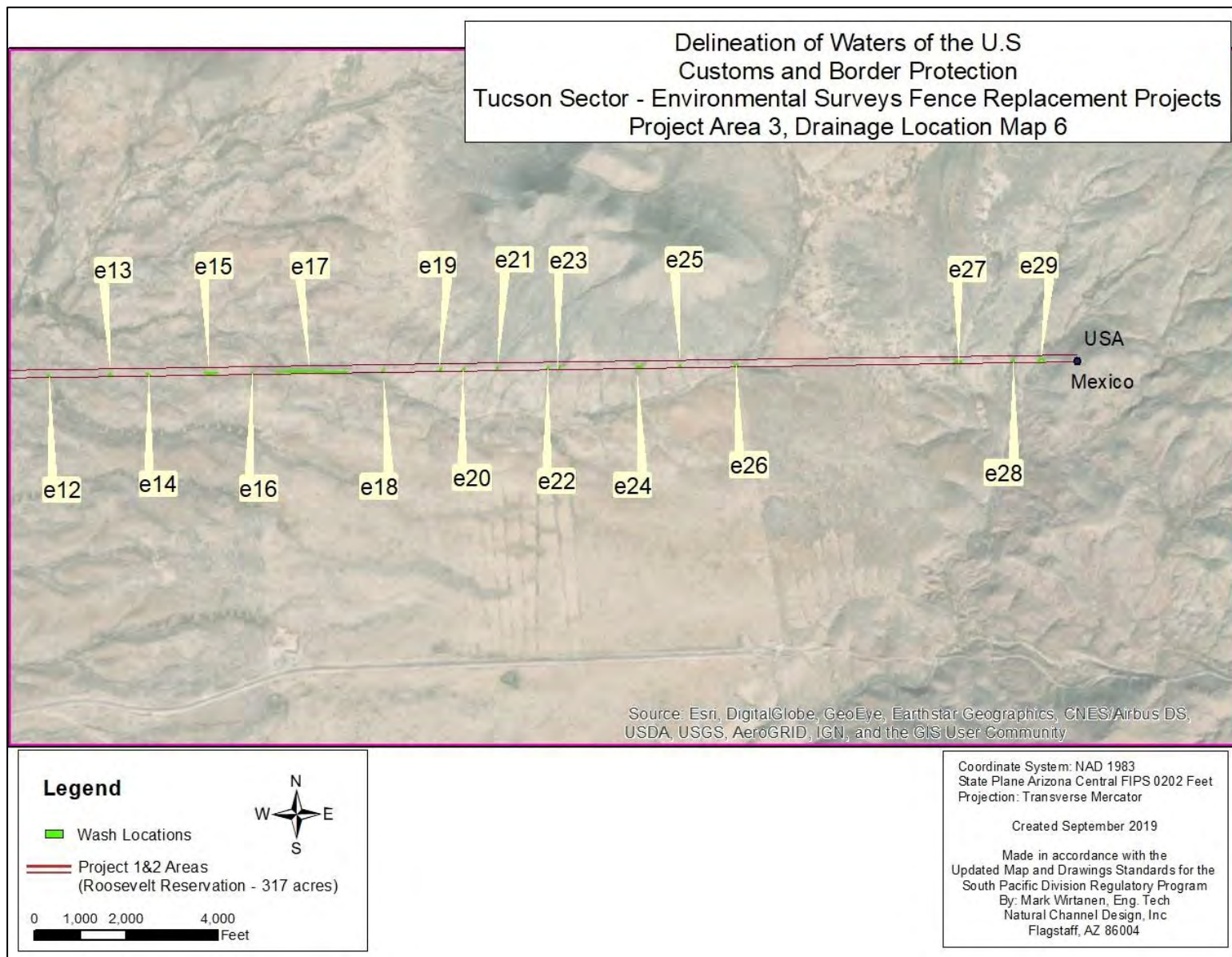


Figure 912. Project Area 3, Segment 3, Location Map 6

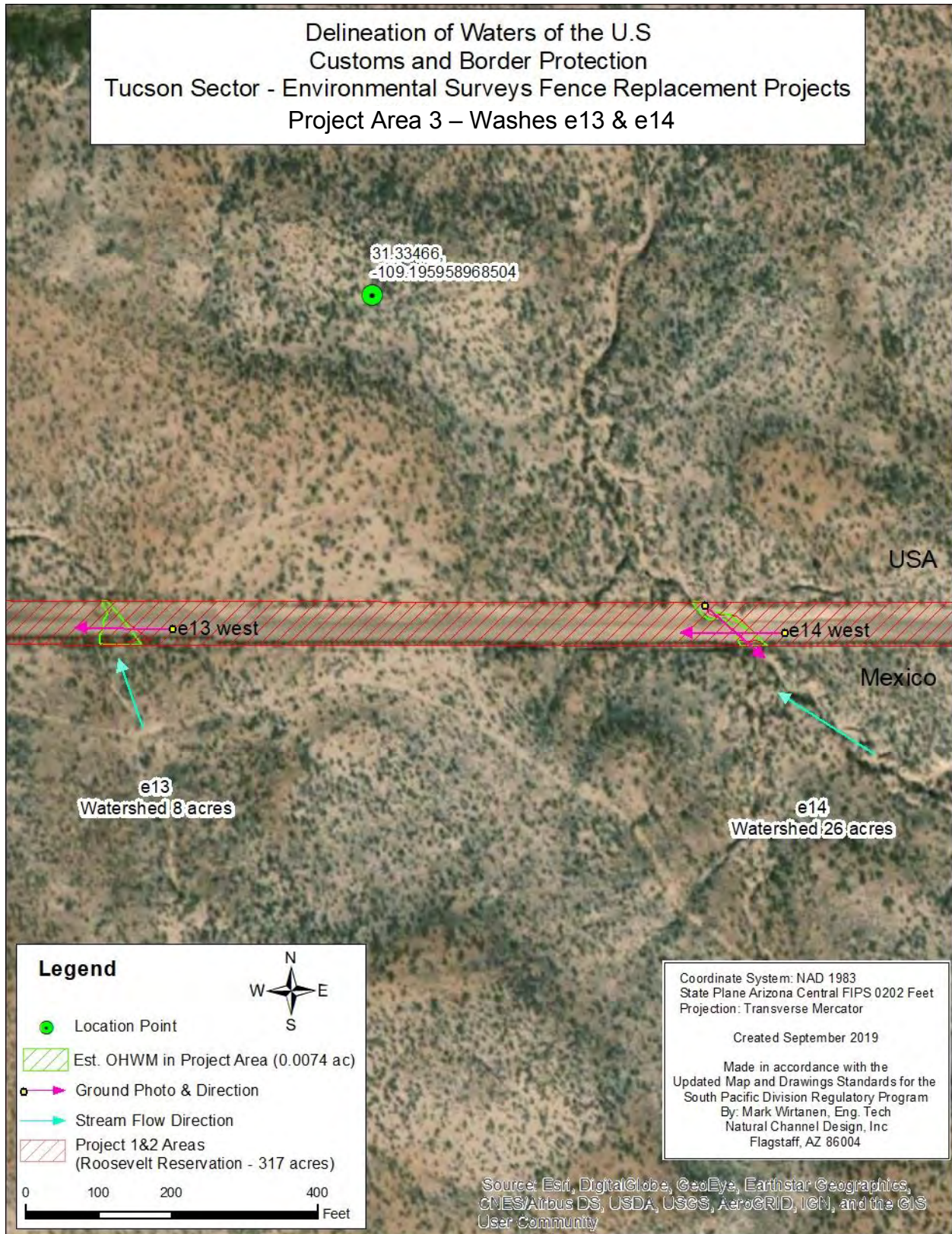


Figure 913. Aerial view of washes e13 and e14 in Project Area 3 with photo points.



Figure 914. Photo point e13 looking west



Figure 915. Photo point e14 looking upstream



**Figure 916. Photo point e14 looking west**

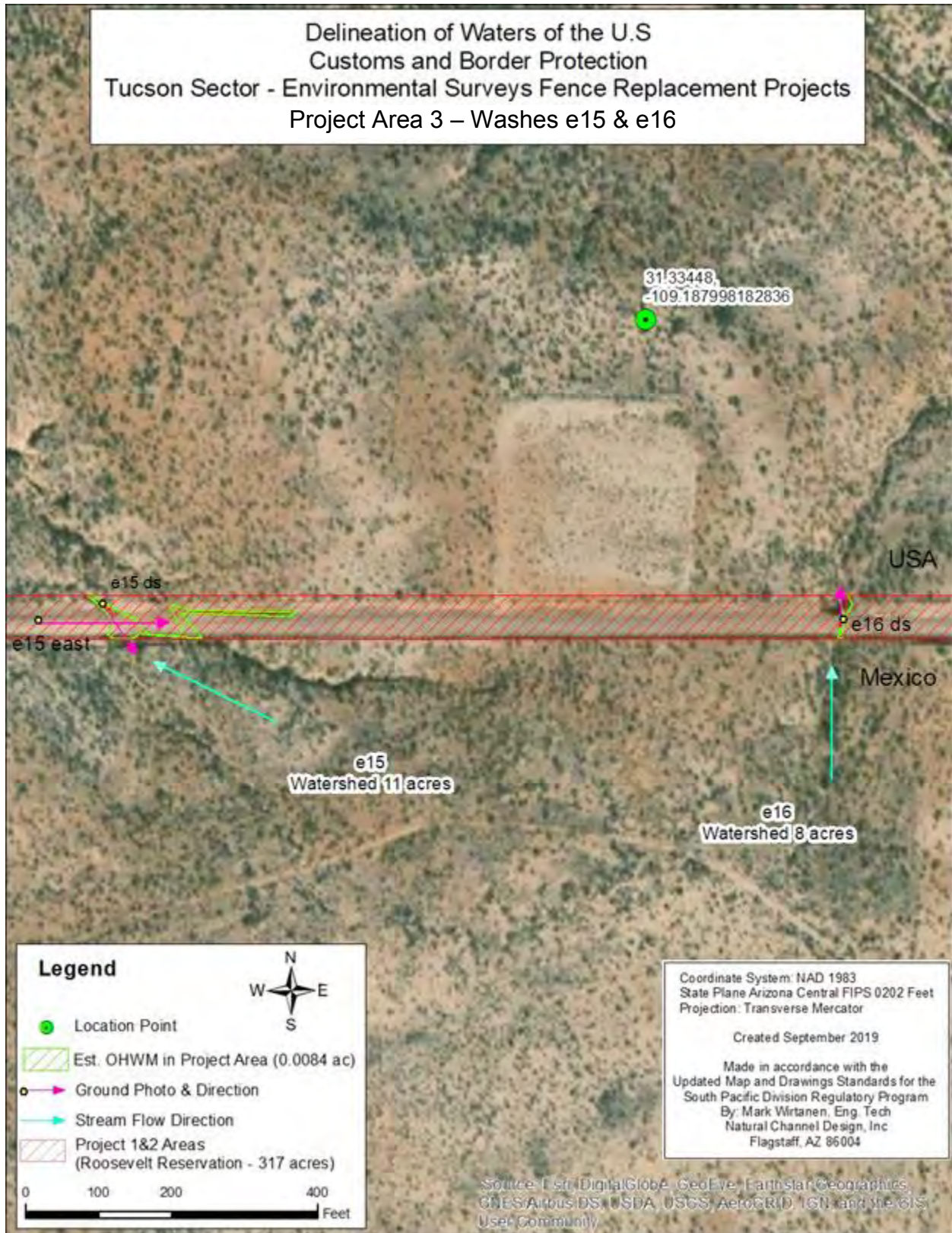


Figure 917. Aerial view of washes e15 and e16 in Project Area 3 with photo points.





**Figure 918. Photo point e15 looking east**



**Figure 919. Photo point e15 looking upstream**



**Figure 920. Photo point e16 looking downstream at culvert outlet**



Figure 921. Aerial view of wash e17 (west side) in Project Area 3 with photo points.



