APPENDIX A
PERMITS AND APPROVALS

Required Action Item	Permitting Agency	Status	Expiration Date
Storey County Business License	Storey County	License #: 210746	30-Jun-24
EPA ID (Hazardous Waste Generator Notification)	Nevada Department of Environmental Protection	EPA ID NVR000096115	NA
Hazardous Materials Permit - BMC1	Nevada Department of Public Safety	106905	29-Feb-24
Industrial Stormwater Permit	Nevada Department of Environmental Protection	ISW-49488	9-Jun-24
Written Determination Approval	NDEP - Bureau of Sustainable Material Management	Approved 16-Mar-23	NA
Class II Minor Source Air Permit *	NDEP – Bureau of Air Pollution Control	AP3499-4396	30-Aug-27
Insignificant Activity Determination	NDEP – Bureau of Air Pollution Control	Request approved, AP3499-4396	30-Aug-27
TRI GID "Will Serve" Commitment	Tahoe Reno Industrial General Improvement District	005-011-12	NA
TRI GID Temporary Industrial Wastewater Discharge Permit	Tahoe Reno Industrial General Improvement District	REDWOOD2023	30-Apr-23
Nevada Construction Stormwater General Permit	Nevada Department of Environmental Protection	CSW-48796	11-Mar-26
Nevada Temporary Permit - Working in Waterway	Nevada Department of Environmental Protection	NVW-51762	28-Nov-23
Nevada Temporary Discharge Permit	Nevada Department of Environmental Protection	TNS-51012	11-Feb-23
Nevada Temporary Discharge Permit	Nevada Department of Environmental Protection	TNS-52508	25-Dec-23
Nevada Temporary Discharge Permit	Nevada Department of Environmental Protection	TNS-51394	3-Apr-23
Nevada Temporary Permit - Working in Waterway	Nevada Department of Environmental Protection	NVW-52812	12-Apr-24

* Denotes permits that will require revision as phased construction continues.

APPENDIX B
ORGANIZATIONS CONTACTED

US Fish and Wildlife Service

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Reno Fish And Wildlife Office
1340 Financial Boulevard, Suite 234
Reno, NV 89502-7147
Phone: (775) 861-6300 Fax: (775) 861-6301
http://www.fws.gov/reno/

In Reply Refer To:
Project Code: 2022-0030144
Project Name: Redwood Materials

April 13, 2022

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Reno Fish And Wildlife Office
1340 Financial Boulevard, Suite 234
Reno, NV 89502-7147
(775) 861-6300

Project Summary

Project Code: 2022-0030144
Event Code: None
Project Name: Redwood Materials
Project Type: Refining - Non Energy
Project Description: Processing facility to produce lithium batteries.
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.4947146,-119.4474725819935,14z

Counties: Storey County, Nevada

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Fishes

NAME	STATUS
Cui-ui *Chasmistes cujus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/456	Endangered

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

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1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO FWS MIGRATORY BIRDS OF CONCERN WITHIN THE VICINITY OF YOUR PROJECT AREA.

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?
The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?
To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?
Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects
For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical

Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?
If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report
The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Wetlands

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

RIVERINE

- R4SBC

IPaC User Contact Information

Agency: Private
Name: Nicole Montgomery
Address: 5410 Longley Ln
City: Reno
State: NV
Zip: 89511
Email nikkireemontgomery@gmail.com
Phone: 4065810638

Nevada Department of Wildlife

STATE OF NEVADA

DEPARTMENT OF WILDLIFE

6980 Sierra Center Parkway, Suite 120
Reno, Nevada 89511
Phone (775) 688-1500 • Fax (775) 688-1595

STEVE SISOLAK
Governor

TONY WASLEY
Director

BONNIE LONG
Deputy Director

JACK ROBB
Deputy Director

Michelle Melosh
Staff Geologist
McGinley and Associates
5410 Longley Lane
Reno, Nevada 89503

April 7, 2022

Re: RedwoodMaterials

Dear Michelle Melosh:

I am responding to your request for information from the Nevada Department of Wildlife (NDOW) on the known or potential occurrence of wildlife resources in the vicinity of the RedwoodMaterials located in Storey County, Nevada. In order to fulfill your request, an analysis was performed using the best available data from the NDOW's wildlife occurrences, raptor nest sites and ranges, greater sage-grouse leks and habitat, and big game distributions databases. No warranty is made by the NDOW as to the accuracy, reliability, or completeness of the data for individual use or aggregate use with other data. These data should be considered **sensitive** and may contain information regarding the location of sensitive wildlife species or resources. All appropriate measures should be taken to ensure that the use of this data is strictly limited to serve the needs of the project described on your GIS Data Request Form. Abuse of this information has the potential to adversely affect the existing ecological status of Nevada's wildlife resources and could be cause for the denial of future data requests.

To adequately provide wildlife resource information in the vicinity of the proposed project the NDOW delineated an area of interest that included a four-mile buffer around the project area provided by you on Monday, April 4, 2022. Wildlife resource data was queried from the NDOW databases based on this area of interest. The results of this analysis are summarized below.

Big Game - Occupied mule deer distribution exists throughout the entire project area and four-mile buffer area. Occupied bighorn sheep distribution exists throughout the entire project area and portions of the four-mile buffer area. No known occupied elk or pronghorn antelope distributions exist in the vicinity of the project area. Please refer to the attached maps for details regarding big game distributions relative to the proposed project area.

Greater Sage-Grouse - Greater sage-grouse habitat in the vicinity of the project area has primarily been classified as Other habitat by the Nevada Sagebrush Ecosystem Program (http://sagebrusheco.nv.gov). Please refer to the attached map for details regarding greater sage-grouse habitat relative to the proposed project area. There are no known radio-marked greater sage-grouse tracking locations in the vicinity of the project area. There are no known greater sage-grouse lek sites in the vicinity of the project area.

Lahontan Cutthroat Trout - are known to exist in the vicinity of the project area in the Long Valley Creek-Truckee River watershed.

Raptors - Various species of raptors, which use diverse habitat types, may reside in the vicinity of the project area. American kestrel, bald eagle, barn owl, burrowing owl, Cooper's hawk, ferruginous hawk, golden eagle, great horned owl, long-eared owl, merlin, northern goshawk, northern harrier, northern saw-whet owl, osprey, peregrine falcon, red-tailed hawk, rough-legged hawk, sharp-shinned hawk, short-eared owl, Swainson's hawk, turkey vulture, and western screech owl have distribution ranges that include the

project area and four-mile buffer area. Furthermore, American kestrel and golden eagle have been directly observed in the vicinity of the project area.

Raptor species are protected by State and Federal laws. In addition, bald eagle, burrowing owl, California spotted owl, ferruginous hawk, flammulated owl, golden eagle, northern goshawk, peregrine falcon, prairie falcon, and short-eared owl are NDOW species of special concern and are target species for conservation as outlined by the Nevada Wildlife Action Plan. Per the *Interim Golden Eagle Technical Guidance: Inventory and Monitoring Protocols; and Other Recommendations in Support of Golden Eagle Management and Permit Issuance* (United States Fish and Wildlife Service 2010) we have queried our raptor nest database to include raptor nest sites within ten miles of the proposed project area. There are 30 known raptor nest sites within ten miles of the project area:

Last Active	Last Check	Township/Range/Section	Probable Use
	5/6/2011		buteo
	5/6/2011		buteo
	5/6/2011		buteo/corvid
	5/22/2014		buteo/corvid
	5/22/2014		buteo/corvid
	5/22/2014		buteo/corvid
	5/22/2014		buteo/corvid
	5/22/2014		buteo/corvid
	5/22/2014		buteo/corvid
	1/1/1977		eagle
	5/26/1979		eagle
	1/28/2011		eagle
	2/7/2011		eagle
	2/7/2011		eagle
	2/7/2011		eagle
	2/21/2011		eagle
	3/4/2011		eagle
	3/4/2011		eagle
	3/4/2011		eagle
	5/6/2011		eagle
	5/22/2014		eagle
	5/22/2014		eagle
	5/22/2014		eagle
	6/10/2011		eagle/buteo
	5/22/2014		eagle/buteo
	5/22/2014		eagle/buteo
	5/22/2014		eagle/buteo
	5/22/2014		eagle/buteo
	5/22/2014		eagle/buteo
	6/5/1981		falcon

Other Wildlife Resources

There are three big game and ten small game water developments in the vicinity of the project area. The following species have also been observed in the vicinity of the project area:

Common Name	ESA	State	SWAP SoCP
desert horned lizard			Yes

gophersnake	
Great Basin collared lizard	Yes
Great Basin fence lizard	
Great Basin spadefoot	Yes
Great Basin whiptail	
long-nosed leopard lizard	Yes
mountain gartersnake	
Nevada side-blotched lizard	
northern desert horned lizard	Yes
striped whipsnake	
tiger whiptail	
western fence lizard	
yellow-backed spiny lizard	
zebra-tailed lizard	

ESA: Endangered Species Act Status
State: State of Nevada Special Status
SWAP SoCP: Nevada State Wildlife Action Plan (2012) Species of Conservation Priority

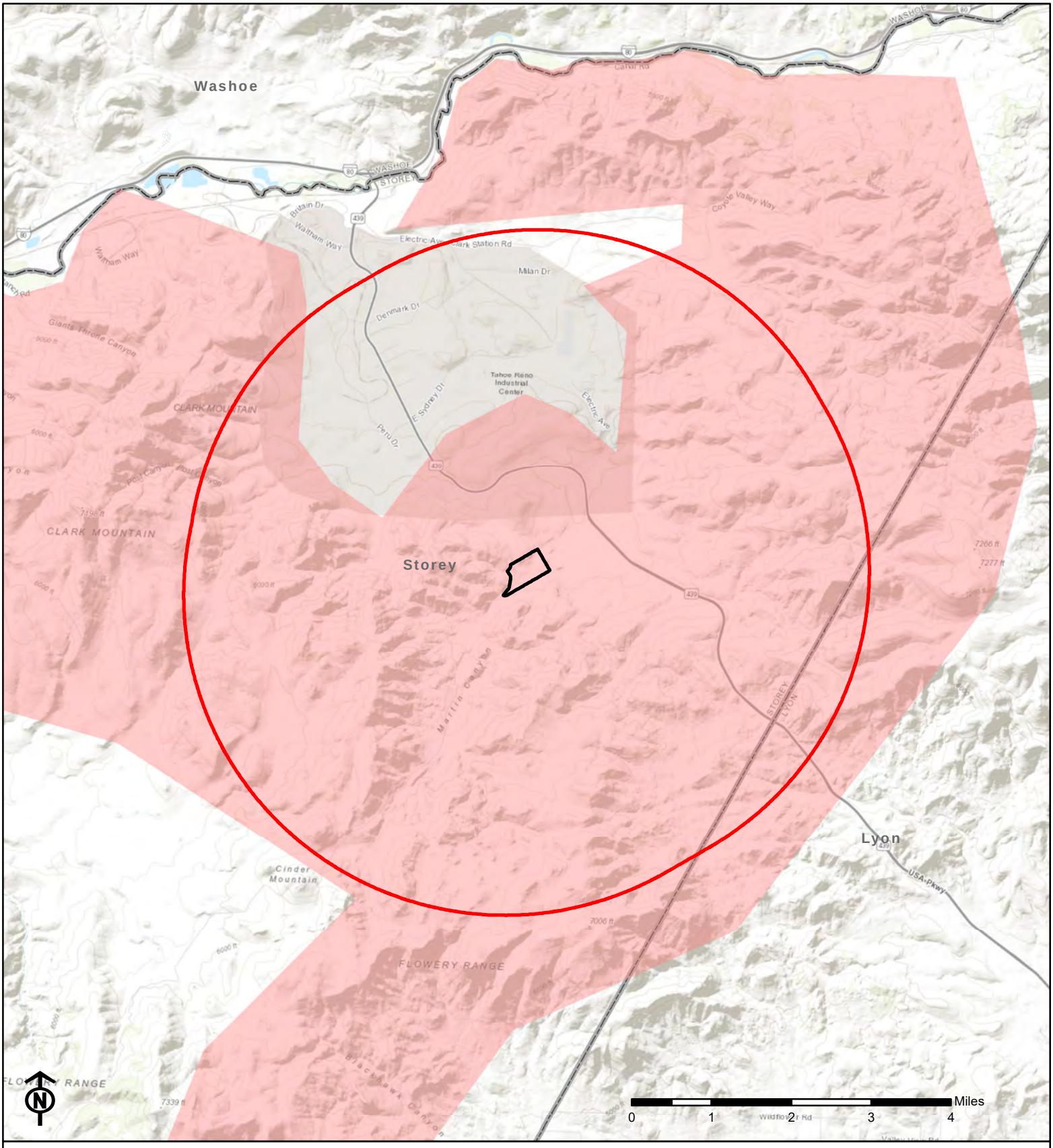
The proposed project area may also be in the vicinity of abandoned mine workings, which often provide habitat for state and federally protected wildlife, especially bat species, many of which are protected under NAC 503.030. To request data regarding known abandoned mine workings in the vicinity of the project area please contact the Nevada Division of Minerals (http://minerals.state.nv.us/).

The above information is based on data stored at our Reno Headquarters Office and does not necessarily incorporate the most up to date wildlife resource information collected in the field. Please contact the Habitat Division Supervising Biologist at our to discuss the current environmental conditions for your project area and the interpretation of our analysis. Furthermore, it should be noted that the information detailed above is preliminary in nature and not necessarily an identification of every wildlife resource concern associated with the proposed project. Consultation with the Supervising Habitat biologist will facilitate the development of appropriate survey protocols and avoidance or mitigation measures that may be required to address potential impacts to wildlife resources.

Katie Andrle - Western Region Supervising Habitat Biologist (775.688.1145)

Federally listed Threatened and Endangered species are also under the jurisdiction of the United States Fish and Wildlife Service. Please contact them for more information regarding these species.

If you have any questions regarding the results or methodology of this analysis, please do not hesitate to contact Jinna Larkin at (775) 688-1580.



Project Area

Four Mile Buffer Area Boundary

Bighorn Sheep Distribution

RedwoodMaterials
Bighorn Sheep Distribution

April 07, 2022

Projection: UTM Zone 11 North, NAD83

No warranty is made by the Nevada Department of Wildlife as to the accuracy, reliability, or completeness of the data for individual use or aggregate use with other data.

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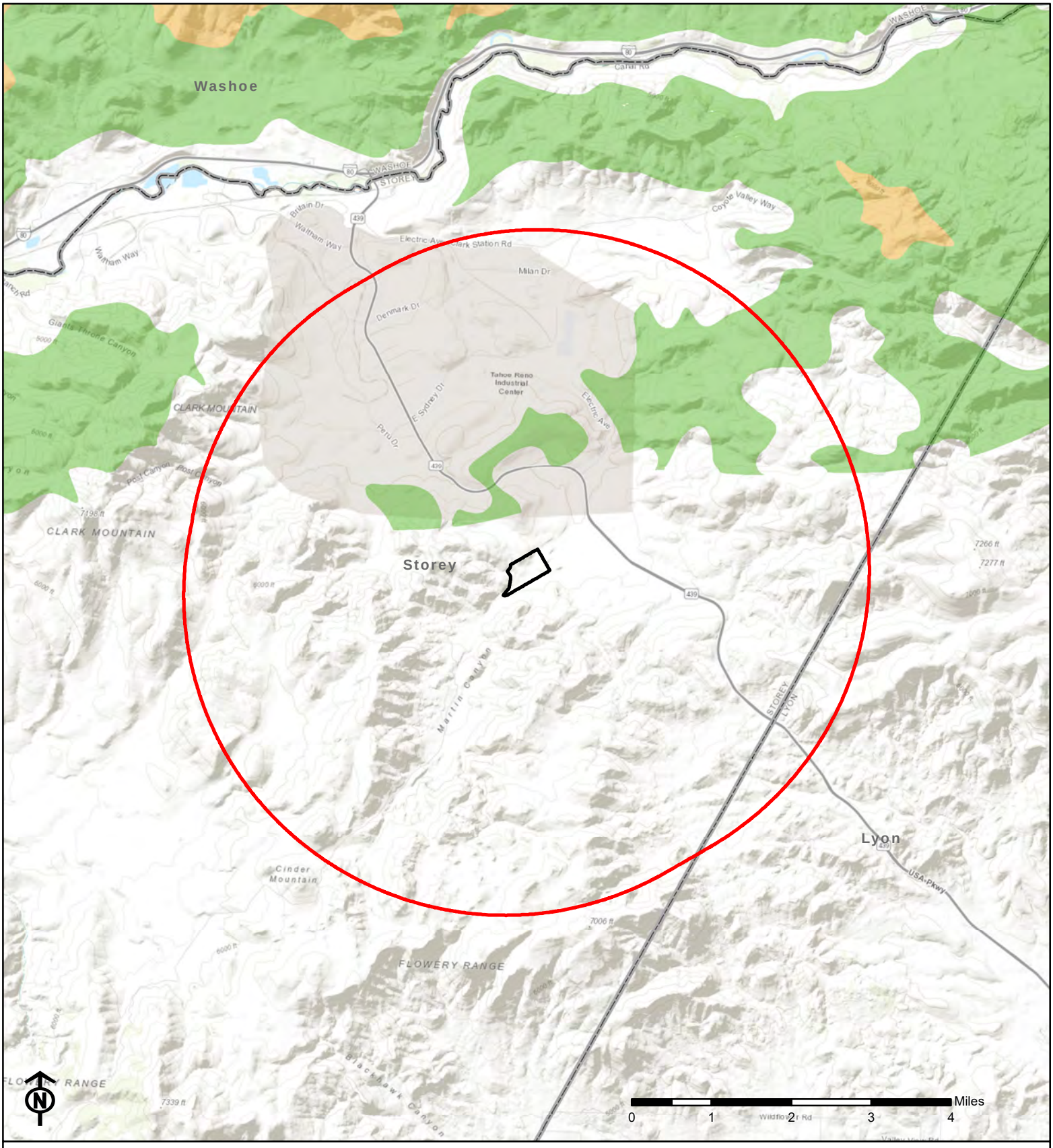

- Project Area
- Four Mile Buffer Area Boundary
- Priority Habitat
- General Habitat
- Other Habitat
- Bi-State Habitat

RedwoodMaterials
Greater Sage-Grouse Habitat

April 07, 2022

Projection: UTM Zone 11 North, NAD83

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State of Nevada, Department of Conservation and Natural Resources, Division of Natural Heritage

NEVADA
DIVISION OF
NATURAL HERITAGE

Steve Sisolak
Governor

Bradley Crowell
Director

Kristin Szabo
Administrator

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
Division of Natural Heritage

18 April 2022

Michelle Melosh
McGinley and Associates
5410 Longley Lane
Reno, NV 89511

RE: Data request received 18 April 2022

Dear Ms. Melosh:

We are pleased to provide the information you requested on endangered, threatened, candidate, and/or At-Risk plant and animal taxa recorded within or near the Redwood Materials Project area in Storey County. We searched our database and maps for the following, a 5-kilometer radius around shapefiles provided, including:

Township 19N Range 23E Sections 19 and 30

There are no at-risk taxa recorded within the given area. However, habitat may be available for: the western small-footed myotis, *Myotis ciliolabrum*, a Nevada Bureau of Land Management (BLM) Sensitive Species; the Townsend's big-eared bat, *Corynorhinus townsendii*, a Nevada BLM Sensitive Species; and the Golden Eagle, *Aquila chrysaetos*, a Nevada BLM Sensitive Species. The Nevada Department of Wildlife (NDOW) manages, protects, and restores Nevada's wildlife resources and associated habitat. Please contact Jinna Larkin, NDOW GIS Coordinator (775) 688-1580 to obtain further information regarding wildlife resources within and near your area of interest. Removal or destruction of state protected flora species requires a special permit from Nevada Division of Forestry (NRS 527.270).

Please note that our data are dependent on the research and observations of many individuals and organizations and in most cases are not the result of comprehensive or site-specific field surveys. Natural Heritage reports should never be regarded as final statements on the taxa or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

Thank you for checking with our program. Please contact us for additional information or further assistance.

Sincerely,

Eric S. Miskow
Biologist/Data Manager

Nevada Department of Environmental Protection

McGinley & Associates
A Universal Engineering Sciences Company

Reno
5410 Longley Lane
Reno, Nevada 89511

775.829.2245

Las Vegas
1915 N. Green Valley Pkwy
Suite 200
Henderson, Nevada 89074

702.260.4961

www.mcgin.com

November 19, 2021
McGinley Project No: RWM012

RECEIVED
NOV 24 2021
ENVIRONMENTAL PROTECTION

Nevada Division of Environmental Protection
Bureau of Air Pollution Control, Class II Permitting Branch
901 South Stewart Street, Suite 4001
Carson City, NV 89701

ATTN: **ASHLEY TAYLOR**
MINOR SOURCE PERMITTING SUPERVISOR, AIR POLLUTION CONTROL

RE: **NEW CLASS II AIR QUALITY OPERATING PERMIT APPLICATION, REDWOOD MATERIALS, 1201 NORWAY DRIVE, MCCARRAN, NV, 89434, AP3499-4396, FIN A2326, AIR CASE 10935**

Dear Ms. Taylor:

On behalf of Redwood Materials, Inc (Redwood), McGinley and Associates, Inc. (McGinley) has prepared this New Class II Air Quality Operating Permit Application for Redwood's new metal processing and fabrication facility at the above-referenced location.

The information and data provided in this permit application represent the best information available at the time the application was prepared. New or supplementary information/data pertinent to this air permit application will be submitted to the Nevada Division of Environmental Protection (NDEP) when and if it becomes available.

Pursuant to the NDEP's September 10, 2021, letter approving Redwood's request for confidentiality for this air permit application, two separate permit applications are being submitted. The first permit application, which is designated as confidential, is being provided to facilitate the NDEP's internal application review and is not to be made publicly available. The second application, which does not have a confidential designation, can be made available to the public as appropriate. McGinley and Redwood request that no digital copies or additional hard copies of the confidential version of the permit application be created as a measure to control the dissemination of the permit application. Included with this submittal is a CD with a digital copy of the non-confidential version of the permit application.

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McGinley & Associates
A Universal Engineering Sciences Company

Reno
5410 Longley Lane
Reno, Nevada 89511

775.829.2245

Las Vegas
1915 N. Green Valley Pkwy
Suite 200
Henderson, Nevada 89074

702.260.4961

www.mcgin.com

November 19, 2021
McGinley Project No: RWM012

Nevada Division of Environmental Protection
Bureau of Air Pollution Control, Class II Permitting Branch
901 South Stewart Street, Suite 4001
Carson City, NV 89701

ATTN: **ASHLEY TAYLOR**
MINOR SOURCE PERMITTING SUPERVISOR, AIR POLLUTION CONTROL

RE: **NEW CLASS II AIR QUALITY OPERATING PERMIT APPLICATION, REDWOOD MATERIALS, 1201 NORWAY DRIVE, MCCARRAN, NV, 89434, AP3499-4396, FIN A2326, AIR CASE 10935**

Dear Ms. Taylor:

On behalf of Redwood Materials, Inc (Redwood), McGinley and Associates, Inc. (McGinley) has prepared this New Class II Air Quality Operating Permit Application for Redwood's new metal processing and fabrication facility at the above-referenced location.

The information and data provided in this permit application represent the best information available at the time the application was prepared. New or supplementary information/data pertinent to this air permit application will be submitted to the Nevada Division of Environmental Protection (NDEP) when and if it becomes available.

Pursuant to the NDEP's September 10, 2021, letter approving Redwood's request for confidentiality for this air permit application, two separate permit applications are being submitted. The first permit application, which is designated as confidential, is being provided to facilitate the NDEP's internal application review and is not to be made publicly available. The second application, which does not have a confidential designation, can be made available to the public as appropriate. McGinley and Redwood request that no digital copies or additional hard copies of the confidential version of the permit application be created as a measure to control the dissemination of the permit application. Included with this submittal is a CD with a digital copy of the non-confidential version of the permit application.

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NEVADA DIVISION OF
ENVIRONMENTAL
PROTECTION

STATE OF NEVADA
Department of Conservation & Natural Resources
Steve Sisolak, Governor
Bradley Crowell, Director
Greg Lovato, Administrator

December 9, 2021

Kevin Kassekert
Chief Operating Officer
Redwood Materials, Inc.
2801 Lockheed Way
Carson City, NV 89706

Re: Notification of Initial Completeness for a New Class II Air Quality Operating Permit AP3499-4396, FIN A2326, Air Case 11015 – Redwood Materials, Inc.

Dear Mr. Kassekert:

The Nevada Division of Environmental Protection – Bureau of Air Pollution Control (BAPC) has reviewed the application submitted by Redwood Materials, Inc. on November 23, 2021 for completeness.

After preliminary review of the submitted materials, the BAPC has determined that the application is administratively **complete** as of December 9, 2021.

Please be advised a Notification of Initial Completeness does not imply any agreement or endorsement by the BAPC regarding analysis, information, positions, or conclusions presented in the application. Please also be aware during the course of the review, additional supporting information may be required for clarification purposes.

If you have any questions or concerns, please contact Derek Rizo of my staff at (775) 687-9495 or drizo@ndep.nv.gov.

Sincerely,

Ashley Taylor, P.E.
Supervisor, Permitting Branch
Bureau of Air Pollution Control

AT/si
E-Copy: Ally Freitas, McGinley

NEVADA DIVISION OF
ENVIRONMENTAL
PROTECTION

STATE OF NEVADA
Department of Conservation & Natural Resources
Steve Sisolak, Governor
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December 9, 2021

Kevin Kassekert
Chief Operating Officer
Redwood Materials, Inc.
2801 Lockheed Way
Carson City, NV 89706

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If you have any questions or concerns, please contact Derek Rizo of my staff at (775) 687-9495 or drizo@ndep.nv.gov.

Sincerely,

Ashley Taylor, P.E.
Supervisor, Permitting Branch
Bureau of Air Pollution Control

AT/si
E-Copy: Ally Freitas, McGinley

APPENDIX C
CONSULTATION WITH AGENCIES AND NATIVE AMERICAN TRIBES

APPENDIX C. CONSULTATION WITH AGENCIES AND NATIVE AMERICAN TRIBES

Organization(s)	Contact Date(s)	Summary of Contact
Nevada Division of State Lands/Nevada NEPA Clearinghouse	April 28, 2022 August 11, 2023	DOE Notice of Intent to Prepare an Environmental Assessment Draft EA review requested.
Nevada State Historic Preservation Office*	April 28, 2022 (DOE) August 24, 2022 (SHPO) September 26, 2022 (DOE) November 9, 2022 (DOE) November 11, 2022 (SHPO)	Section 106 initiation letter concurrence Response letter to Section 106 DOE finding Withdrawal of Section 106 Consultation Updated Section 106 Cultural Resources report Concurrence- No Adverse Effect to Historic Properties
Confederated Tribes of the Warm Springs Reservation of Oregon State of Nevada	April 28, 2022 August 16, 2023 September 11, 2023	Section 106 initiation letter Draft EA review requested. Follow-up phone call regarding Draft EA.
Fort McDermitt Paiute and Shoshone Tribes	April 28, 2022 August 16, 2023 September 11, 2023	Section 106 initiation letter Draft EA review requested. Follow-up phone call regarding Draft EA.
Paiute-Shoshone Tribe of the Fallon Reservation	April 28, 2022 August 16, 2023 September 11, 2023	Section 106 initiation letter Draft EA review requested. Follow-up phone call regarding Draft EA.
Pyramid Lake Paiute Tribe of the Pyramid Lake Reno-Sparks Indian Colony	April 28, 2022 August 16, 2023 September 11, 2023	Section 106 initiation letter Draft EA review requested. Follow-up phone call regarding Draft EA.
Reno-Sparks Indian Colony	April 28, 2022 August 16, 2023 September 11, 2023	Section 106 initiation letter Draft EA review requested. Follow-up phone call regarding Draft EA.
Yerington Paiute Tribe of the Yerington Colony and Campbell Ranch	April 28, 2022 August 16, 2023 September 11, 2023	Section 106 initiation letter Draft EA review requested. Follow-up phone call regarding Draft EA.
*Communications with the Nevada SHPO are considered non-public because they contact sensitive information. Only DOE NEPA initiation letter and SHPO concurrence letter are public.		

