Aquatic Resources Inventory Report for the Priority I Interstate-40 Subreach Sites, NMISC's Angostura/Albuquerque Reach Habitat Restoration Project in Bernalillo County, New Mexico

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PREPARED FOR

New Mexico Interstate Stream Commission

PREPARED BY

SWCA Environmental Consultants

AQUATIC RESOURCES INVENTORY REPORT FOR THE PRIORITY I INTERSTATE-40 SUBREACH SITES, NMISC'S ANGOSTURA/ALBUQUERQUE REACH HABITAT RESTORATION PROJECT IN BERNALILLO COUNTY, NEW MEXICO

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EXECUTIVE SUMMARY

SWCA Environmental Consultants (SWCA) completed an inventory of aquatic resources, including a routine assessment of potentially jurisdictional surface aquatic features, on behalf of the New Mexico Interstate Stream Commission for the Priority I Interstate-40 subreach sites of the Middle Rio Grande (MRG) Angostura/Albuquerque Reach Habitat Restoration Project (MRG project) in Bernalillo County, New Mexico. The MRG project is a riparian and floodplain habitat restoration effort intended to benefit the Rio Grande silvery minnow (*Hybognathus amarus*) and other federally listed species that occur along the MRG, including the Angostura/Albuquerque reach between the Angostura and Isleta diversion dams.

This Aquatic Resources Inventory Report has been prepared specifically for the 21 Priority I restoration sites (Priority I project), which have been prioritized from a subset of the larger habitat restoration MRG project sites. The overall MRG project consists of 80 separate habitat restoration areas that, when combined, cover a maximum of 370 acres and span 19.6 miles on the east and west banks of and on islands within the channel of the Angostura/Albuquerque reach of the MRG, in Bernalillo County, New Mexico. Priority I project restoration sites were selected as the first sites to move forward in permitting and implementation. The remaining sites would be permitted and constructed at later dates, in order of priority. The scope of the Priority I project, with associated access roads and spoil piles, is located within the Interstate-40 subreach from River Miles 181.0 to 186.6. Estimates of surface disturbance are based on the final project design plan and would result in 58.5 acres of restoration work, including 33 spoil piles over 25.6 acres, 0.22 acre of staging area, and 4.13 miles of new or widened roads and trails and low-flow temporary access. Restoration techniques involving earthwork and grading activities include construction of backwater channels and bankline modifications at 10 sites, island destabilization at two sites, confluence maintenance and vegetation removal at seven sites, and removal of jetty jack lines at two sites.

At the time of this report's preparation, SWCA evaluated the inventory of aquatic resources to develop a professional opinion of potential waters of the United States (WOTUS) jurisdiction based on the "Revised Definition of 'Waters of the United States'" rule as amended (2023 Amended Rule) (*Federal Register* 88:61964) and current guidance received by the U.S. Army Corps of Engineers (USACE) Albuquerque District. The USACE has regulatory authority and discretion in determining the jurisdictional status of aquatic resources at a given site. Various federal, state, local, and Tribal agencies regulate different aspects of aquatic resources, including streams, wetlands, stormwater discharges, and floodplains in New Mexico.

The aquatic resources inventory performed for the Priority I project consisted of a desktop review of existing data and a field survey of proposed Priority I project restoration sites. SWCA conducted a desktop review of existing publicly available data prior to the aquatic resources field survey to evaluate surface water and groundwater resources within and adjacent to the survey area. The aquatic resources field survey was conducted in September and October 2023, to inventory both three-parameter wetlands and non-wetland waters.

SWCA identified 16 potentially jurisdictional surface aquatic features within the Priority I project survey area, including 13 three-parameter wetland features and three non-wetland water features, one of which is the Rio Grande.

The results and recommendations provided within are based on SWCA's professional opinion. Only the USACE has final and legal authority for determining the presence of jurisdictional WOTUS and the extent of their boundaries. SWCA recommends avoiding and/or minimizing impacts to potentially jurisdictional WOTUS features to the greatest extent possible. If avoidance is not possible, SWCA recommends minimizing disturbance with clear project design plans and mitigation measures and pursuing the potential Clean Water Act Section 404 and Section 401 permit pathways most appropriate for the Priority I project.

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1 INTRODUCTION

SWCA Environmental Consultants (SWCA) completed an inventory of aquatic resources, including a routine assessment of potentially jurisdictional surface aquatic features, on behalf of the New Mexico Interstate Stream Commission (NMISC) for the Priority I Interstate-40 subreach sites of the Middle Rio Grande (MRG) Angostura/Albuquerque (ABQ) Reach Habitat Restoration Project (MRG project) in Bernalillo County, New Mexico (see Figure A-1 in Appendix A). The MRG project is a riparian and floodplain habitat restoration effort intended to benefit the Rio Grande silvery minnow (*Hybognathus amarus*; RGSM) and other federally listed species that occur along the MRG, including the section of the Rio Grande between the Angostura and Isleta diversion dams (referred to herein as ABQ Reach). These activities would be a contribution to the commitments made under the U.S. Fish and Wildlife's (USFWS's) 2016 biological opinion (USFWS, 2016) and through the MRG Endangered Species Act Collaborative Program, wherein both governmental and non-governmental entities work cooperatively to address issues related to the Endangered Species Act in the MRG.

The MRG project in its entirety consists of 80 separate habitat restoration areas that, when combined, cover a maximum of 370 acres and span 19.6 miles on the east and west banks of and on islands within the channel of the MRG in the ABQ Reach, in Bernalillo County, New Mexico. The MRG project restoration sites would be constructed by order of priority based on several criteria, some of which include 1) benefits to RGSM, 2) project area access for efficient mobilization and demobilization, 3) results from desktop modeling of sediment accumulation and inundation, 4) greatest potential for spawning and nursery, 5) increased primary food production (algae, diatoms) for larval RGSM, 6) greatest potential for recruitment of native riparian vegetation, 7) increased benefits for public and recreational use, and 8) seasonal timing and availability of funding.

The initial site selection process identified 21 restoration sites with associated access roads and spoil piles, located within the Interstate-40 subreach from River Miles 181.0 to 186.6, collectively referred to as the Priority I Interstate-40 subreach sites (Priority I project area), which represents the footprint of the proposed project activities. The broader area surveyed and delineated for aquatic resources is referred to as the Priority I survey area.

Estimates of the project's surface disturbance and impacts are based on the final project design plan and would result in 58.5 acres of total restoration activities, including 33 spoil piles over 25.6 acres, 0.22 acre of staging area, and 4.13 miles of new or widened roads, trails and low-flow temporary access routes. The project is expected to include 54,050.8 cubic yards of excavation and 24.4 cubic yards of wood fill added (LWD) within 38.94 acres of jurisdictional WOTUS, including 36.36 acres of three-parameter wetlands, 2.55 acres of the Rio Grande OHWM, and 0.04 acre of an adjacent tributary (ST01). The project would also include construction of approximately 320.4 total linear feet of new access roads to be constructed within 5,244.8 square feet of jurisdictional WOTUS.

Restoration techniques involving earthwork and grading activities include construction of backwater channels and bankline modifications at 10 sites, island destabilization at two sites, confluence maintenance and vegetation removal at seven sites, and removal of jetty jack lines at two sites. Specifically, the goals of the Priority I project are to

- create and improve habitat for federally listed species within the ABQ Reach by implementing various habitat restoration activities;
- conduct adaptive management and maintenance restoration activities near or within existing habitat restoration sites given the changed river and riparian conditions since original construction was completed between 2006 and 2009; and

- improve water conveyance and habitat conditions within the river channel by reducing channel narrowing and armoring of islands, bank-attached bars, and bank lines that potentially have increased net depletions, reduced safe channel capacity, and reduced aquatic species habitat.

While the exact dates of project implementation will depend on compliance and planning timelines, the project is anticipated to begin preparatory work in September 2026, with excavation work occurring during low-flow periods starting in October 2026 through April 15, 2027.

1.1 Purpose

This Aquatic Resources Inventory Report (ARIR) includes watershed-level information for Priority I project planning considerations by detailing the dynamics of environmental and regulatory management within a hydrologically defined geographic area (watershed or basin) while also documenting ground and surface aquatic resources. The ARIR also summarizes aquatic resources desktop and field data, as well as potential Clean Water Act (CWA) Section 401, 402, and/or 404 and Floodplain Management (Executive Order 11988) permitting considerations to support Priority I project development.

2 REGULATORY CONSIDERATIONS

Section 2.1 discusses the current regulatory environment for waters of the United States (WOTUS). Section 2.2 documents the relevant statutes and regulations for aquatic resources in New Mexico.

2.1 Current Regulatory Environment for Waters of the United States

In New Mexico, the U.S. Army Corps of Engineers (USACE) Albuquerque District is currently the lead agency for making WOTUS jurisdiction determinations. WOTUS jurisdiction refers to whether the federal government has authority to regulate surface water resources (wetlands or non-wetland waters) under the CWA, including CWA Section 404 (dredge and fill) permitting. Determining jurisdiction requires characterization and delineation of surface water features including rivers, streams, reservoirs, tributaries, and wetlands adjacent to those water bodies. Federal permitting actions to WOTUS also require a CWA Section 401 Water Quality Certification from the appropriate certifying authority. In New Mexico, the certifying authorities are the New Mexico Environment Department (NMED) Surface Water Quality Bureau (SWQB), the U.S. Environmental Protection Agency (EPA), or authorized Tribes, depending on the delegation status of CWA programs and land ownership.

On September 8, 2023, the "Revised Definition of 'Waters of the United States'" rule as amended (2023 Amended Rule) (*Federal Register* 88:61964) went into effect and is currently applicable in the state of New Mexico. In general, WOTUS include traditional navigable waters, wetlands adjacent to traditional navigable waters, and relatively permanent waters defined as tributaries and wetlands adjacent to navigable waters that have a continuous surface connection and standing or continuously flowing bodies of water (EPA 2025a).

Wetlands are special aquatic sites defined by the USACE as "areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (USACE 1987:9). To meet the basic definition of a wetland, an area must contain the following three parameters under normal circumstances: 1) the presence of wetland hydrology indicators

showing regular inundation, 2) a dominance of hydrophytic (water-loving) vegetation, and 3) soil characteristics and indicators of frequent saturation (i.e., hydric soils) (USACE 1987).

A USACE Department of the Army (DA) permit pursuant to CWA Section 404 is required for the discharge of dredged or fill material into WOTUS, unless an exemption applies. Depending on the scope and level of potential impacts, the discharge of dredged or fill material into WOTUS would require either a general permit or an individual permit prior to the initiation of proposed activities with the potential to impact WOTUS.

SWCA evaluated the inventory of aquatic resources to develop a professional opinion of potential WOTUS jurisdiction based on the 2023 Amended Rule and current guidance received by the USACE Albuquerque District at the time this ARIR was prepared. The USACE has regulatory authority and discretion in determining the jurisdictional status of aquatic resources at a given site.

2.2 Statutes and Regulations

Various federal, state, local, and Tribal agencies regulate different aspects of aquatic resources, including WOTUS, stormwater discharges, and floodplains in New Mexico. Table 1 provides a list of relevant permits, regulations, and approvals, at the time of this report's preparation, that could be required for the aquatic resources.

Table 1. Permits, Regulations, and Approvals Relevant to Aquatic Resources

Permit/Regulation/Approval	Issuing Agency	Description
Federal Permit, Approval, or Clearance		
Section 10 of the Rivers and Harbors Act of 1899	USACE	Section 10 of the Rivers and Harbors Act of 1899 requires approval from the USACE prior to any work in or over navigable WOTUS or that affects the course, location, condition, or capacity of such waters. Typical activities resulting in a Section 10 permit include construction of piers, docks, intake/outfall structures, and cable or pipeline crossing, dredging, and/or excavation. Section 10 rivers in New Mexico include portions of the Rio Grande, from Val Verde County near the city of Del Rio upstream of the point of intersection of the Texas–New Mexico state line and Mexico, as well as the Navajo Reservoir. Section 10 permitting is completed on a case-by-case basis with the USACE. The Priority I project does not propose impacts to the portion of the Rio Grande that is considered a Section 10 river, or any other Section 10 rivers; therefore, Section 10 permitting would not be required for this project.
CWA Section 404: Discharge of dredged or fill material into WOTUS	USACE	Section 404 of the CWA regulates certain dredge and fill activities in WOTUS (EPA 2025b). Certain development or construction in WOTUS requires an appropriate permit, either a nationwide permit (via a notifying permit action or preconstruction notification, or via a non-notifying permit action, which may require a permit verification letter, pending the direction of the agency), regional general permit (automatic notifying permit action via development of a preconstruction notification), or individual permit (additional permitting requirements) from the USACE. It is SWCA's professional opinion that the aquatic resources observed in the Priority I suvey area would be considered jurisdictional WOTUS based on the 2023 Amended Rule, current guidance received by the USACE Albuquerque District, and results of the field survey. Should the USACE determine that the aquatic features that may be impacted by the Priority I project are WOTUS, the project would require CWA Section 404 permitting. See additional details in Sections 4.2 and 5.1.1 of this report.

Permit/Regulation/Approval	Issuing Agency	Description
CWA Section 402 (National Pollutant Discharge Elimination System [NPDES])	EPA	Section 402 of the CWA requires operators to obtain NPDES permit coverage for stormwater runoff. This includes obtaining permit coverage for construction, industrial, and municipal stormwater discharges. In New Mexico, the NPDES permit program is administered by the EPA. The EPA has developed general permits for construction and industrial discharges from certain activities. These permits require operators to take steps to prevent stormwater runoff from washing sediment and other pollutants from their project area(s) into local surface water (EPA 2025c). Eligible construction activities that would disturb 1 acre or more of land or disturb less than 1 acre of land but that are part of a common plan of development that would disturb a total of more than 1 acre may qualify for coverage under the EPA's construction general permit (CGP). Due to the Priority I project activities and size of the project, this project would require Section 402 permitting for construction stormwater discharges.
CWA Section 408: Alterations to federally constructed projects.	USACE	Section 408 of the CWA requires permission from the USACE before altering, occupying, or using any existing USACE civil works project. The Section 408 permitting process ensures that the proposed activity would not impair the project's intended benefits, compromise public safety, or have negative environmental impacts. The Priority I project is currently under review by the USACE to identify if the project would require permitting under CWA Section 408 due to the proposed removal of jetty jacks and levee maintenance with project spoils.
CWA Section 303(d): Impaired waters and total maximum daily loads (TMDLs)	EPA, NMED SWQB	Section 303(d) of the CWA outlines the process and reporting requirements for identifying impaired waters and developing TMDLs (EPA 2025d). Under Section 303(d) of the CWA, states, territories, and authorized Tribes, collectively referred to in the CWA as "states," are required to develop a list of impaired waters. The NMED SWQB maintains the list of impaired waters in New Mexico via the *Final Draft 2024–2026 State of New Mexico Clean Water Act §303(d)/§305(b) Integrated Report* (New Mexico Integrated Report) (NMED SWQB 2024a). Impaired waters and water quality standards of receiving surface waters may be considered in the NMED SWQB's Section 401 determination or Section 402 requirements. Based on the EPA's Stormwater Discharge Mapping Tool (EPA,2025e) and the New Mexico Integrated Report, the Priority I surveyt area has the potential to discharge to an impaired water, the Rio Grande, with no established TMDLs (NMED SWQB 2024a). Therefore, compliance with the NMED's water quality standards would be required for activities within and discharging to the Rio Grande.
Endangered Species Act	USFWS	Compliance is required for any CWA permitting action, including Sections 402 and 404.
Migratory Bird Treaty Act of 1918 (16 United States Code 703–712)	USFWS – Migratory Bird Permit Office Region 2	Compliance is required for any CWA permitting action, including Sections 402 and 404.
Section 106 of the National Historic Preservation Act	New Mexico Historic Preservation Division	Compliance is required for any CWA permitting action, including Sections 402 and 404.