**Figure 922. Photo point e17 looking east**

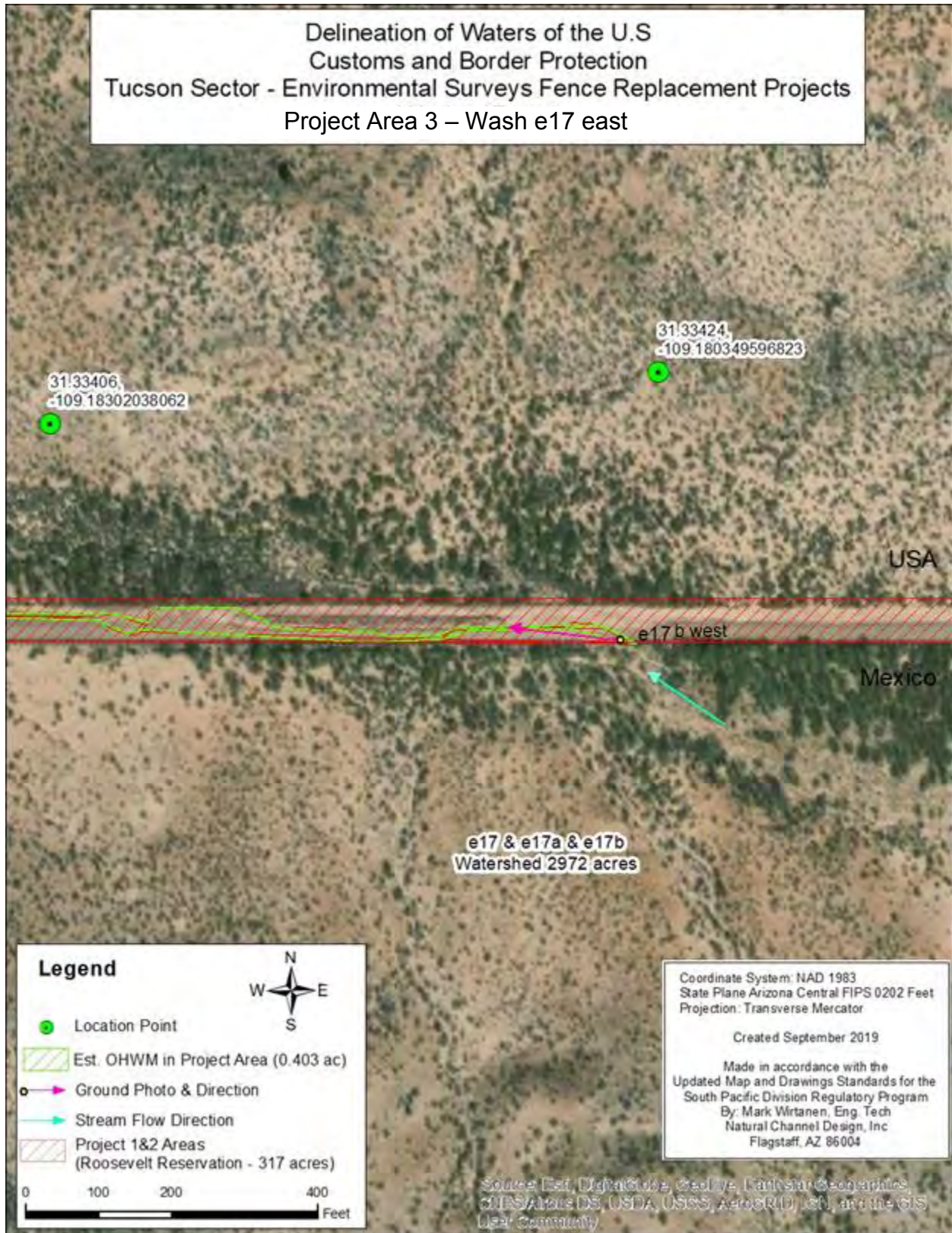


Figure 923. Aerial view of wash e17 (east side) in Project Area 3 with photo points.



**Figure 924. Photo point e17 b looking west**



Figure 925. Aerial view of wash e18 in Project Area 3 with photo points.