Department of Energy
Washington, DC 20585

April 28, 2022

Scott Carey
Nevada Division of State Lands
901 S. Steward St., Ste 5003
Carson City, NV 89701-5246

SUBJECT: The U.S. Department of Energy's intent to Prepare an Environmental Assessment for a proposed Federal Loan Guarantee to Redwood Materials, Inc for a sustainable battery materials manufacturing facility in McCarren, Nevada

Dear Mr. Carey:

Under Section 136 of the Energy Independence and Security Act of 2007, which established the Advanced Technology Vehicles Manufacturing Loan (ATVM) program the U.S. Department of Energy (DOE) Loan Programs Office (LPO) is considering whether to provide a Federal loan to Redwood Materials, Inc. (Redwood) to support the construction and operation of a manufacturing facility in McCarran, Nevada (Attachment 1). The facility will manufacture battery copper foil and cathode active materials for use in the electric vehicle markets. LPO has decided to prepare an Environmental Assessment (EA) in accordance with the requirements of the National Environmental Policy Act (NEPA), the Council on Environmental Quality regulations for implementing the procedural provision of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021).

The purpose and need for agency action is to comply with the DOE mandate under Section 136 of the Energy Independence and Security Act to select projects for financial assistance that are consistent with the goals of the Act. Pursuant to the Act, the ATVM program was established to provide loans to automobile and automobile parts manufacturers for the cost of re-equipping, expanding, or establishing manufacturing facilities in the United States to produce advanced technology vehicles or qualified components. DOE has determined that the construction and operation of battery copper foil and cathode active materials for use in the electric vehicle markets as proposed by Redwood is consistent with the goals of the Act and is using the NEPA process to assist in determining whether to issue a loan to Redwood to support the proposed project.

The proposed project would involve Redwood becoming a producer of sustainable battery materials for electric vehicles with high precision copper foil and high energy cathode active materials. The proposed project site is approximately 170-acres and includes building and operating a copper foil production facility, a cathode production facility and hydrometallurgy process facilities adjacent each other, and new utilities (Attachment 2). Additionally, there will be utility upgrades to the current electric, water and sewer infrastructure systems, a parking lot and administration building. While building the copper foil and cathode production facilities, projections estimate that approximately 700 construction jobs may be created; with approximately 1100 permanent jobs needed to support permanent facility operations. It should be noted that Redwood has started some construction activities, in support of the copper foil facility. Some of these activities include grading and clearing as well as building frame out.

The DOE NEPA regulations provide for the notification of host states of NEPA determinations and for the opportunity for host states to review EA's prior to DOE approval. This process is intended to improve coordination and to facilitate early and open communication. DOE will provide the draft EA to you for your review and comment.

If you or your staff would like to receive further information concerning this project or DOE's NEPA process for ATVM loans, please contact me at 202-586-7272, or email at Alicia.Williamson@hq.doe.gov.

Respectfully,

Alicia Williamson

Alicia Williamson
Environmental Protection Specialist
Loan Programs Office

Attachments:

Attachments 1: Site Location
Attachments 2: Site Layout

NEVADA
STATE HISTORIC PRESERVATION OFFICE

STATE OF NEVADA
Department of Conservation & Natural Resources

Steve Sisolak, *Governor*
James R. Lawrence, *Acting Director*
Rebecca L. Palmer, *Administrator*

November 11, 2022

Alicia Williamson
US Department of Energy
Loan Programs Office-ECD
1000 Independence Ave SW
Washington, DC 20585

RE: U.S. Department of Energy, Redwood Materials, Inc Sustainable Battery Materials Manufacturing Facility in McCarran Nevada, Section 106 Consultation; SHPO UT 2022-7305; 29826

Dear Ms. Williamson:

The Nevada State Historic Preservation Office (SHPO) received the subject documents on November 9, 2022 in accordance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended.

The Department of Energy Loan Program Office (DOE-LPO) has stated that the development activities at the Redwood project site are not anticipatory demolition under 36 CFR § 809(c)(1) and 54 U.S.C. § 306113 as the destruction of the previously identified cultural resources occurred prior to the federal undertaking.

As discussed in the October 3, 2022 meeting, the submitted inventory report contains the same overview photographs for the identified cultural resources. Our office looks forward to receiving corrected site overview photographs for incorporation into the inventory report.

Finding of Effect
The SHPO **concurs** with the DOE-LPO's finding of **No Historic Properties Affected**.

Unanticipated Discovery
If any buried and/or previously unidentified resources are located during the project activities, the SHPO recommends that all work in the vicinity of the find cease and this office be contacted for additional consultation per 36 CFR § 800.13(b)(3).

If you have any questions concerning this correspondence, please contact SHPO staff archaeologist Sara Sturtz at (775) 684-3445 or email ssturtz@shpo.nv.gov.

Sincerely,

Rebecca Lynn Palmer
State Historic Preservation Officer

Department of Energy
Washington, DC 20585

April 28, 2022

Raymond Tsumpti, Chairman
Confederated Tribes of the Warm Springs Reservation of Oregon State of Nevada
PO Box C
Warm Springs, OR 97761

SUBJECT: Proposed Federal Loan Guarantee to Redwood Materials Inc. in McCarran, Nevada

Dear Chairman Tsumpti:

The U.S. Department of Energy (DOE) is preparing an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to assist in determining whether to issue a Federal loan to Redwood Materials, Inc (Redwood) to construct and operate new facilities that will manufacture battery copper foil and cathode active materials for use in the electronic vehicle markets in McCarren, Nevada (see enclosed site location and site layout figures). As part of this environmental review process, DOE is also conducting a historic resource review in compliance with Section 106 of the National Historic Preservation Act (NHPA).

Redwood is seeking to develop new manufacturing facilities across 170-acres located at 1201 Norway Drive, McCarren, Nevada. The proposed integrated manufacturing facility includes:

- copper foil production building;
- cathode active materials production building;
- hydrometallurgy process facilities (2 buildings); and
- supporting infrastructure: switch yard, utility yard, access roads, and parking areas.

In addition, there will be utility upgrades to the existing electric, water and sewer infrastructure systems. Based on preliminary projections approximately 700 jobs would be created during construction, and approximately 1,100 permanent jobs to support facility operations. It should be noted that in accordance with local and state permits, Redwood has started some construction activities, including grading and clearing as well as building frame out.

This letter is intended to notify you of the proposed Federal project (a potential loan to Redwood), identify if you have an interest in the proposed project site, and provide you

with the opportunity to comment and engage with DOE in government-to-government consultation on the proposed project in McCarran, NV. Any comments or concerns you provide will help ensure that DOE considers Tribal interests and complies with NEPA and NHPA Section 106 responsibilities. We want to give you the opportunity to raise any issues and concerns you may have regarding the site.

I would greatly appreciate notification if you do or do not have an interest in the project site, as well as any comments or concerns you may have by May 18, 2022. Should you have interest in the project site, I will provide you with additional information pursuant to NEPA and the NHPA as it becomes available. Please provide your notification of interest and any comments or concerns by email to DOE_LPO@icf.com, or I can be reached via telephone at 202-586-7272.

Respectfully,

Alicia Williamson

Alicia Williamson
Environmental Protection Specialist
Loan Programs Office

Attachments:

Attachments 1: Site Location
Attachments 2: Site Layout

Department of Energy
Washington, DC 20585

April 28, 2022

Maxine Redstar, Chairwoman
Fort McDermitt Paiute and Shoshone Tribes of the Fort McDermitt Indian Reservation, Nevada and Oregon
PO Box 457
McDermitt, NV 89421-0457

SUBJECT: Proposed Federal Loan Guarantee to Redwood Materials Inc. in McCarran, Nevada

Dear Chairwoman Redstar:

The U.S. Department of Energy (DOE) is preparing an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to assist in determining whether to issue a Federal loan to Redwood Materials, Inc (Redwood) to construct and operate new facilities that will manufacture battery copper foil and cathode active materials for use in the electronic vehicle markets in McCarren, Nevada (see enclosed site location and site layout figures). As part of this environmental review process, DOE is also conducting a historic resource review in compliance with Section 106 of the National Historic Preservation Act (NHPA).

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This letter is intended to notify you of the proposed Federal project (a potential loan to Redwood), identify if you have an interest in the proposed project site, and provide you with the opportunity to comment and engage with DOE in government-to-government consultation on the proposed project in McCarran, NV. Any comments or concerns you

provide will help ensure that DOE considers Tribal interests and complies with NEPA and NHPA Section 106 responsibilities. We want to give you the opportunity to raise any issues and concerns you may have regarding the site.

I would greatly appreciate notification if you do or do not have an interest in the project site, as well as any comments or concerns you may have by May 18, 2022. Should you have interest in the project site, I will provide you with additional information pursuant to NEPA and the NHPA as it becomes available. Please provide your notification of interest and any comments or concerns by email to DOE_LPO@icf.com, or I can be reached via telephone at 202-586-7272.

Respectfully,

Alicia Williamson

Alicia Williamson
Environmental Protection Specialist
Loan Programs Office

Attachments:

Attachments 1: Site Location
Attachments 2: Site Layout

Department of Energy
Washington, DC 20585

April 28, 2022

Len George, Chairperson
Paiute-Shoshone Tribe of the Fallon Reservation and Colony, Nevada
8955 Mission Road
Fallon, NV 89406

SUBJECT: Proposed Federal Loan Guarantee to Redwood Materials Inc. in McCarran, Nevada

Dear Chairperson George:

The U.S. Department of Energy (DOE) is preparing an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to assist in determining whether to issue a Federal loan to Redwood Materials, Inc (Redwood) to construct and operate new facilities that will manufacture battery copper foil and cathode active materials for use in the electronic vehicle markets in McCarren, Nevada (see enclosed site location and site layout figures). As part of this environmental review process, DOE is also conducting a historic resource review in compliance with Section 106 of the National Historic Preservation Act (NHPA).

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This letter is intended to notify you of the proposed Federal project (a potential loan to Redwood), identify if you have an interest in the proposed project site, and provide you with the opportunity to comment and engage with DOE in government-to-government consultation on the proposed project in McCarran, NV. Any comments or concerns you provide will help ensure that DOE considers Tribal interests and complies with NEPA

and NHPA Section 106 responsibilities. We want to give you the opportunity to raise any issues and concerns you may have regarding the site.

I would greatly appreciate notification if you do or do not have an interest in the project site, as well as any comments or concerns you may have by May 18, 2022. Should you have interest in the project site, I will provide you with additional information pursuant to NEPA and the NHPA as it becomes available. Please provide your notification of interest and any comments or concerns by email to DOE_LPO@icf.com, or I can be reached via telephone at 202-586-7272.

Respectfully,

Alicia Williamson

Alicia Williamson
Environmental Protection Specialist
Loan Programs Office

Attachments:

Attachments 1: Site Location
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CC: Rochanne Downs, Tribal Historic Preservation Officer

Department of Energy
Washington, DC 20585

April 28, 2022

Vinton Hawley, Chairperson
Pyramid Lake Paiute Tribe of the Pyramid Lake Reservation, Nevada
PO Box 256
Nixon, NV 89424-0256

SUBJECT: Proposed Federal Loan Guarantee to Redwood Materials Inc. in McCarran, Nevada

Dear Chairperson Hawley:

The U.S. Department of Energy (DOE) is preparing an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to assist in determining whether to issue a Federal loan to Redwood Materials, Inc (Redwood) to construct and operate new facilities that will manufacture battery copper foil and cathode active materials for use in the electronic vehicle markets in McCarren, Nevada (see enclosed site location and site layout figures). As part of this environmental review process, DOE is also conducting a historic resource review in compliance with Section 106 of the National Historic Preservation Act (NHPA).

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and NHPA Section 106 responsibilities. We want to give you the opportunity to raise any issues and concerns you may have regarding the site.

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Respectfully,

Alicia Williamson

Alicia Williamson
Environmental Protection Specialist
Loan Programs Office

Attachments:

Attachments 1: Site Location
Attachments 2: Site Layout

CC: Becky Aleck, Tribal Historic Preservation Officer

Department of Energy
Washington, DC 20585

April 28, 2022

Arlan Melendez, Chairperson
Reno-Sparks Indian Colony, Nevada
98 Colony Road
Reno, NV 89502

SUBJECT: Proposed Federal Loan Guarantee to Redwood Materials Inc. in McCarran, Nevada

Dear Chairperson Melendez:

The U.S. Department of Energy (DOE) is preparing an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to assist in determining whether to issue a Federal loan to Redwood Materials, Inc (Redwood) to construct and operate new facilities that will manufacture battery copper foil and cathode active materials for use in the electronic vehicle markets in McCarren, Nevada (see enclosed site location and site layout figures). As part of this environmental review process, DOE is also conducting a historic resource review in compliance with Section 106 of the National Historic Preservation Act (NHPA).

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Respectfully,

Alicia Williamson

Alicia Williamson
Environmental Protection Specialist
Loan Programs Office

Attachments:

Attachments 1: Site Location
Attachments 2: Site Layout

CC: Michon Eben, Tribal Historic Preservation Officer

Department of Energy
Washington, DC 20585

April 28, 2022

Linda Howard, Chairperson
Yerington Paiute Tribe of the Yerington Colony & Campbell Ranch, Nevada
171 Campbell Lane
Yerington, NV 89447

SUBJECT: Proposed Federal Loan Guarantee to Redwood Materials Inc. in McCarran, Nevada

Dear Chairperson Howard:

The U.S. Department of Energy (DOE) is preparing an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to assist in determining whether to issue a Federal loan to Redwood Materials, Inc (Redwood) to construct and operate new facilities that will manufacture battery copper foil and cathode active materials for use in the electronic vehicle markets in McCarren, Nevada (see enclosed site location and site layout figures). As part of this environmental review process, DOE is also conducting a historic resource review in compliance with Section 106 of the National Historic Preservation Act (NHPA).

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This letter is intended to notify you of the proposed Federal project (a potential loan to Redwood), identify if you have an interest in the proposed project site, and provide you with the opportunity to comment and engage with DOE in government-to-government

consultation on the proposed project in McCarran, NV. Any comments or concerns you provide will help ensure that DOE considers Tribal interests and complies with NEPA and NHPA Section 106 responsibilities. We want to give you the opportunity to raise any issues and concerns you may have regarding the site.

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Respectfully,

Alicia Williamson

Alicia Williamson
Environmental Protection Specialist
Loan Programs Office

Attachments:

Attachments 1: Site Location
Attachments 2: Site Layout

Department of Energy

Washington, DC 20585

August 11, 2023

Scott Carey
nevadaclearinghouse@lands.nv.gov
Nevada Division of State Lands
901 S. Steward St., Ste 5003
Carson City, NV 89701-5246

SUBJECT: U.S. Department of Energy's, Proposed Federal Loan Guarantee to Redwood Materials, Inc. for a sustainable battery materials manufacturing facility in McCarren, Nevada

Dear Mr. Carey:

The U.S. Department of Energy (DOE), Loan Programs Office (LPO) prepared an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to consider the environmental impacts of its decision whether or not to provide a Federal loan to Redwood Materials, Inc (Redwood) to support the construction of a battery manufacturing facility in McCarren, Nevada (Attachment 1). The facility will manufacture battery copper foil and cathode active materials (CAM) for use in the electric vehicle markets. The decision to prepare an EA was made in accordance with the requirements of NEPA, the Council on Environmental Quality regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021).

LPO provides loans and loan guarantees under three programs – the Innovative Energy Loan Guarantee Program (Title 17), the Advanced Technology Vehicles Manufacturing (ATVM) loan program, and the Tribal Energy Loan Guarantee Program. The primary goal of the ATVM program is to finance projects and facilities located in the United States that manufacture eligible light-duty vehicles and qualifying components.

The proposed173-acre project site in McCarren, NV would involve the construction and operation of a manufacturing facility complex composed of a copper foil production facility, a cathode production facility and hydrometallurgy process facilities adjacent each other, as well as new utilities. End-of-life recycle products will be used as feedstock to manufacture the battery components battery copper foil and CAM.

As an interested party and in accordance with DOE NEPA regulations, the EA with the draft Finding of No Significant Impact (FONSI) is included in the following link: https://www.energy.gov/lpo/ea-2228-environmental-assessment-and-draft-finding-no-significant-impact-redwood-materials-inc.

Please review and provide any comment you may have via email or mail by Monday, **September 11, 2023** (comments must be received by this date):

Email: Please include "Redwood EA" in the subject line
LPO_Environmental@hq.doe.gov

Mail:
Redwood Materials, Inc Environmental Assessment
Department of Energy – Loan Programs Office
c/o ICF Consulting
1902 Reston Metro Plaza
Reston, VA 20190

If you or your staff would like to receive further information concerning this project, please contact me at 202-586-7272 or Alicia.Williamson@hq.doe.gov.

Respectfully,

Alicia Williamson

Alicia Williamson
NEPA Document Manager
Loan Programs Office

Attachment: LPO Redwood Materials, Inc Environmental Assessment and Appendices

Department of Energy
Washington, DC 20585

August 16, 2023

Jonathon Smith, Chairman
Confederated Tribes of the Warm Springs Reservation of Oregon State of Nevada
PO Box C
Warm Springs, OR 97761

SUBJECT: U.S. Department of Energy's, Proposed Federal Loan Guarantee to Redwood Materials, Inc. for a sustainable battery materials manufacturing facility in McCarren, Nevada

Dear Chairman Smith:

The U.S. Department of Energy (DOE), Loan Programs Office (LPO) prepared an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to consider the environmental impacts of its decision whether or not to provide a Federal loan to Redwood Materials, Inc (Redwood) to support the construction of a battery manufacturing facility in McCarren, Nevada (Attachment 1). The facility will manufacture battery copper foil and cathode active materials (CAM) for use in the electric vehicle markets. The decision to prepare an EA was made in accordance with the requirements of NEPA, the Council on Environmental Quality regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021).

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Please review and provide any comment you may have via email or mail by Monday, **September 11, 2023** (comments must be received by this date):

Email: Please include "Redwood EA" in the subject line
LPO_Environmental@hq.doe.gov

Mail:
Redwood Materials, Inc Environmental Assessment
Department of Energy – Loan Programs Office
c/o ICF Consulting
1902 Reston Metro Plaza
Reston, VA 20190

If you or your staff would like to receive further information concerning this project, please contact me at 202-586-7272 or Alicia.Williamson@hq.doe.gov.

Respectfully,

Alicia Williamson

Alicia Williamson
NEPA Document Manager
Loan Programs Office

Attachment: LPO Redwood Materials, Inc Environmental Assessment and Appendices

cc: Robert Brunoe, Tribal Historic Preservation Officer

Department of Energy
Washington, DC 20585

August 16, 2023

Arlo Crutcher, Chairman
Fort McDermitt Paiute and Shoshone Tribes of the Fort McDermitt Indian Reservation, Nevada and Oregon
PO Box 457
McDermitt, NV 89421-0457

SUBJECT: U.S. Department of Energy's, Proposed Federal Loan Guarantee to Redwood Materials, Inc. for a sustainable battery materials manufacturing facility in McCarren, Nevada

Dear Chairman Crutcher:

The U.S. Department of Energy (DOE), Loan Programs Office (LPO) prepared an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to consider the environmental impacts of its decision whether or not to provide a Federal loan to Redwood Materials, Inc (Redwood) to support the construction of a battery manufacturing facility in McCarren, Nevada (Attachment 1). The facility will manufacture battery copper foil and cathode active materials (CAM) for use in the electric vehicle markets. The decision to prepare an EA was made in accordance with the requirements of NEPA, the Council on Environmental Quality regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021).

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1902 Reston Metro Plaza
Reston, VA 20190

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Respectfully,

Alicia Williamson

Alicia Williamson
NEPA Document Manager
Loan Programs Office

Attachment: LPO Redwood Materials, Inc Environmental Assessment and Appendices

Department of Energy

Washington, DC 20585

August 16, 2023

Cathi Tuni, Chairman
and
Len George, Chairperson
Paiute-Shoshone Tribe of the Fallon Reservation and Colony, Nevada
8955 Mission Road
Fallon, NV 89406

SUBJECT: U.S. Department of Energy's, Proposed Federal Loan Guarantee to Redwood Materials, Inc. for a sustainable battery materials manufacturing facility in McCarren, Nevada

Dear Chairman Tuni and Chairperson George:

The U.S. Department of Energy (DOE), Loan Programs Office (LPO) prepared an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to consider the environmental impacts of its decision whether or not to provide a Federal loan to Redwood Materials, Inc (Redwood) to support the construction of a battery manufacturing facility in McCarren, Nevada (Attachment 1). The facility will manufacture battery copper foil and cathode active materials (CAM) for use in the electric vehicle markets. The decision to prepare an EA was made in accordance with the requirements of NEPA, the Council on Environmental Quality regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021).

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Department of Energy – Loan Programs Office
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1902 Reston Metro Plaza
Reston, VA 20190

If you or your staff would like to receive further information concerning this project, please contact me at 202-586-7272 or Alicia.Williamson@hq.doe.gov.

Respectfully,

Alicia Williamson

Alicia Williamson
NEPA Document Manager
Loan Programs Office

Attachment: LPO Redwood Materials, Inc Environmental Assessment and Appendices

cc: Leilah Shephard, Tribal Historic Preservation Officer

Department of Energy
Washington, DC 20585

August 16, 2023

James Phoenix, Chairperson
Pyramid Lake Paiute Tribe of the Pyramid Lake Reservation, Nevada
PO Box 256
Nixon, NV 89424-0256

SUBJECT: U.S. Department of Energy's, Proposed Federal Loan Guarantee to Redwood Materials, Inc. for a sustainable battery materials manufacturing facility in McCarren, Nevada

Dear Chairman Phoenix:

The U.S. Department of Energy (DOE), Loan Programs Office (LPO) prepared an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to consider the environmental impacts of its decision whether or not to provide a Federal loan to Redwood Materials, Inc (Redwood) to support the construction of a battery manufacturing facility in McCarren, Nevada (Attachment 1). The facility will manufacture battery copper foil and cathode active materials (CAM) for use in the electric vehicle markets. The decision to prepare an EA was made in accordance with the requirements of NEPA, the Council on Environmental Quality regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021).

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Department of Energy – Loan Programs Office
c/o ICF Consulting
1902 Reston Metro Plaza
Reston, VA 20190

If you or your staff would like to receive further information concerning this project, please contact me at 202-586-7272 or Alicia.Williamson@hq.doe.gov.

Respectfully,

Alicia Williamson

Alicia Williamson
NEPA Document Manager
Loan Programs Office

Attachment: LPO Redwood Materials, Inc Environmental Assessment and Appendices

cc: Betty Aleck, Tribal Historic Preservation Officer

Department of Energy
Washington, DC 20585

August 16, 2023

Arlan Melendez, Chairperson
Reno-Sparks Indian Colony, Nevada
98 Colony Road
Reno, NV 89502

SUBJECT: U.S. Department of Energy's, Proposed Federal Loan Guarantee to Redwood Materials, Inc. for a sustainable battery materials manufacturing facility in McCarren, Nevada

Dear Chairman Melendez:

The U.S. Department of Energy (DOE), Loan Programs Office (LPO) prepared an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to consider the environmental impacts of its decision whether or not to provide a Federal loan to Redwood Materials, Inc (Redwood) to support the construction of a battery manufacturing facility in McCarren, Nevada (Attachment 1). The facility will manufacture battery copper foil and cathode active materials (CAM) for use in the electric vehicle markets. The decision to prepare an EA was made in accordance with the requirements of NEPA, the Council on Environmental Quality regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021).

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Reston, VA 20190

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Respectfully,

Alicia Williamson

Alicia Williamson
NEPA Document Manager
Loan Programs Office

Attachment: LPO Redwood Materials, Inc Environmental Assessment and Appendices

cc: Michon R. Eben, Tribal Historic Preservation Officer

Department of Energy
Washington, DC 20585

August 16, 2023

Linda Howard, Chairperson
and
Elwood Emm, Chairman
Yerington Paiute Tribe of the Yerington Colony & Campbell Ranch, Nevada
171 Campbell Lane
Yerington, NV 89447

SUBJECT: U.S. Department of Energy's, Proposed Federal Loan Guarantee to Redwood Materials, Inc. for a sustainable battery materials manufacturing facility in McCarren, Nevada

Dear Chairperson Howard and Chairman Emm:

The U.S. Department of Energy (DOE), Loan Programs Office (LPO) prepared an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to consider the environmental impacts of its decision whether or not to provide a Federal loan to Redwood Materials, Inc (Redwood) to support the construction of a battery manufacturing facility in McCarren, Nevada (Attachment 1). The facility will manufacture battery copper foil and cathode active materials (CAM) for use in the electric vehicle markets. The decision to prepare an EA was made in accordance with the requirements of NEPA, the Council on Environmental Quality regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021).

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Respectfully,

Alicia Williamson

Alicia Williamson
NEPA Document Manager
Loan Programs Office

Attachment: LPO Redwood Materials, Inc Environmental Assessment and Appendices

APPENDIX D
DRAFT AQUATIC RESOURCES DELINEATION REPORT

Department of Energy
Washington, DC 20585

August 16, 2023

Serrell Smokey, Chairman
Washoe Tribe of Nevada and California Washoe Tribe of Nevada & California (Carson Colony, Dresslerville Colony, Woodfords Community, Stewart Community, & Washoe Ranches)
919 Highway 395
South Gardnerville, NV 89419

SUBJECT: U.S. Department of Energy's, Proposed Federal Loan Guarantee to Redwood Materials, Inc. for a sustainable battery materials manufacturing facility in McCarren, Nevada

Dear Chairman Smokey:

The U.S. Department of Energy (DOE), Loan Programs Office (LPO) prepared an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to consider the environmental impacts of its decision whether or not to provide a Federal loan to Redwood Materials, Inc (Redwood) to support the construction of a battery manufacturing facility in McCarren, Nevada (Attachment 1). The facility will manufacture battery copper foil and cathode active materials (CAM) for use in the electric vehicle markets. The decision to prepare an EA was made in accordance with the requirements of NEPA, the Council on Environmental Quality regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021).

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1902 Reston Metro Plaza
Reston, VA 20190

If you or your staff would like to receive further information concerning this project, please contact me at 202-586-7272 or Alicia.Williamson@hq.doe.gov.