Permit/Regulation/Approval	Issuing Agency	Description
State Permit, Approval, or Clearance		
CWA Section 401 Water Quality Certification	NMED SWQB, authorized Tribes, or the EPA	Section 401 of the CWA regulates water quality of WOTUS by granting authority to states and authorized Tribes to approve, deny, or waive certification of proposed federal permitting actions that may result in a discharge into WOTUS (EPA 2024f) to ensure that the federal permit complies with state or water quality regulations. In New Mexico, the NMED SWQB, Authorized Tribes, or the EPA, depending on land jurisdiction, are the certifying authorities responsible for individual, expedited, or waived/exemption of Water Quality Certification in accordance with Section 401 of the CWA (NMED SWQB 2024b). Due to the requirement for CWA Section 402 permitting for construction stormwater discharges and CWA Section 404 for dredge and fill activities in WOTUS, the Priority I project would also require Section 401 water quality certification. NMED has issued Section 401 certifications for NPDES permits, including the EPA's CGP for stormwater discharges. Water quality certification from the NMED SWQB would be required for the CWA Section 404 permit issued for the Priority I project.
Local Permit, Approval, or Clearance		
Executive Order 11988 (Floodplain Management)	Counties, local municipalities, and/or Tribal entities in New Mexico	Executive Order 11988 (Floodplain Management) intends to avoid to the extent possible long- and short-term adverse impacts associated with the occupancy and modification of floodplains and to avoid direct or indirect support of floodplain development wherever there is a practicable alternative. The Federal Emergency Management Agency (FEMA) has mapped regulatory flood zones, defined as areas inundated by the 1% (100-year; Zones A or AE) or 0.2% (500-year; Zones B, C, or X) annual chance flood, meaning the flood has a 1% or 0.2% chance of being equaled or exceeded in any given year. Any changes to FEMA flood maps are approved by FEMA. Modifications and development occurring in a floodplain require analysis under Executive Order 11988. Floodplains are regulated by the local ordinance (i.e., the county, local municipality, and/or Tribal floodplain administrators) for any impacts within floodplains prior to construction. Compliance or permitting actions, or both, are regulated by the local authorities. In total, 75% of the Priority I survey area is within a special flood hazard zone, Zone AE. Therefore, approval by the local floodplain administrator to ensure that the proposed Priority I project meets the requirements of the National Flood Insurance Program and local floodplain management ordinances per Executive Order 11988 would be required.

3 METHODOLOGY

The aquatic resources inventory consisted of a routine assessment that included a desktop review of existing data and a field survey of the Priority I survey area, as described below.

3.1 Desktop Data Review

SWCA conducted a desktop review of existing publicly available data prior to the aquatic resources field survey to evaluate surface aquatic resources and groundwater resources within and adjacent to the Priority I survey area. Identifying the presence or absence of aquatic resource features in the Priority I survey area and understanding the associated hydrologic and water quality characteristics are important for effective project planning and potential permitting considerations. A comprehensive inventory and review of these

data provide necessary information for understanding the potential connectivity of waters through the lens of a watershed-scale assessment.

3.1.1 Surface Aquatic Resources

Evaluation of the presence or absence of surface aquatic resources in the survey area is an essential component of the desktop review, as it informs project planning and considerations for the aquatic resources field survey. Several sources were reviewed to determine the potential presence or absence of surface aquatic features in the survey area, including the following:

- National Hydrography Dataset (NHD): The U.S. Geological Survey (USGS) NHD identifies surface water features such as streams, rivers, canals, ditches, ponds, lakes, and reservoirs (USGS 2016).
- National Wetlands Inventory (NWI): The USFWS NWI identifies and characterizes wetlands, including freshwater wetlands, emergent wetlands, forested/shrub wetlands, ponds, lakes, riverine wetlands, and others (USFWS 2025).
- Federal Emergency Management Agency (FEMA) Flood Maps: FEMA flood maps identify areas at risk for flooding (FEMA 2024).
- Natural Resources Conservation Service (NRCS) Soil Data: The NRCS Web Soil Survey (NRCS 2024a), including hydric soil groups (NRCS 2015), provides information on areas of potential inundation through the presence of hydric soils. Some soil properties that can be useful for identifying aquatic resources include hydric soil components, drainage classifications, and taxonomic class.
- Aerial Photographs and Imagery: Historic and current aerial photographs of the survey area are useful for landscape-scale visualization of potential surface water features under different seasonal conditions (Google Earth Pro 2025).

3.1.1.1 HYDROLOGY

Assessing the hydrology of aquatic resources at both a watershed scale and within the Priority I survey area is useful for determining the connectivity of a surface water feature, which in turn influences jurisdictional status. Furthermore, hydrologic understanding can also lend insight into preliminary project planning and site design by highlighting those areas more susceptible to flooding and inundation. Sources reviewed include the following:

- USGS Topography and Watershed Boundaries: USGS 7.5-minute quadrangles provide information regarding local and landscape-level topography. The Watershed Boundary Dataset provides hydrologic units at a national scale that represent an area of the landscape that drains to a portion of a stream network based on topographic, hydrologic, and other landscape characteristics at eight hierarchical levels (USGS 2021). Identifying the hydrologic unit at level 10 (hydrologic unit code [HUC]–10) is helpful in understanding surface water position in the landscape and connectivity to downstream waters.

3.1.1.2 CLIMATE

An understanding of the regional climate informs aquatic resource field identification and indicators. Awareness of temporal aspects of climate data can be used for project planning and scheduling by

understanding the hydrological context of flow timing and quantity. Sources reviewed include the following.

- Antecedent Precipitation Tool (APT) (Version 2.0.0): The APT uses over 20 sources to evaluate the conditions leading up to and during the site visit relative to normal conditions, seasonality, and typical-year considerations compared with the previous 30-year normal range (USACE 2024).
- EPA's Seasonally Dry Period Locator Tool: The EPA's Seasonally Dry Period Locator Tool helps determine whether a survey area is in an arid or semiarid climate and the seasonally dry months for the area (EPA 2022).
- NRCS Climate Analysis for Wetlands Tables (WETS Tables): The WETS Tables approximate growing season dates by the number of frost-free days based on long-term records gathered at National Weather Service meteorological stations (NRCS 2024b). The *Corps of Engineers Wetlands Delineation Manual* (USACE 1987) defines "growing season" as the portion of the year when soil temperature (measured 20 inches below the surface) is above biologic zero (5 degrees Celsius or 41 degrees Fahrenheit [°F]). Evaluating potential three-parameter wetlands during the growing season is recommended to ensure that wetland indicators would be present during the evaluation (USACE 2010a).

3.1.1.3 WATER QUALITY

Consideration of the water quality of surface waters in the Priority I survey area is important as it can impact permitting conditions related to Section 401 and Section 402 of the CWA. Permitting conditions for projects that propose impacts or discharges to a water body listed as impaired may require implementation of mitigations or best management practices (BMPs) to prevent further degradation of water quality. The status of waters potentially impacted by the Priority I project is best evaluated using the following resources:

- EPA's Stormwater Discharge Mapping Tool: The EPA's Stormwater Discharge Mapping Tool is a web-based tool used to identify nearby surface waters into which a project area may discharge and whether those waters have been reported to the EPA as being impaired or having a total maximum daily load (TMDL) (EPA 2025e). The Stormwater Discharge Mapping Tool uses the National Hydrography Dataset Plus, Section 303(d) listing, and TMDL information to analyze whether a site is within the catchment of an impaired water (EPA 2024).
- *Final Draft 2024–2026 State of New Mexico Clean Water Act §303(d)/§305(b) Integrated Report* (New Mexico Integrated Report): The New Mexico Integrated Report (NMED SWQB 2024a) contains the most up-to-date list of impaired water bodies in the state of New Mexico and can be used as a verification tool for EPA's Stormwater Discharge Mapping Tool.

3.1.2 Groundwater Resources

Although a detailed analysis of groundwater movement is not necessary for the purposes of this inventory, it is useful to understand any diversion or groundwater use activity within and adjacent to the Priority I survey area to assess the potential for impacts by project activities to the quality or quantity of water being used by other landowners. Groundwater resources were evaluated within a 0.5-mile radius of the Priority I survey area. The following sources were used to evaluate existing groundwater aquatic resources:

- New Mexico Office of the State Engineer (NMOSE) database for groundwater well and point of diversion (POD) information (NMOSE 2017)

The NMOSE POD layer of the database, updated monthly, includes well locations, surface declarations, and surface permits. These data are obtained from the NMOSE's Water Administration Technical Engineering Resource System database, and the data are geolocated or mapped. These data have various degrees of accuracy and have not been validated; thus, the information in this report is considered preliminary.

3.2 Aquatic Resources Field Survey

SWCA conducted an aquatic resources delineation field survey of the Priority I survey area on September 18 and 19, 2023, and October 23–27, 2023, using the methods discussed in the following subsections. Data from the WRCC was reviewed to evaluate the conditions leading up to and during the field survey relative to normal conditions, seasonality, and typical-year considerations (WRCC 2024).

3.2.1 Three-Parameter Wetlands

Wetlands are defined jointly by the USACE and the EPA (USACE 1987; *Federal Register* 88:61964) as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (USACE 1987:9). The *Corps of Engineers Wetlands Delineation Manual* includes in its technical approach for identification and delineation of wetlands that "except in certain situations defined in this manual, evidence of a minimum of one positive wetland indicator from each parameter (hydrology, soil, and vegetation) must be found in order to make a positive wetland determination" (USACE 1987:10).

The presence/absence of three-parameter wetlands (hydrology, hydric soils, and hydrophytic vegetation) was determined in the field using wetland determination methods provided in the *Corps of Engineers Wetlands Delineation Manual* (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (Regional Supplement) (USACE 2008a). Quantitative data were collected in the Regional Supplement's wetland determination data forms (USACE, 2022b) using indicators for the three-parameter wetlands at sample points representative of the immediate vegetation community (USACE 2008a) where applicable. A formal wetland determination datasheet was completed in locations where NWI-modeled wetlands intersected the survey area or where other indicators were present and wetland determinations were considered necessary.

SWCA used the following resources to identify the indicators associated with three-parameter wetlands (hydrology, hydric soils, and hydrophytic vegetation): the Regional Supplement for hydrology indicators (USACE 2008a); Munsell Soil Color Charts (Munsell Color 2010) for soil colors and associated indicators; Wetland Training Institute, Inc.'s, *Pocket Guide to Hydric Soil Field Indicators* for soil texture by feel chart for hydric soil indicators (Wetland Training Institute, Inc. 2022); and the 2020 National Wetland Plant List (USACE 2020) with wetland indicator status for each plant species to determine hydrophytic vegetation. Wetland boundaries were delineated where wetland hydrology, hydrophytic vegetation, and hydric soils were present, or where wetland indicators were disturbed or problematic (USACE 2008a: Chapter 5).

3.2.2 Non-Wetland Waters

Potentially jurisdictional non-wetland waters, such as streams, rivers, lakes, ponds, and reservoirs, are delineated by identifying the presence of an ordinary high water mark (OHWM). An OHWM is the line on a shore or bank established by fluctuations of water and is typically identified by physical characteristics such as a clear, natural line impressed on the bank; shelving; changes in the character of

soil; destruction of terrestrial vegetation; the presence of litter or debris; or other appropriate means that consider the characteristics of the surrounding areas.

The extent of non-wetland waters is determined in the field using the guidance and methods provided in USACE Regulatory Guidance Letter No. 05-05 (USACE 2005). For streams and rivers, the USACE technical guidance *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the United States* (USACE 2008b) and *Updated Datasheet for the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (USACE 2010b) were used to determine the lateral extent of non-wetland waters. The updated *National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams* (USACE, 2025) had not been published prior to the preparation of the OHWM datasheets for this Priority I project and was therefore not used in this assessment of non-wetland waters presented in this report.

For any stream or river OHWMs identified within the survey area, USACE OHWM datasheets (USACE 2010b) were completed at a representative sample location. The field delineation crews also recorded OHWM indicators using the *Rapid Ordinary High Water Mark (OHWM) Field Identification Data Sheet* (USACE, 2022c). Other non-wetland water OHWMs, such as for lakes and ponds, were determined by the line on the banks and qualitative notes recorded. Non-wetland water data were documented using the methodology described above for OHWMs identified in the field but not included in the publicly available datasets, as well as those identified in publicly available datasets, including the NHD and NWI.

3.2.3 Mapping

A handheld GPS receiver set to submeter accuracy was used to record the spatial extent of features, geographically reference data points, and demarcate wetland and water body boundaries during the field survey. Geographic information system (GIS) software was used to analyze recorded features, calculate areas, and generate the survey area maps.

4 RESULTS

4.1 Desktop Data Review

4.1.1 Surface Aquatic Resources

FEMA Flood Maps

According to a review of FEMA flood maps, 76.2 acres of the Priority I survey area are within special flood hazard area Zone AE, which is defined as an area that presents a 1% annual chance of flooding (meaning the flood has a 1% chance of being equaled or exceeded in any given year) (FEMA 2024). The remaining portion of the Priority I survey area—27.4 acres—is within an area of reduced flood risk due to the presence of a levee (Zone X, protected by a levee) (see Figure A-2 in Appendix A) (FEMA 2024).

Disclaimer: SWCA did not perform any hydrologic or geomorphic analysis for the site and did not investigate local floodplain maps. SWCA recommends further analysis and/or consultation with the local floodplain administrator to inform design criteria. Additionally, Zone X is not displayed on maps and is representative of all FEMA surface unless otherwise noted.