**Figure 926. Photo point e18 looking east**



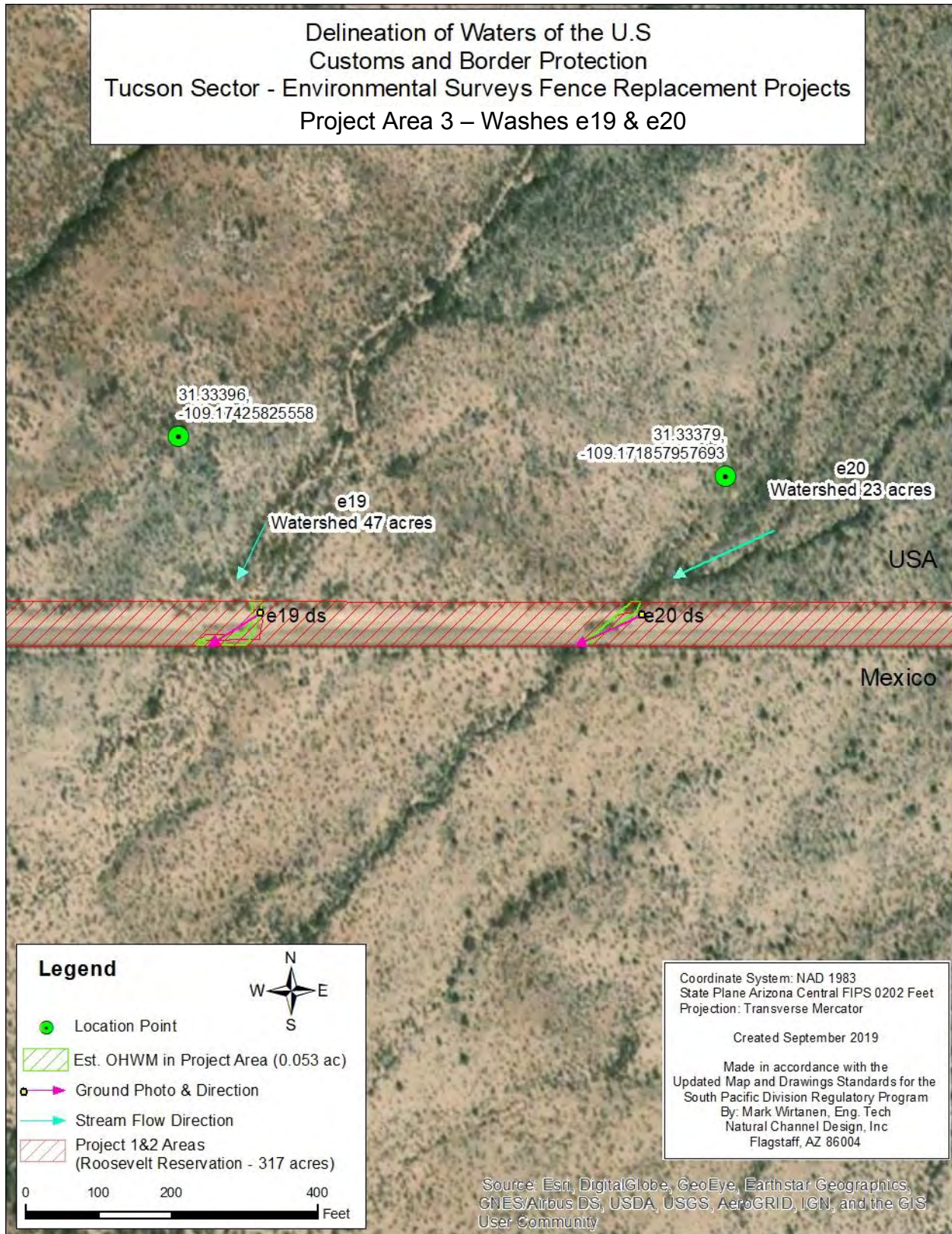


Figure 927. Aerial view of washes e19 and e20 in Project Area 3 with photo points.



Figure 928. Photo point e19 looking downstream

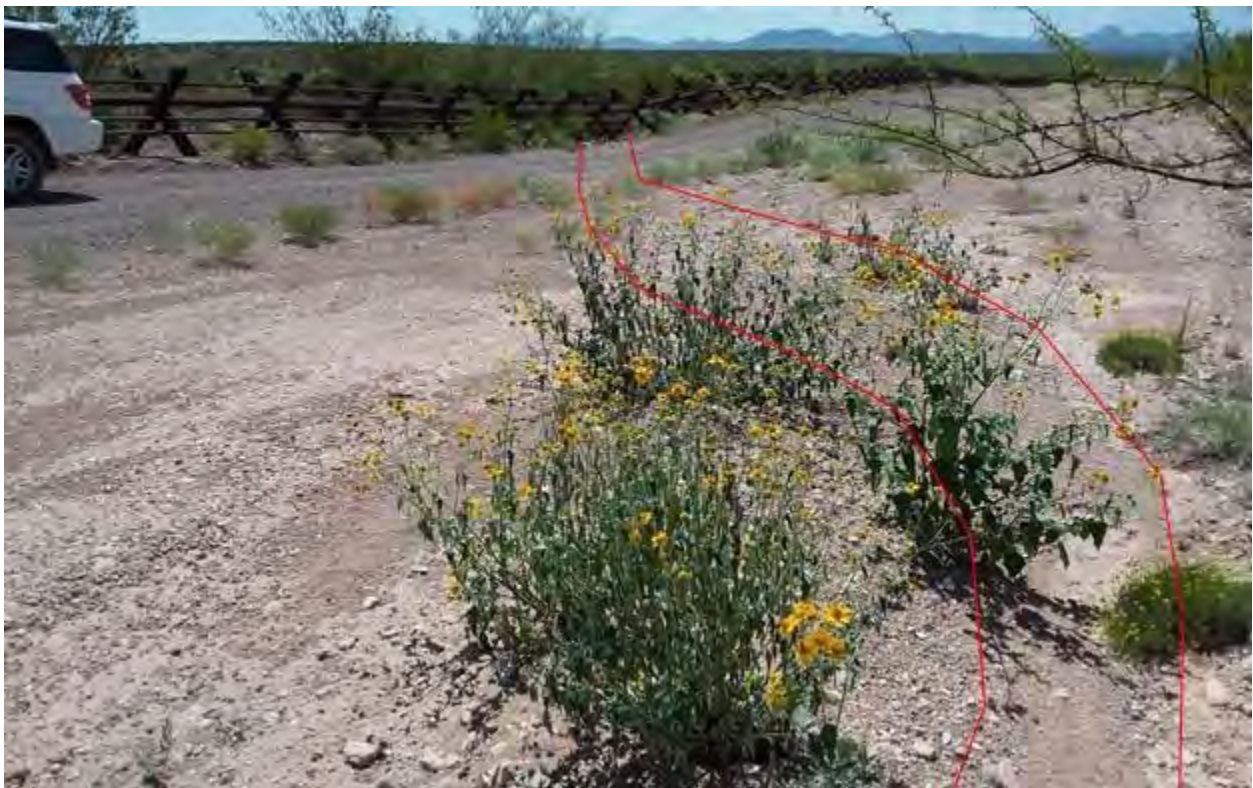
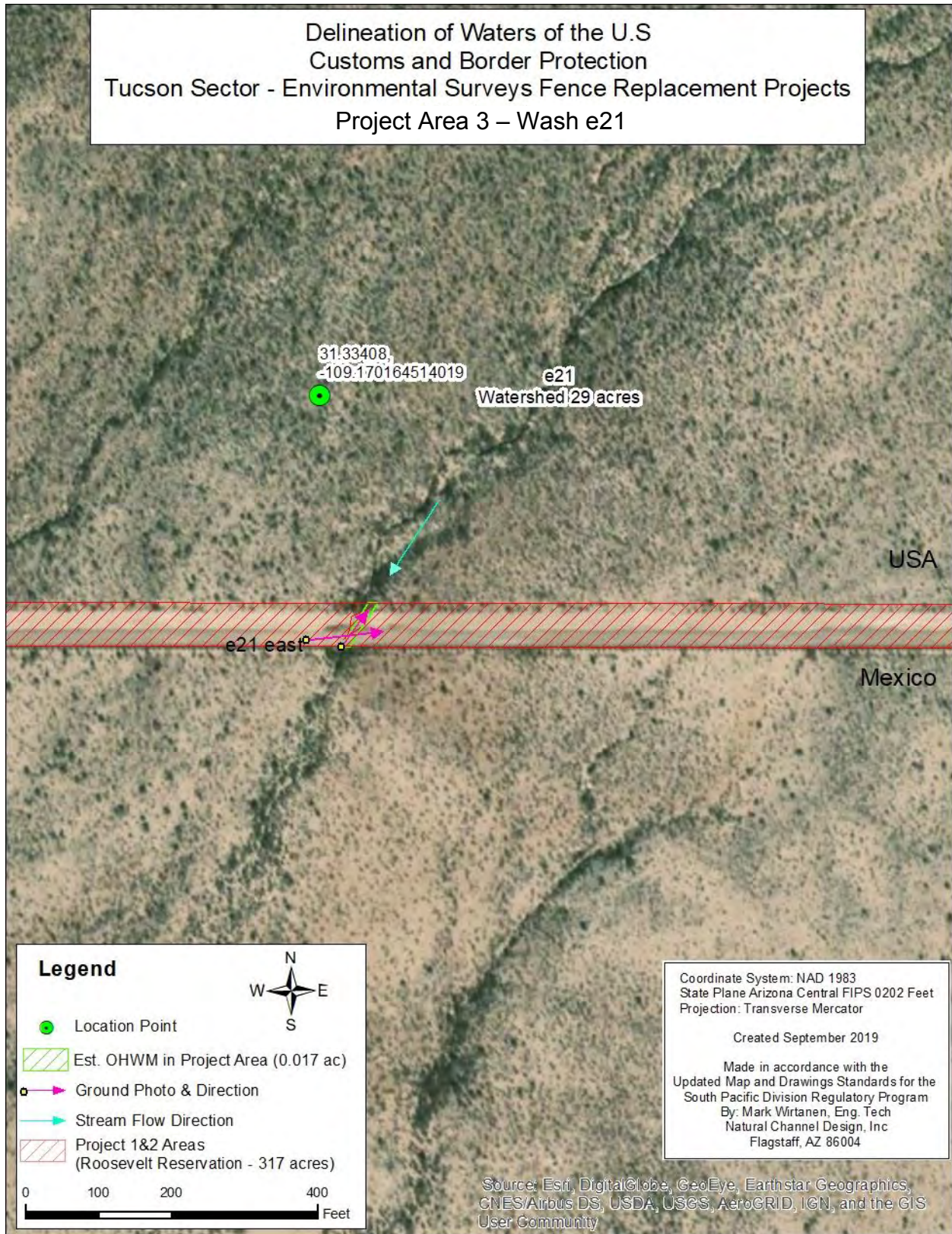