Respectfully,

Alicia Williamson

Alicia Williamson
NEPA Document Manager
Loan Programs Office

Attachment: LPO Redwood Materials, Inc Environmental Assessment and Appendices

cc: Patrick Burtt, Tribal Historic Preservation Officer

Department of Energy
Washington, DC 20585

August 16, 2023

Amber Torres, Chairperson
Walker River Paiute Tribe of the Walker River Reservation, Nevada
PO Box 220
Schurz, NV 89427-0220

SUBJECT: U.S. Department of Energy's, Proposed Federal Loan Guarantee to Redwood Materials, Inc. for a sustainable battery materials manufacturing facility in McCarren, Nevada

Dear Chairperson Torres:

The U.S. Department of Energy (DOE), Loan Programs Office (LPO) prepared an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) to consider the environmental impacts of its decision whether or not to provide a Federal loan to Redwood Materials, Inc (Redwood) to support the construction of a battery manufacturing facility in McCarren, Nevada (Attachment 1). The facility will manufacture battery copper foil and cathode active materials (CAM) for use in the electric vehicle markets. The decision to prepare an EA was made in accordance with the requirements of NEPA, the Council on Environmental Quality regulations for implementing the procedural provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR Part 1021).

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Respectfully,

Alicia Williamson

Alicia Williamson
NEPA Document Manager
Loan Programs Office

Attachment: LPO Redwood Materials, Inc Environmental Assessment and Appendices

cc: Linzey Scott, Tribal Historic Preservation Officer

Draft-Aquatic Resources Delineation Report

Redwood Materials Site

September 2022

Prepared on behalf of:

McGinley & Associates
A Universal Engineering Sciences Company

5410 Longley Lane
Reno, NV 89511

Prepared by:

NewFields
Perspective. Vision. Solutions

3265 N. Fort Apache Road, Suite 110
Las Vegas, NV 89129

Prepared for:

US Army Corps of Engineers
Sacramento District

Table of Contents

Figures

Tables

Acronyms and Abbreviations

APT	Antecedent Precipitation Tool
AR	Aquatic Resource
BLM	Bureau of Land Management
CWA	Clean Water Act
EA	Environmental Assessment
FHWA	Federal Highway Administration
HUC	Hydrologic Unit Codes
IPaC	Information Planning and Consultation
NWI	National Wetland Inventory
OHWM	Ordinary High Water Mark
TNW	Traditional Navigable Water
USACE	United States Army Corps of Engineers
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Service
US	Upland Swale
WOTUS	Waters of the United States

Executive Summary

The purpose of this evaluation is to delineate the aquatic features that are present within the project area utilizing the current procedures so that the United State Army Corps of Engineers (USACE) may determine which aquatic features are waters of the United States (WOTUS) that are federally jurisdictional under the Clean Water Act (CWA).

On August 24, 2022, NewFields' environmental scientists conducted field investigations to determine the extent of aquatic features occurring in the approximately 172 acres delineation survey area. The delineation was conducted in accordance with the 2008 "A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States". There was one ephemeral aquatic resource totaling 4,013 linear feet and one upland swale totaling 1,447 linear feet found across the survey area (Appendix A).

In accordance with the pre-2015 Regulatory Regime (e.g., Rapanos Guidance) the relevant reach and flow path to the Truckee River, the nearest traditionally navigable waterway (TNW), was assessed. Based on the field analysis and application of this guidance, it is the opinion of NewFields that the ephemeral aquatic resource totaling 4,013 linear feet has no significant nexus to the Truckee River and the upland swale totaling 1,447 linear feet has no presence of an ordinary high water mark (OHWM). Results of this opinion are that there are no WOTUS located within the survey area, and thus, activities occurring within the survey area are not subject to regulation under Section 404 of CWA.

1.0 Introduction

Redwood Materials is proposing to construct a commercial development in the Tahoe Regional Industrial Center, McCarran, Storey County, Nevada. McGinley & Associates is acting on behalf of Redwood Materials and engaged NewFields to conduct an evaluation of aquatic resources within the study area. A formal aquatic resources delineation survey was completed by NewFields within the 172-acre survey area on August 24, 2022. The purpose of this report is to identify and describe aquatic resources and, to identify known possible sensitive plant, fish, wildlife species, and cultural/historic properties in the survey area. This report facilitates efforts to document aquatic resource boundary determinations for review by regulatory authorities.

Applicant Representative:

Mr. Tony Dimpel
McGinley & Associates
5410 Longley Lane
Reno, NV 89511
Phone: (775) 722-2765
Email: tdimpel@mcgin.com

Agent(s):

Ms. Jennifer Thomason
NewFields
3265 N. Fort Apache Road, Suite 110
Las Vegas, Nevada 89129
Phone: (775) 525-0384
Email: jthomason@newfields.com

2.0 Location

The survey area is located in Storey County, NV in the Tahoe Regional Industrial Center, off of Norway Drive and adjacent to physical address 7050 USA Parkway, Sparks, Nevada.

The approximate center of the project is located at 39.496091° N, -119.445293°W. The project is located on two United States Geological Survey (USGS) 7.5-minute 24K-topographic quadrangles, Martin Canyon and Derby Dam.

2.1 Driving Directions

From Reno take Interstate 80 East to Exit 32 for State Highway 439/USA Parkway. Travel south on State Highway 439/USA Parkway for approximately 6 miles to Norway Drive on the right. Turn right on Norway Drive and the site is located on the right side of Norway Drive.

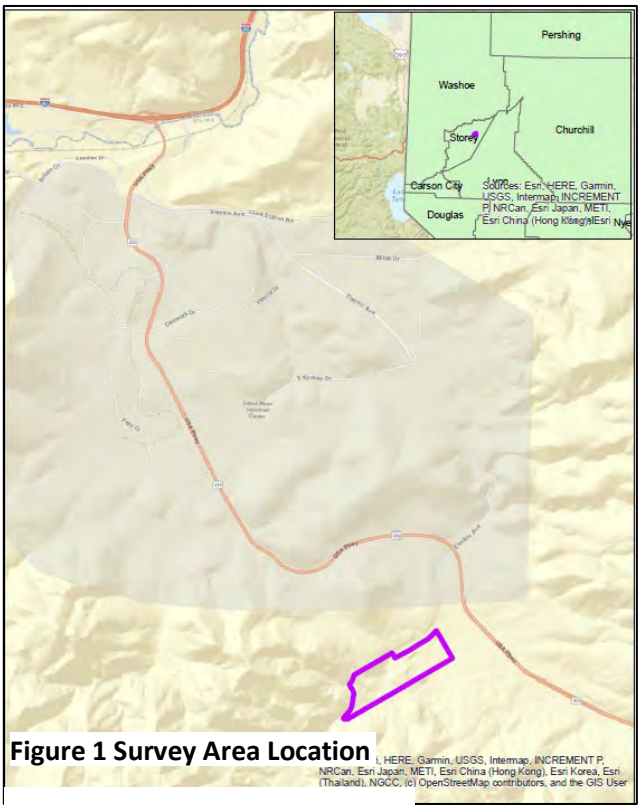


Figure 1 Survey Area Location

3.0 Methods

Methods for delineating aquatic resources and assessing jurisdiction followed guidelines set forth by the USACE in the following documents:

- *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the United States* (Lichvar and McColley 2008)
- *Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (*Curtis and Lichvar 2010*)*
- *Pre-2015 Regulatory Definition and Practice which followed the Guidance Documents of the Definition of "Waters of the United States" following the U.S. Supreme Court's Decision Rapanos v. United States & Carabell v. United States – December 2, 2008*

Prior to the on-site delineation visits, reviews were conducted of the most recent and historical Google Earth imagery for the survey area. Historical and current aerials and topographic maps for the survey area were also reviewed prior to conducting the site visit.

On August 24, 2022, a NewFields' environmental scientist assessed the area within the survey boundary for characteristics (e.g., stream bed, stream banks, OHWM, and wetland features) of aquatic resources. Not all lengths of the aquatic resources were surveyed in the field due to ongoing construction activities in the upland locations however, these activities did not impede the proper completion of the delineation of the aquatic resources. There was no active construction in the aquatic resources during the field survey.

OHWM datasheets for intermittent and ephemeral streams were collected in the field. Field conditions were documented through the collection of photographs that include the compass angles, coordinates, and date/time stamps. Data collected at each datapoint included substrate, vegetation, stream bed composition, photos, and cross sections. The *Arid West Ephemeral Streams OHWM* 3-page datasheets were recorded at applicable locations (Appendix E). Features lacking an OHWM were determined to be upland swales (US) and were documented.

Field collected data were then mapped over the most recent available imagery from Google Earth and ESRI ARCMap Basemaps. This data was used to develop appropriate supporting maps that comply with the *Final Map and Drawing Standards for the South Pacific Division Regulatory Program*. Delineation supportive mapping is included in the appendices of this report. The USACE Antecedent Precipitation Tool (APT) was utilized for the date of the site visit and this data included in the appendices of this report.

Rapanos Guidance was utilized in providing the supportive evidence that the aquatic resource within the survey boundary does not have a significant nexus to the TNW. The relevant reach was identified on the pre-field survey mapping and was confirmed in the field. The downstream flow path to the TNW was documented in the field where it could be publicly accessed. This data is included in the appendices of this report. The Environmental Assessment (EA) that was finalized for the Federal Highways Administration

(FHWA) and Bureau of Land Management (BLM) in 2014 was also reviewed prior to the field work being conducted.

4.0 Existing Conditions

4.1 Landscape Setting

The survey area is located in the mountainous terrain of the Virginia Mountain range. Topography across the site is relatively steep, covered with boulders and cobble and relatively sparse vegetation. The survey area is located in Martin Canyon. The sparse vegetation is composed of common xerophytic species from the region.

The survey area is approximately 172 acres and has been impacted by ongoing development of the Tahoe Reno Industrial Center. The aquatic resource, AR 1, has been incorporated into the stormwater management for the developed areas. Areas where active construction was occurring adjacent to, but not in, the aquatic resource were not accessed during the site visit. However, the presence of AR 1 adjacent to these disturbed areas could be visually observed, indicating that the bed and banks of the resource were still present on the landscape. Undisturbed streambed areas above and below the disturbance zone was visited during the site visit. At the downstream location of undisturbed streambed, downstream disturbance, located outside the survey boundary was observed. Further discussion about stream conditions downstream of the project site is provided in other sections of this report.

Upstream of the survey area is a mining area that is observable on the 1954 aerial photos (historicaerials.com) and is labeled on topographic maps as Gooseberry Mine (Appendix B).

4.2 Aquatic Resources

The project area is located in the Basin and Range aquifer system. This is aquifer system serves as the primary municipal water source for Storey County. The steep topography of the area, low soil permeability, high evaporation rate, and sparse vegetation leads to ground water recharge primarily restricted to alluvial fans (FHWA/BLM). Most of the precipitation received in the area is lost to evapotranspiration leaving about 5% of precipitation to groundwater recharge (FHWA/BLM).

The survey area has a slope of approximately 4% from end to end. The NRCS web soils survey has two soil units intersecting the survey area (Appendix B). Neither of the two soil units are hydric soils and the aquatic resource is wholly located in the Doorkiss-Ister-Ceejay association. The vegetation community was consistent with xerophytic habitat types with Rubber rabbitbrush, Big sagebrush and cheatgrass being the dominant vegetative species present across the survey area (Appendix G).

Based on the elevation within the valley, flows for the aquatic feature within the survey area are precipitation driven as there are no groundwater sources or snowpack supported flows. According to the NOAA Weather Station in Reno, August 2022 was the wettest August on record as 1.72 inches of precipitation was received. This recent precipitation highlighted OHWM indicators within the aquatic features, where OHWM existed. Results from the APT show that the site was experiencing normal conditions during the August 24, 2022, site visit. The site visit was conducted during the dry season and the region is experiencing a severe drought as of July 2022 (Appendix D).

There was no observed or documented interstate or foreign commerce associated with the aquatic resources found on the site, including recreation or other use by interstate or foreign travelers, the sale of fish or shellfish, or industrial operations involved in interstate or foreign commerce.

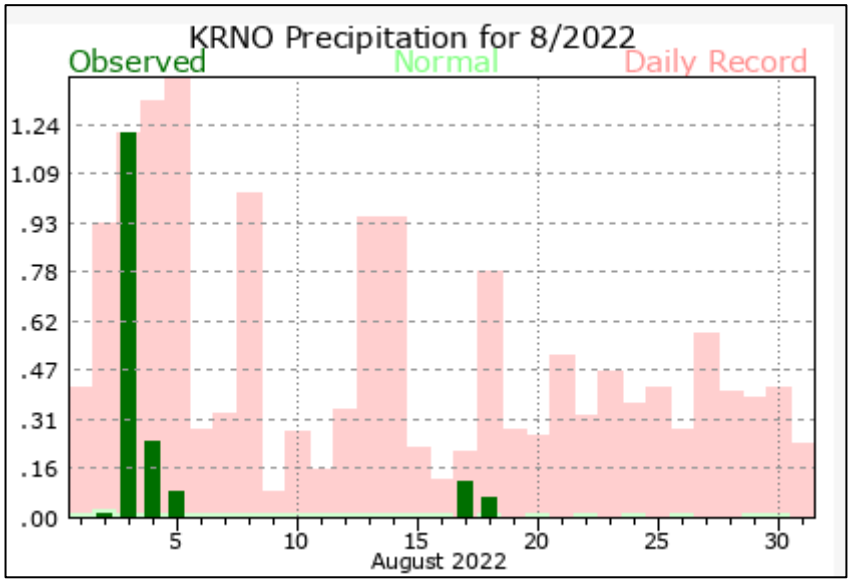


Figure 2. Precipitation Totals for August 2022 at the Reno Weather Station.

4.2.1 Overview

The National Wetland Inventory (NWI) mapping for the survey area (Appendix B) shows more potential features located within the survey area than was supported by the latest topographic mapping. Ultimately, there were two features from the pre-survey data that were further investigated during the site visit (Appendix A). The aquatic feature can be mapped to the Truckee River, the nearest downstream TNW (HUC 16050102). More discussion of this downstream flow path is provided below. There were no wetlands, perennial or intermittent streams, or open water features within the delineation area.

Aquatic Resource (AR) 1

AR 1 was a dry, ephemeral stream that entered the survey boundary from mining property located upstream of the survey area. AR 1 is classified as Cowardin, R6 (Riverine-Upper Ephemeral) and HGM code of Riverine. At the time of survey, the feature was dry stream bed with lingering OHWM indicators. OHWM indicators included a clear line within the banks of the stream and mud cracks. The representative OHWM at both the undisturbed locations within the survey area was 3.75 feet wide and 0.33 feet deep. The OHWM was stained with a lighter color than the surrounding soils. The source of the staining is undetermined but originated far upstream of the survey boundary.

AR 1 has a persistent bed and bank through the entire length of the survey area, including previously disturbed areas, as documented in the site photos (Appendix C). The flow path of this feature can be

mapped to the Truckee River, located approximately 6.5 miles downstream from the most downstream extent of the survey area.

Upland Swale (US)

This feature was an upland swale with no primary OHWM indicators for the length of the feature. The feature was heavily lined with basalt boulders and cobble with a substantial amount of Cheatgrass in the lowest topographical point of the drainage. There was evidence of erosion originating from the hillside road. The only OHWM indicator noted in the length of this feature were small areas of mud cracks where it appeared recent precipitation had gathered and evaporated, as there was no evidence of flows within this feature.

Because this feature lacks any OHWM that indicates flowing surface water, this US feature is documented as a non-jurisdictional upland feature.

Table 1. Aquatic Resources within the Survey Area

AR Name	Cowardin	Location Coordinate (Decimal Degrees)		AR Size (Acreage)	AR Length (Feet)
		Latitude	Longitude		
AR 1	R6- Riverine-Upper Ephemeral	39.493567	-119.447641	0.11	4,013
US	UPL	39.494751	-119.450487	N/A	1,447

4.2.2 No Significant Nexus to Truckee River

Per the Rapanos Guidance, the relevant reach for AR 1 extends to the opposite side of State Route 439/USA Parkway where there is a large culvert that drops water into the stream channel, downstream of a series of rock check dams that are existing in the stream bed. This culverted confluence is visible in the photolog (Appendix C). A review of the EA completed for the USA Parkway (FHWA/BLM) documents the hydrologic study that was conducted for the project. The conclusion of that study was that during annual storm events, stormwater from the relevant reach would dissipate primarily through evapotranspiration before reaching the Truckee River. For 10-year and 25-year storm events there was the potential that areas in closer proximity to the Truckee River may contribute discharge to the TNW, but normal, annual events received in the area that includes the survey area would likely never contribute flow.

The EA hydrological analysis was conducted prior to the construction of the USA Parkway, as it exists on the landscape today. Through the construction of that project, there is now a detention basin on each side of the highway under which flows are passed through 9 large culverts. These detention basins serve as areas that would capture most flows from the relevant reach. The outflow from the downstream detention basin

enters the first of four in-series rock check dams that are located adjacent to the graveled section of Electric Avenue. These conditions are documented in the photolog (Appendix C).

After the series of rock check dams, the streambed follows Electric Avenue through the mountains to another development area of the Tahoe Reno Industrial Center. Through this development area the stream has been integrated into the stormwater management for each subsequent downstream development. After leaving this development area the stream bed lays relatively undisturbed through a private parcel until again enters a development area near Clark Station Road. Through this section of the flow path the stream bed flows under a mineral company silo tank, railroad tracks and abandoned roadways and re-emerges in the immediate area of the Truckee River. The confluence area is located on private property that was fenced and posted as of the date of the field survey. The numerous obstructions to the flow path that create additional areas for the impoundment and evaporation of water make it less likely than it was in 2014 when the EA was finalized, that normal flows received within the survey area would make it to the Truckee River.

As any regular, annual flows received in the survey area would never be expected to make it to the Truckee River, there is no evidence that AR 1 would provide any more than speculative contributions to the biological, chemical, or physical integrity of the Truckee River, the nearest TNW. This reasoning serves as the basis for NewFields' opinion that AR 1 is not a jurisdictional feature that is subject to the USACE implementation of Section 404 of the CWA.

4.3 Sensitive Plants, Fish, Wildlife, and Cultural/Historic Properties

There are no known sensitive plants within the survey area. Additional and more focused vegetative surveys may be required if there are any federal actions taken within the survey area. The survey area does not support any fish populations. The Cui-ui was the only listed species within the survey area from the USFWS Information Planning and Consultation (IPaC) program. The closest fish populations would be 6.5 miles downstream in the Truckee River. One candidate species was listed through IPaC, the Monarch Butterfly. There are no known, listed, or potentially eligible properties located within the survey area.

5.0 References

Lichvar R, McColley SM. 2008. A field guide to the identification of the ordinary high water mark (OHWM) in the arid west region of the United States: A delineation manual. ERDC/CRREL TR-08-12. USACE Research and Development Center/Cold Regions Research and Engineering Laboratory, Hanover, NH.

Curtis, K, Lichvar R. 2010. Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States. ERDC/CRREL TN-10-1. USACE Research and Development Center/Cold Regions Research and Engineering Laboratory, Hanover, NH.

Netronline, Historic Aerials. 2022. Review of all historic aerial photos and topographic maps for coordinates located at latitude 39496091, long -119.445293. historicaerials.com, accessed August 1, 2022.

[USEPA] U.S. Environmental Protection Agency. 2013. Level IV Ecoregions of the Conterminous United States. U.S. EPA Office of Research Y Development (ORD) – National Health and Environmental Effects Research Laboratory (NHEERL). Corvallis, OR. April 16, 2013.

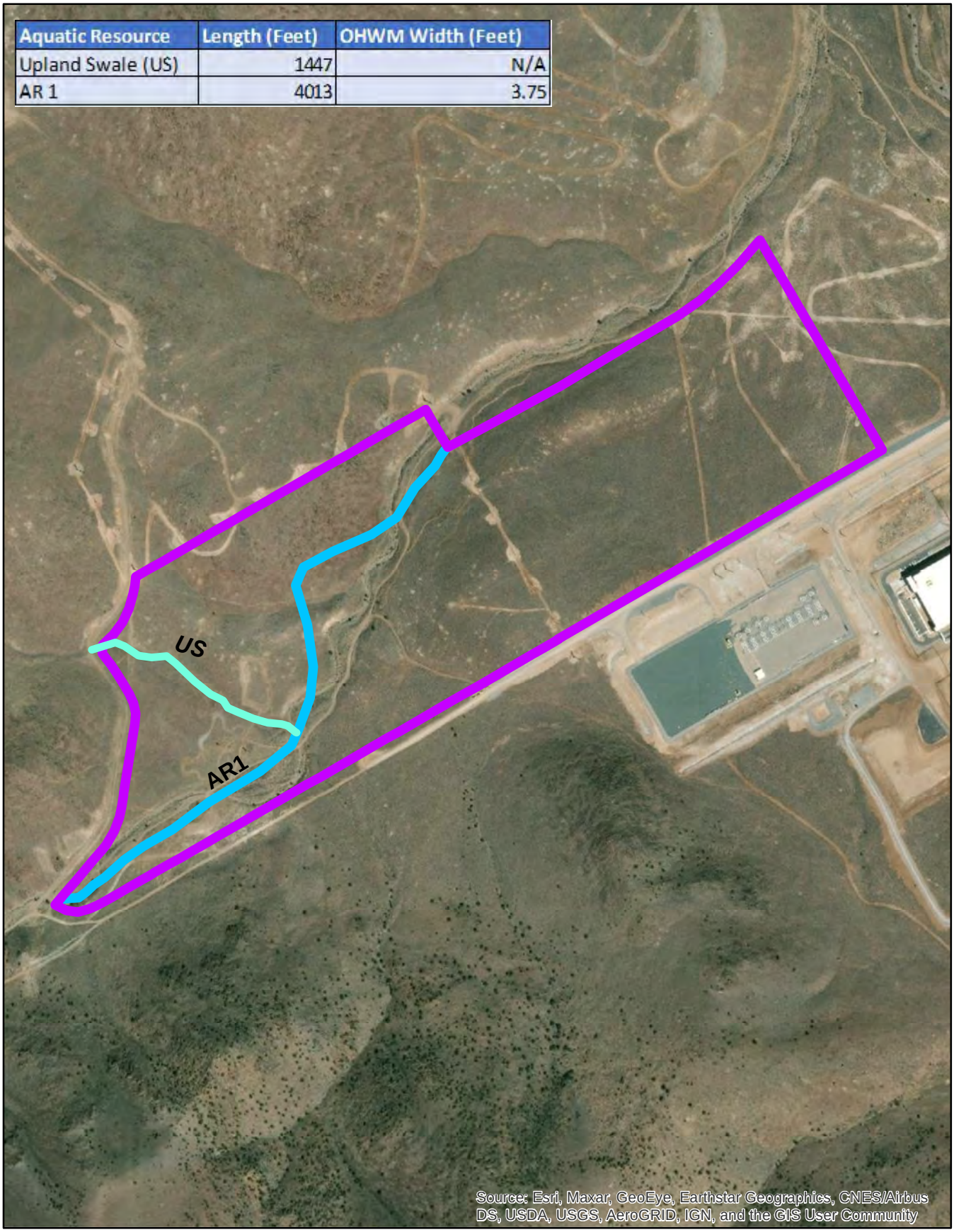
[USACE/USEPA] USACE and USEPA. 2007. U.S. Army Corps of Engineers jurisdictional delineation form instructional guidebook and approved jurisdictional delineation form (Appendix B). Littleton (CO): Corps.

[USDA] US Department of Agriculture. Natural Resource Conservation Service. Soil Data Access Hydric Soils List. https://www.nrcs.usda.gov/Internet/FSE DOCUMENTS/nrcseprd1316620.html. Visited on August 31, 2022.

[FHWA/BLM] US Department of Transportation, Federal Highway Administration in cooperation with Bureau of Land Management. FHWA-NV-EA 13.02, Federal Project No.: SPSR-0439(001). Environmental Assessment, USA Parkway Project Lyon County and Storey County, NV. September 2014. Available at: https://www.dot.nv.gov/home/showdocument?id=6320 , downloaded August 22, 2022.