National Hydrography Dataset and National Wetlands Inventory

A review of NHD and NWI data indicates that surface aquatic features have been modeled within the Priority I survey area. The NHD indicates that the Priority I survey area is intersected by 10 NHD-modeled flowlines and one NHD-modeled waterbody classified as a stream/river, identified as the Rio Grande (USGS 2016). The NWI identifies 11 wetlands in the Priority I survey area classified as either Riverine or Palustrine, Freshwater Emergent Wetland, or Freshwater Forested/Shrub Wetland types (USFWS 2025). Table 2 summarizes the NWI and NHD features modeled within the Priority I survey area (see Figures A-3 through A-12 in Appendix A).

Table 2. National Hydrography Dataset and National Wetlands Inventory Features Modeled within the Priority I Survey Area

Water Resource (NHD identifier)	Length (linear feet) in Survey Area	Area (acres) in Survey Area
NHD Flowline		
Artificial path	29,424.97	–
Stream/river	2,004.75	–
Canal/ditch	1,804.96	–
NHD Waterbodies		
Stream/river	–	222.84
NWI Wetlands		
Freshwater forested/shrub wetland	–	172.94
Freshwater emergent wetland	–	2.13
Riverine	–	194.84

Sources: USFWS (2024); USGS (2016).

NRCS Soil Data

According to the NRCS data (2024a), 10 soil units are mapped in the Priority I survey area, one of which has predominantly hydric components indicative of wetlands (Table 3; see Figure A-23 in Appendix A).

Table 3. Mapped Soil Units in the Priority I Survey Area

Soil Map Unit Name	Soil Map Unit Number or Symbol	Hydric	Total Acres in Survey Area	Percent of Survey Area
Agua loam MLRA 42	Af	No	0.32	0.04%
Bluepoint-Kokan association, hilly	BKD	No	2.09	0.25%
Brazito complex	Bt	No	0.01	<0.00%
Brazito fine sandy loam MLRA 42	Br	No	1.15	0.14%
Brazito silty clay loam MLRA 42	Bs	No	0.23	0.03%
Gila complex, moderately alkali	GF	No	0.45	0.05%
Glendale clay loam, 0 to 1 percent slopes MLRA 42.1	Gm	No	0.04	<0.00%
Torrifluvents, frequently flooded	TP	Yes	529.99	64.33%
Vinton and Brazito soils, occasionally flooded	VF	No	288.08	34.97%
Vinton sandy loam, 0 to 1 percent slopes	VbA	No	1.62	0.20%

Soil Map Unit Name	Soil Map Unit Number or Symbol	Hydric	Total Acres in Survey Area	Percent of Survey Area
Total	**–**	**–**	**823.98**	**100.0%**

Source: NRCS (2024a).

Aerial Photographs and Imagery

Historic and current aerial photographs of the Priority I survey area appear to concur with the NWI and NHD findings above (Google Earth Pro 2025). No additional potentially jurisdictional surface aquatic features were identified from imagery for further evaluation during the field survey.

4.1.1.1 HYDROLOGY

USGS Topography and Watershed Boundaries

The Priority I survey area consists of 102.2 acres within the City of Albuquerque-Rio Grande Watershed (HUC-10 1302020303), and 1.4 acres within the Arroyo de Las Calabacillas–Rio Grande Watershed (HUC-10 1302020301). Both watersheds discharge into the Rio Grande.

4.1.1.2 CLIMATE

Antecedent Precipitation Tool

The USACE's APT results indicate that the site visit on September 18 and 19, 2023, was conducted under normal conditions (product of 12) during the dry season in a period of extreme drought (drought index). Approximately 2.02 inches and 2.10 inches of precipitation were observed in the 30 days preceding September 18 and 19, which is wet for the 30-year normal range (Appendix B) (USACE 2024). Therefore, conditions during the September 18 and 19, 2023, site visit did not represent a typical year (rolling 30-year period).

The USACE's APT results indicate that the site visit on October 23 and 24, 2023, was conducted under normal conditions (product of 11) during the dry season in a period of extreme drought (drought index). Approximately 0.12 inch of precipitation was observed in the preceding 30 days, which is dry for the 30-year normal range (see Appendix B) (USACE 2024). Therefore, conditions during the October 23 and 24, 2023, site visit did not represent a typical year (rolling 30-year period).

The USACE's APT results indicate that the site visit on October 25–27, 2023, was conducted under normal conditions (product of 10) during the dry season in a period of extreme drought (drought index). Approximately 0.12 inch of precipitation was observed in the preceding 30 days on October 25–27, which is dry for the 30-year normal range (see Appendix B) (USACE 2024). Therefore, conditions during the October 25–27, 2023, site visit did not represent a typical year (rolling 30-year period).

EPA's Seasonally Dry Period Locator Tool

The Priority I survey area is in an arid area, and the months of January, February, May, and June are considered seasonally dry at the survey area (EPA 2022).

NRCS Climate Analysis for Wetlands Tables (WETS Tables)

The approximate growing season in the region is April 1 to November 5 (WETS Station: Petroglyph National Monument, New Mexico) (NRCS 2024b). Therefore, the field survey and delineations took place within the growing season as required by the USACE manuals.

4.1.1.3 WATER QUALITY

EPA Stormwater Discharge Mapping Tool

According to the EPA's Stormwater Discharge Mapping Tool, the Priority I survey area discharges to seven catchments, including the Rio Grande (EPA 2025c). Only one project-related catchment, the Rio Grande (Tijeras Arroyo to Alameda Bridge), reported causes of impairment, which did not have established TMDLs.

New Mexico Clean Water Act 303(d)/305(b) Integrated Report

The Priority I survey area discharges to the Rio Grande (Tijeras Arroyo to Alameda Bridge) assessment unit. According to the *Final Draft 2024–2026 State of New Mexico Clean Water Act 303(d)/305(b) Integrated Report* (NMED SWQB 2024a), this assessment unit is listed for dissolved oxygen, *E. coli*, mercury, polychlorinated biphenyls, and temperature (Table 4).

Table 4. Impaired Waters Description

Assessment Unit	Assessment Unit ID	Impaired Parameter(s)
Rio Grande (Tijeras Arroyo to Alameda Bridge)	NM-2105_51	Dissolved oxygen, *E. coli*, mercury, polychlorinated biphenyls, and temperature

Source: NMED SWQB (2024a).

4.1.2 Groundwater Resources

There are 317 diversions to surface and/or groundwater resources within 0.25 mile of the Priority I survey area, two of which are within the survey area (Table 5) (NMOSE 2017). The presence of diversions indicates that there could be impacts to groundwater wells and PODs.

Table 5. Water Wells and Diversions within the Priority I Survey Area

Well or Groundwater/ POD Number	Latitude, Longitude	Use	Owner
RG-82735	35.116002°N, 106.688795°W	Domestic	Stephen S. Scott
RG-96004	35.100661°N, 106.69235°W	Monitoring well	Bosque Ecosystem Monitoring Program

Source: NMOSE (2017).

4.2 Aquatic Resources Field Survey

SWCA conducted an aquatic resources delineation field survey on September 18 and 19, 2023, and October 23–27, 2023. Weather conditions during the September field delineation survey consisted of temperatures of approximately 75°F to 80°F, with winds of 0 to 5 miles per hour and clear to cloudy skies. Conditions during the October field survey consisted of temperatures of approximately 50°F to

80°F, with winds of 0 to 10 miles per hour and clear to cloudy skies. The field survey results are described below with project maps in Appendix A, Figures A13-A22.

4.2.1 Three-Parameter Wetlands

During the aquatic resources delineation survey, the nature of potential three-parameter wetlands was investigated within the Priority Isurvey area. Based on field assessment, the SWCA field crew determined that 13 wetland features met the three-parameter wetland criteria by exhibiting hydrophytic vegetation, hydric soil, and hydrology indicators and intersected the Priority I survey area (WL01–WL13, Table 6) (see Figures A-13 to A-22 in Appendix A). All of the three-parameter wetland features were modeled by NWI-modeled data and classified as Riverine or Palustrine, Freshwater Emergent Wetland or Freshwater Forested/Shrub Wetland types. Photographs were taken of all wetland determination points and are provided in Appendix C (see Photographs C1–C13 in Appendix C). Wetland determination datasheets were completed for all points and are provided in Appendix D and summarized in Tables E-1 and E-2 in Appendix E.

All of the field-assessed wetlands were adjacent to the Rio Grande, with the delineation boundary between upland and wetland identified by a clear change in elevation and dense vegetation, which included the wetland plants coyote willow (*Salix exigua*) and sedges (family Cyperaceae), as well as more open upland vegetation including Siberian elm (*Ulmus pumila*) and sand dropseed (*Sporobolus spp.*). The delineated wetlands appear to have a continuous surface connection to a jurisdictional WOTUS, the Rio Grande, which would define them as jurisdictional WOTUS under the 2023 Amended Rule.

4.2.2 Non-Wetland Waters

During the aquatic resources delineation survey, the lateral extent of potentially jurisdictional non-wetland waters (i.e., ponds, creeks, streams, lakes) was identified by the presence of an OHWM. The Rio Grande and two other non-wetland stream features (ST01 and ST02) exhibited strong, relevant, and reliable OHWM indicators (see Figures A-14 and A-16 in Appendix A, Photographs C-14–C16 in Appendix C, and OHWM datasheets in Appendix F). ST01 and ST02 features have direct connections to the Rio Grande, and all non-wetland features had water present during the field survey. Only the Rio Grande coincided with NHD-modeled features and is classified as River/Stream (Table 7).

OHWM datasheets were not compiled for the Rio Grande due to the complexity of the feature. The lateral extent of OHWMs was assessed and delineated during a desktop data assessment of available aerial imagery (Esri and Maxar 2025) and field observations collected from the survey.

4.3 Routine Assessment Summary

The combined effort of the desktop review and the field survey indicates that a total of 16 potentially jurisdictional surface aquatic features are present in the Priority I survey area, including 13 three-parameter wetlands and three non-wetland waters (see Tables 6 and 7, respectively).

Table 6. Summary of Aquatic Resources within the Priority I Survey Area

Wetland Areas and SWCA Unique Identifier	Coinciding Modeled NWI Wetland Classification Code*	Three-Parameter Wetland Present?	FEMA Flood Zone†	Latitude (N), Longitude (W)	Total Acres within the Survey Area
WL01	PSS1A, R2UB2F, R2UB2H	Yes	AE	35.11606 -106.691	1.70
WL02	PSS1A, R2UB2F	Yes	AE	35.11174 -106.691	4.95
WL03	R2UB2F	Yes	AE	35.10684 -106.692	0.02
WL04	PFO1A, PSS1A, R2UB2F, R2US2C	Yes	AE	35.10363 -106.693	14.60
WL05	PFO1A, PSS1A, R2UB2F, R2US2C	Yes	AE	35.09941 -106.692	0.91
WL06	PF01A, PSS1A	Yes	AE	35.09824 -106.691	3.95
WL07	PFO1A, PSS1A, R2UB2F, R2US2C	Yes	AE	35.09677 -106.691	3.09
WL08	PFO1A, PSS1A,	Yes	AE	35.09732 -106.693	0.04
WL09	R2UB2Fx	Yes	AE	35.09451 -106.691	0.83
WL10	R2UB2Fx, R2USCx	Yes	AE	35.09317 -106.689	2.04
WL11	PFO1A, PSS1A, R2UB2F, R2UB2Fx, R2USCx	Yes	AE	35.09282 -106.688	1.22
WL12	PFO1A, PSS1A, R2UB2F	Yes	AE	35.09102 -106.684	0.76
WL13	PEM1A, PSS1A, R2UB2F	Yes	AE	35.08221 -106.674	17.50

*NWI Classification Code Definitions:

PEM1A Palustrine emergent, persistent temporarily flooded wetland

PFO1A Palustrine, forested, broad-leaved, deciduous, temporarily flooded

PSS1A Palustrine scrub-shrub, broad-leaved deciduous, temporary flooded

R2UB2F Riverine lower perennial unconsolidated bottom, sand, semi-permanently flooded

R2UB2Fx Riverine lower perennial unconsolidated bottom, sand, semi-permanently flooded, excavated

R2UB2H Riverine lower perennial unconsolidated bottom, sand, permanently flooded

R2US2C Riverine lower perennial unconsolidated shore, sand, seasonally flooded

R2USCx Riverine lower perennial unconsolidated shore, seasonally flooded, excavated

R4SB3A Riverine intermittent streambed, cobble-gravel, temporarily flooded

† FEMA Flood Zones:

Zone AE = Flood hazard zone, 1% annual chance flood hazard

Table 7. Summary of Non-Wetland Water Features, Total Acreage, and Total Linear Feet of Features within the Priority I Survey Area

SWCA Unique Identifier	Coinciding Modeled NHD Feature Type and Hydrographic Category	NHD Aquatic Feature Name	OHWM Present?	FEMA Flood Zone*	Latitude, Longitude	Total Acres of OHWM within Survey Area
ST01	None	N/A	Yes	AE	35.10780, -106.693	0.11
ST02	None	N/A	Yes	AE	35.09652 -106.693	0.12
Rio Grande OHWM	Stream/River, Perennial	Rio Grande	Yes	AE	35.09310, -106.674	177.45

Note: N/A = not applicable.

* FEMA Flood Zones:

Zone AE = Flood hazard zone, 1% annual chance flood hazard

5 DISCUSSION AND RECOMMENDATIONS

SWCA conducted an aquatic resources inventory that consisted of a desktop review of existing publicly available data and an aquatic resources field survey of the Priority I survey area to evaluate surface aquatic resources within and adjacent to the survey area. The aquatic resources field survey was conducted in September and October 2023, to inventory both three-parameter wetlands and non-wetland waters. A discussion of the findings and regulatory implications is presented below.

New Mexico's Senate Bill 21 (SB21), known as the Pollutant Discharge Elimination System Act, was signed into law on March 19, 2025. SB21 tasks the New Mexico Environment Department (NMED) with developing a state permitting program to enhance the protection of water quality in New Mexico's surface waters; however, this program is not yet in effect at the time of this report's writing.

5.1 Surface Aquatic Resources

5.1.1 Wetlands and Non-Wetland Waters

SWCA conducted a routine assessment of aquatic resources in the Priority I survey area and identified 16 potentially jurisdictional surface aquatic features, including 13 three-parameter wetland features and three non-wetland riverine features, one of which is the Rio Grande (see Table 6 and Table 7; also see Figures A-3 through A-12 in Appendix A). The 16 total aquatic features are determined to be potentially jurisdictional WOTUS, including some features that would be impacted by the proposed restoration activities intended to enhance habitat for federally listed species per the goals of the project.

This ARIR provides an assessment of WOTUS based on current conditions and available data resources. The USACE has the final and legal authority to make jurisdictional determinations and to define the extent of WOTUS boundaries.