Figure 929. Photo point e20 looking downstream



**Figure 930. Aerial view of wash e21 in Project Area 3 with photo points.**



**Figure 931. Photo point e21 looking east**



**Figure 932. Photo point e21 looking upstream**

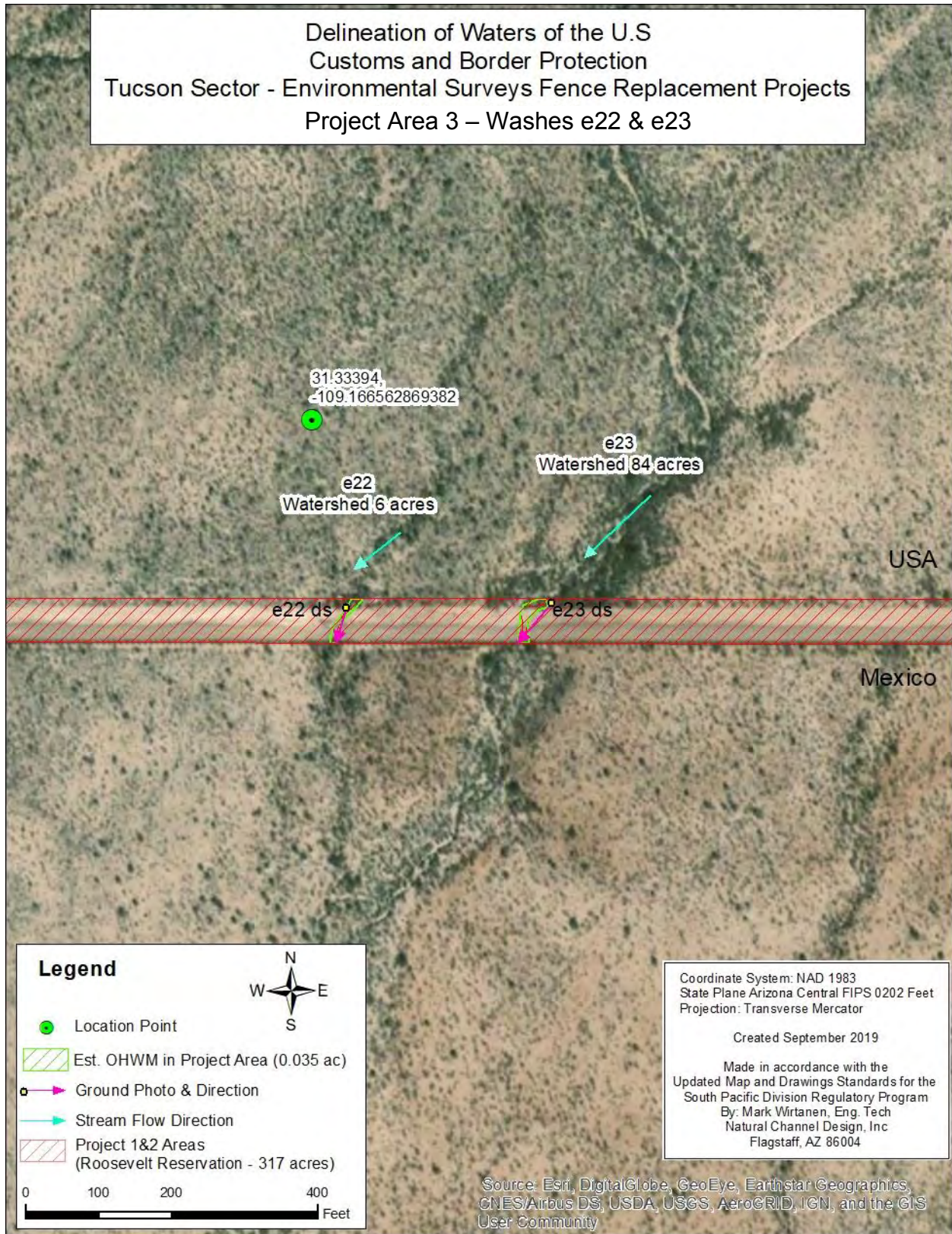


Figure 933. Aerial view of washes e22 and e23 in Project Area 3 with photo points.