APPENDIX A. AQUATIC RESOURCE DELINEATION MAPS

Aquatic Resource	Length (Feet)	OHWM Width (Feet)
Upland Swale (US)	1447	N/A
AR 1	4013	3.75



Project Boundary

0 0.05 0.1 0.2 0.3 0.4 Miles

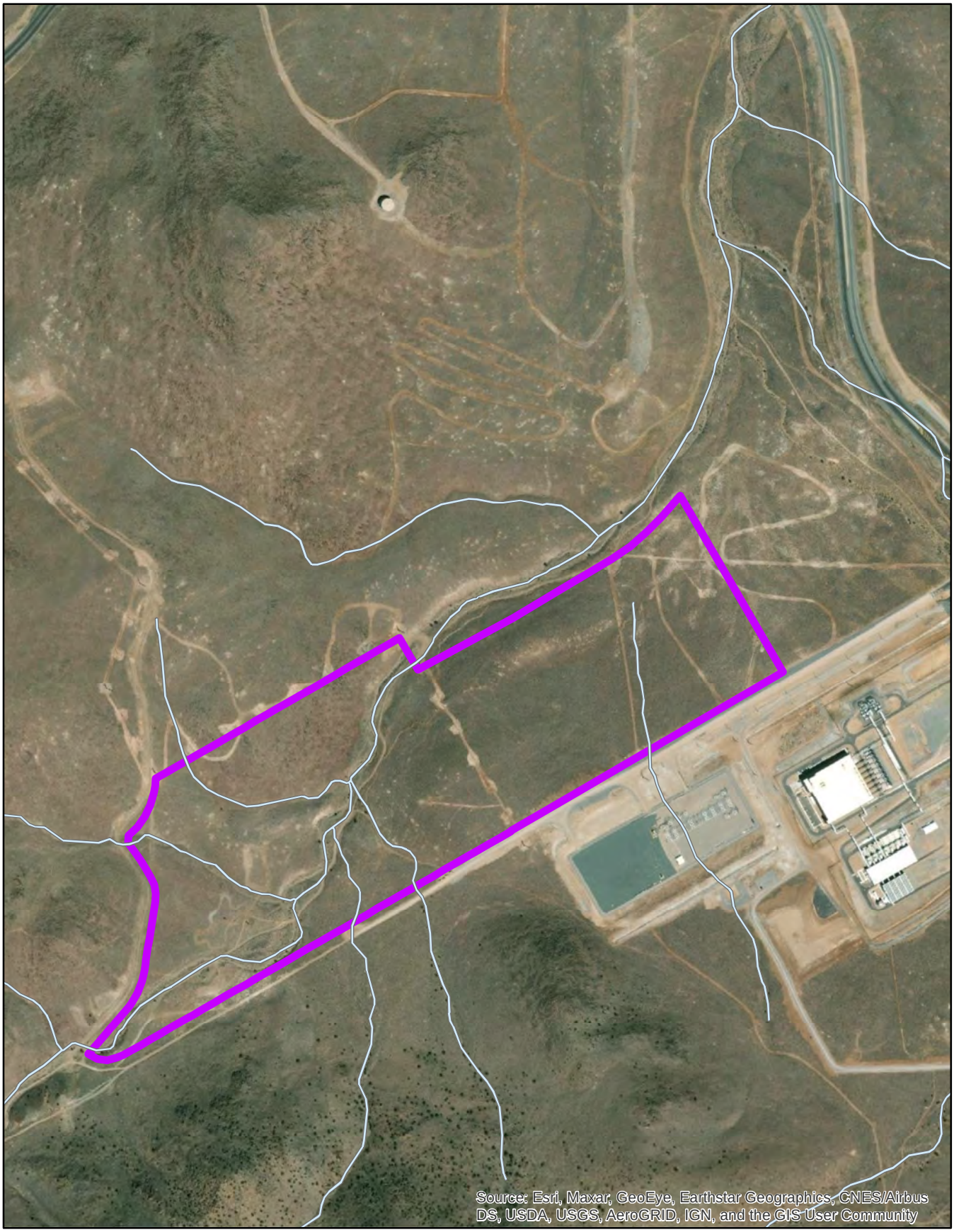
0 0.05 0.1 0.2 0.3 0.4 Kilometers

N

Redwood Materials
Aquatic Resources

NewFields

APPENDIX B. SUPPORTING MAPS



Project Boundary

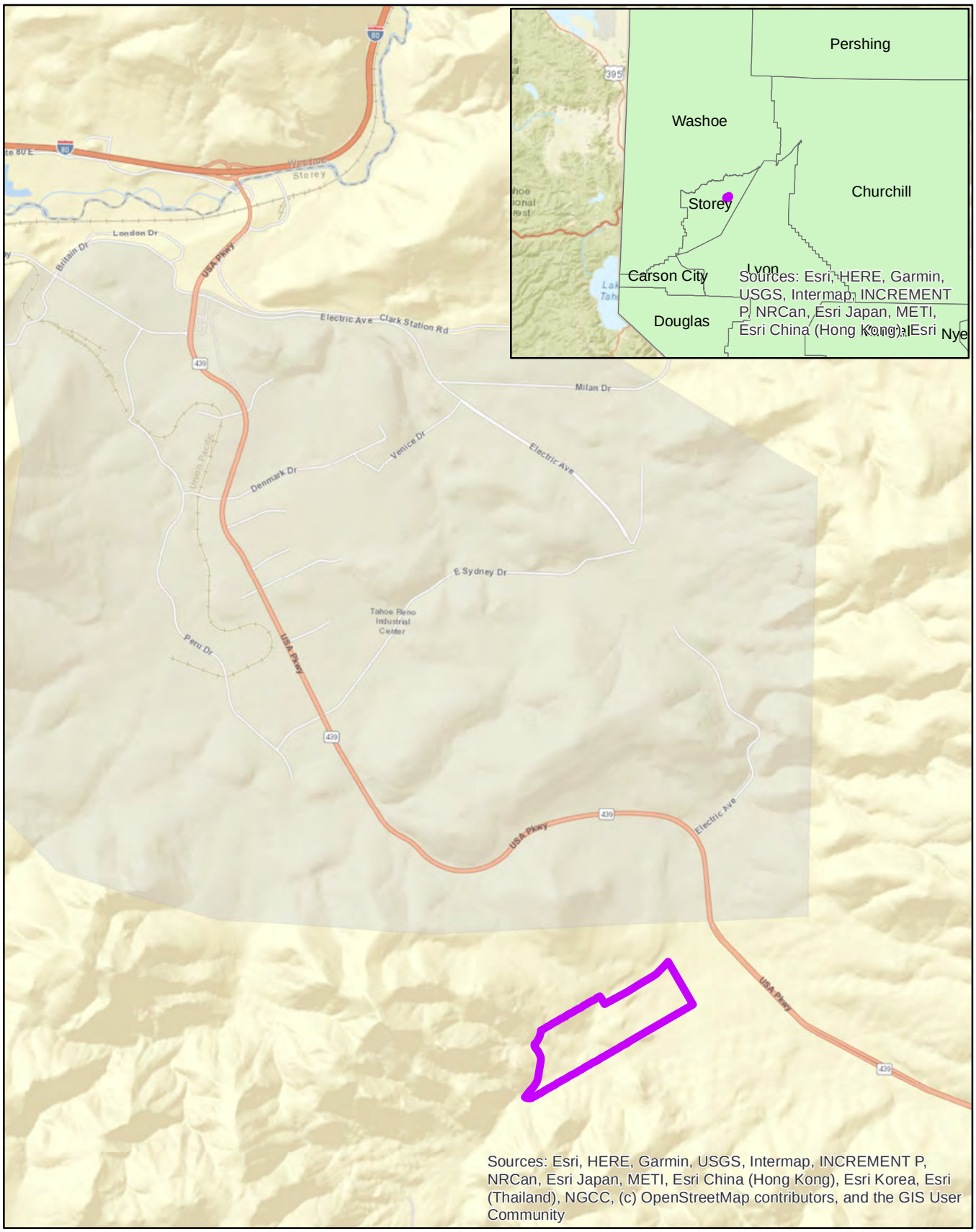
0 0.05 0.1 0.2 0.3 0.4
Miles

0 0.075 0.15 0.3 0.45 0.6
Kilometers

N

Redwood Materials
National Wetland Inventory

NewFields



Project Boundary

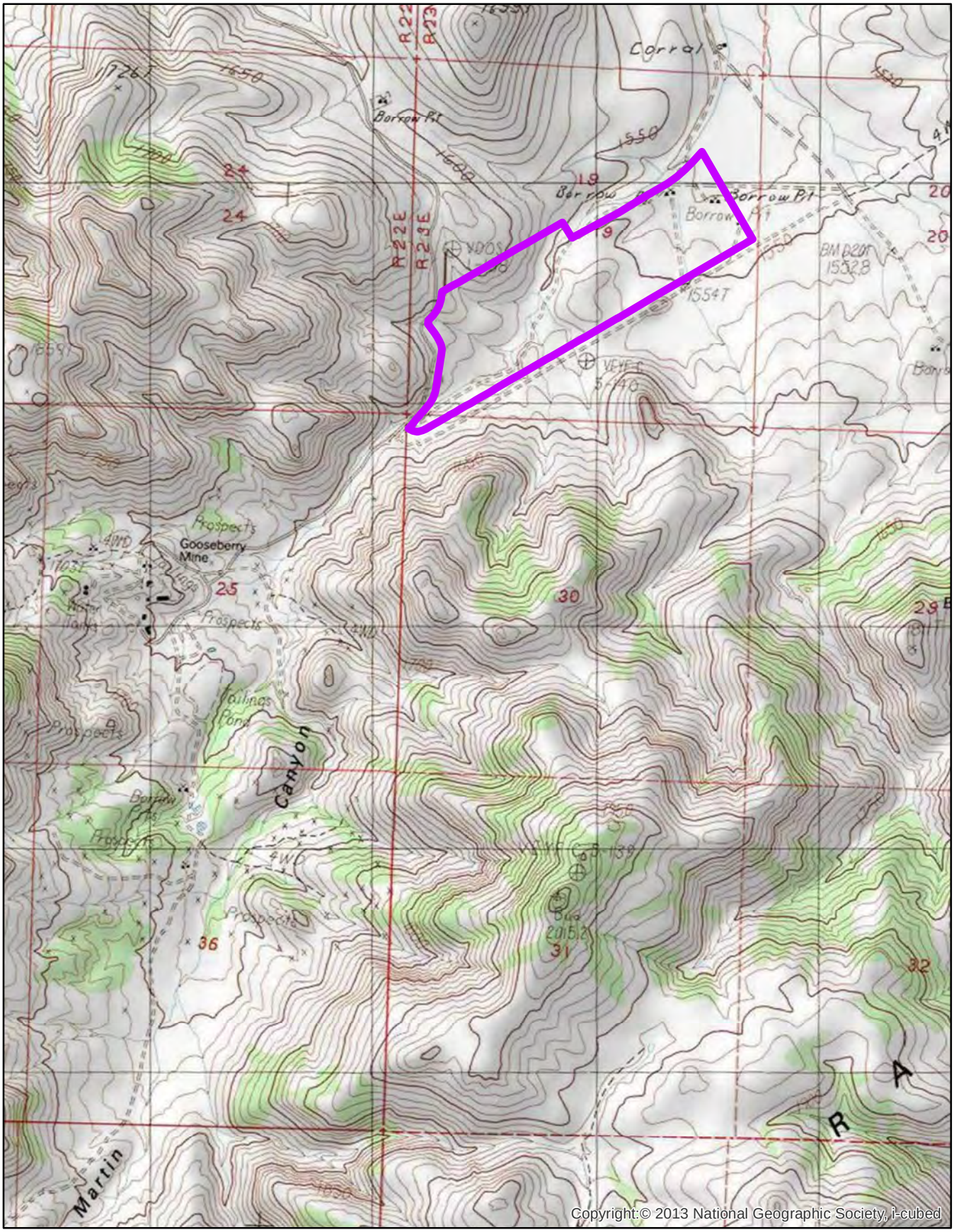
0 0.25 0.5 1 1.5 2 Miles

0 0.35 0.7 1.4 2.1 2.8 Kilometers

N

Redwood Materials
Project Location & Vicinity

NewFields


Project Boundary
0 0.1 0.2 0.4 0.6 0.8
Miles
0 0.15 0.3 0.6 0.9 1.2
Kilometers
N
Redwood Materials
Topographic Location
NewFields
Copyright:© 2013 National Geographic Society, i-cubed

Project Boundary

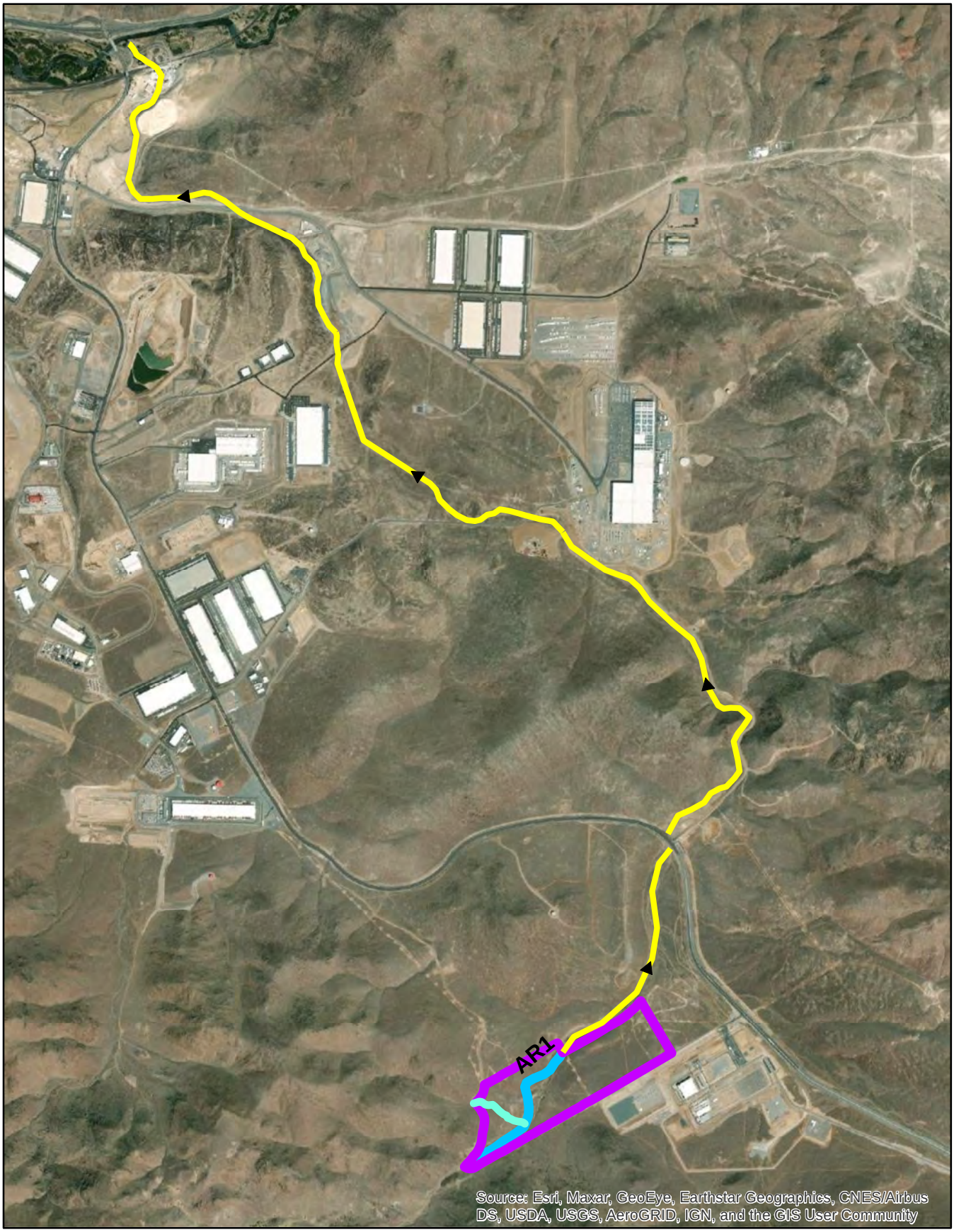
0 0.1 0.2 0.4 0.6 0.8 Miles

0 0.15 0.3 0.6 0.9 1.2 Kilometers

N

Redwood Materials Project Location

NewFields



FlowPath

Project Boundary

0 0.2 0.4 0.8 1.2 1.6
Miles

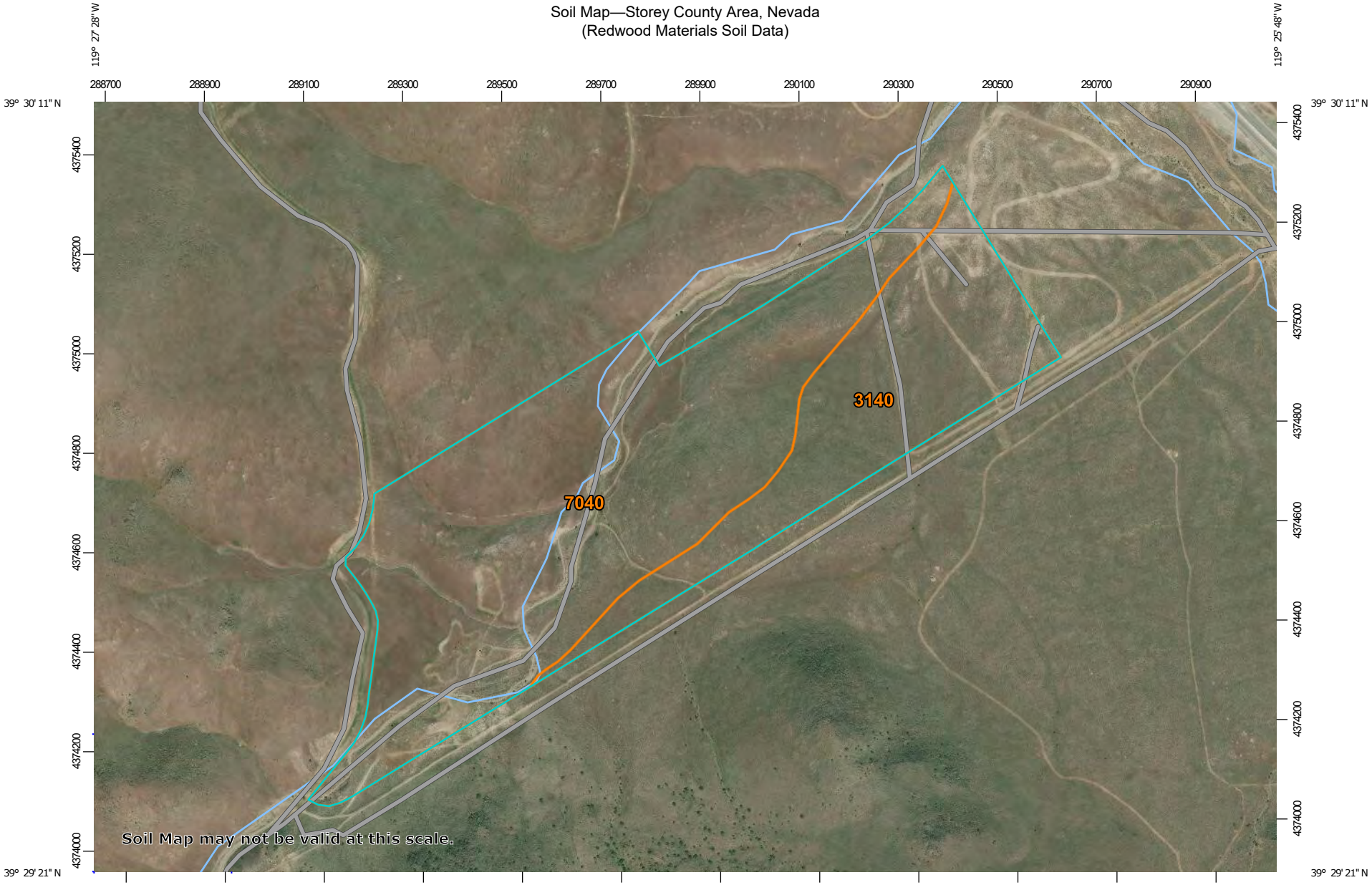
0 0.275 0.55 1.1 1.65 2.2
Kilometers

N

Redwood Materials
Flow Path to Truckee River

NewFields

Soil Map—Storey County Area, Nevada
(Redwood Materials Soil Data)



Map Scale: 1:10,900 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 150 300 600 900

Feet
0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Storey County Area, Nevada
Survey Area Data: Version 20, Sep 9, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Sep 11, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

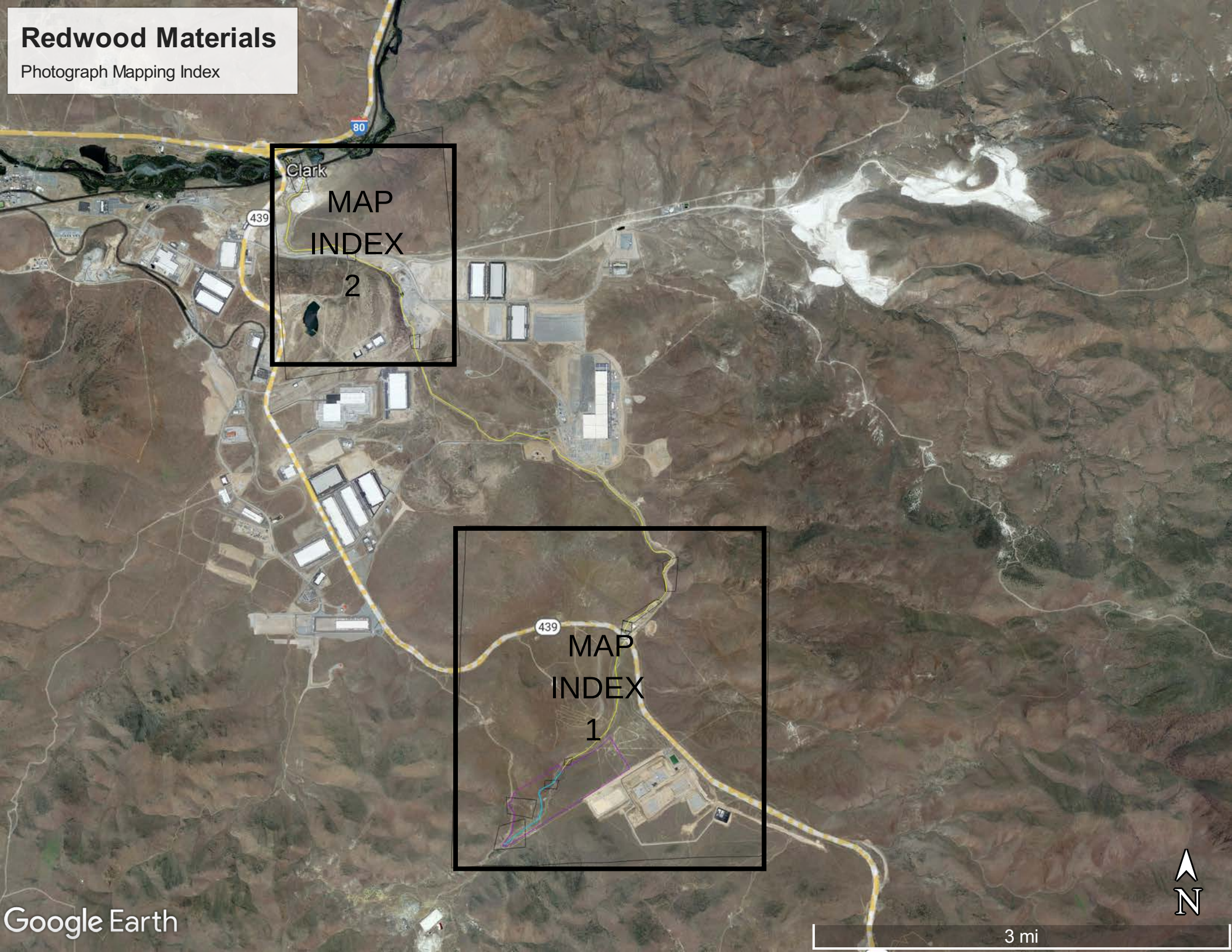
Map Unit Legend

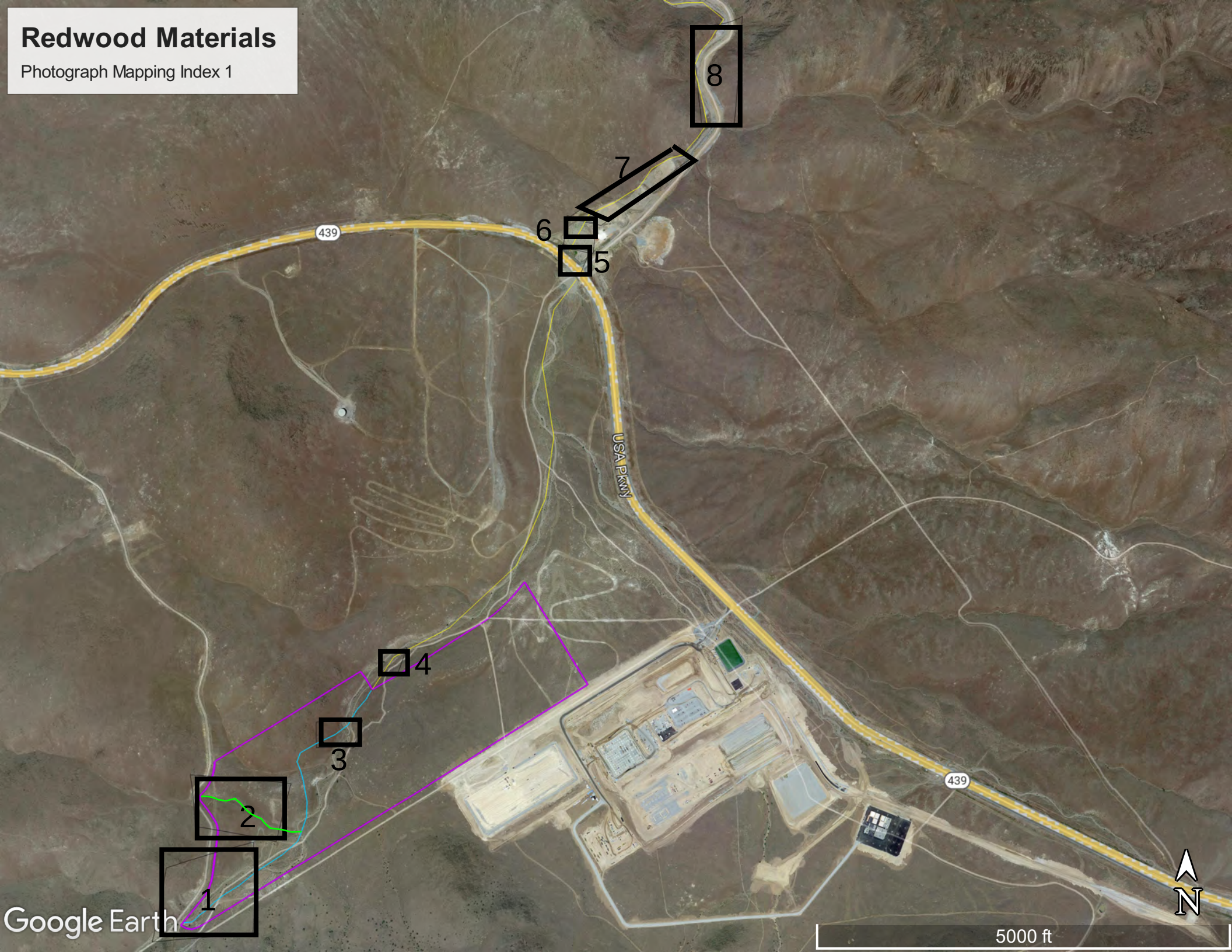
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3140	Fulstone-Reno complex, 2 to 30 percent slopes	50.6	29.5%
7040	Doorkiss-Ister-Ceejay association	120.8	70.5%
Totals for Area of Interest		**171.4**	**100.0%**

APPENDIX C. PHOTOGRAPHS

Redwood Materials

Photograph Mapping Index




Redwood Materials
Photograph Mapping Index 1
8
7
6
5
439
USA PKWY
4
3
2
1
439
Google Earth
N
5000 ft

Redwood Materials

Photograph Mapping Index 2

Photo Map 1-1

Reference Photo Map Indices for broader location.