5.1.1.1 CLEAN WATER ACT SECTIONS 404 AND 401 PERMITTING CONSIDERATIONS

SWCA has evaluated the identified potentially jurisdictional surface aquatic features under the current WOTUS regulations in place at the time of preparation of this report, including the 2023 Amended Rule. The Priority I project will require authorization under Section 404 of the CWA through a DA permit issued by the USACE. Based on preliminary coordination with the USACE, the anticipated scale of impacts to WOTUS, including wetlands, exceeds thresholds typically authorized under a Nationwide Permit. As a result, the project is expected to require review under an Individual Permit (IP) process. A complete Section 404 permit application package will be submitted to the USACE, including the project description, design plans, alternatives analysis, and supporting environmental documentation.

The 2023 CWA Section 401 Certification Improvement Rule requires project proponents to submit a pre-filing meeting request and certification request to the NMED Surface Water Quality Bureau (SWQB), the responsible lead agency in New Mexico. Because the Priority I project will require a Section 404 IP, a corresponding Section 401 Water Quality Certification request will be submitted to the NMED SWQB for review and approval. Coordination with NMED SWQB will occur during preparation of the permit application materials to ensure that water quality considerations, avoidance and minimization measures, and proposed mitigation actions are adequately addressed in the certification request.

The 2023 CWA Section 401 Certification Improvement Rule requires project proponents to submit a pre-filing meeting request and certification request to the NMED SWQB, the responsible lead agency in

New Mexico. Because the Priority I project will require a Section 404 IP, a corresponding Section 401 WQC request will be submitted to the NMED SWQB for review and approval. Coordination with NMED SWQB will occur during preparation of the permit application materials to ensure that water quality considerations, avoidance and minimization measures, and proposed mitigation actions are adequately addressed in the certification request.

The Priority I project is within a FEMA-mapped regulatory flood zone (Zone AE), which includes areas within the 1% annual chance of flood. SWCA recommends consultation with the local floodplain administrator to inform design criteria to ensure that the Priority I project meets the requirements of the National Flood Insurance Program and any local floodplain management ordinances, in accordance with Executive Order 11988.

5.1.2 Water Quality Considerations

Clean Water Act Section 303(d) Impaired Waters and Total Maximum Daily Loads

Based on the EPA's Stormwater Discharge Mapping Tool and the New Mexico Integrated Report, the Priority I project has the potential to impact water quality in the Rio Grande, an impaired water body listed on the 303(d) list for dissolved oxygen, *E. coli*, mercury, polychlorinated biphenyls, and temperature exceedances (NMED SWQB 2024a). The CWA Section 401 Water Quality Certification, General Condition 2, states that "if a proposed activity will result in fill material in water bodies listed as impaired under Section 303(d) of the CWA, the Project Proponent shall select and implement specific measures or BMPs to prevent further degradation of the water quality."

Because the Priority I project has the potential to impact an impaired waterbody, additional mitigation measures may be required and are to be determined in concert with the NMED SWQB. SWCA recommends ensuring that the mitigation measures and BMPs captured in the PCN highlight compliance with this condition. BMPs in the Stormwater Pollution Prevention Plan would be subject to the conditions outlined under Part 9 of the construction general permit (CGP) to comply with the NMED's regulations. Additionally, SWCA recommends early coordination with the NMED SWQB on mitigation measures or BMPs specific to the water quality impairment parameters (see Section 6).

Clean Water Act Section 402 (National Pollutant Discharge Elimination System)

Section 402 of the CWA requires operators to obtain National Pollutant Discharge Elimination System (NPDES) permit coverage for stormwater runoff. This includes (but is not limited to) permits for discharges from municipal separate storm sewer systems, construction activities, and industrial activities. Depending on the discharge and activity type, as well as eligibility conditions, operators may apply for coverage under a CGP, a multi-sector general permit, or an individual permit for stormwater discharges (among others). These permits require operators to take steps to prevent stormwater runoff from washing sediment and other pollutants from their survey area(s) into local surface water.

The EPA's CGP for stormwater discharges from construction activities provides permit coverage to eligible construction stormwater discharges in the areas where the EPA is the NPDES permitting authority. For the Priority I project, where construction activities would disturb 1 acre or more of land, a CGP would be needed in addition to the development of a Stormwater Pollution Prevention Plan (see Section 6).

6 ENVIRONMENTAL CONSIDERATIONS

A comprehensive list of the proposed design features and environmental commitments developed to protect resources and reduce unavoidable adverse impacts to a non-significant level is provided in the Priority I project's restoration plan (SWCA 2025). The NMISC will implement the environmental commitments if the proposed action is approved and constructed. The environmental commitments will be included in the design documents and contractor bid specifications.

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APPENDIX A

Priority I Aquatic Resources Inventory Maps

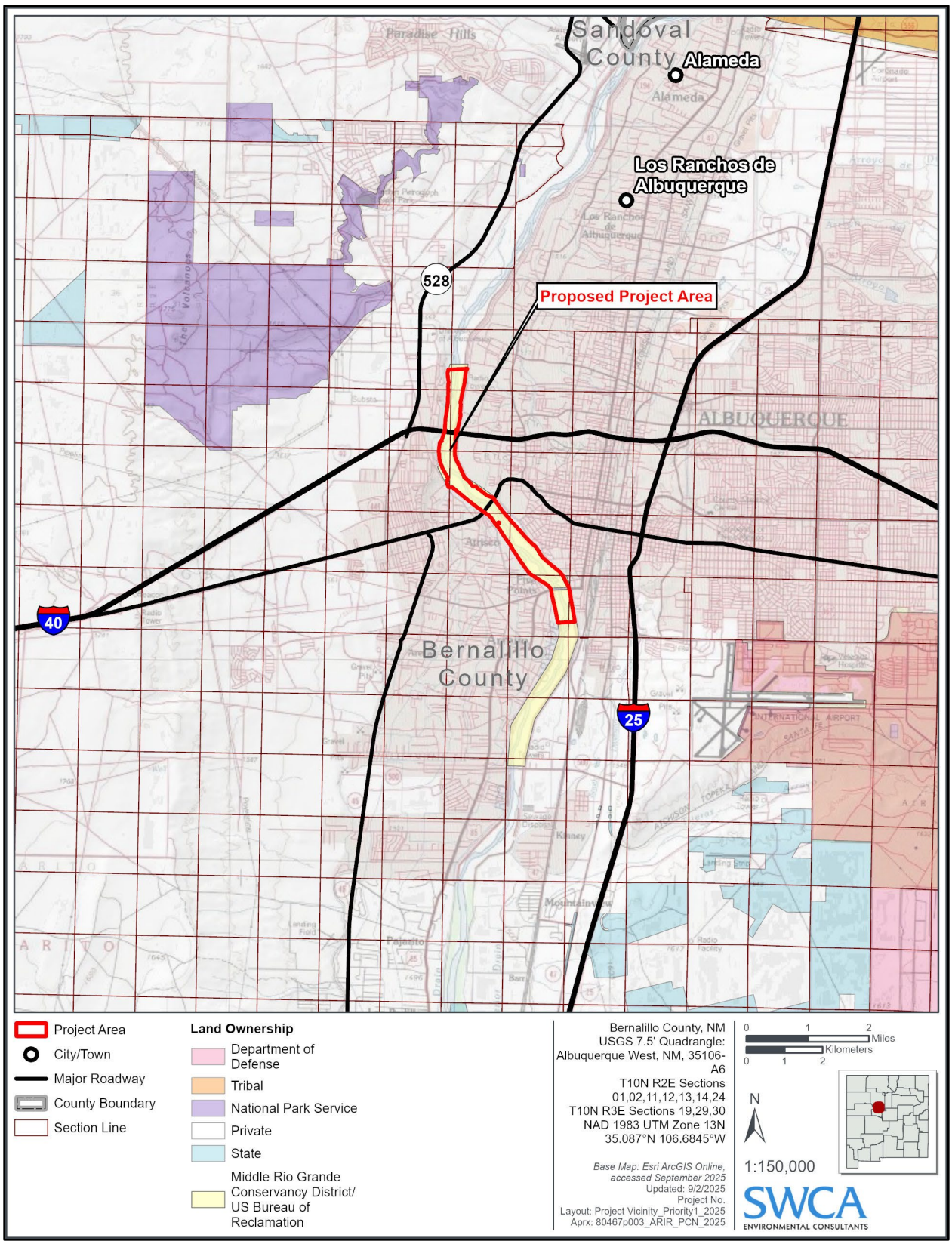


Figure A-1. Priority I project vicinity map.

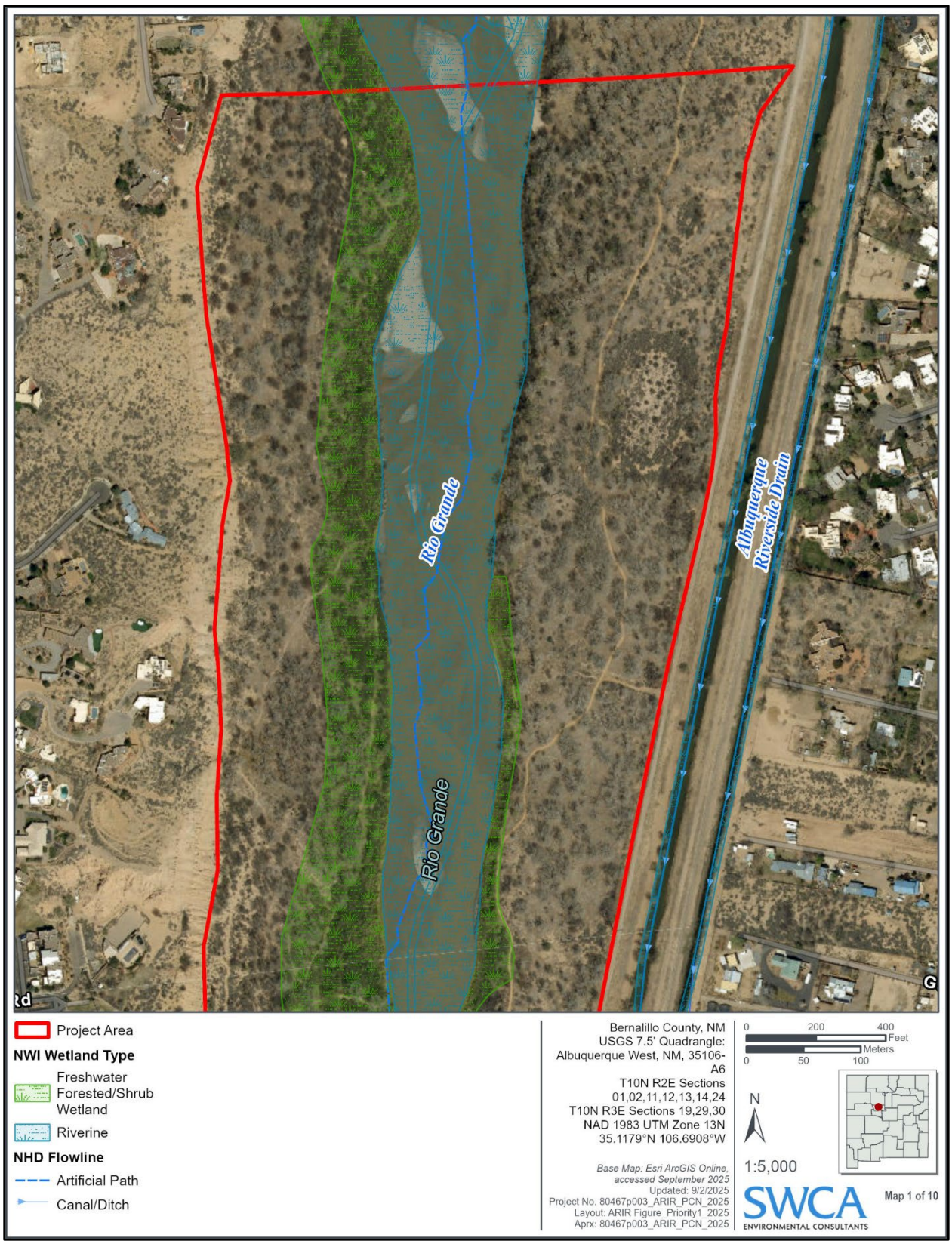


Figure A-2. Aquatic resources in the Priority I survey area, with NHD and NWI modeled data. (map 1 of 10).

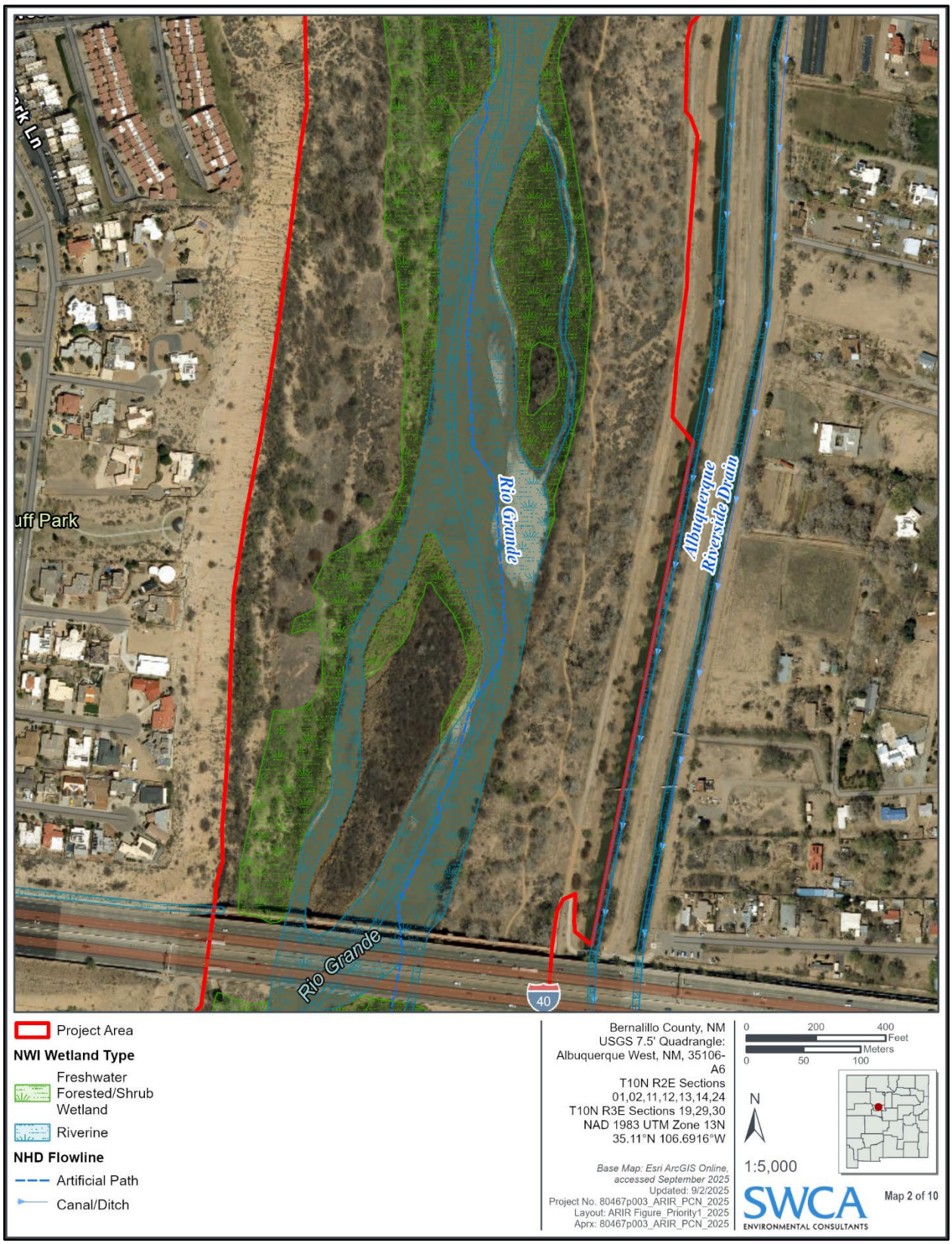


Figure A-3. Aquatic resources in the Priority I survey area, with NHD and NWI modeled data. (map 2 of 10).