**Figure 934. Photo point e22 looking downstream**



**Figure 935. Photo point e23 looking downstream**

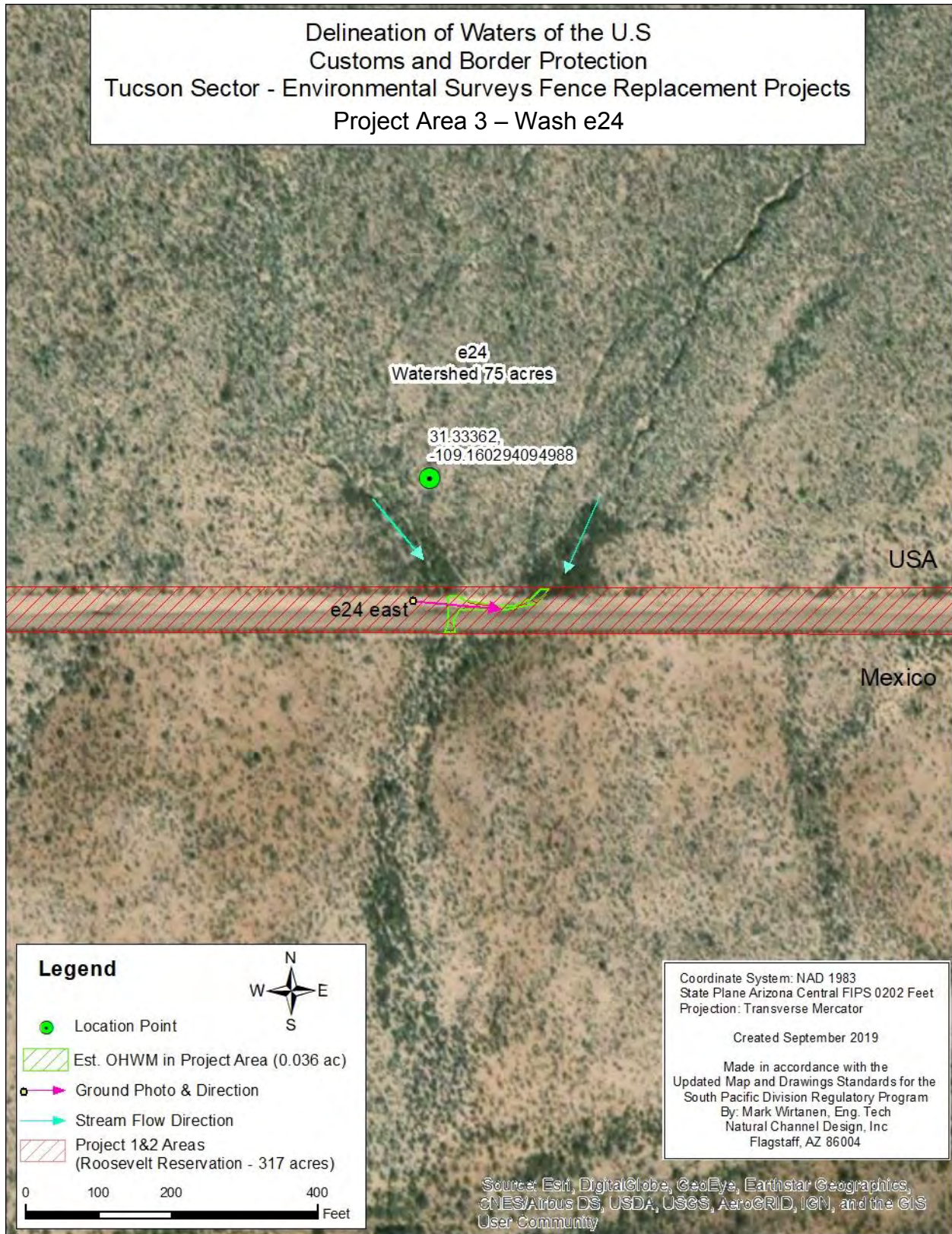


Figure 936. Aerial view of wash e24 in Project Area 3 with photo points.