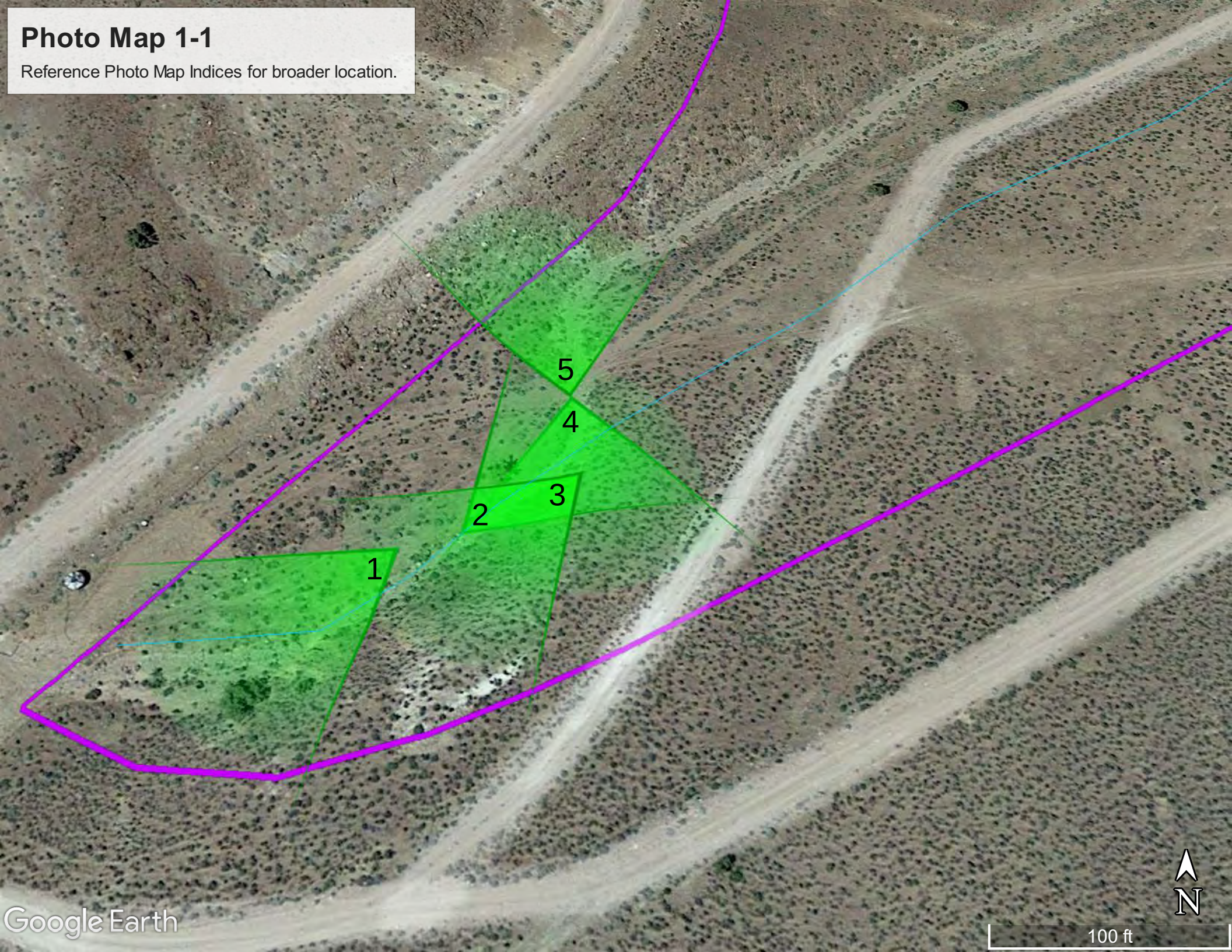


Photo Map 1-1 Site Photos

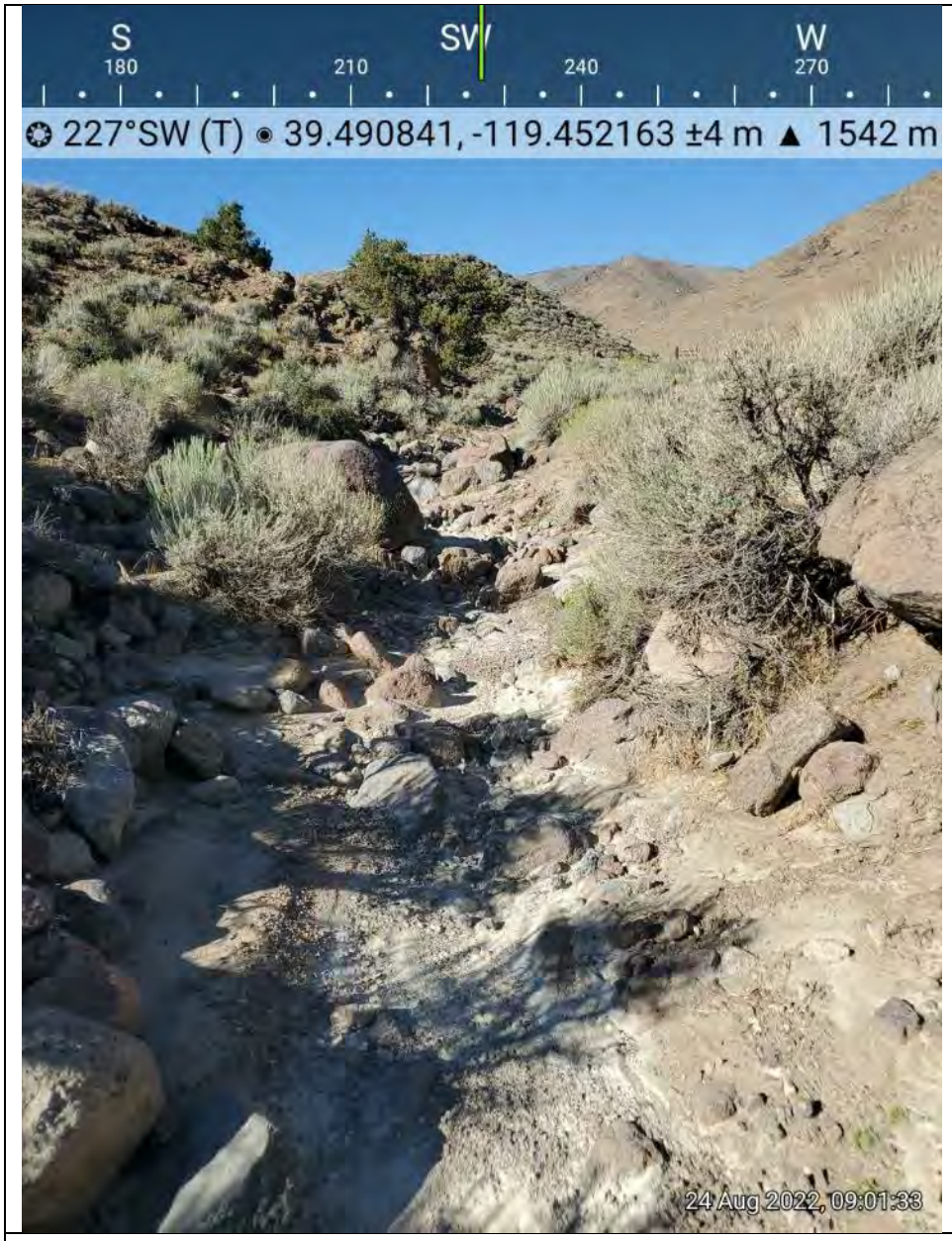


Photo 1. Most upstream extent of AR 1 stream bed within the survey boundary. Resource extends further upstream but on private property with no access. (Location 1 on Map Index)

Photo 2. Looking downstream at AR 1 (Location 2 on Map Index)

Photo 2a. Looking downstream at AR 1, OHWM = 3.75 feet, depth = 0.33 feet

Photo 3. Looking upstream at AR 1

Photo 4. Looking upstream at AR 1

Photo 5. Looking downstream at AR 1

Photo Map 1-2

Reference Photo Map Indices for broader location.

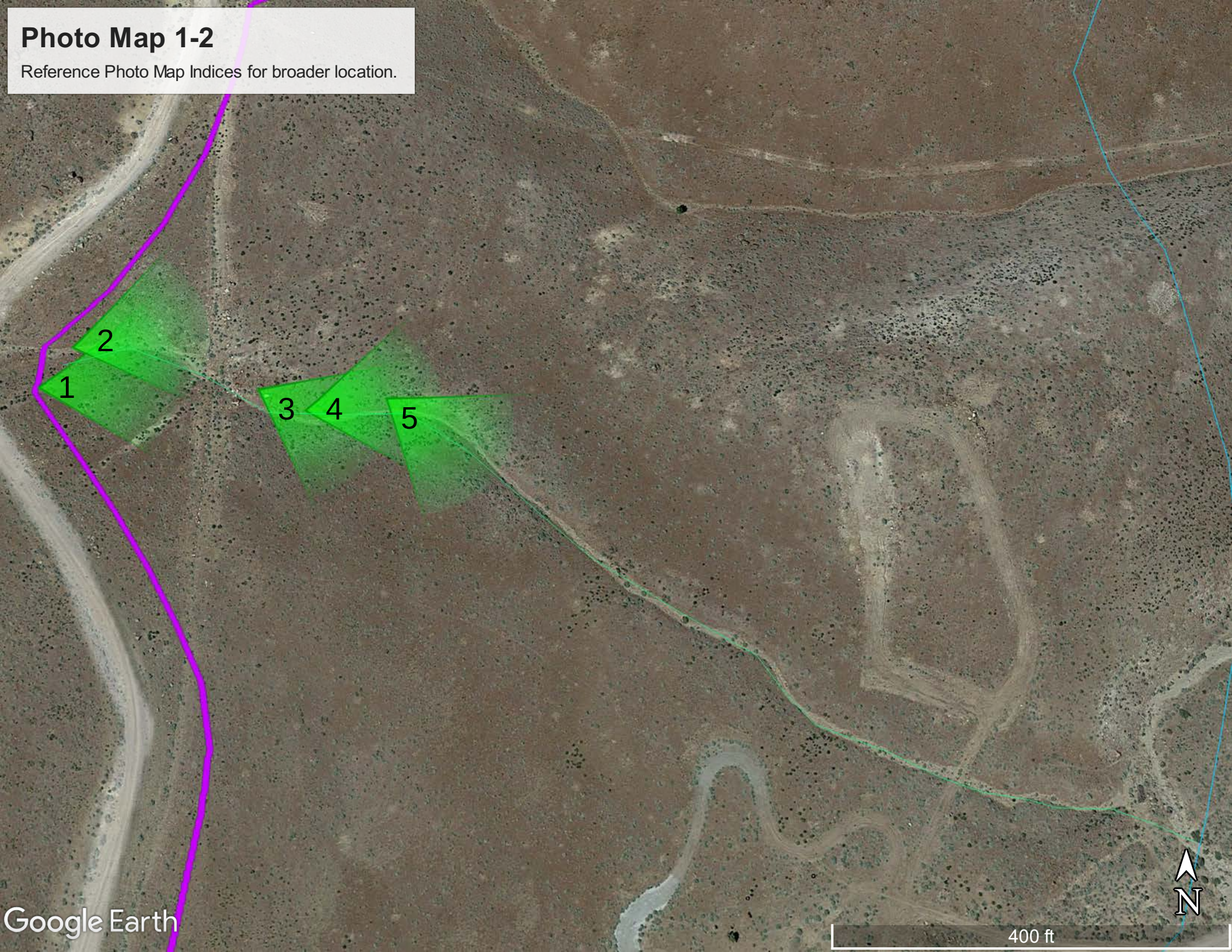


Photo Map 1-2 Site Photos

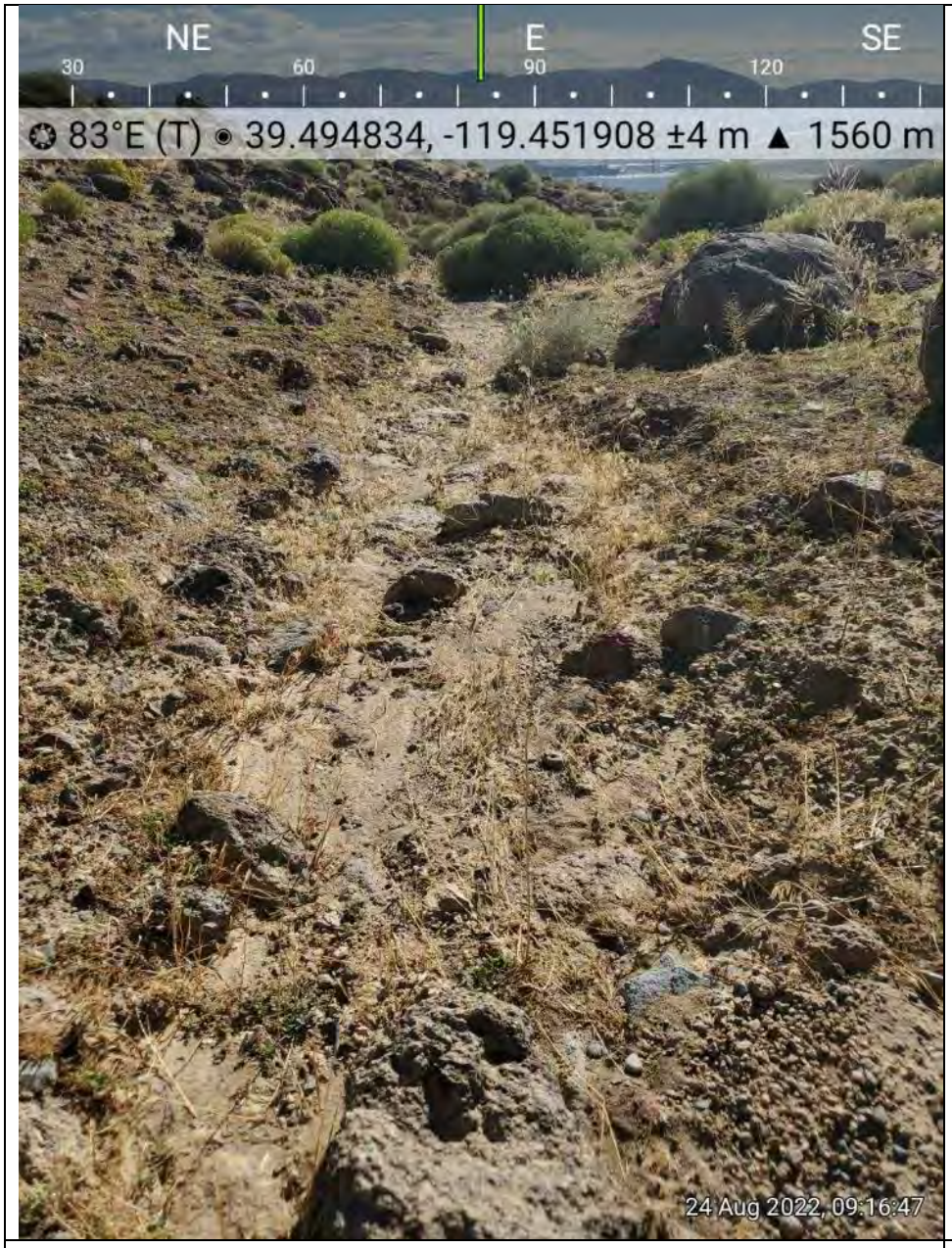


Photo 1. Beginning of Upland Swale downgrade of a road. Evidence of erosion from the road.

Photo 2. Downgradient in the upland swale, extent of erosional material is in middle of photo.

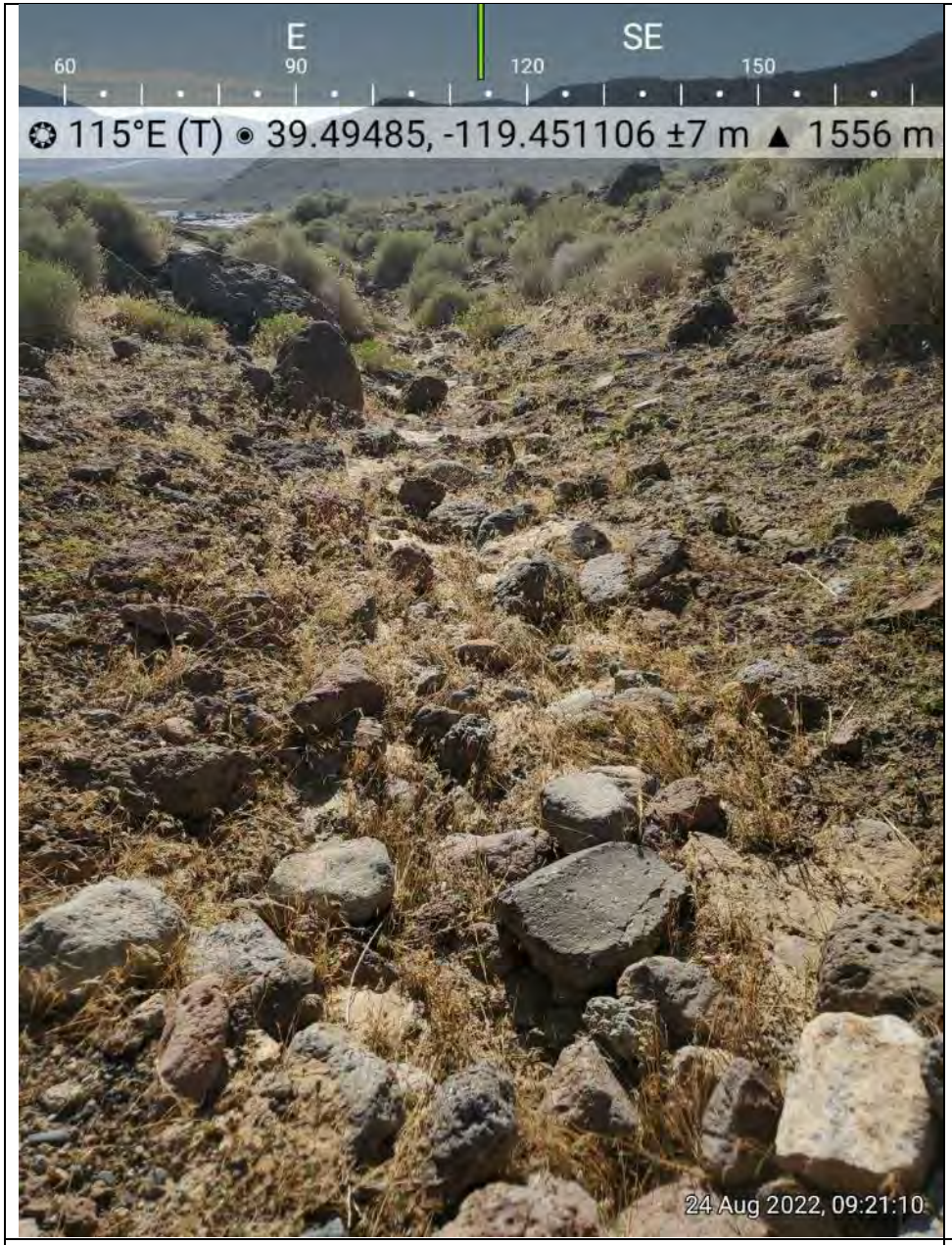


Photo 3. Looking downgradient in the upland swale, representative photo of the feature.

Photo 4. Looking downgradient in the upland swale. This area included the mud cracks where water had pooled and evaporated following the precipitation received earlier in the month.

Photo 4a. Mud cracks in the area of Photo 4, the only OHWM indicator found during the site visit in the upland swale area.

Photo 5. Looking downgradient in the upland swale, looking towards development area at the end of the feature showing no disturbance and no change in the feature.

Photo Map 1-3

Reference Photo Map Indices for broader location.

Photo Map 1-3 Site Photos

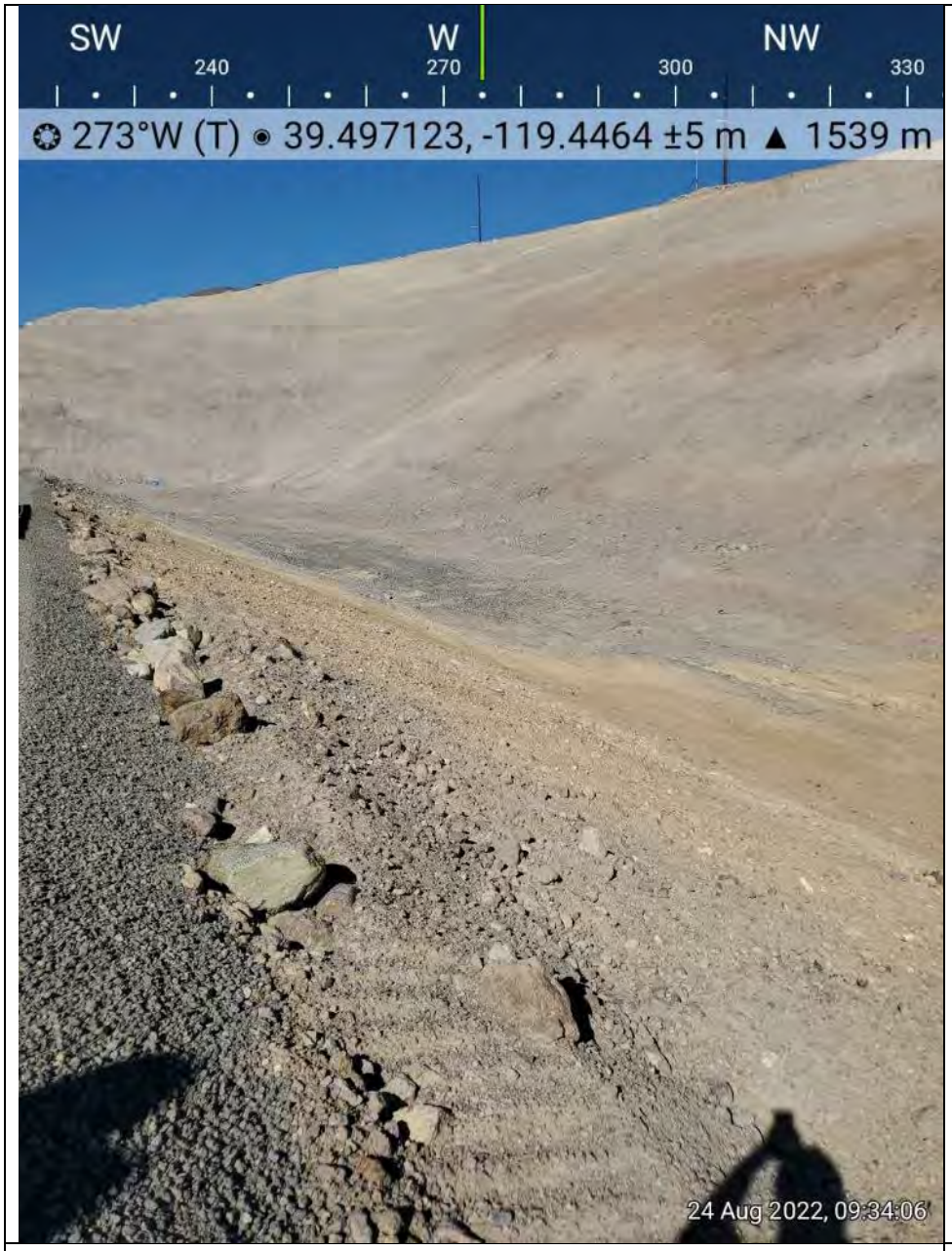


Photo 1. Looking upstream in AR 1 towards upper end of disturbed area.

Photo 2. Looking down stream in AR 1 towards disturbed area with area of non-disturbance in the background where the trees are visible. Non-disturbed area is located outside of survey area.

Photo 3. Looking down stream in AR 1, zoomed in beyond the non-disturbed area that was visible in the previous photo. This is the channel condition to the USA Parkway.

---End---

Photo Map 1-4

Reference Photo Map Indices for broader location.
This area is outside of the survey area but within the relevant reach of AR 1

Photo Map 1-4 Site Photos- Area outside of survey boundary but within relevant reach

Photo 1. AR 1 in undisturbed reach between disturbances looking upstream towards disturbed area. OHWM visible and measured 4 feet in width and approximately 0.33 feet in depth.

Photo 2. AR 1 in undisturbed reach between disturbances looking downstream towards disturbed area.

Photo Map 1-5

Reference Photo Map Indices for broader location.
This area is outside of the survey area but within the relevant reach of AR 1

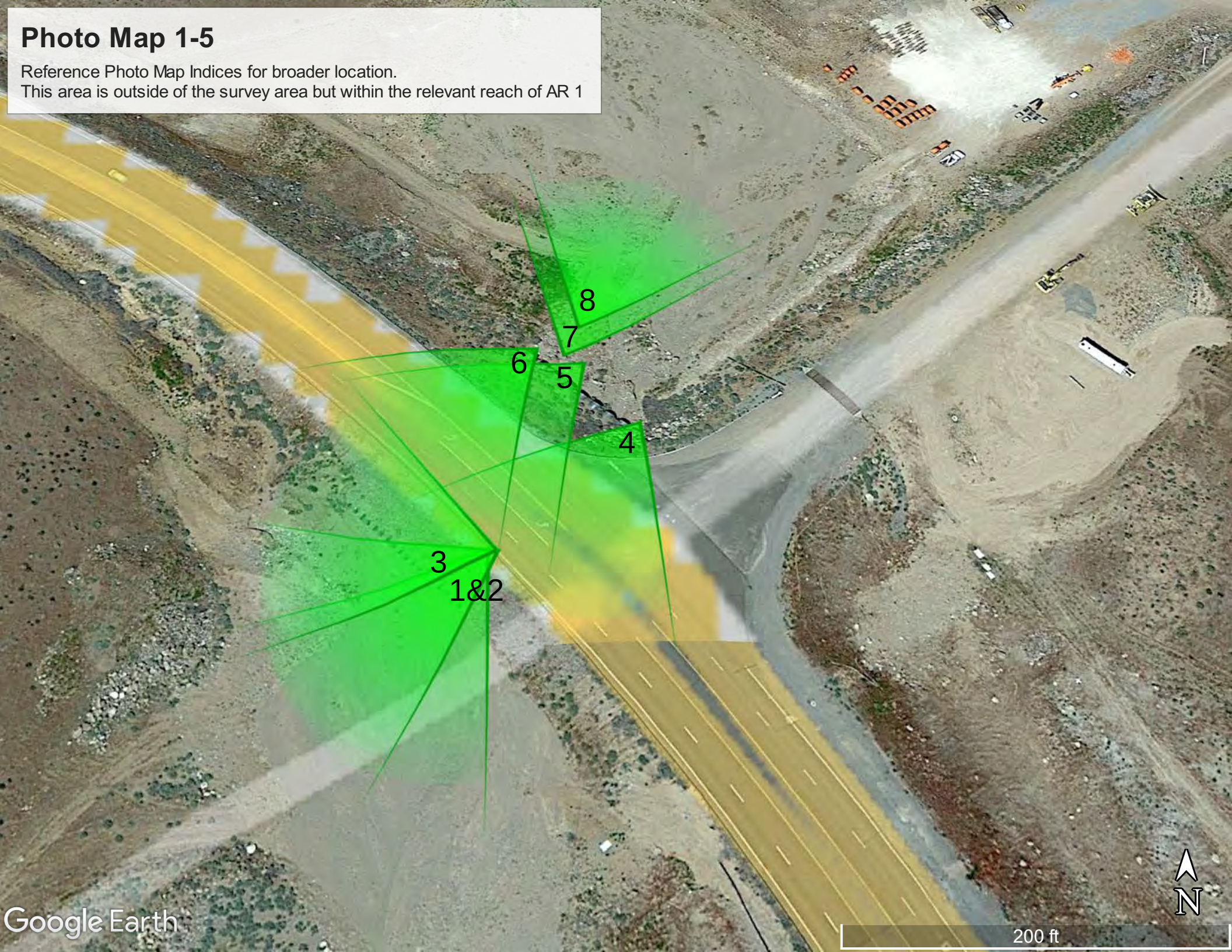


Photo Map 1-5 Site Photos- Area outside of survey boundary but within relevant reach

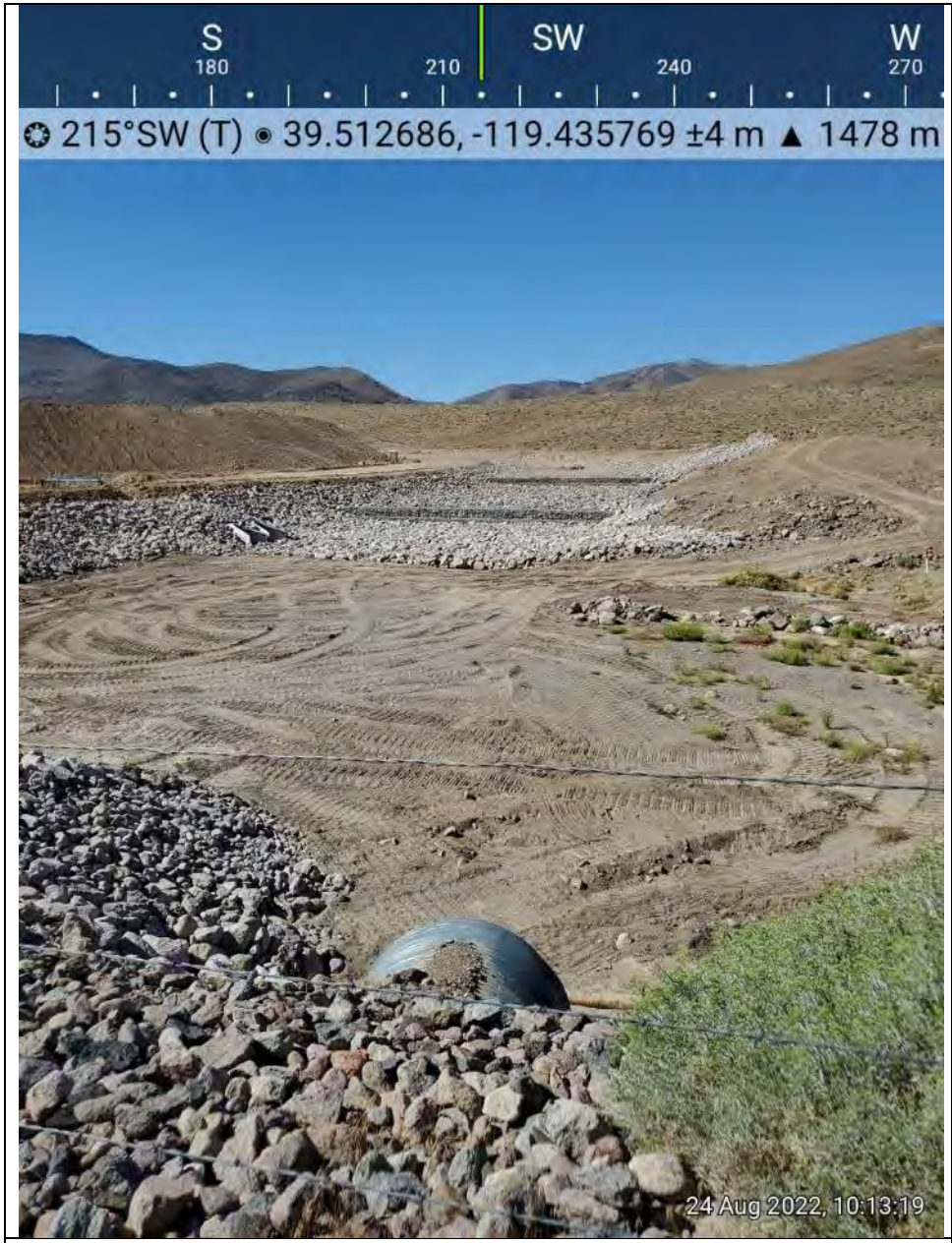


Photo 1. Most downstream end of AR 1 before crossing the USA Parkway. Detention basin adjacent to highway.