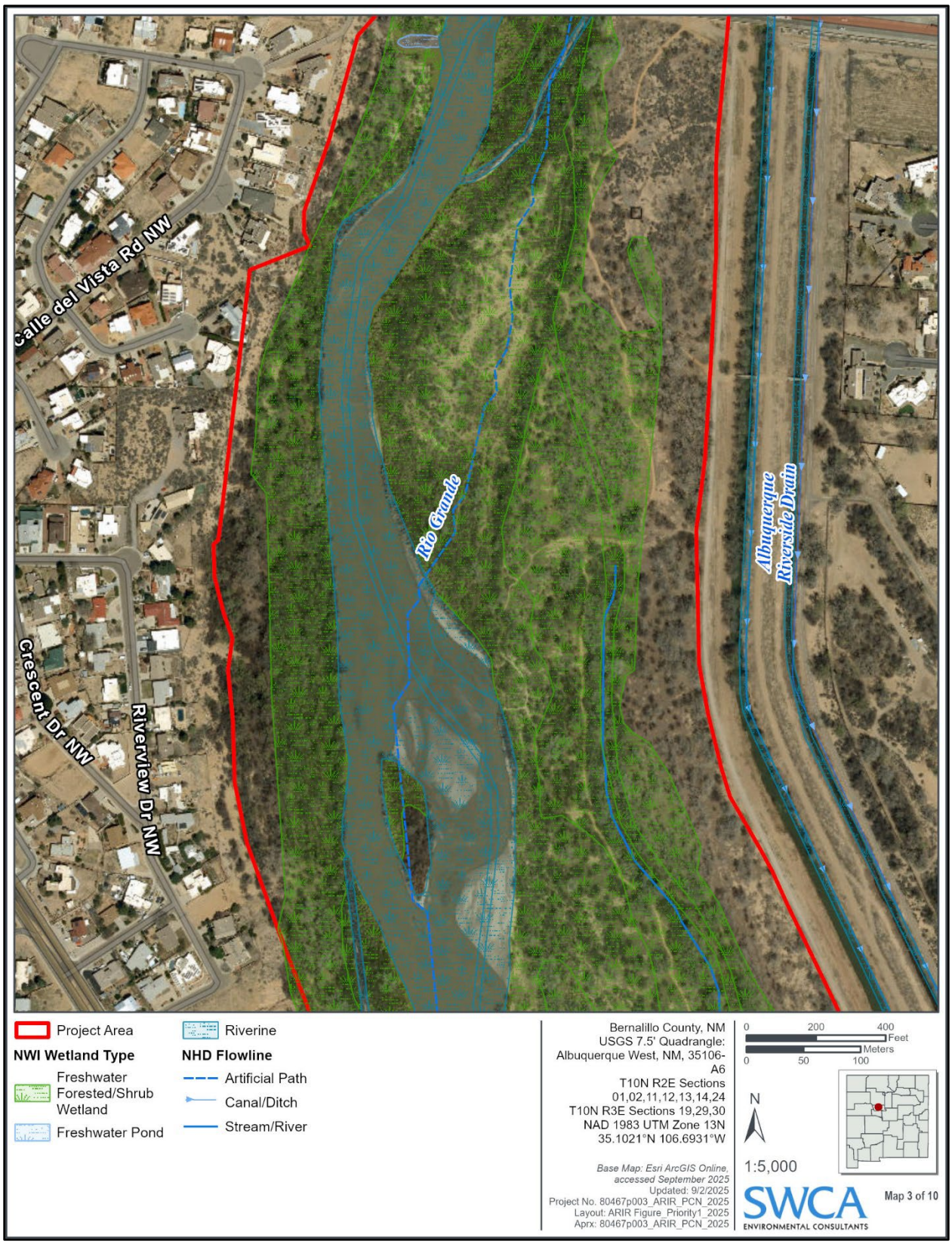


Figure A-4. Aquatic resources in the Priority I survey area, with NHD and NWI modeled data. (map 3 of 10).

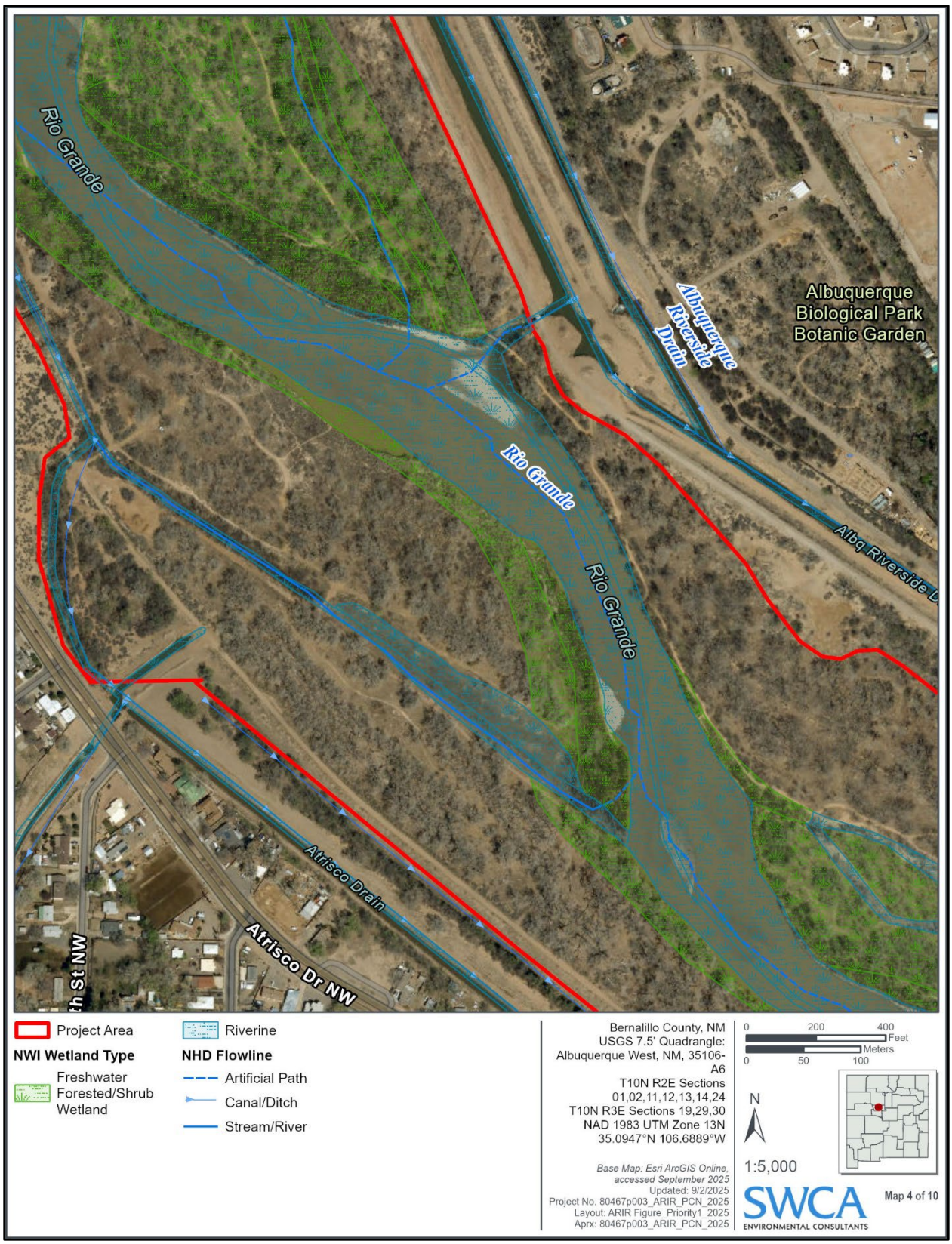


Figure A-5. Aquatic resources in the Priority I survey area, with NHD and NWI modeled data. (map 4 of 10).

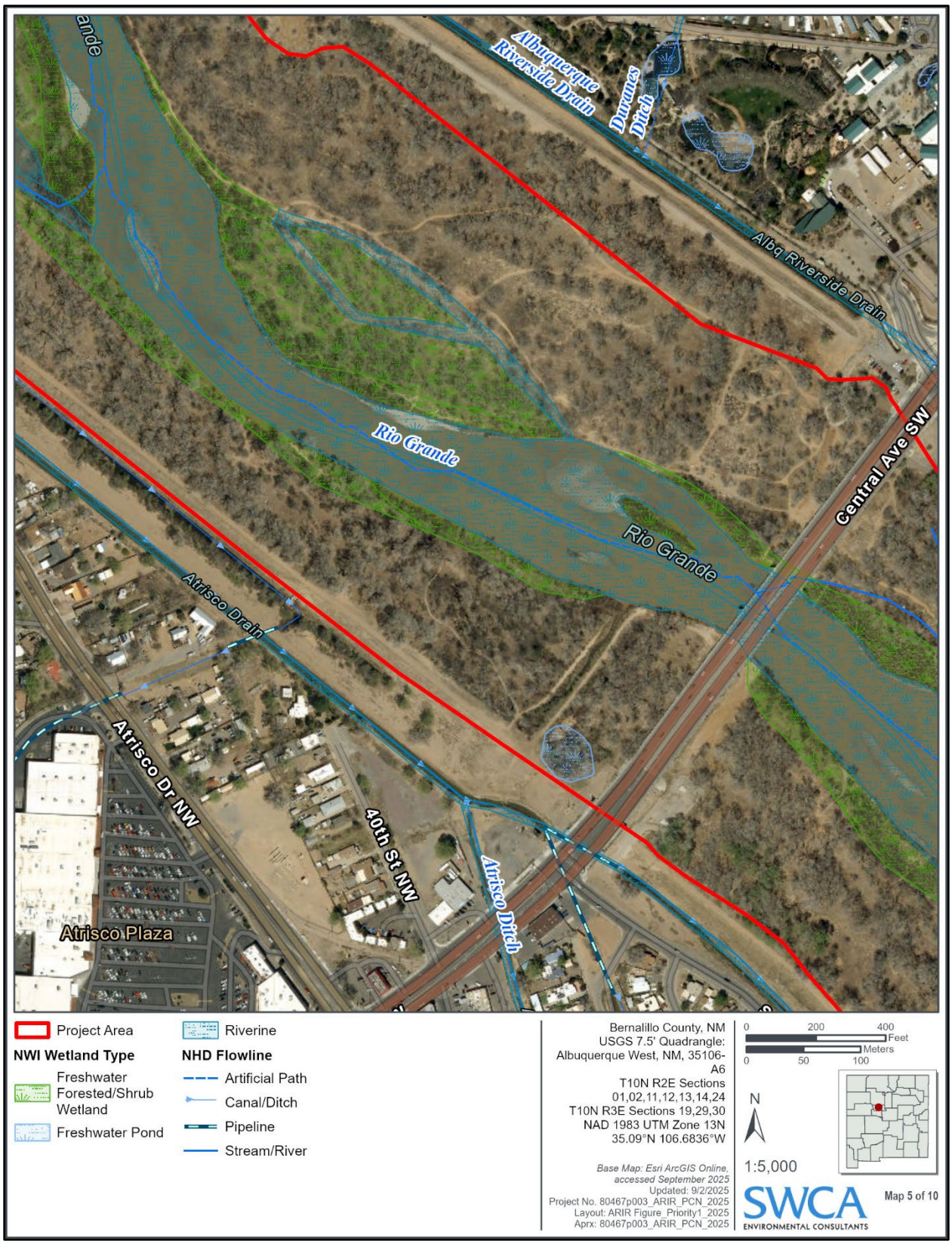


Figure A-6. Aquatic resources in the Priority I survey area, with NHD and NWI modeled data. (map 5 of 10).

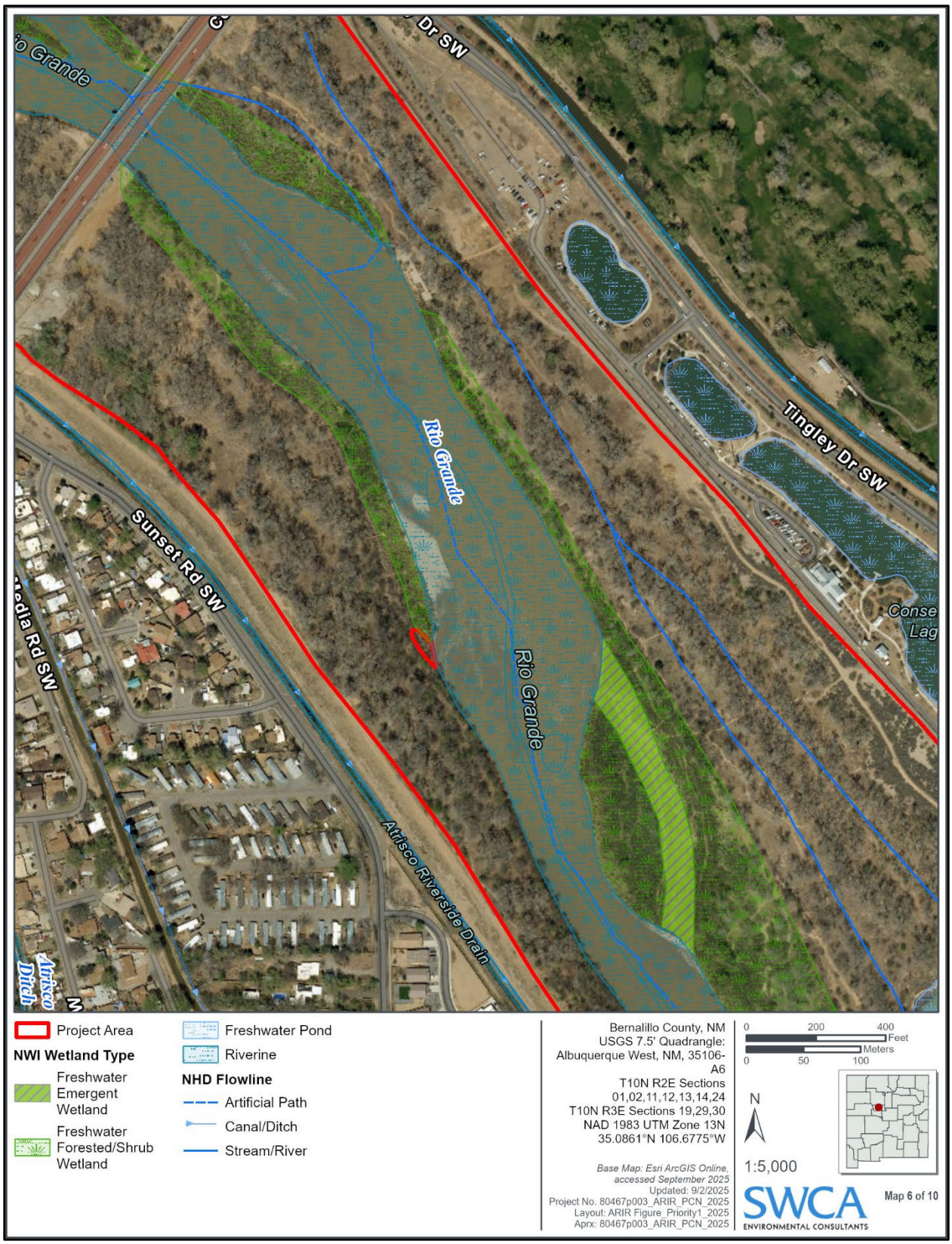


Figure A-7. Aquatic resources in the Priority I survey area, with NHD and NWI modeled data. (map 6 of 10).