**Figure 937. Photo point e24 looking east (flow crosses culvert under road)**



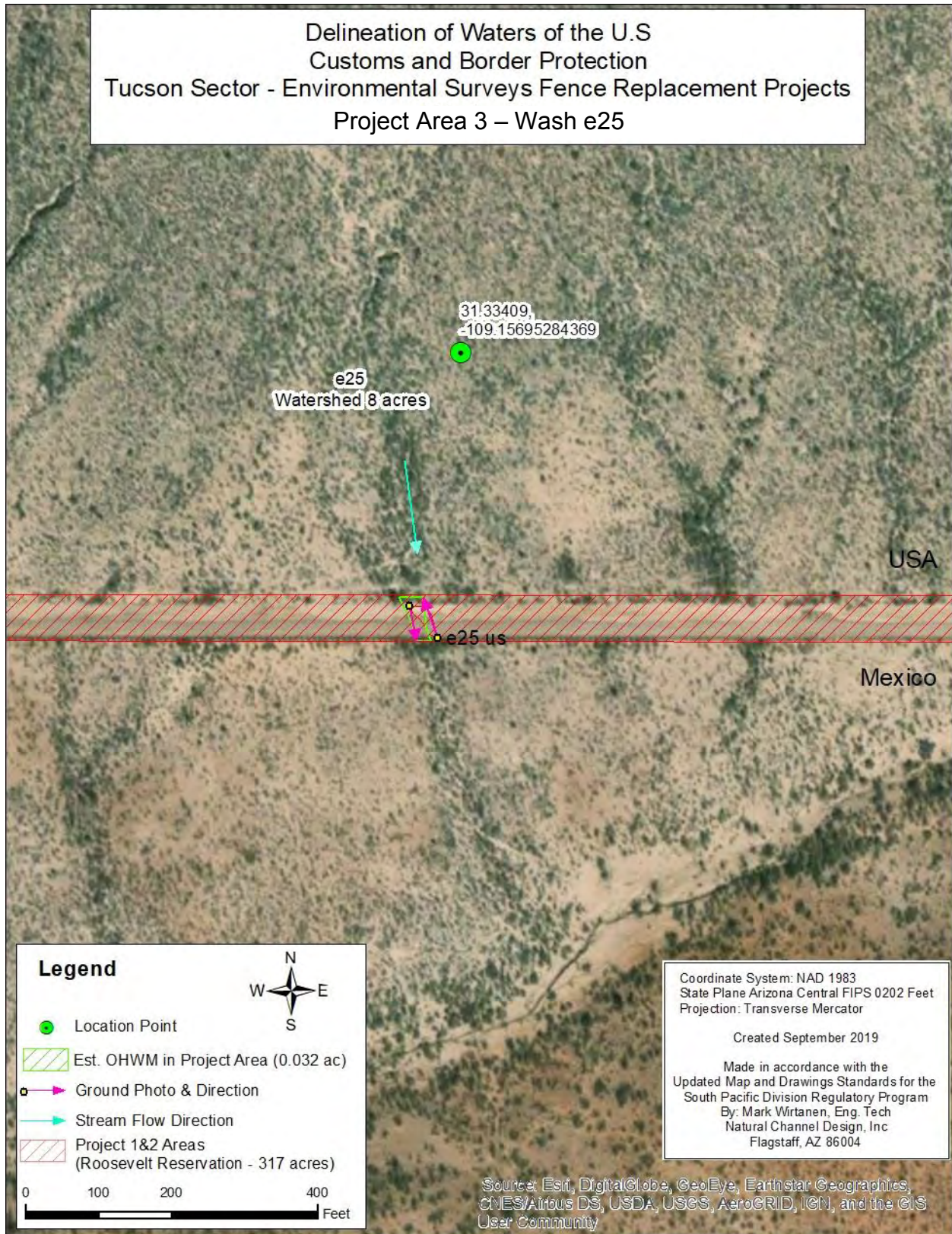


Figure 938. Aerial view of wash e25 in Project Area 3 with photo points.



**Figure 939. Photo point e25 looking upstream**



**Figure 940. Photo point e25 looking downstream**



**Figure 941. Aerial view of wash e26 in Project Area 3 with photo points.**



Figure 942 . Photo point e26 looking west

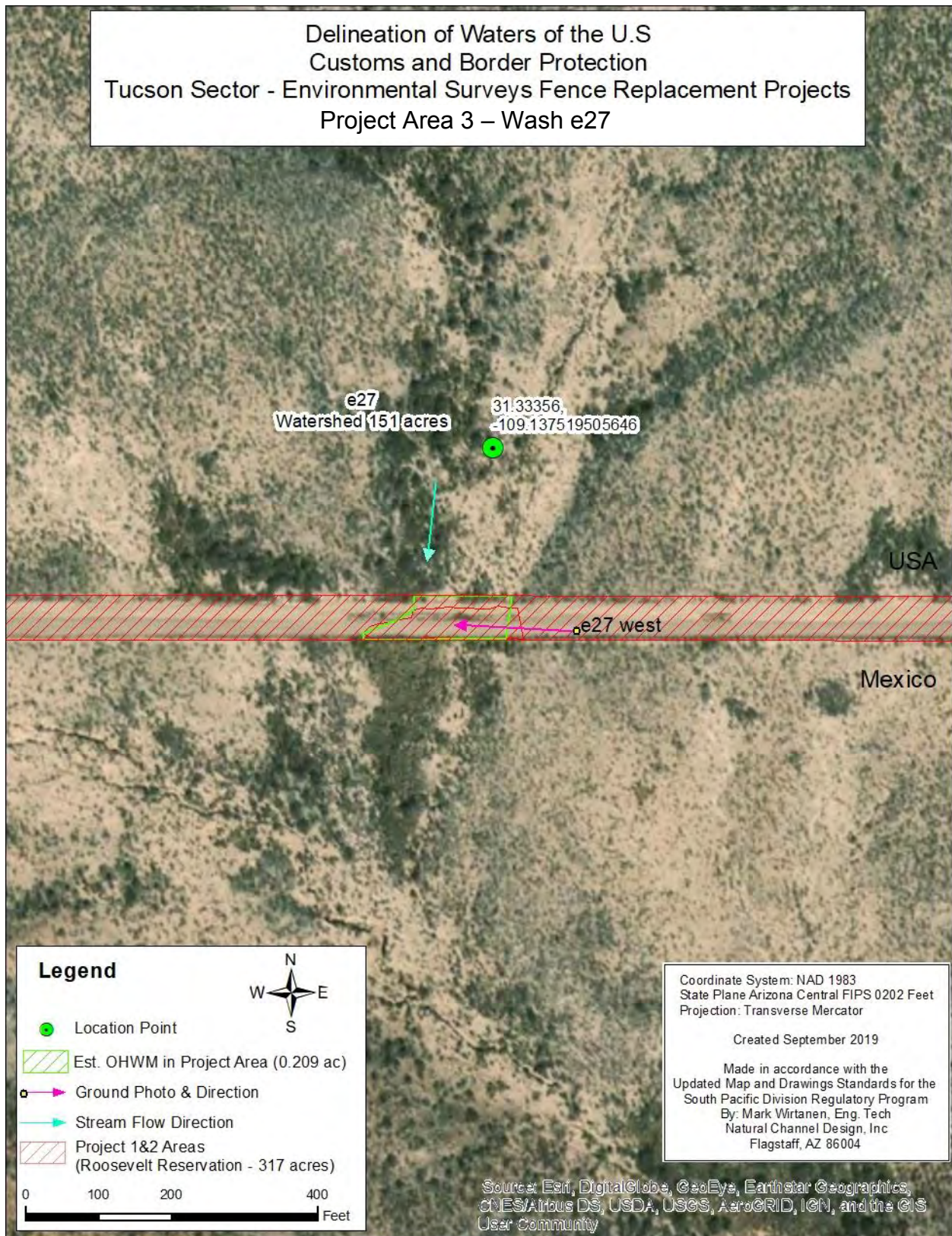


Figure 943. Aerial view of wash e27 in Project Area 3 with photo points.