Photo 2. Series of culverts crossing under the USA Parkway.

Photo 3. Series of culverts crossing under the USA Parkway.

Photo 4. Culvert outlets after crossing under the USA Parkway. This culvert is the furthest to the left when looking towards the highway. Deposition does not appear to be bedload, but rather fill material from the slopes

Photo 5. Culvert outlets after crossing under the USA Parkway. This culvert is one towards the middle position appeared to have the most flow activity.

Photo 6. Culvert outlets after crossing under the USA Parkway. This culvert is the furthest to the right when looking towards the highway. Very little evidence of flows.

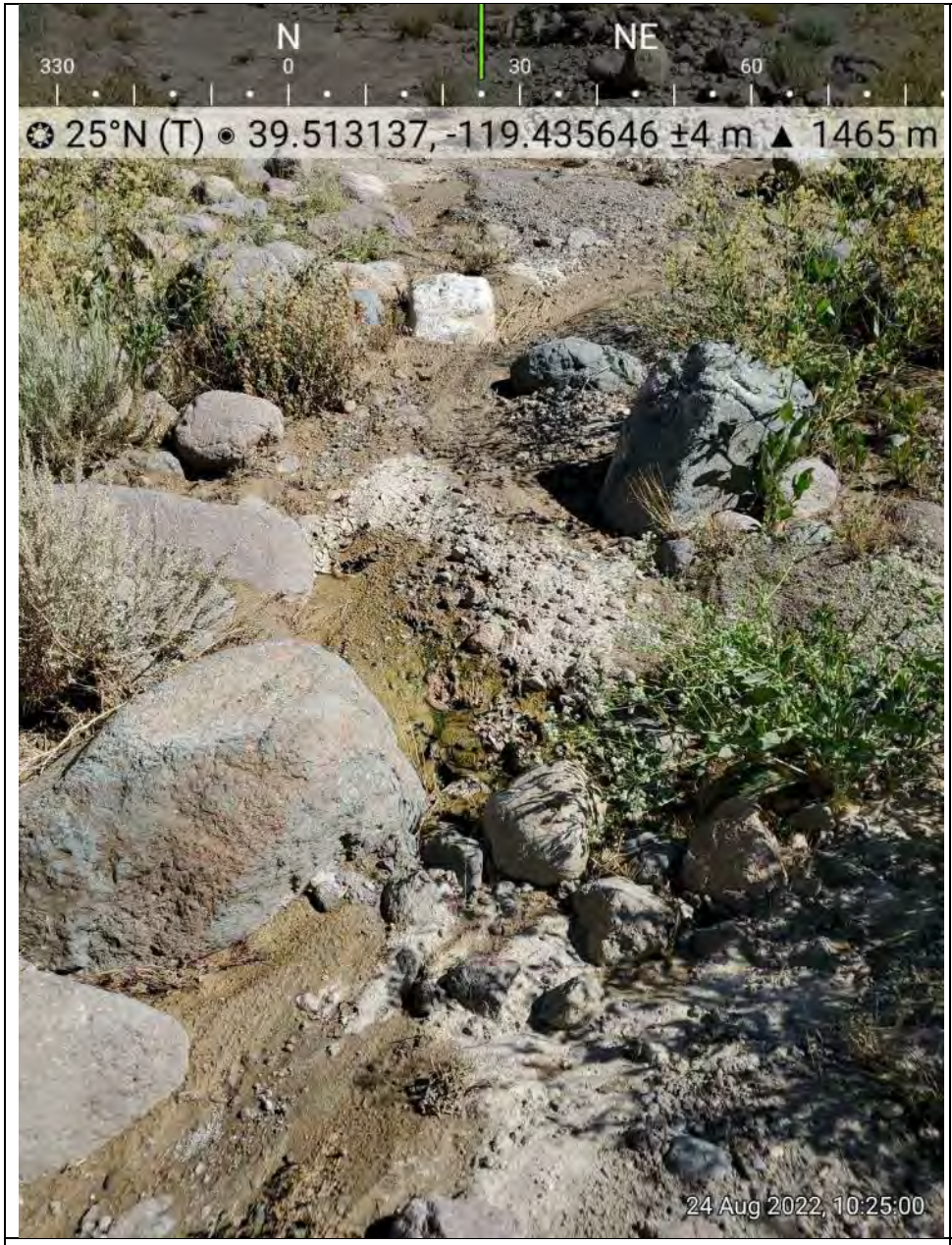


Photo 7. Looking downstream in AR 1 below the culvert in Photo 5, above. Algal growth appears to be a result of horse manure nearby and wetness from recent flows earlier in August. Estray horses are common in the area.

Photo 8. Looking further downstream as streambed opens into detention basin on the opposite side of the USA Parkway from the survey area.

Photo Map 1-6

Reference Photo Map Indices for broader location.
This area is outside of the survey area but within the relevant reach of AR 1

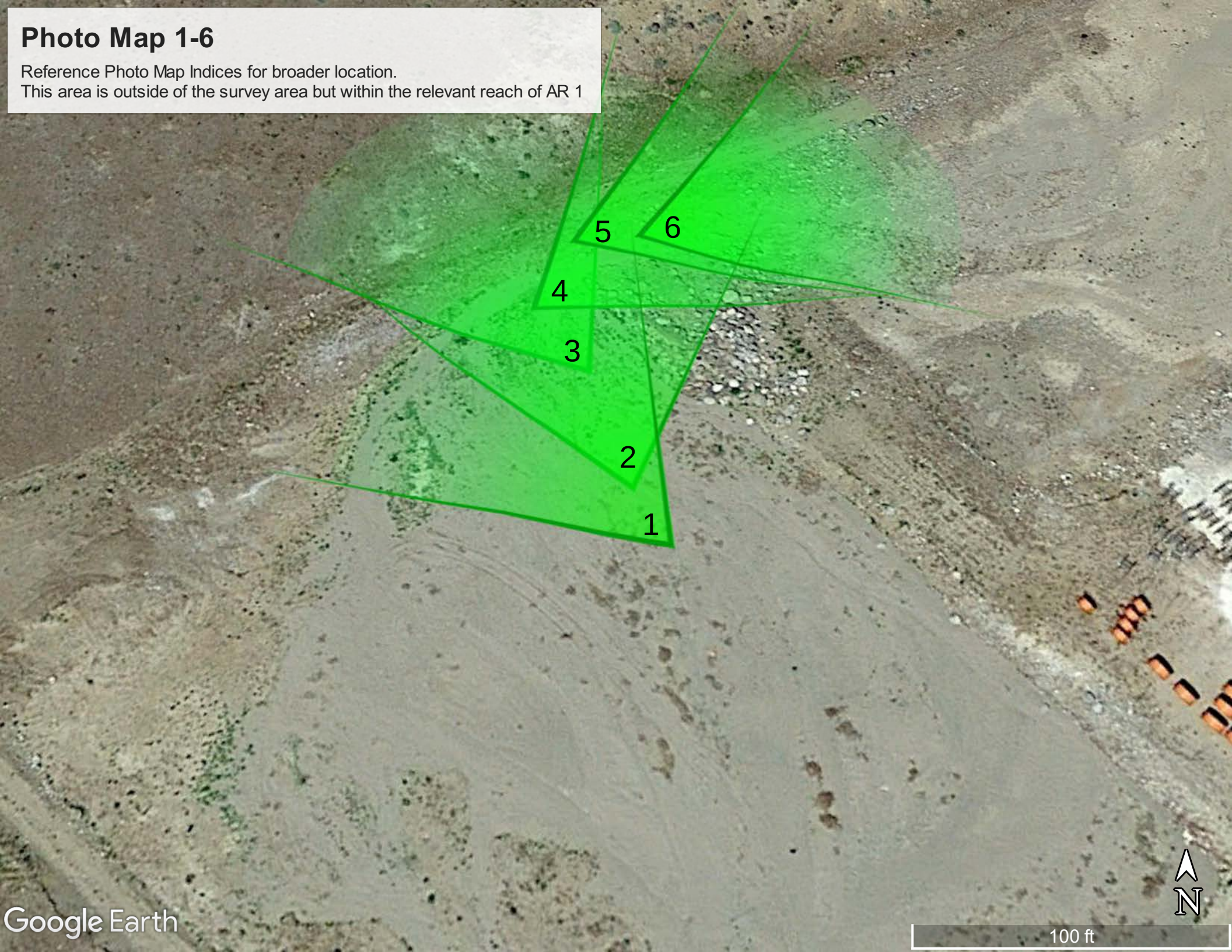


Photo Map 1-6 Site Photos- Area outside of survey boundary but within relevant reach

Photo 1. AR 1 looking downstream through detention basin.

Photo 2. AR 1 looking downstream through detention basin.

Photo 3. AR 1 looking downstream through detention basin.

Photo 4. AR 1 looking downstream through detention basin approaching first of a series of 4 rock check dams.

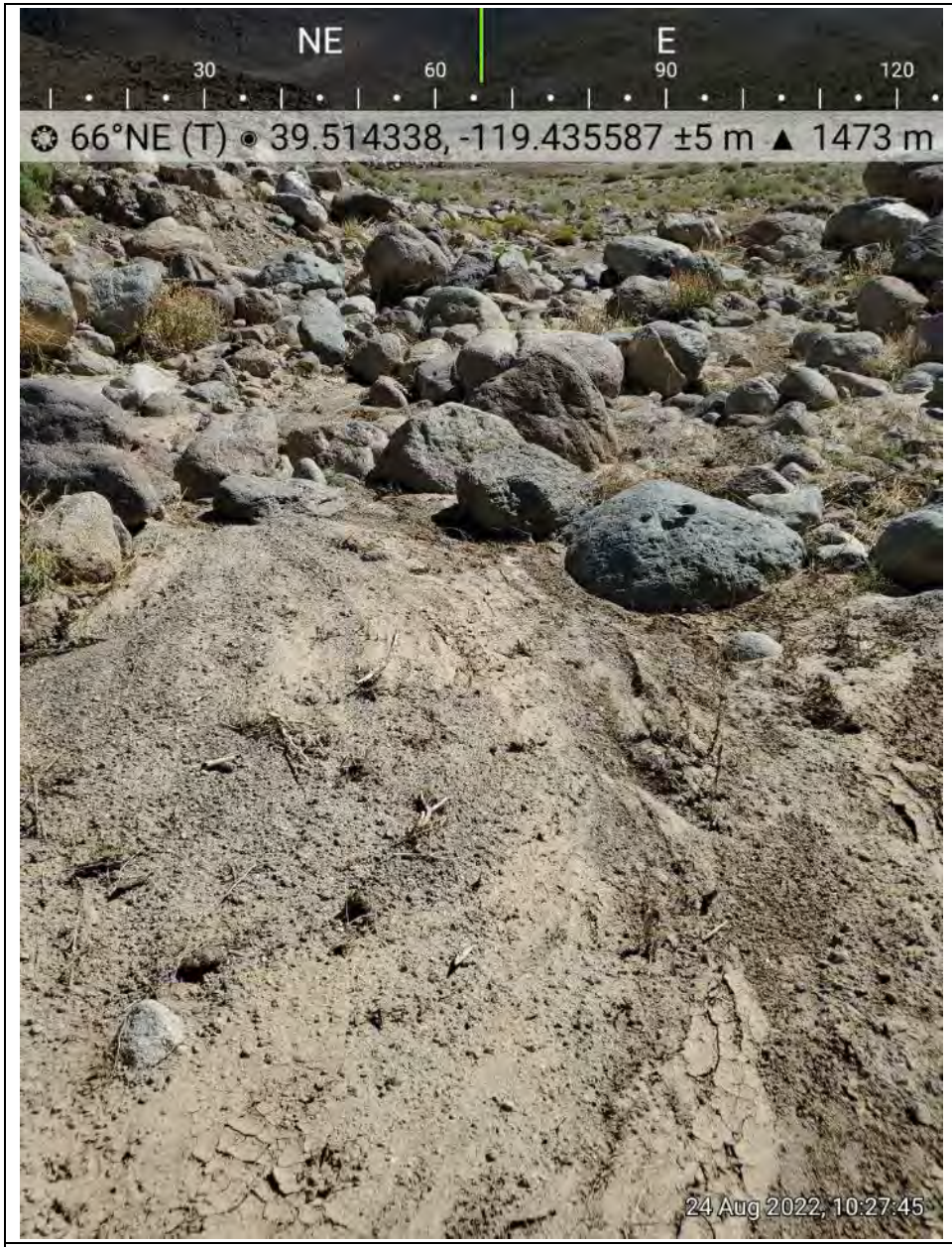


Photo 5. AR 1 looking downstream through detention basin approaching first of a series of 4 rock check dams.

Photo 4. AR 1 looking downstream through detention basin entering the first of a series of 4 rock check dams.

Photo Map 1-7

Reference Photo Map Indices for broader location.
This area is outside of the survey area but within the relevant reach of AR 1
The last picture in this map shows the confluence that ends the relevant reach

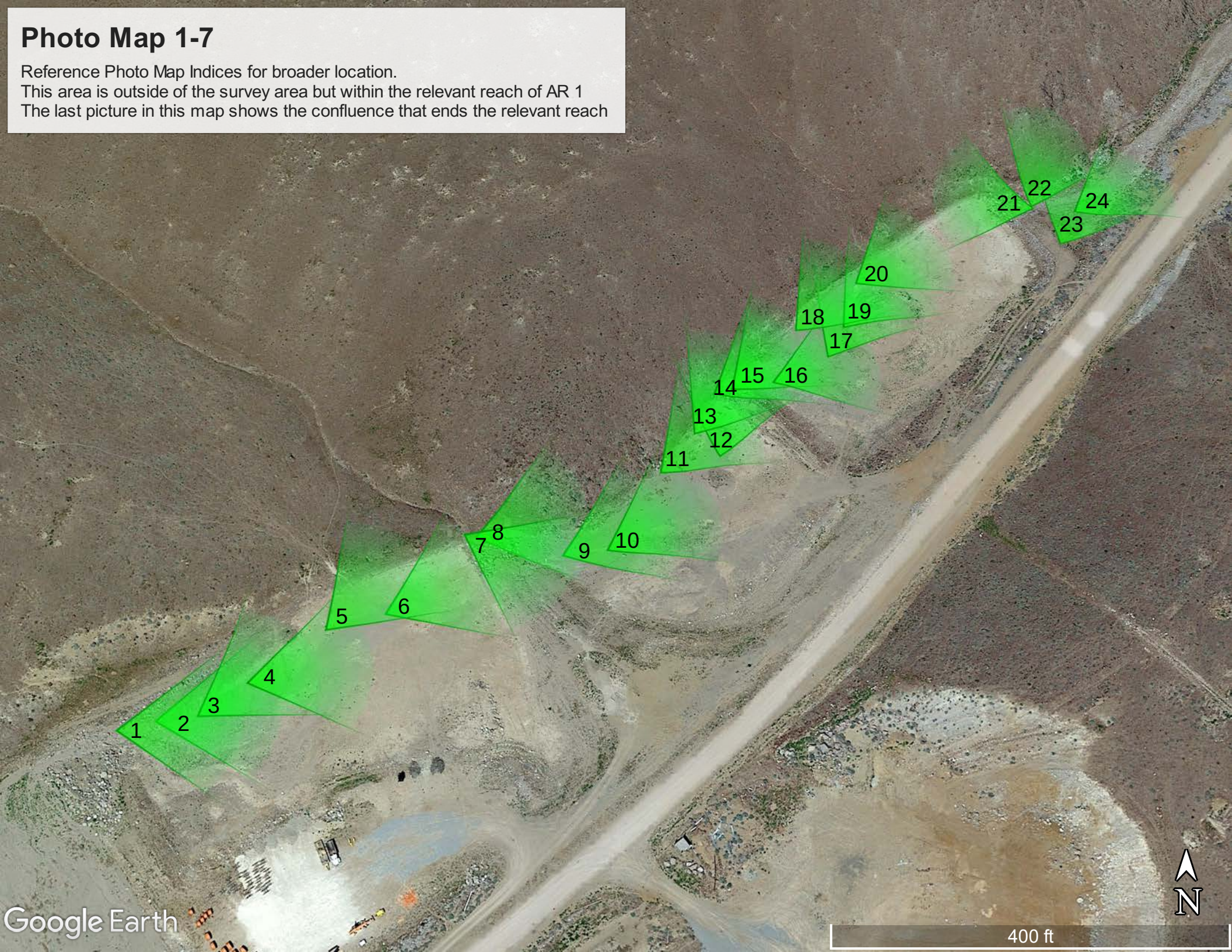


Photo Map 1-7 Site Photos- Area outside of survey boundary but within relevant reach

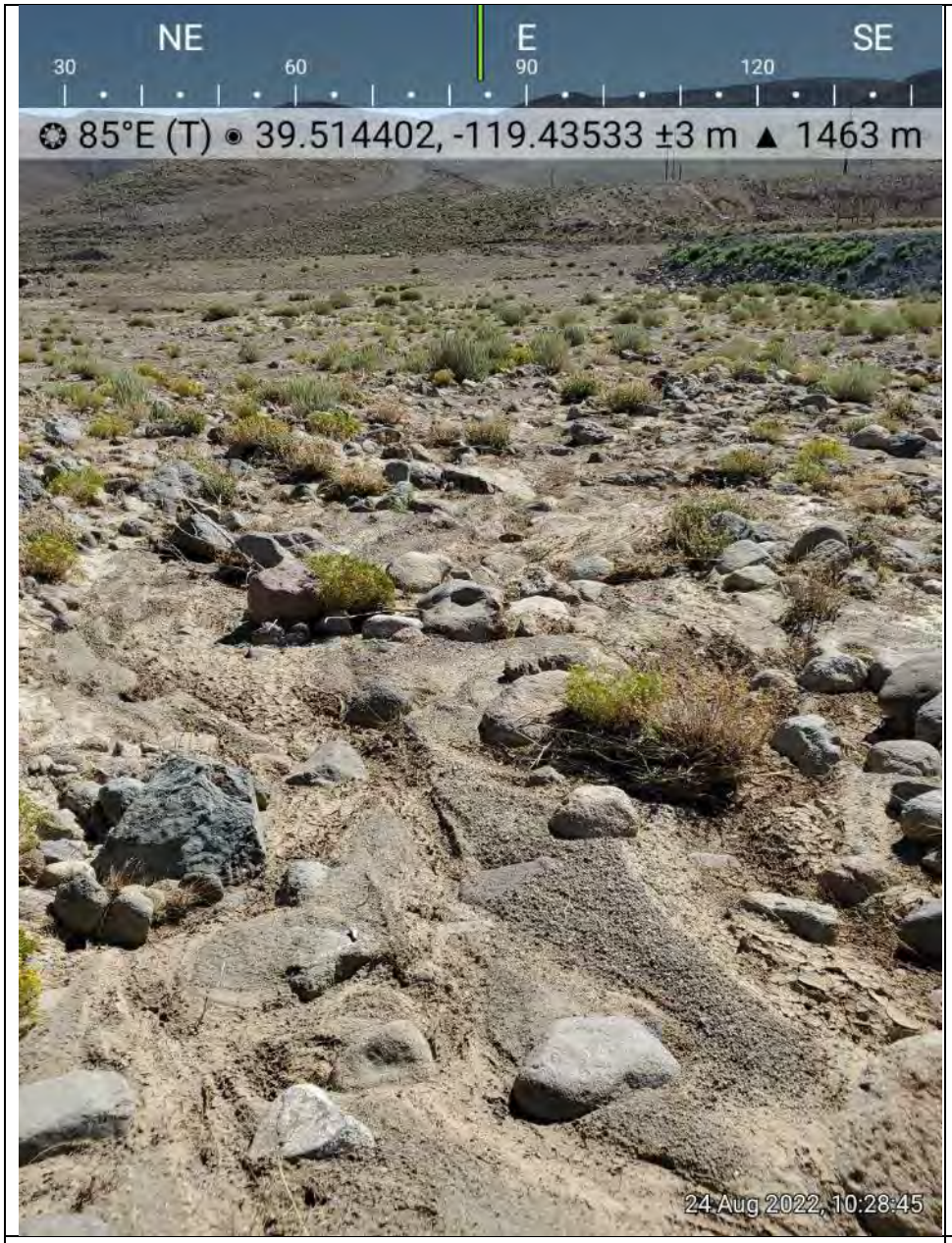


Photo 1. AR 1 out of rock check dam #1 and into next retention basin.

Photo 2. AR 1 out of rock check dam #1 and into next retention basin.

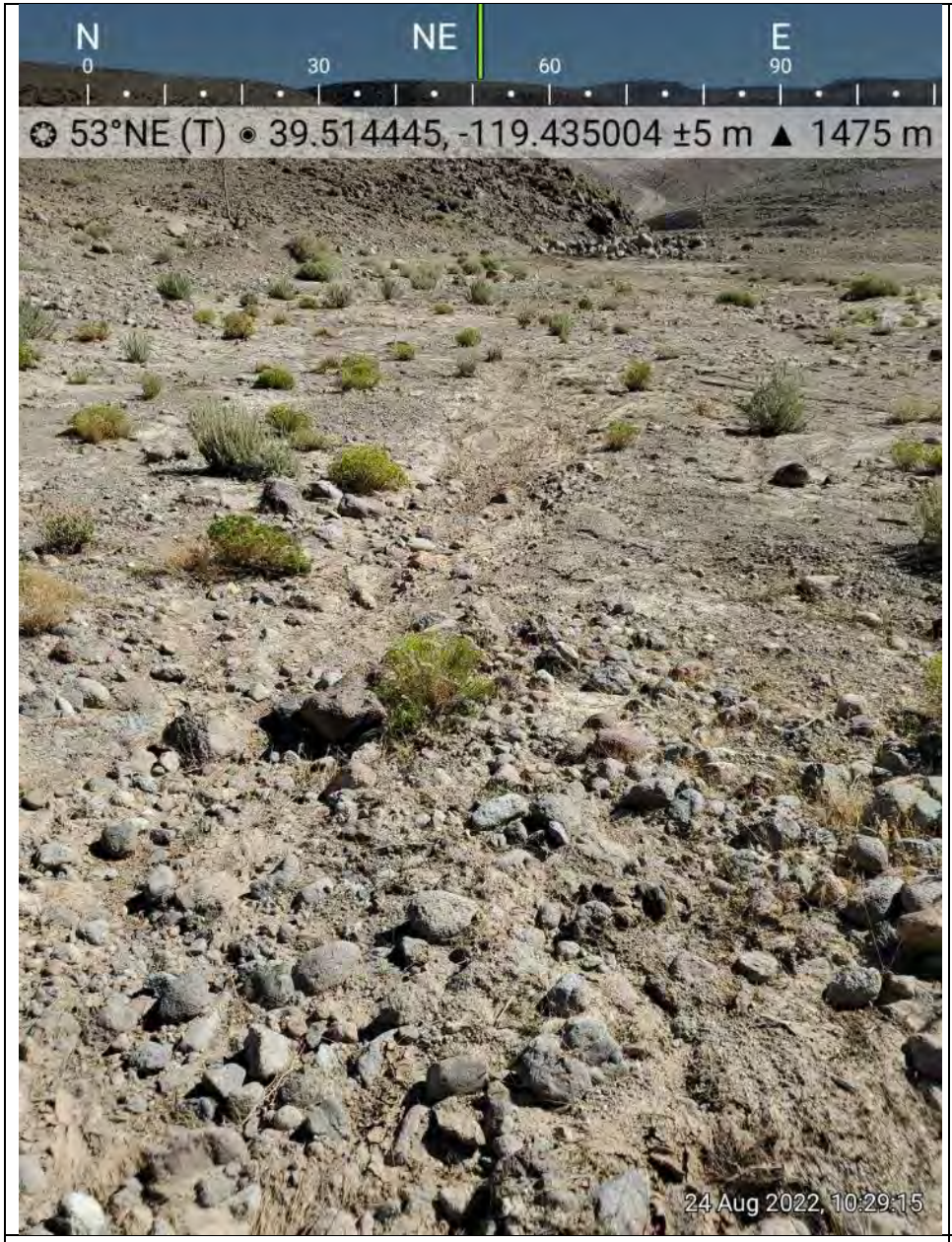


Photo 3. AR 1 through retention basin and towards rock check dam #2.

Photo 4. AR 1 through retention basin and towards rock check dam #2.

Photo 5. AR 1 through retention basin and towards rock check dam #2.

Photo 6. AR 1 through retention basin and towards rock check dam #2. Mud cracks indicative of recent evaporation following August precipitation.

Photo 7. AR 1 at rock check dam #2.

Photo 8. Top and downstream side of rock check dam #2 into retention basin.

Photo 9. AR 1 out of rock check dam #2 and into next retention basin.