Figure A-8. Aquatic resources in the Priority I survey area, with NHD and NWI modeled data. (map 7 of 10).

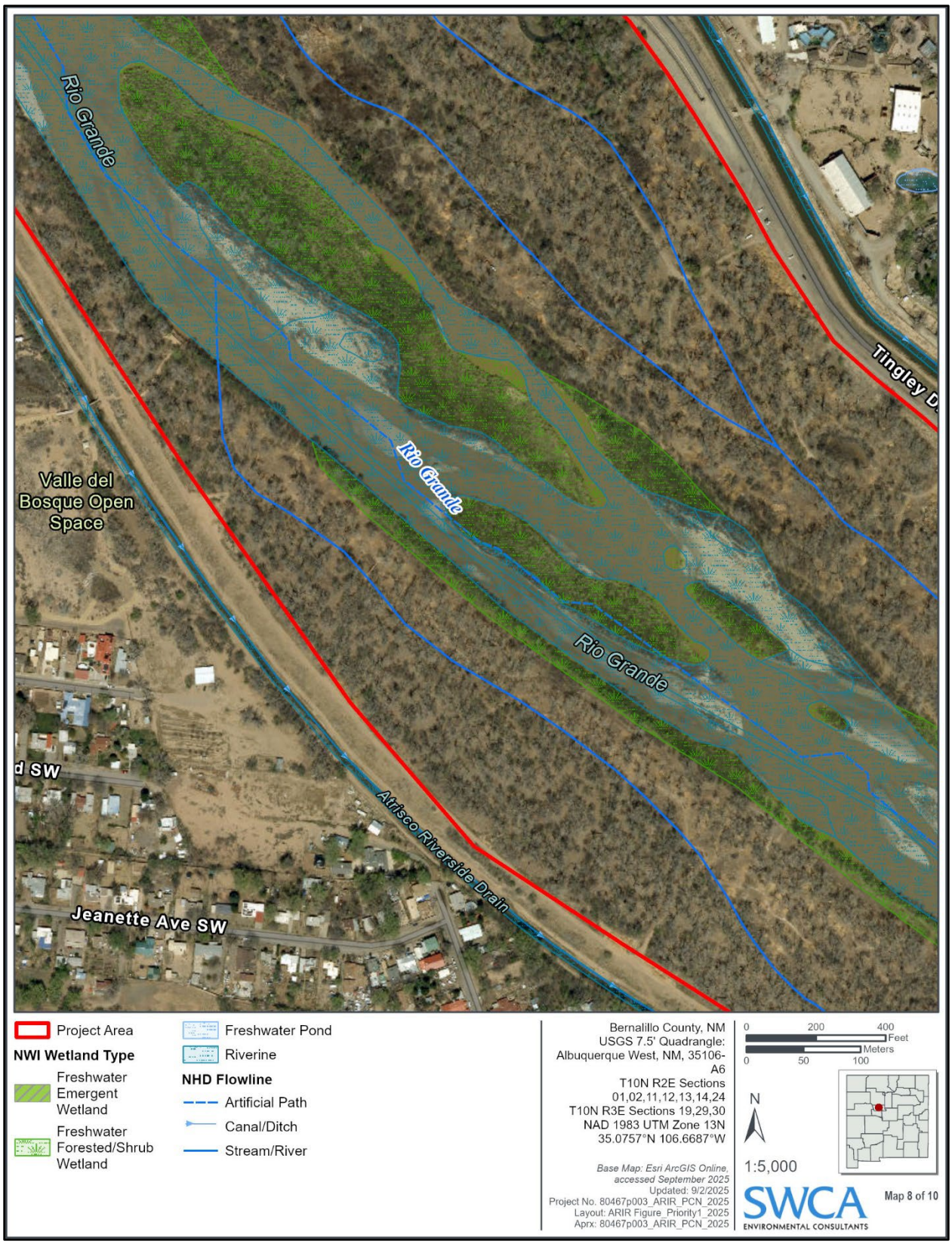


Figure A-9. Aquatic resources in the Priority I survey area, with NHD and NWI modeled data. (map 8 of 10).

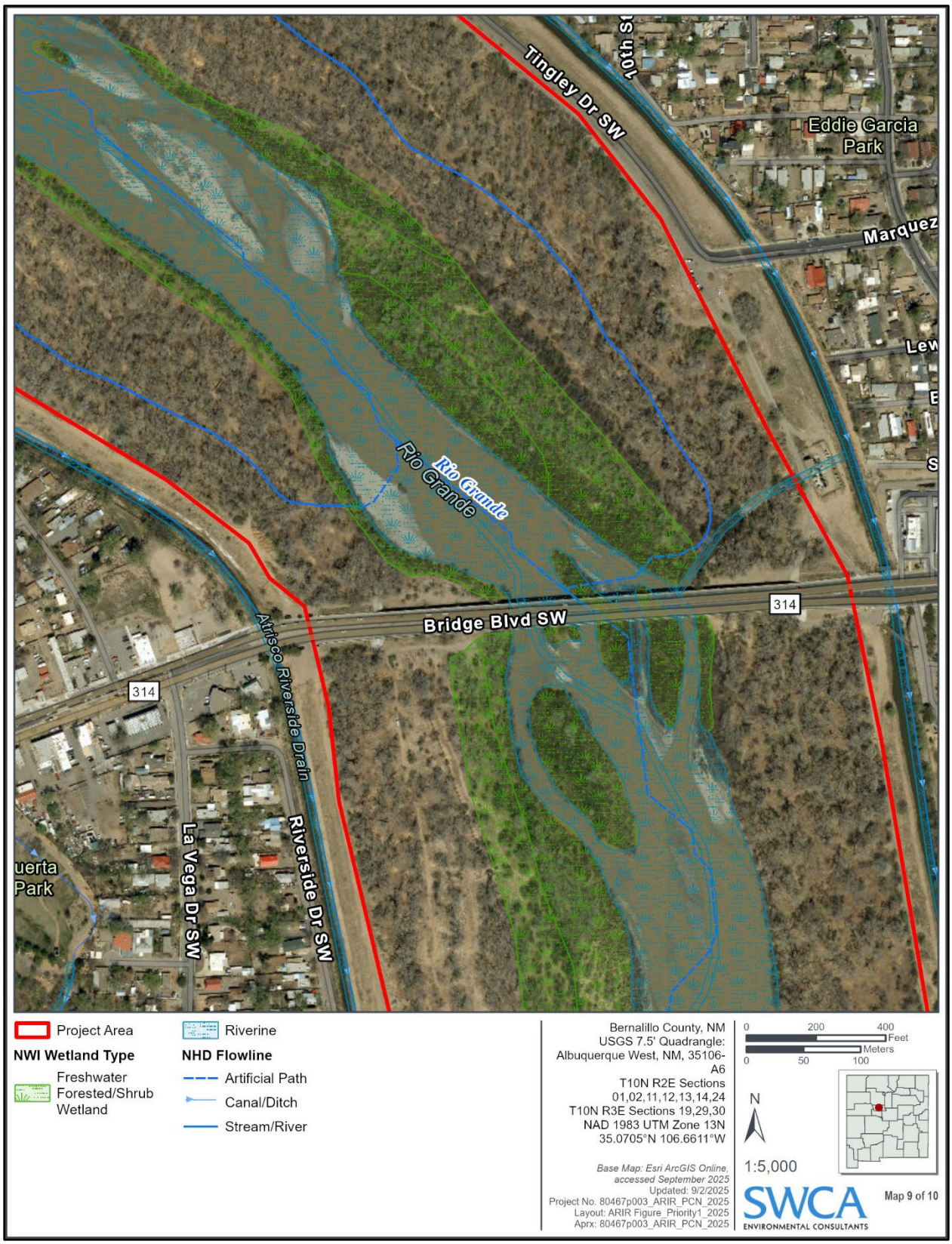


Figure A-10. Aquatic resources in the Priority I survey area, with NHD and NWI modeled data. (map 9 of 10).

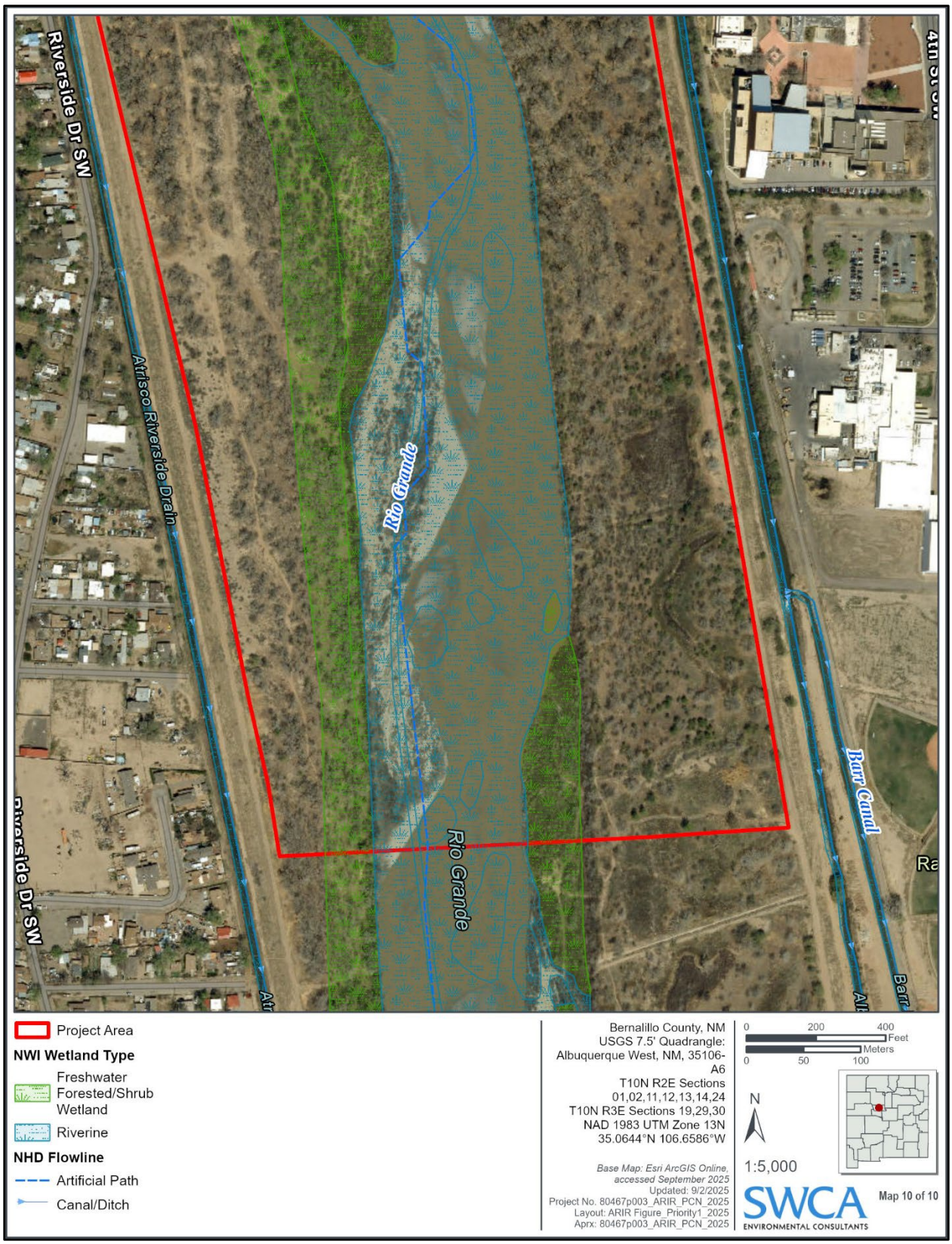


Figure A-11. Aquatic resources in the Priority I survey area, with NHD and NWI modeled data. (map 10 of 10).