Figure 944 . Photo point e27 looking west

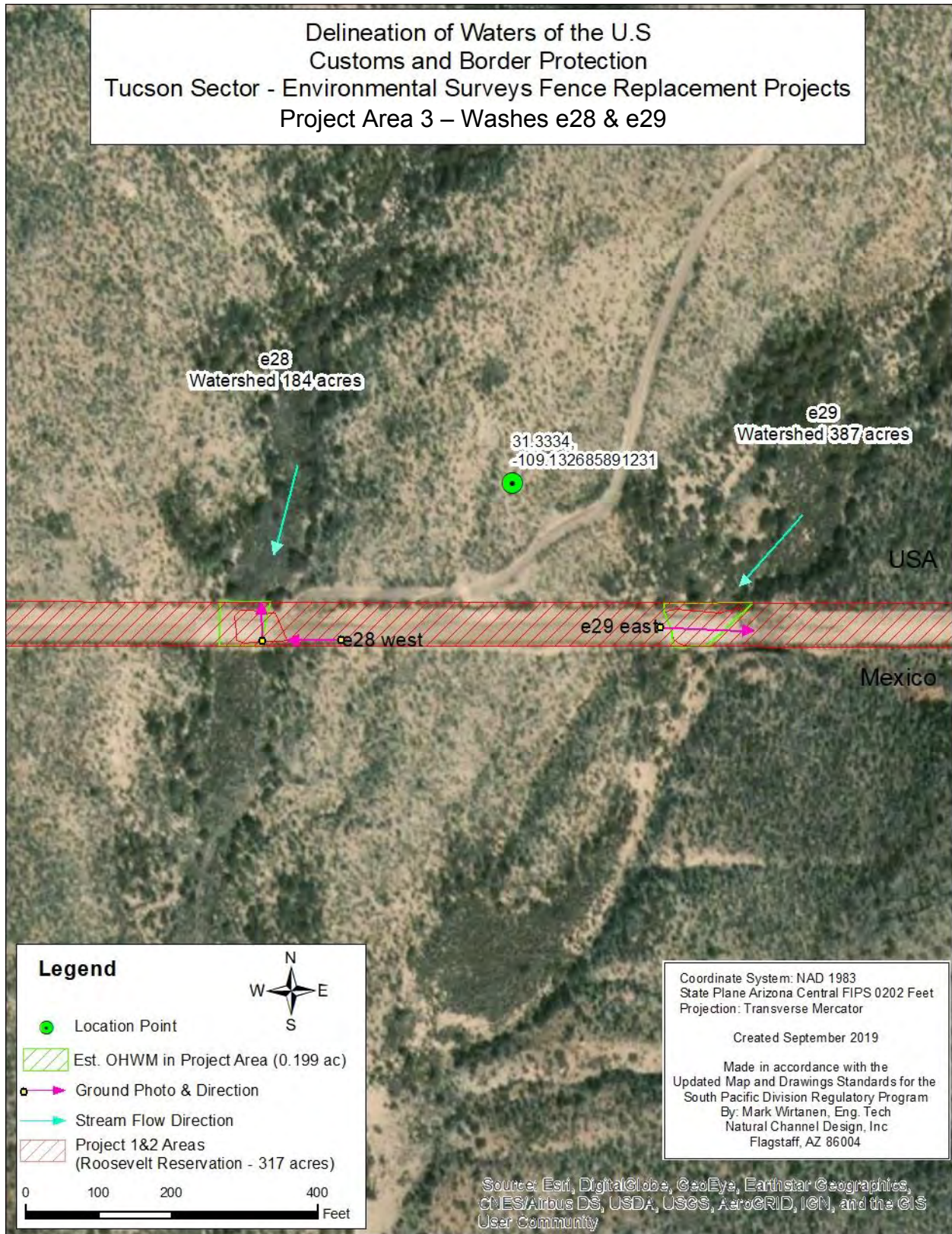
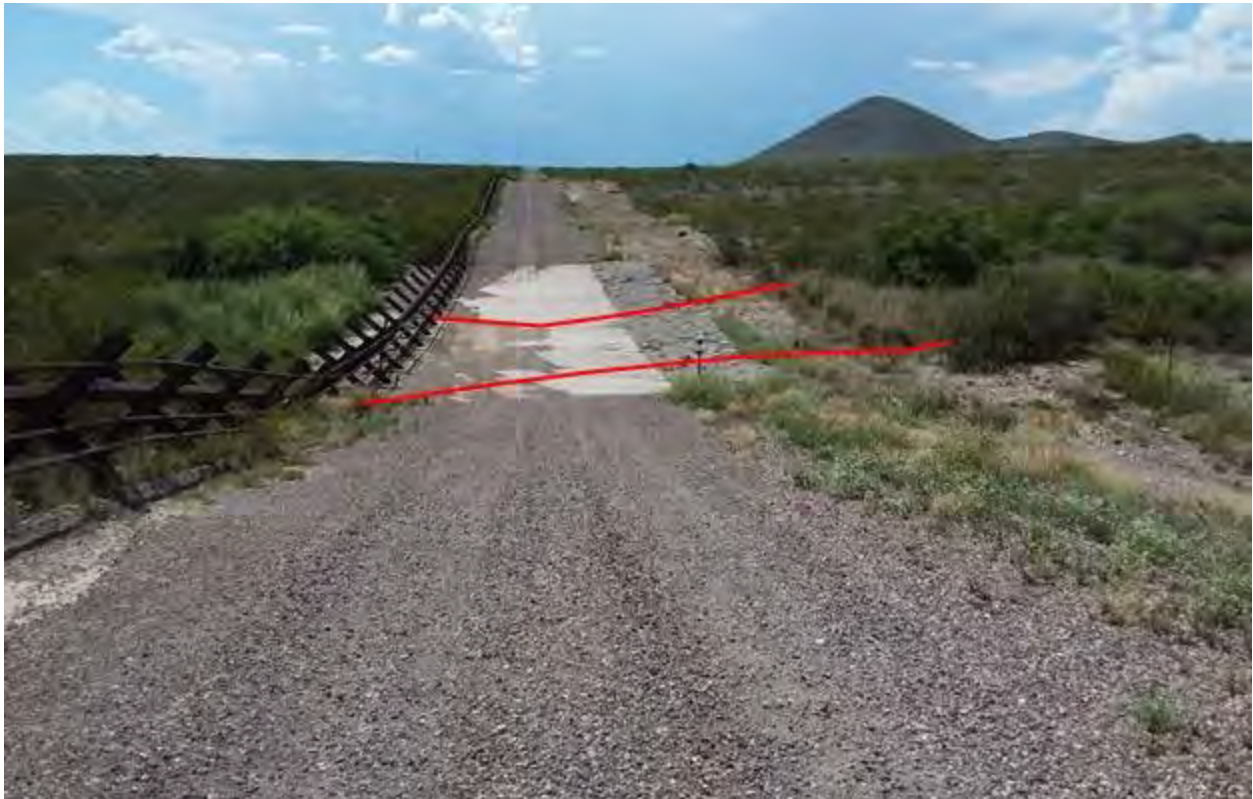


Figure 945. Aerial view of washes e28 and e29 in Project Area 3 with photo points.



**Figure 946. Photo point e28 looking upstream**



**Figure 947 . Photo point e28 looking west**





Figure 948 . Photo point e29 looking east

End of Section