Photo 10. AR 1 out of rock check dam #2 and into next retention basin.

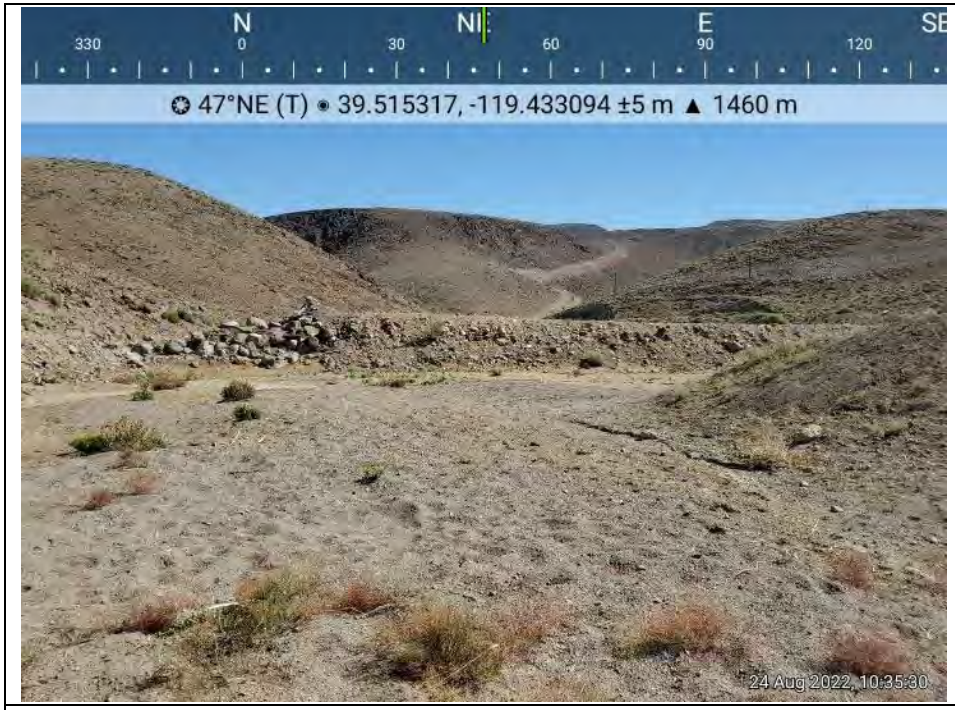


Photo 11. AR 1 through retention basin and towards rock check dam #3.	Photo 12. AR 1 through retention basin and towards rock check dam #3.

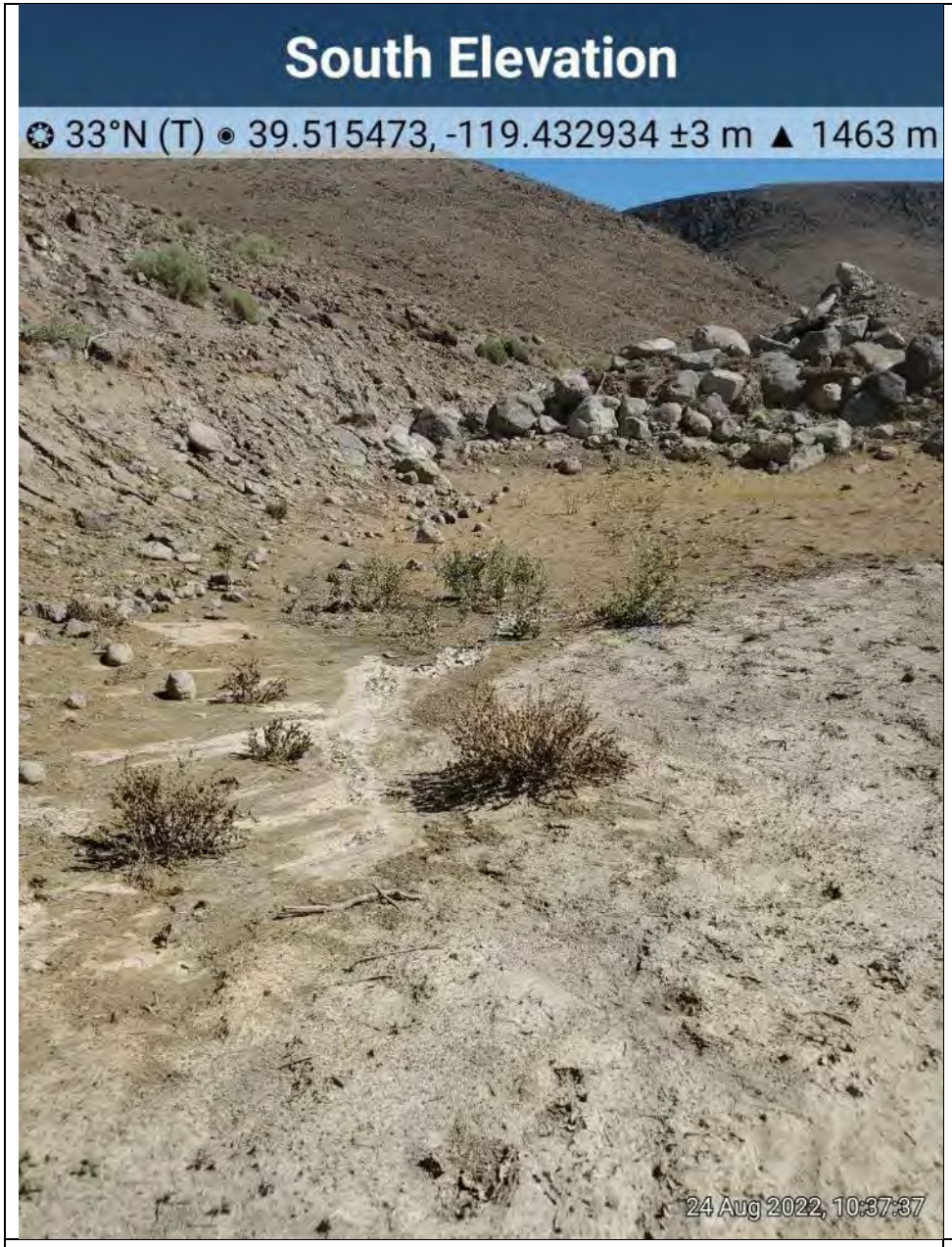


Photo 13. AR 1 through approaching rock check dam #3.

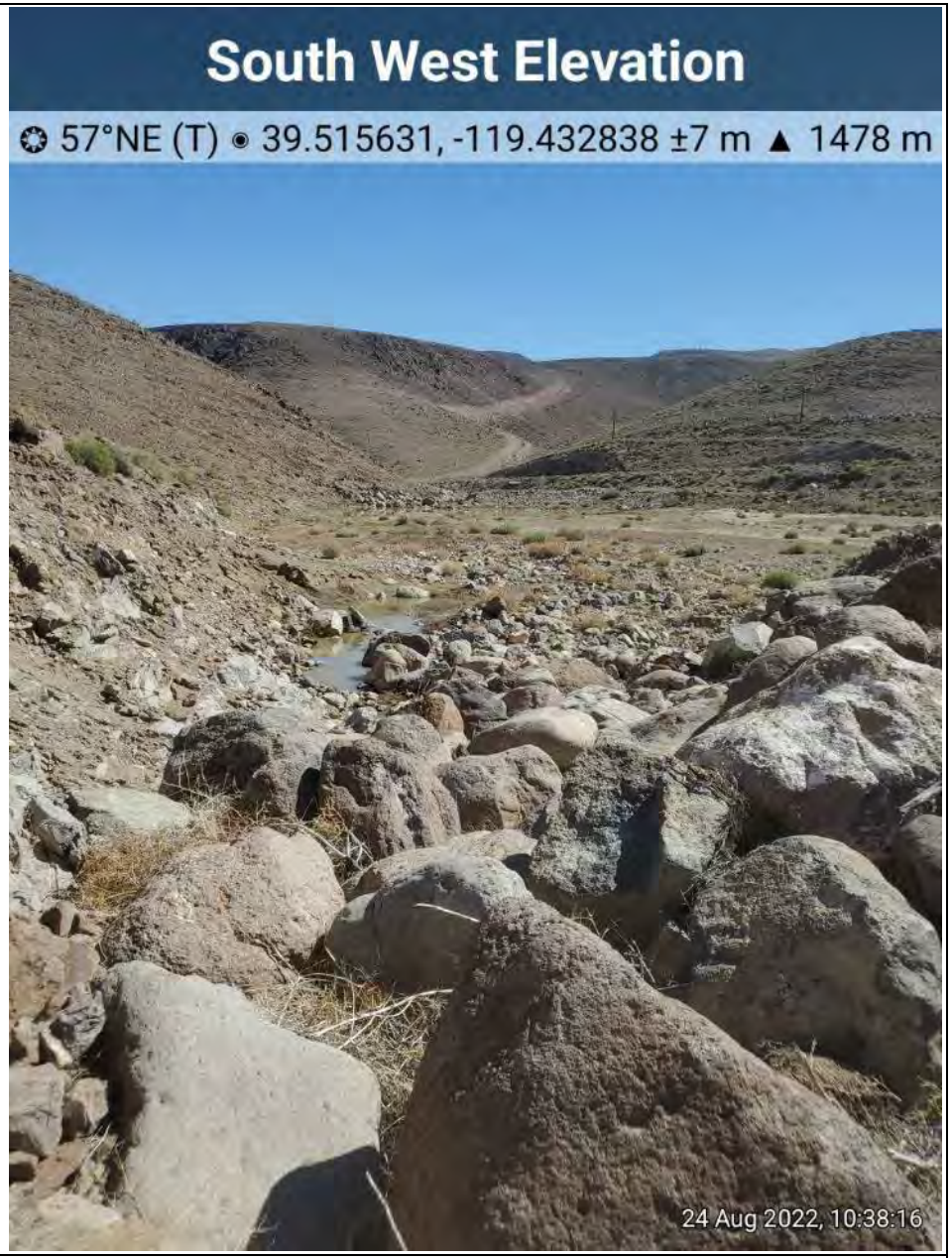


Photo 14. Top and downstream side of rock check dam #3 looking into next retention basin.

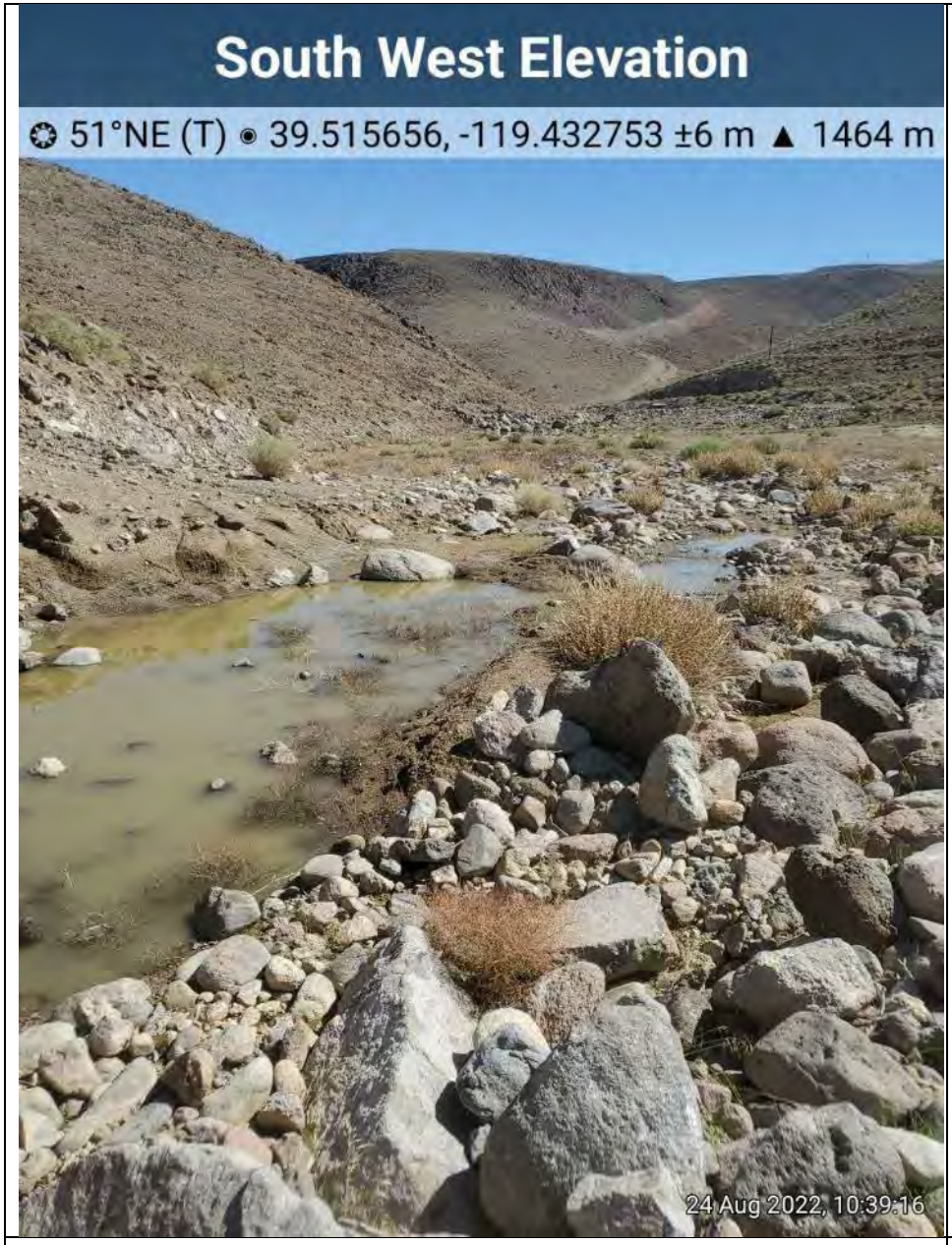


Photo 15. AR 1 out of rock check dam #3 and into next retention basin.

Photo 16. AR 1 out of rock check dam #3 and into next retention basin.

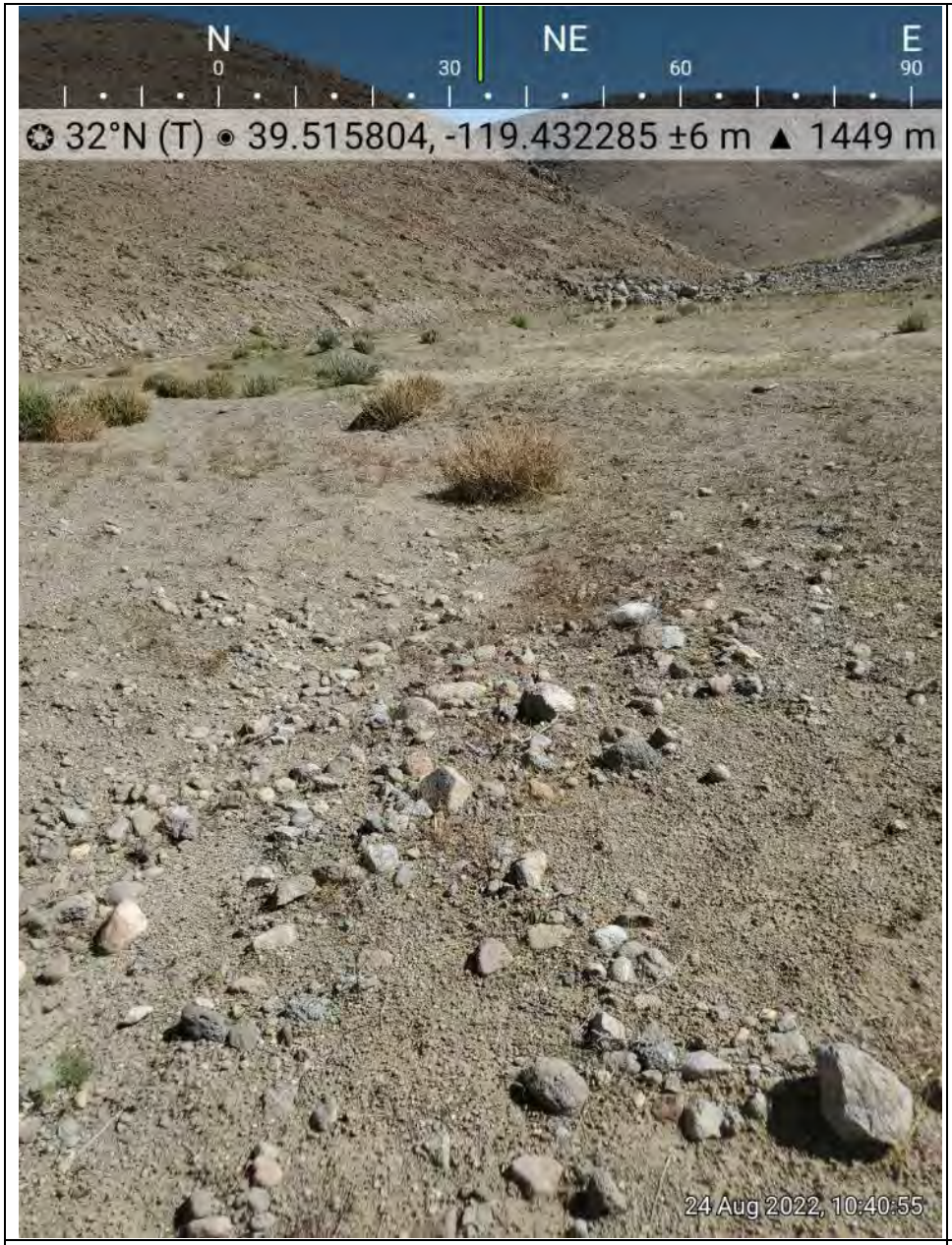


Photo 17. AR 1 through retention basin towards rock check dam #4.

Photo 18. AR 1 through retention basin towards rock check dam #4.

Photo 19. AR 1 through retention basin towards rock check dam #4.

Photo 20. AR 1 through retention basin towards rock check dam #4.

Photo 21. Looking upstream at AR 1 from top of rock check dam #4.

Photo 22. Looking downstream at back of rock check dam #4.

Photo 23. Looking downstream at AR 1 from top of rock check dam #4.

Photo 24. Looking downstream at AR 1, culvert coming in is the end of the relevant reach for the accompanying report.

Photo Map 1-8

Reference Photo Map Indices for broader location.
This area is outside of the survey area and outside the relevant reach.
Included to document flow path/condition to the Truckee River

Photo Map 1-8 Site Photos- Area outside of survey boundary and outside of relevant reach

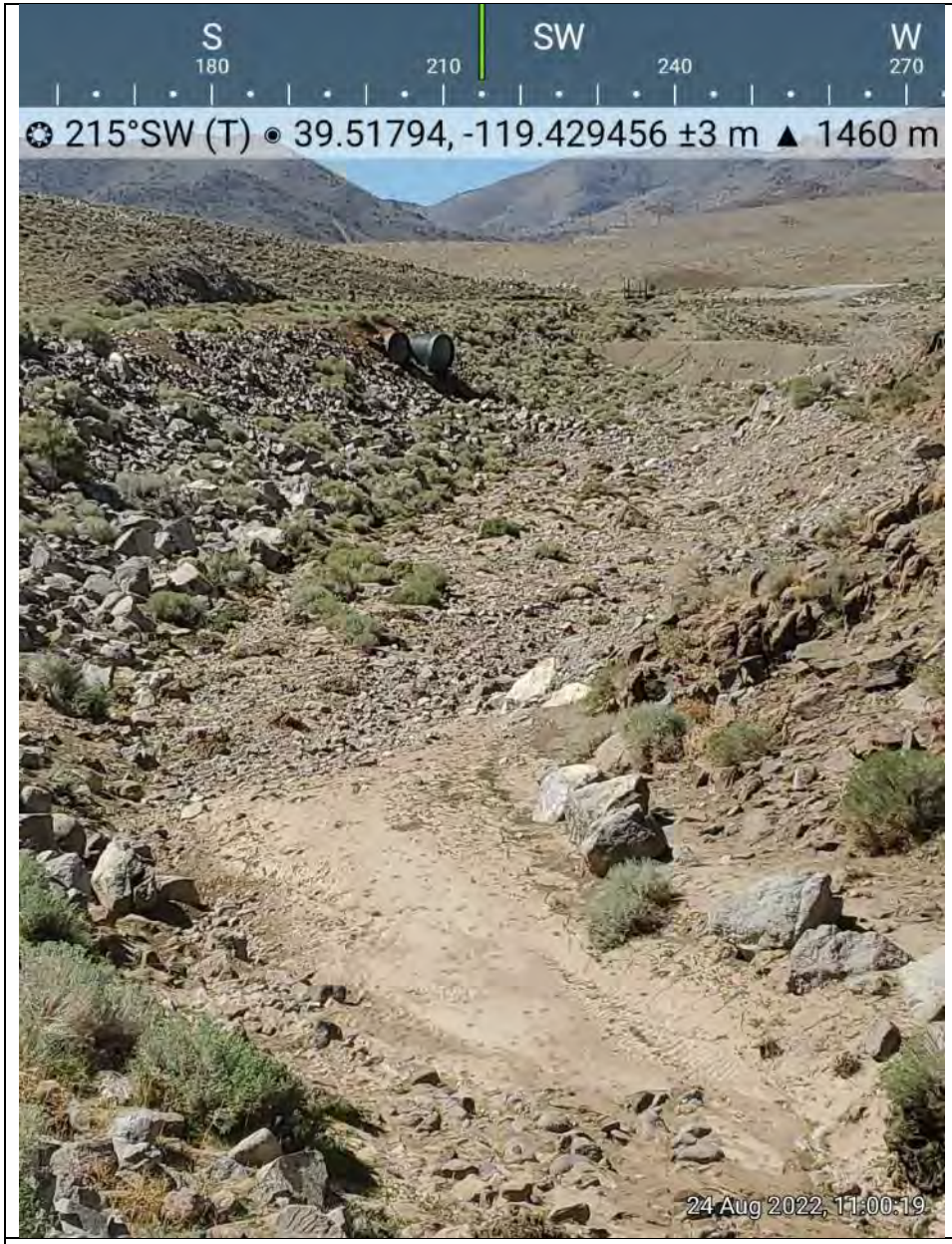


Photo 1. Looking upstream of AR 1, towards the end of the relevant reach at the inflow of the culverts in the picture.

Photo 2. AR 1 at the confluence of the next set of culverts beyond the relevant reach.

Photo 3. Looking at AR 1, downstream of confluence with second set of culverts.

Photo 4. Looking upstream at AR 1.

Photo 5. Looking downstream at AR 1.

Photo 6. Looking downstream at AR 1.

Photo 7. Looking upstream at AR 1.

Photo 8. Looking downstream at AR 1.

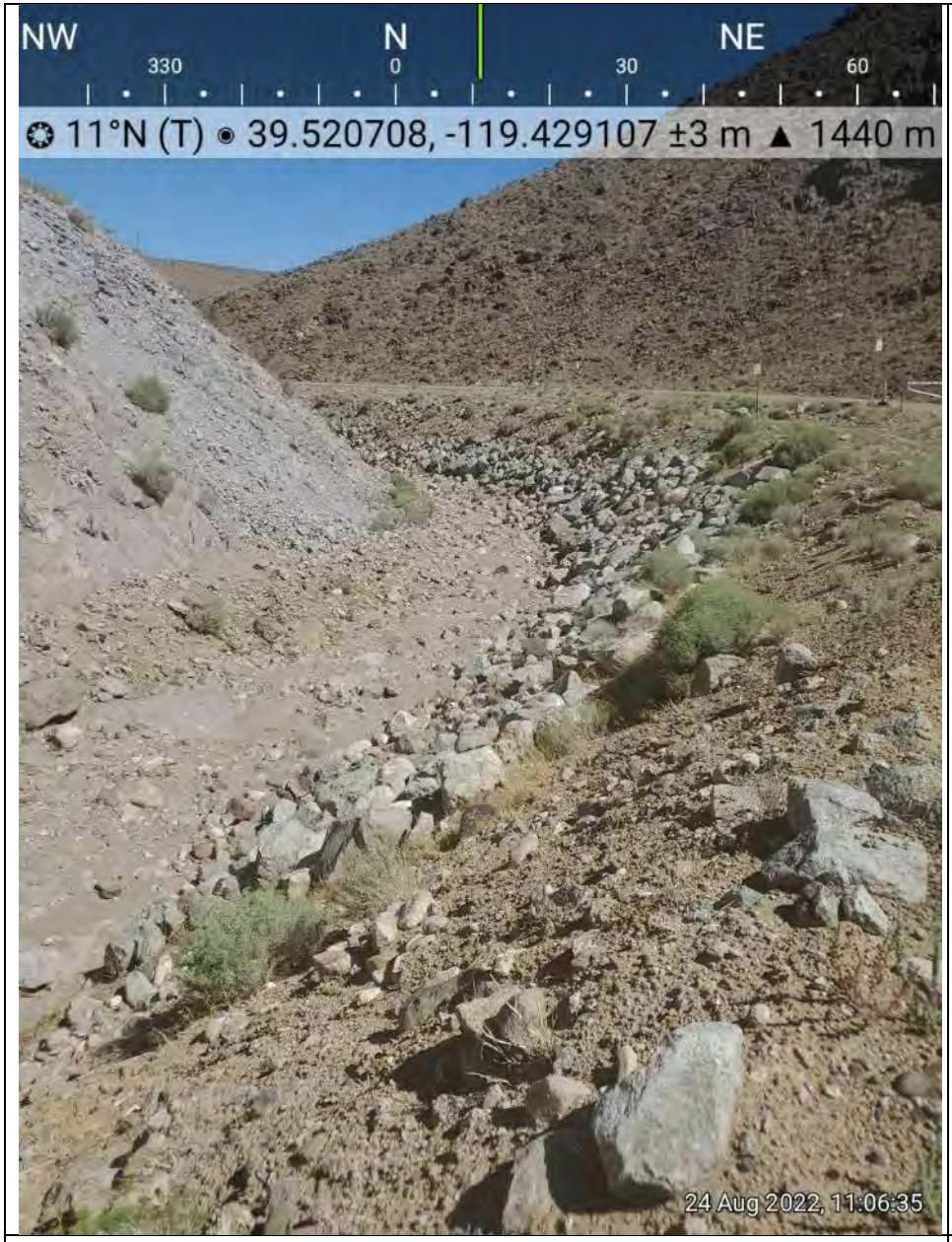


Photo 9. Looking downstream at AR 1.

Photo 10. Looking downstream at AR 1. Signs in the background of photo are No Trespassing signs.

Photo 11. No public access from this direction.

---End---

Photo Map 2-9

Reference Photo Map Indices for broader location.
This area is outside of the survey area and outside the relevant reach.
Included to document flow path/condition to the Truckee River

Photo Map 2-9 Site Photos- Area outside of survey boundary and outside of relevant reach

Photo 1. Looking upstream at AR 1 from a publicly available roadway. Has passed through at least 2 stormwater treatment basins at this point based on aerial photos.

Photo 2. Looking at downstream outlet of culverts passing under public roadway.

Photo 3. Looking downstream at AR 1 after passing through culverts.

---End---

Photo Map 2-10

Reference Photo Map Indices for broader location.
This area is outside of the survey area and outside the relevant reach.
Included to document flow path/condition to the Truckee River

Photo Map 2-10 Site Photos- Area outside of survey boundary and outside of relevant reach

Photo 1. Looking upstream at AR 1 from public roadway. Evidence of impounded water that has evaporated, but there was no evidence of flow through the culverts to the other side of Electric Avenue.