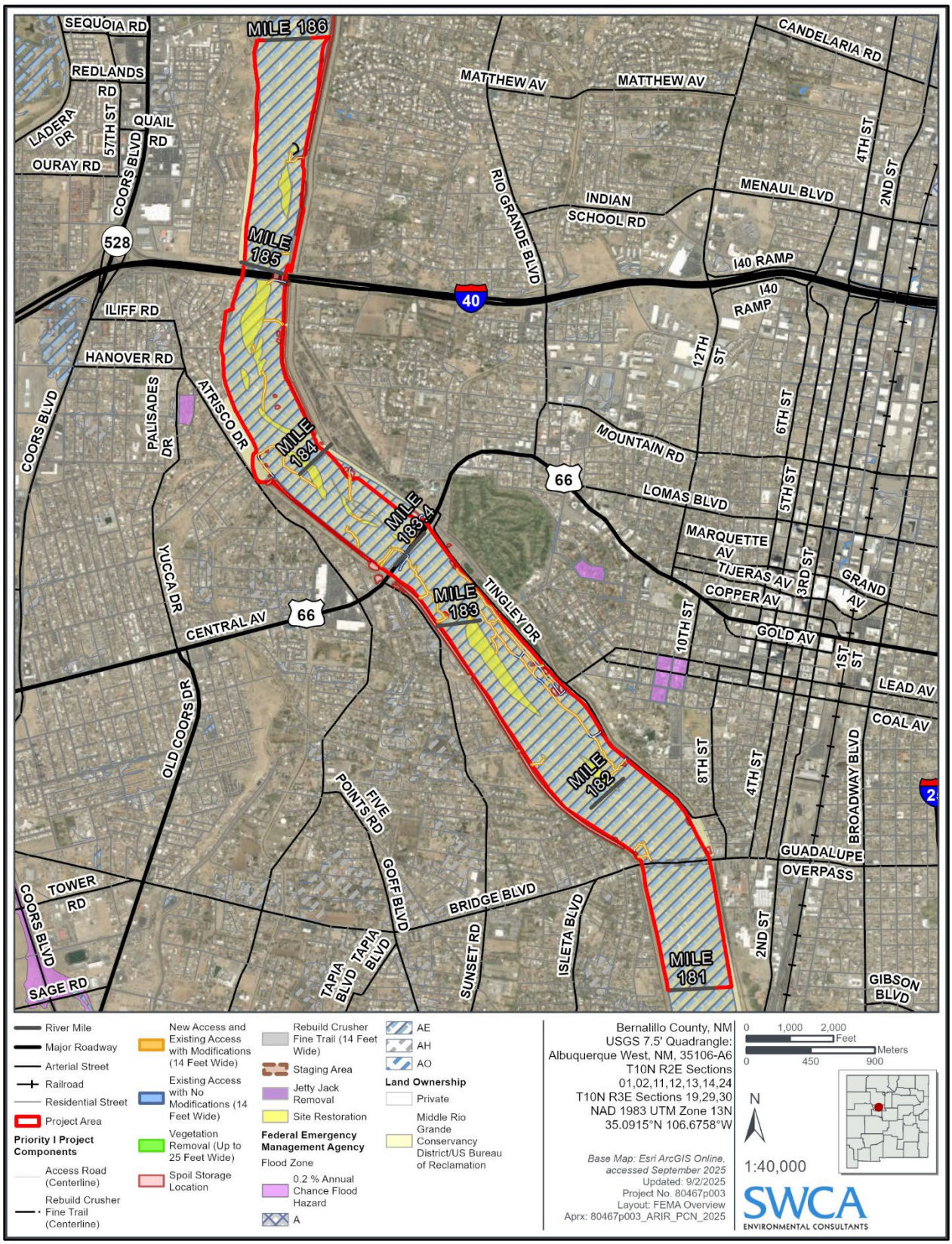


Figure A-12. Priority I project overview map with FEMA-mapped floodplains.

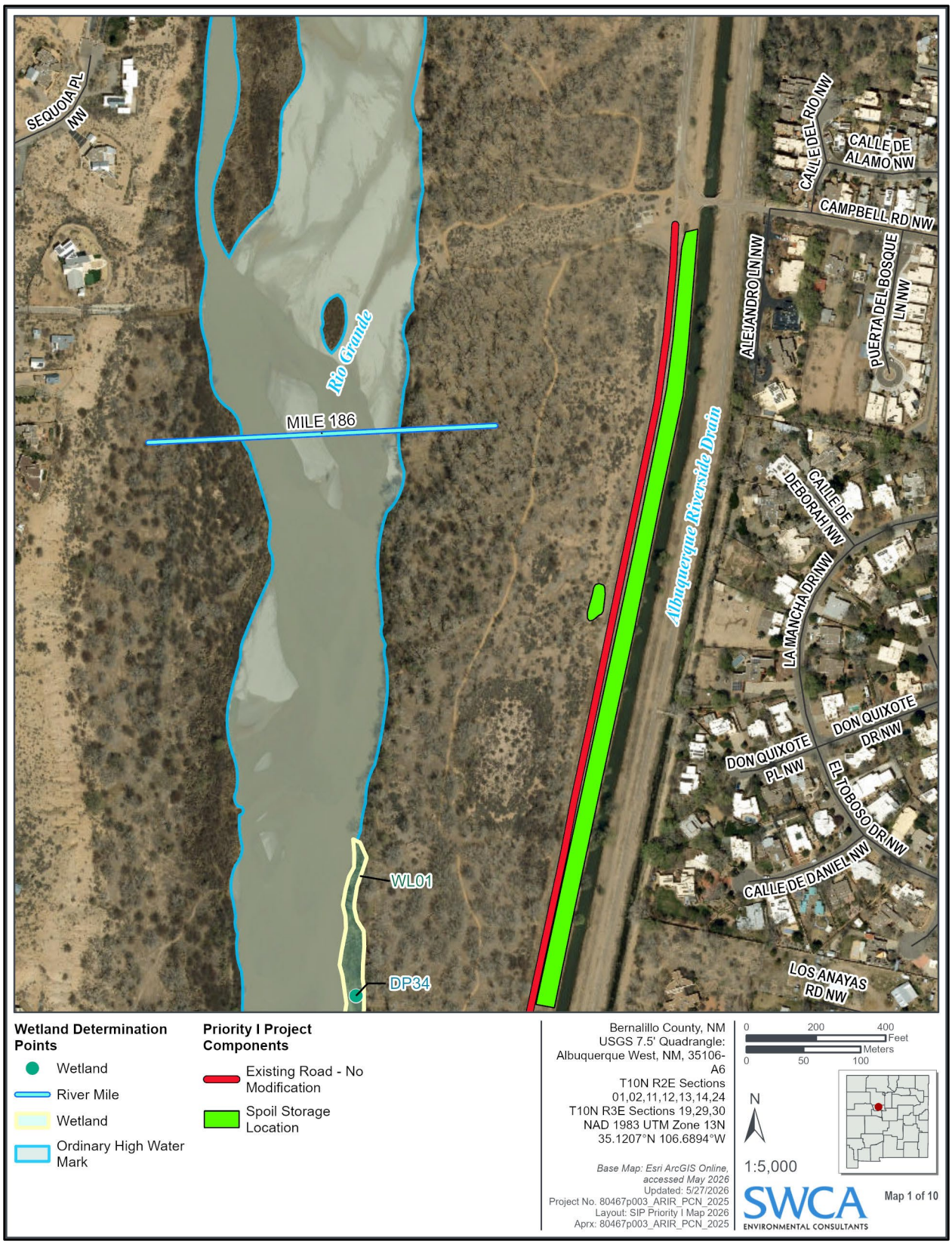


Figure A-13. Priority I project components and potentially jurisdictional WOTUS (map 1 of 10).

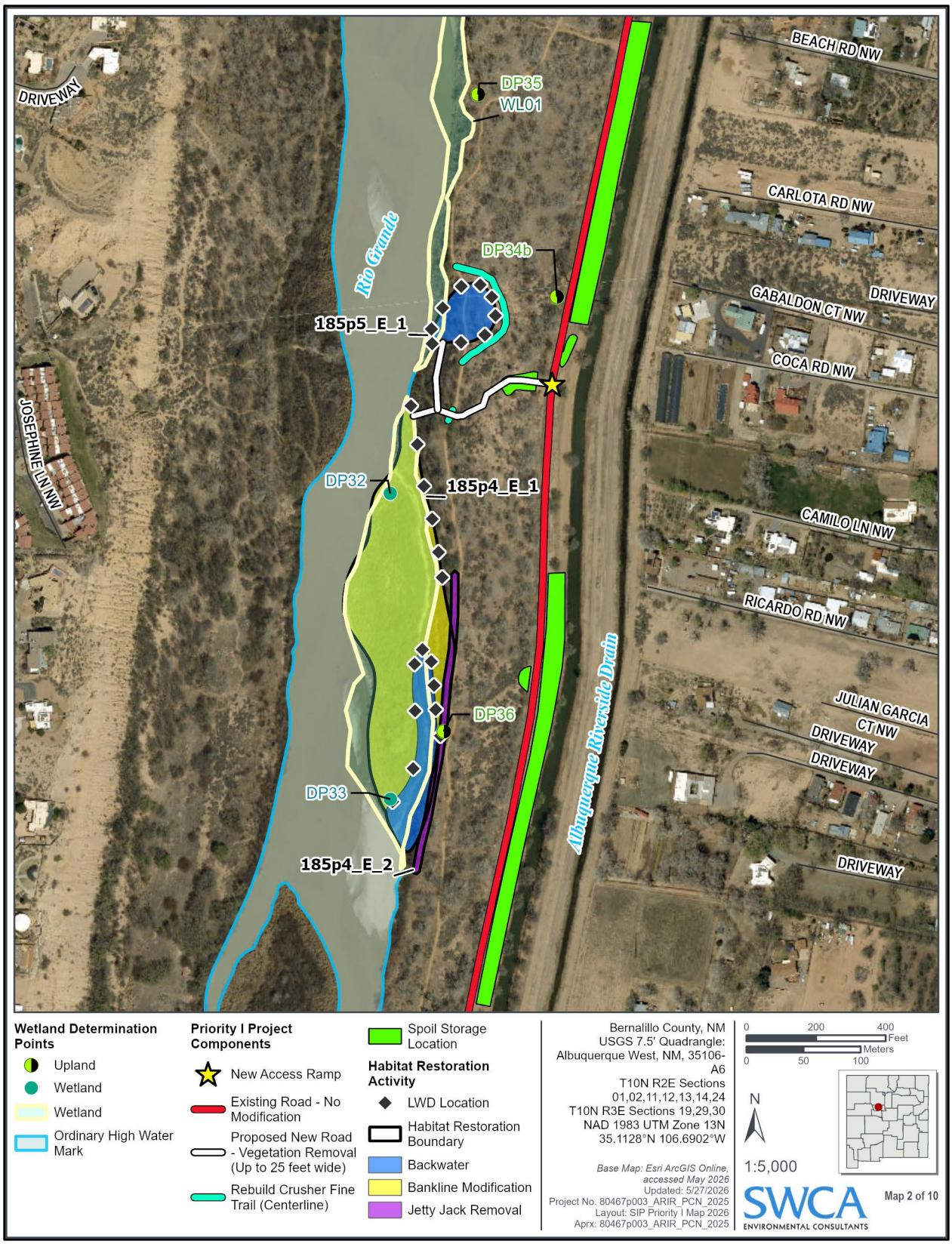


Figure A-14. Priority I project components and potentially jurisdictional WOTUS (map 2 of 10).

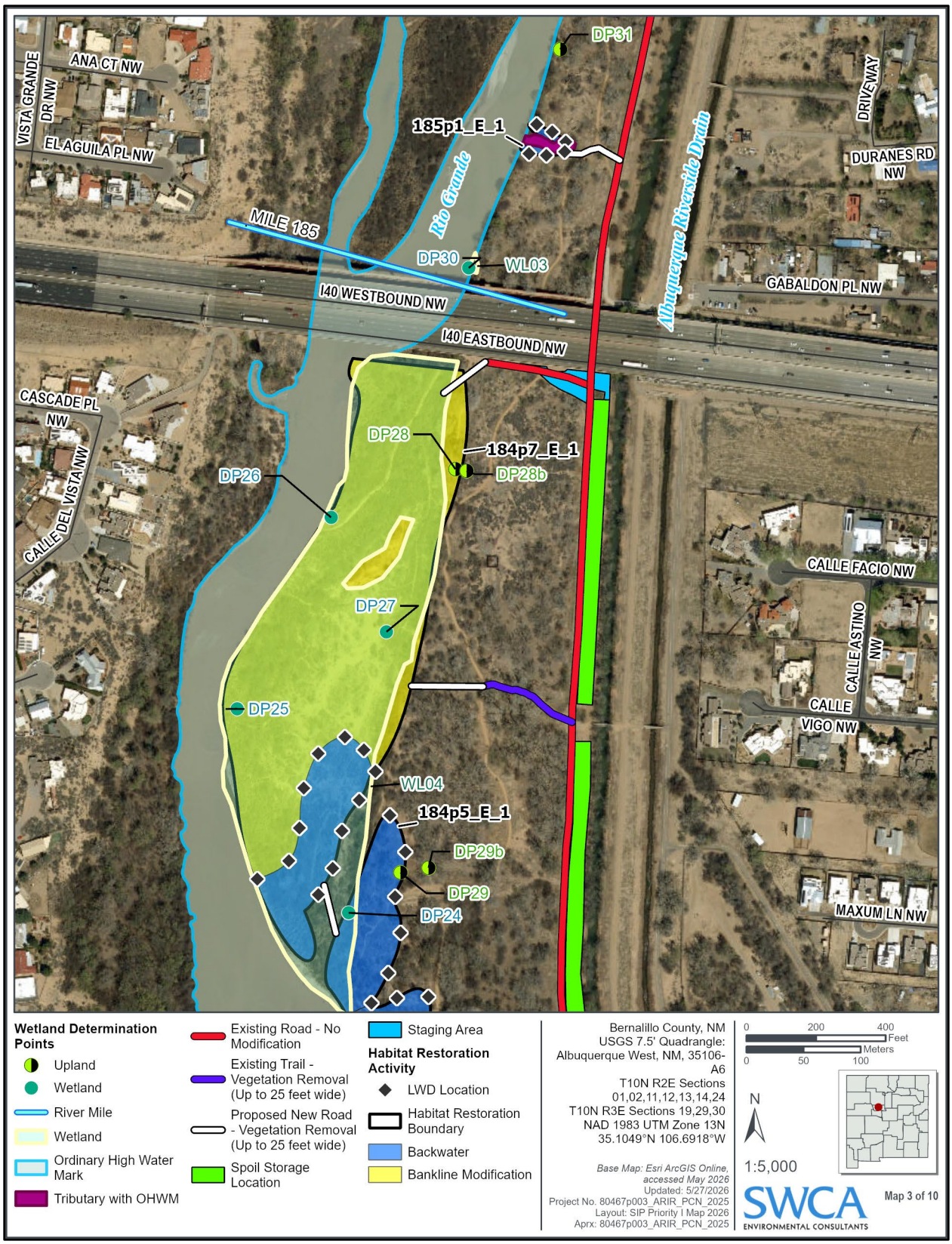


Figure A-15. Priority I project components and potentially jurisdictional WOTUS (map 3 of 10).