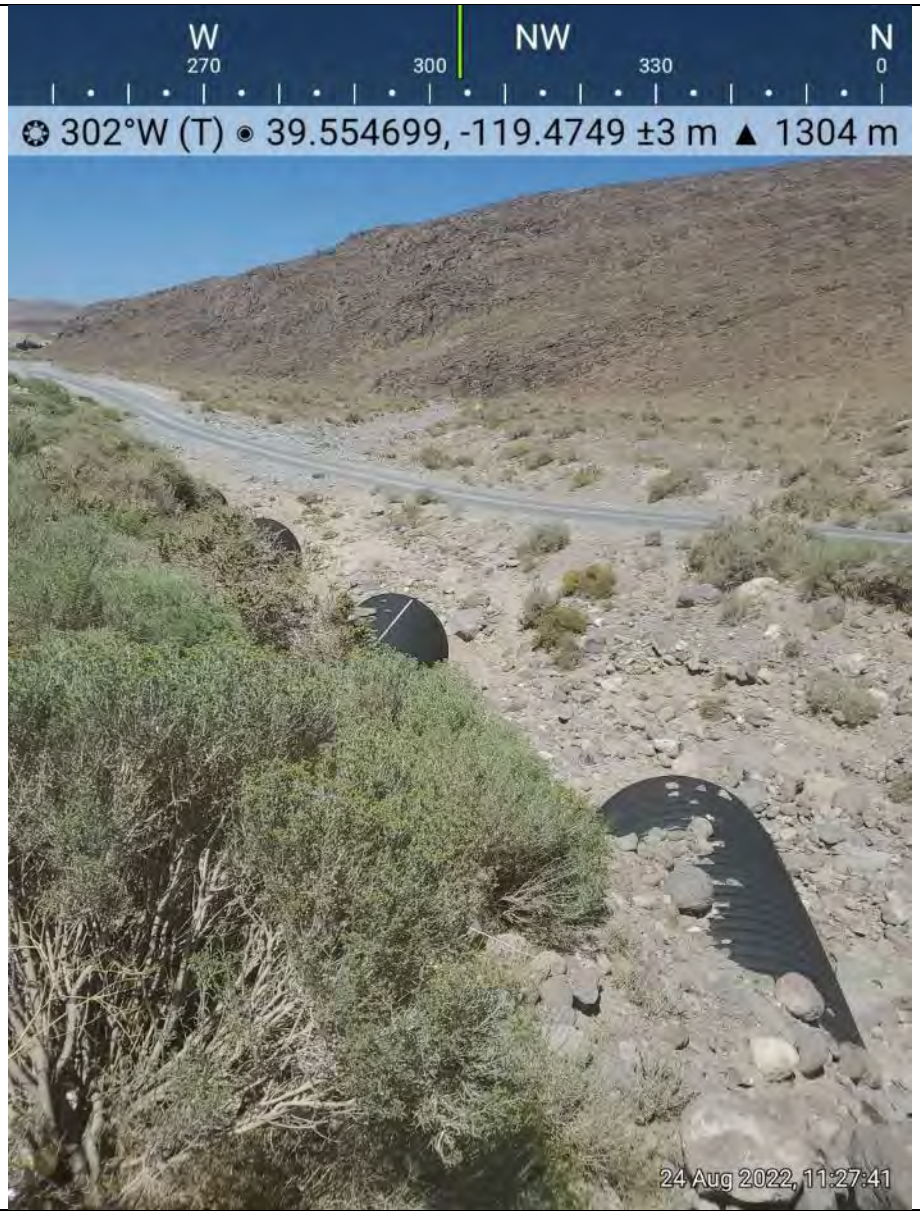


Photo. 2. Looking downstream at AR 1 after culverts pass under Electric Avenue. Roadway constructed through AR 1 is privately owned and inaccessible. No evidence of flow across that roadway.

Photo Map 2-11

Reference Photo Map Indices for broader location.
This area is outside of the survey area and outside the relevant reach.
Included to document flow path/condition to the Truckee River

Photo Map 2-11 Site Photos- Area outside of survey boundary and outside of relevant reach

Photo 1. Looking upstream at AR 1 from Clark Station Road, a publicly accessible roadway.

Photo 2. Looking downstream at AR 1 from Clark Station Road, a publicly accessible roadway.

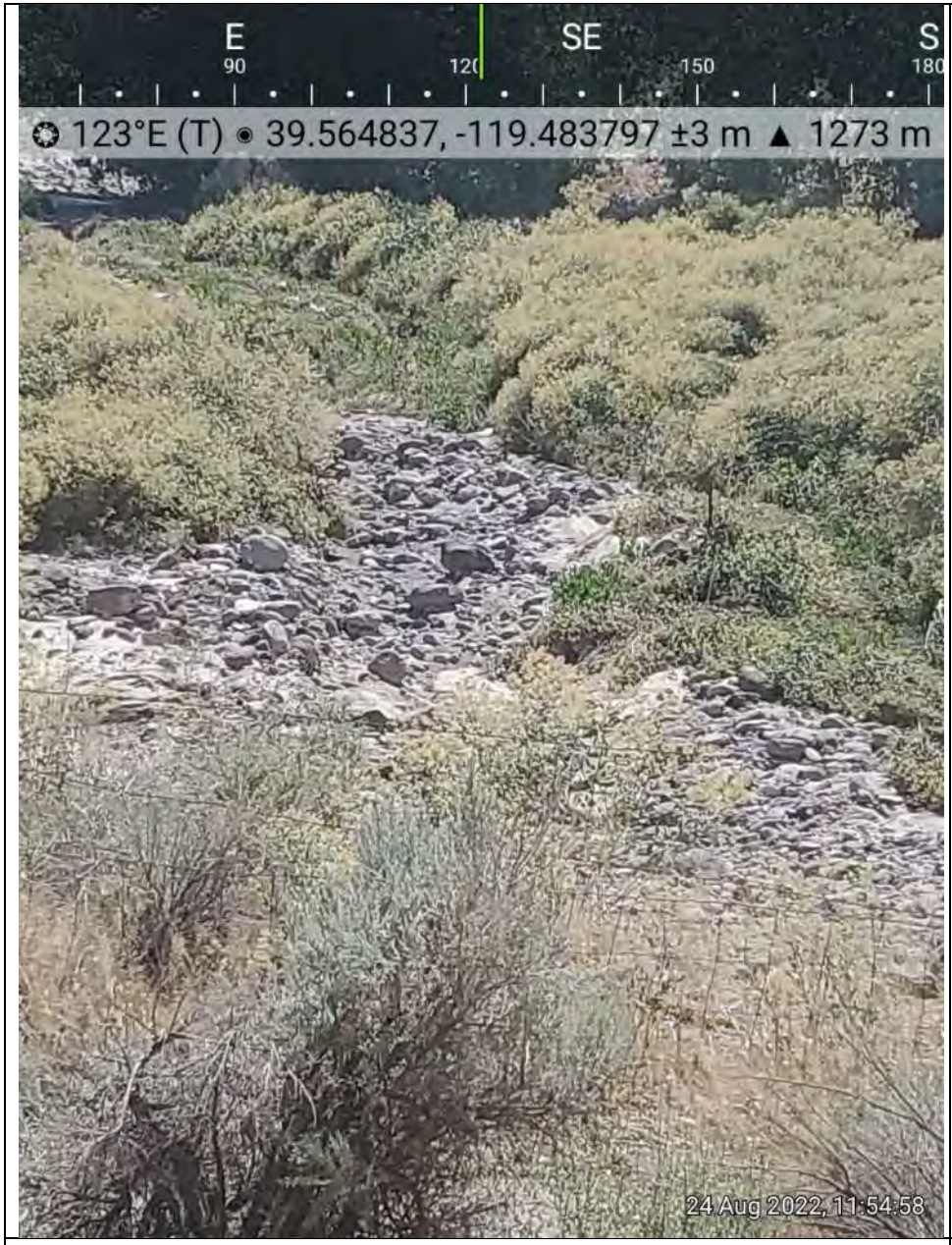


Photo 3. Looking upstream at AR 1 from a publicly accessible, abandoned roadway.

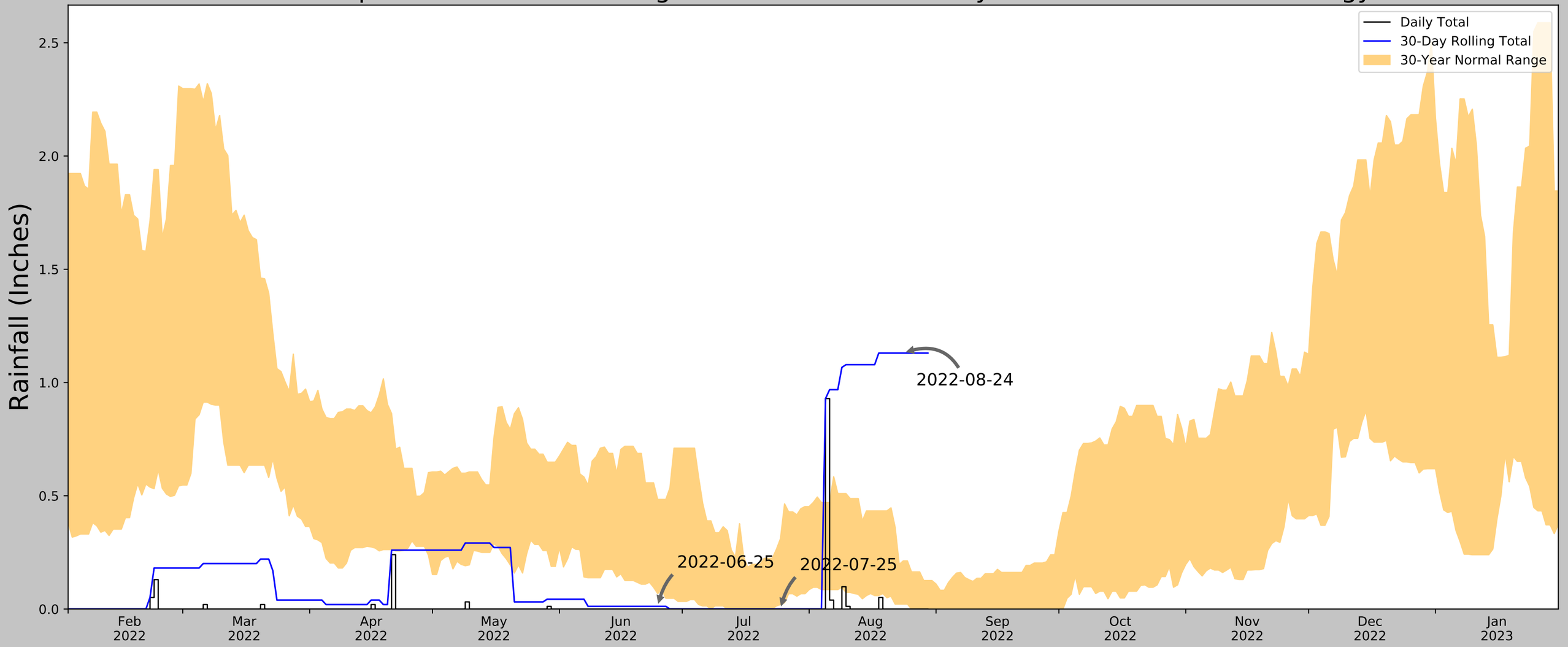
Photo 4. Looking upstream at AR 1 from a publicly accessible, abandoned roadway as AR 1 crosses under the roadway.

Photo 5. Looking downstream at AR 1 from a publicly accessible, abandoned roadway as AR 1 crosses under the roadway and goes to the Truckee River. Confluence with Truckee River is dry, but due to vegetation and private property signs was not visually accessible for photograph.

---End---

APPENDIX D. ANTECEDENT PRECIPITATION TOOL RESULTS

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	39.496091, -119.445293
Observation Date	2022-08-24
Elevation (ft)	5118.4
Drought Index (PDSI)	Severe drought (2022-07)
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30^{th} %ile (in)	70^{th} %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2022-08-24	0.022047	0.212598	1.129921	Wet	3	3	9
2022-07-25	0.019685	0.31063	0.0	Dry	1	2	2
2022-06-25	0.068504	0.483858	0.011811	Dry	1	1	1
Result							Normal Conditions - 12

Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
STEAD	39.6253, -119.8836	5101.05	24.996	17.35	11.682	10654	85
RENO 5.3 N	39.6155, -119.8317	5101.05	2.844	0.0	1.28	103	3
RENO 7.1 N	39.6418, -119.8299	4997.047	3.076	104.003	1.704	217	0
RENO 7.1 N	39.6418, -119.8309	4970.145	3.027	130.905	1.758	4	0
RENO 4.0 N	39.5963, -119.8086	5201.116	4.467	100.066	2.457	44	0
RENO 9.1 N	39.6699, -119.8155	4942.914	4.756	158.136	2.892	1	0
RENO 3.9 W	39.542, -119.8958	5150.919	5.792	49.869	2.895	9	1
RENO WFO	39.5683, -119.7956	4986.877	6.121	114.173	3.453	271	0
RENO 1.4 NNE	39.5573, -119.8144	4901.903	5.971	199.147	3.876	0	1
SPARKS	39.5558, -119.7333	4356.956	9.333	744.094	11.144	49	0
RENO TAHOE INTL AP	39.4839, -119.7711	4410.105	11.462	690.945	13.078	1	0

APPENDIX E. OHWM DATA SHEETS

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: Redwood Materials
Project Number:
Stream: Unnamed trib. to Truckee River (AE1)
Investigator(s): J. Thomason

Date: 8/24/22 **Time:** 9AM
Town: **State:** NV
Photo begin file#: Map1-1, Photo#1 **Photo end file#:** Map1-1, Photo#

Y ☒ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☒ Is the site significantly disturbed?

Location Details:
Above active construction

Projection: **Datum:** NAD 88
Coordinates: 39.490866°, -119.452036°

Potential anthropogenic influences on the channel system:
There is an old dirt road adjacent to the feature that goes to the mine located upstream of the project site and also branches off to wrap around the hill side towards the upland swale.

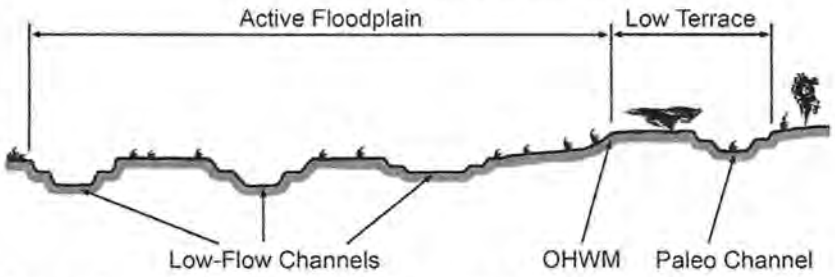
Brief site description: The channel appears undisturbed through this reach. The flow path and limit of OHWM is stained with a lighter colored sediment that flows into survey boundary from upstream as far as can be seen.

Checklist of resources (if available):

- ☒ Aerial photography
  Dates:
- ☒ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☒ Soils maps
- ☐ Rainfall/precipitation maps
- ☐ Existing delineation(s) for site
- ☒ Global positioning system (GPS)
- ☒ Other studies

- ☐ Stream gage data
  Gage number:
  Period of record:
  - ☐ History of recent effective discharges
  - ☐ Results of flood frequency analysis
  - ☐ Most recent shift-adjusted rating
  - ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units

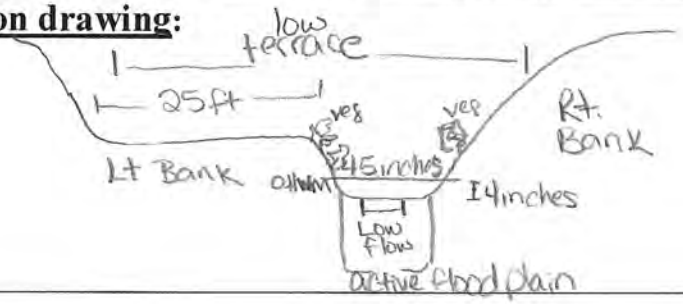


Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
   c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☐ Mapping on aerial photograph
   - ☒ GPS
   - ☐ Digitized on computer
   - ☐ Other:

Project ID: **Cross section ID:** AR1 **Date:** 8/24/22 **Time:** 9AM

Cross section drawing:



Looking downstream

OHWM

GPS point: 39.4908606°, -119.4520360°

Indicators:

- [x] Change in average sediment texture
- [ ] Change in vegetation species
- [x] Change in vegetation cover
- [x] Break in bank slope
- [ ] Other: _____
- [ ] Other: _____

Comments:

Staining of lighter colored sediment defines OHWM flow Line through the reach, staining persistent from upstream area through reach to disturbed area

Floodplain unit: [x] Low-Flow Channel [ ] Active Floodplain [ ] Low Terrace

GPS point: 39.4908606°, -119.4520360°

Characteristics of the floodplain unit:

Average sediment texture: Silt / Sand

Total veg cover: 0 % Tree: ____% Shrub: ____% Herb: ____%

Community successional stage:

- [x] NA
- [ ] Early (herbaceous & seedlings)
- [ ] Mid (herbaceous, shrubs, saplings)
- [ ] Late (herbaceous, shrubs, mature trees)

Indicators:

- [x] Mudcracks
- [ ] Ripples
- [ ] Drift and/or debris
- [x] Presence of bed and bank
- [ ] Benches
- [ ] Soil development
- [ ] Surface relief
- [x] Other: Staining on bank
- [x] Other: Sediment Sorting
- [ ] Other: _____

Comments:

Project ID: **Cross section ID:** AR 1 **Date:** 8/24/22 **Time:** 9 AM

Floodplain unit: ☐ Low-Flow Channel ☒ Active Floodplain ☐ Low Terrace

GPS point: 39.490816°, -119.452036°

Characteristics of the floodplain unit:

Average sediment texture: Sand gravel

Total veg cover: 20 % Tree: ____ % Shrub: 20 % Herb: 10 %

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☒ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☒ Drift and/or debris
- ☒ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Drift line of gravel deposit within active flood plain

Floodplain unit: ☐ Low-Flow Channel ☐ Active Floodplain ☒ Low Terrace

GPS point: 39.490893°, -119.452070°

Characteristics of the floodplain unit:

Average sediment texture: Cobble/boulder

Total veg cover: 40 % Tree: 5 % Shrub: 30 % Herb: 5 %

Community successional stage:

- ☐ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☒ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☐ Ripples
- ☐ Drift and/or debris
- ☐ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☒ Other: None
- ☐ Other: _____
- ☐ Other: _____

Comments:

No OHWM indicators observed

APPENDIX F. SIGNED STATEMENT FROM PROPERTY OWNER ALLOWING ACCESS

NewFields

Memorandum

To: U.S. Army Corps of Engineers

From: Jennifer Thomason
Project Manager/Senior Environmental Scientist, NewFields

Date: September 2, 2022

Subject: Redwood Materials Site Access Permission

Introduction

The purpose of this memo is to meet the USACE Sacramento District minimum standard to provide a signed statement from the property owner(s) allowing Corps personnel to enter the property and to collect samples during normal business hours.

Access

Site access restrictions are that the USACE provide 48-hours notice prior to conducting any site visit to the survey area and be accompanied by a site representative determined to be appropriate by Redwood Materials.

Signed Alina Zagaytova

Name Alina Zagaytova

Title General Counsel

Date 9/15/2022

APPENDIX G. PLANT LIST

Genus	Species	Common Name	WIS*
Artemisia	tridentata	Big Sagebrush	FACU
Ericameria	nauseasa	Rubber Rabbitbrush	UPL
Juniperus	osteosperma	Utah Juniper	UPL
Bromus	tectorum	Cheatgrass	UPL

*Wetland Indicator Status (WIS):

Obligate (OBL)= occurs in aquatic resources >99% of time

Facultative Wet (FACW) = occurs in aquatic resources 67-99% of time

Facultative (FAC) = occurs in aquatic resources 34-66% of time

Facultative Upland (FACU) = occurs in aquatic resources 1-33% of time

Upland (UPL) = occurs in uplands > 99% of time

Unknown (NI) = indicator status not known in this region

~ = unsure as to FAC or FACU

APPENDIX H. AQUATIC RESOURCE EXCEL SHEET

This must be transmitted to the USACE and will be included with final deliverable.

APPENDIX E
LAND USE AND SPECIAL MANAGEMENT AREA INFORMATION

Land Use and Special Management Areas

The Project area is privately-owned and lays on parcels APN 005-01-112 and APN 005-01-201 (Storey, 2009). Parcel 005-01-112 is owned by the Basin and Range Opportunity Fund LLC from a grant bargain sale deed dated 03-12-2021. Parcel APN 005-012-01 is owned by Comstock Tahoe-Reno Industrial Center Associates LLC. Adjacent properties are owned by TRIC Acquisition LLC, Storey County Treasurer, Mass Land Acquisition LLC, Basin and Range Opportunity Fund LLC, Silver Slate LLC, Sierra Pacific Power Company, Comstock TRIC Associates LLC, and TRI Owners Association (Storey, 2022). The nearest public lands are administered by the BLM and are located approximately 0.6 mile southwest of the Project area. There are no lands administered by the state, county, or city in the vicinity of the Project area (Figure 2-1).

TRIC is within a portion of the former Asamera Ranch, which is a 107,000-acre tract of private land owned by TRI Center, LLC. The TRIC area comprises approximately 63 percent of the land area within Storey County. Encompassing approximately 264 square miles, Storey County is the smallest county in Nevada by land area and is sparsely populated. According to the United States Census Bureau, on July 1, 2021 Storey County had an estimated population of 4,143 people. Its small population is primarily centered in the Virginia City area, 16 miles southwest of the Project area. This area is not connected to TRIC by paved roads. TRIC is within the unincorporated portion of the county and is intended to be a mixed-use, nonresidential development. It consists of a wide range of industrial, office, and commercial businesses. Since the TRIC property was purchased for development in 1998, a bridge over the Truckee River, a diamond interchange on I-80, ten miles of four-lane freeway, and 100 miles of roads throughout the park have been built. The self-sufficient center has its own fiber-optic cable service, water, and high-pressure natural gas pipeline.

The nearest residence is in Lockwood, which is approximately 10 miles from the Project area. TRIC has the capacity of 100-million-square-feet of industrial space. Companies already at TRIC include Tesla, Blockchains, Switch, Google, a Wal-Mart distribution center, Panasonic Energy of North America, Fulcrum Sierra Biofuels, Chewy.com, and Battery Systems Inc. There are five generating power plants which produce a peak generating capacity of approximately 900 megawatts of power during summer peak. NV Energy, a regulated public utility service, will be the provider of electrical power from main transmission lines at the north end of the Project area (TRIC, 2022). Currently, a Google facility is the closest developed property that is direct neighbor southeast of the Project area.

Development of TRIC is guided by a development agreement between the master developers and Storey County that incorporates the Development Handbook (TRI Owners Association 2000) and the Storey County Zoning Ordinance (adopted July 1, 1999). The entire TRIC property is zoned “I-2 Heavy Industrial Zone” under the Story County Zoning Ordinance Codes §§17.37.050 to 17.37.080 and allows almost all types of industrial and commercial uses (Storey 2017). The terms of the development agreement and the Storey County Zoning Ordinance allow maximum flexibility for land uses, but provide for a consistent, compatible development theme among the various land use possibilities in the area.

There are no special management areas in the direct vicinity of the Project area. The Steamboat Hot Springs Geyser Basin Area of Critical Environment Concern, located on public lands administered by the BLM, is the closet special management area, approximately 18 miles southwest of the Project.

No effects to landownership, land use, or special management areas would be anticipated as a result of the proposed Project. The area would remain in private ownership and the land use associated with the proposed Project would be consistent with the “I-2 Heavy Industrial” Zone as defined by Storey County for TRIC. There are no special management areas in close proximity to the site, and therefore no effects would occur to these lands.

Without Redwood Materials, the area would remain in private ownership and the land use would continue to be consistent with the "I-2 Heavy Industrial" zone. Since the proposed Project area is in an industrial park, it is likely that an industrial use would ultimately be considered for the site.

APPENDIX F
REDWOOD MATERIALS' SUMMARY OF ENVIRONMENTAL COMPLIANCE MEASURES

Redwood Materials' Summary of Environmental Compliance Measures

Fugitive Dust (Air Quality) Mitigation Measures:
Guidance: Per NAC 445B.22037, a Class II Surface Area Disturbance (SAD) Permit, including a Dust Control Plan, is required, from the Nevada Department of Environmental Protection (NDEP), as part of the Redwood Materials Project to remain compliant with surface disturbance and control particulate matter from becoming airborne.

Action: During construction, fugitive dust emissions will be minimized by the application of water from a water truck and limiting vehicle speeds in disturbed areas. These measures will be implemented for the site-specific conditions of the Project to minimize fugitive dust emissions during these activities.

Migratory Bird Mitigation Measures:
Guidance: All native migratory birds of the United States are protected under the Migratory Bird Treaty Act of 1918 (MBTA), as amended (16 U.S.C. 703-712 et. seq.). The MBTA requires the mitigation of impacts to migratory bird species within the United States. Actions resulting in take of migratory birds or eggs are violations of the MBTA. Disturbance of migratory birds, active nests, eggs, or nestlings during the breeding season may therefore violate the MBTA. As a result, migratory bird nest clearance surveys are necessary prior to any activity involving vegetation removal during the breeding season. The migratory bird breeding season for the Redwood Materials Project, is roughly defined as April 1 through August 31.

Action: If construction or ground disturbing activities occurs during the breeding season, Redwood Materials will implement reasonable efforts to avoid, minimize, or mitigate adverse effects. They will follow Nevada Department of Wildlife (NDOW) recommendations and conduct a preconstruction nest clearance survey within 10 days prior to vegetation removal. If active nests are found, they should be avoided until young have fledged or the nest is no longer occupied.

Archaeological Resources Mitigation Measures:
Guidance: The Redwood Materials Project is required to be in compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (NHPA; 54 USC 300101 et seq.). Section 106 requires Federal agencies to take into account the effects of their actions on historic properties/cultural resources.

Action: Pursuant to 36 CFR 800.13(b), in the event unanticipated cultural resources are discovered during Project construction, reasonable efforts will be made to avoid, minimize, or mitigate adverse effects to discoveries. Discoveries must be reported to the State Historic Preservation Office (SHPO) within 48 hours of the discovery. The notification shall describe the assessment of National Register eligibility of the property and proposed actions to resolve adverse effects. The SHPO is required to respond within 48 hours.

Monarch Butterfly Mitigation Measures:
Guidance: The Monarch butterfly is a candidate species, which do not receive protections under the Endangered Species Act (ESA), as amended, pursuant to Section 4 of the ESA. Nonetheless, the U.S. Fish and Wildlife Service (USFWS) encourages cooperative conservation efforts due to their status.

Action: The Project area does not have milkweed, which is the Monarch Butterfly's host plant; however if milkweed or Monarch butterflies are observed at any life stage in the Project area, it will be reported through the iNaturalist smartphone app or the Monarch Milkweed mapper (https://www.monarchmilkweedmapper.org/).