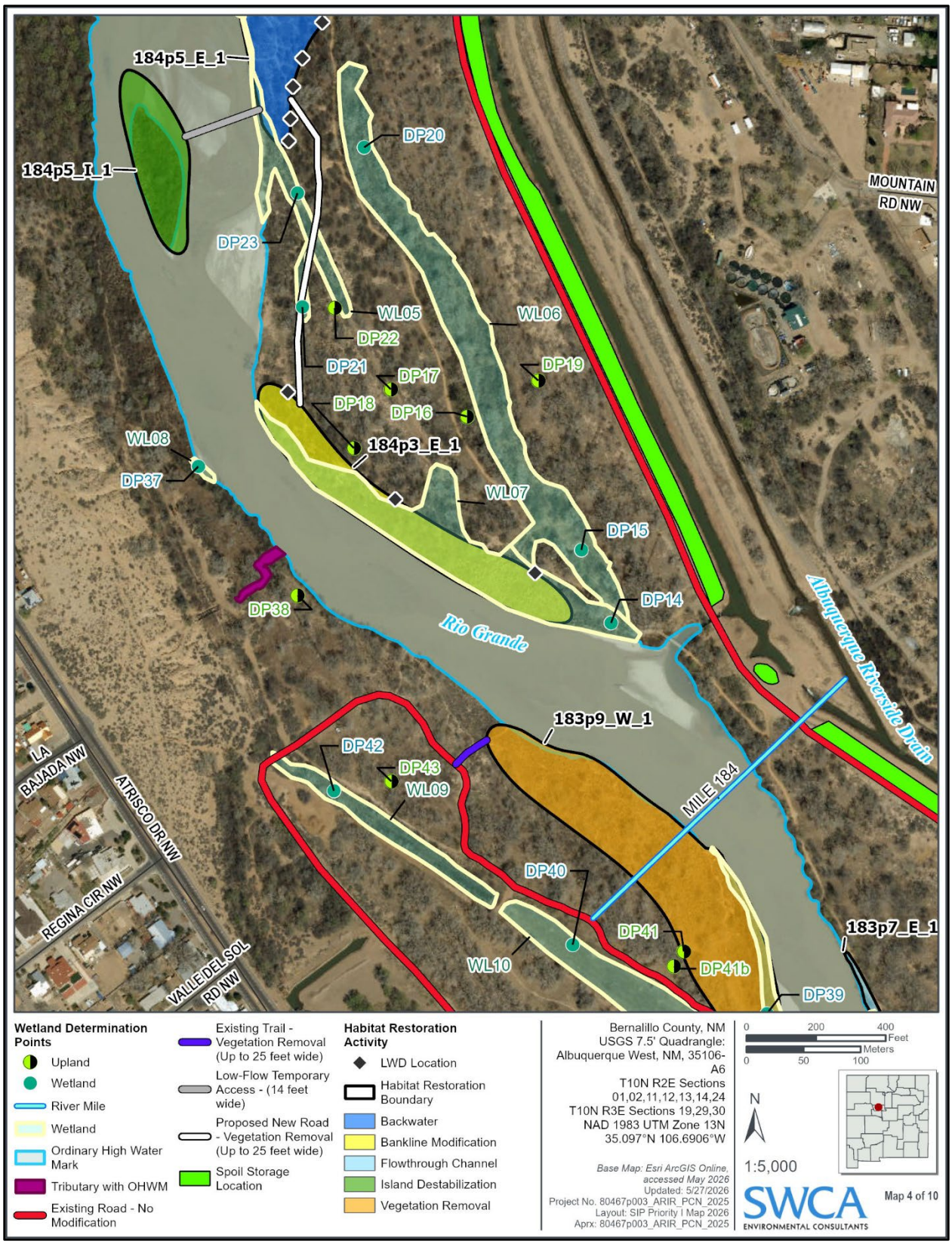


Figure A-16. Priority I project components and potentially jurisdictional WOTUS (map 4 of 10).

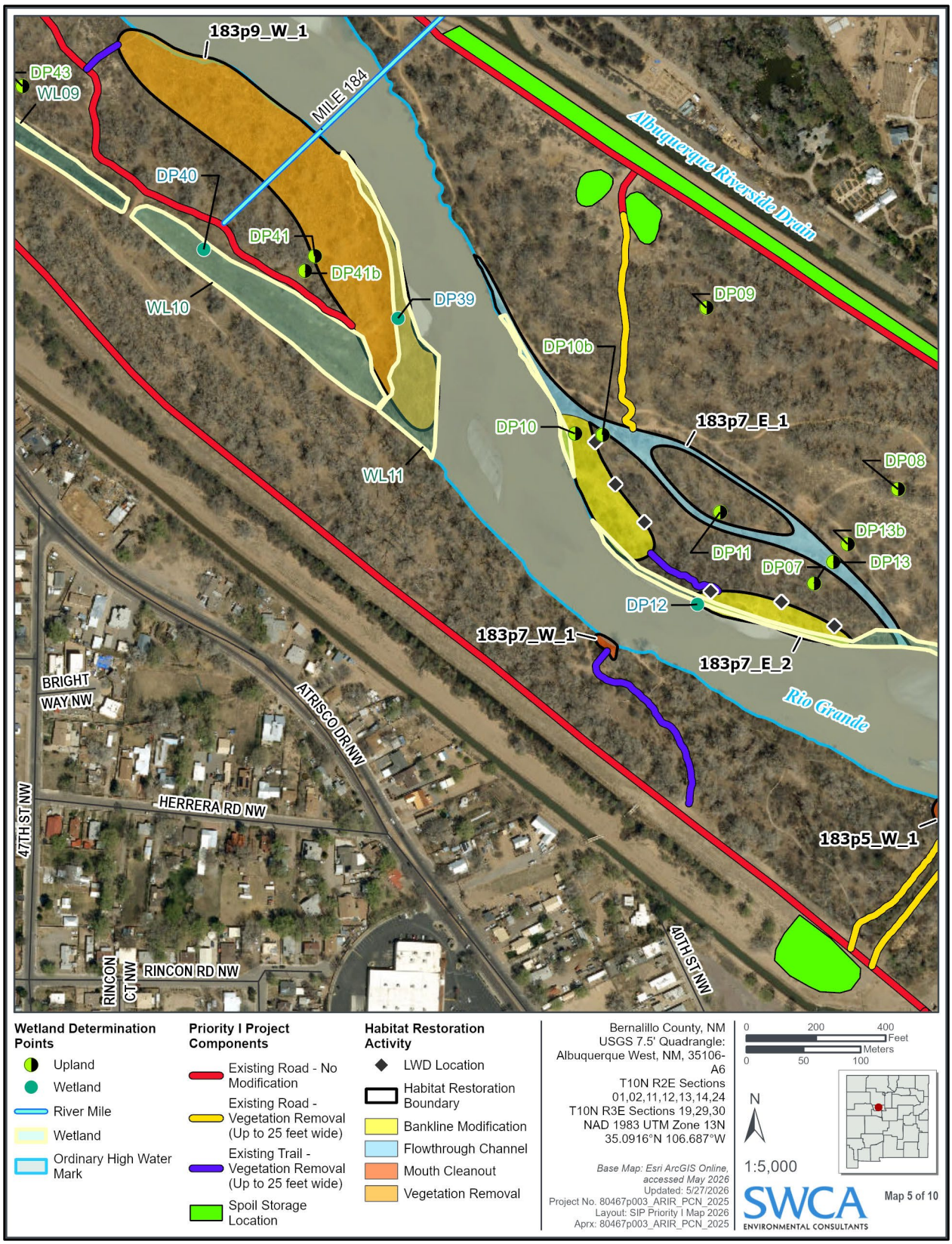


Figure A-17. Priority I project components and potentially jurisdictional WOTUS (map 5 of 10).

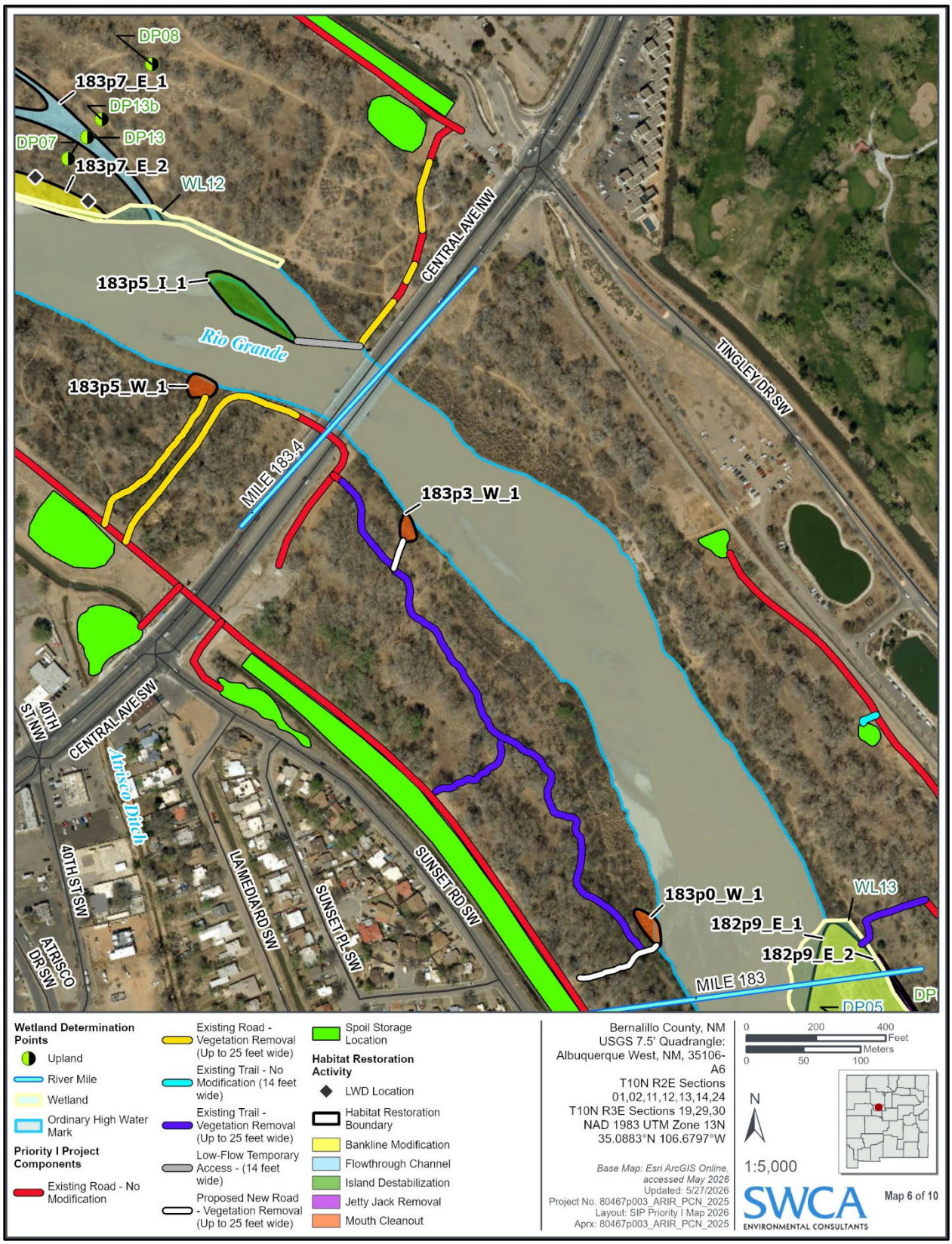


Figure A-18. Priority I project components and potentially jurisdictional WOTUS (map 6 of 10).

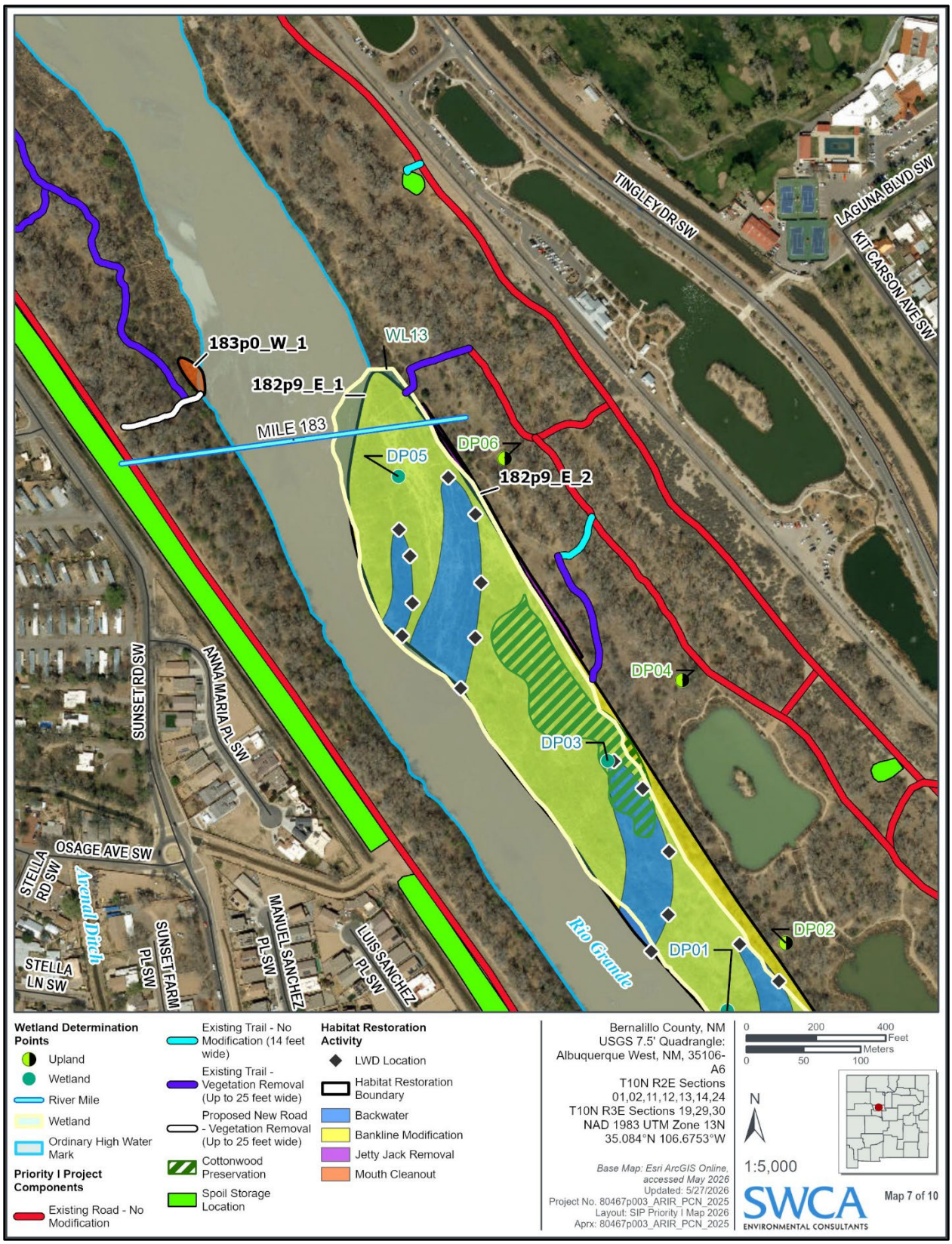


Figure A-19. Priority I project components and potentially jurisdictional WOTUS (map 7 of 10).

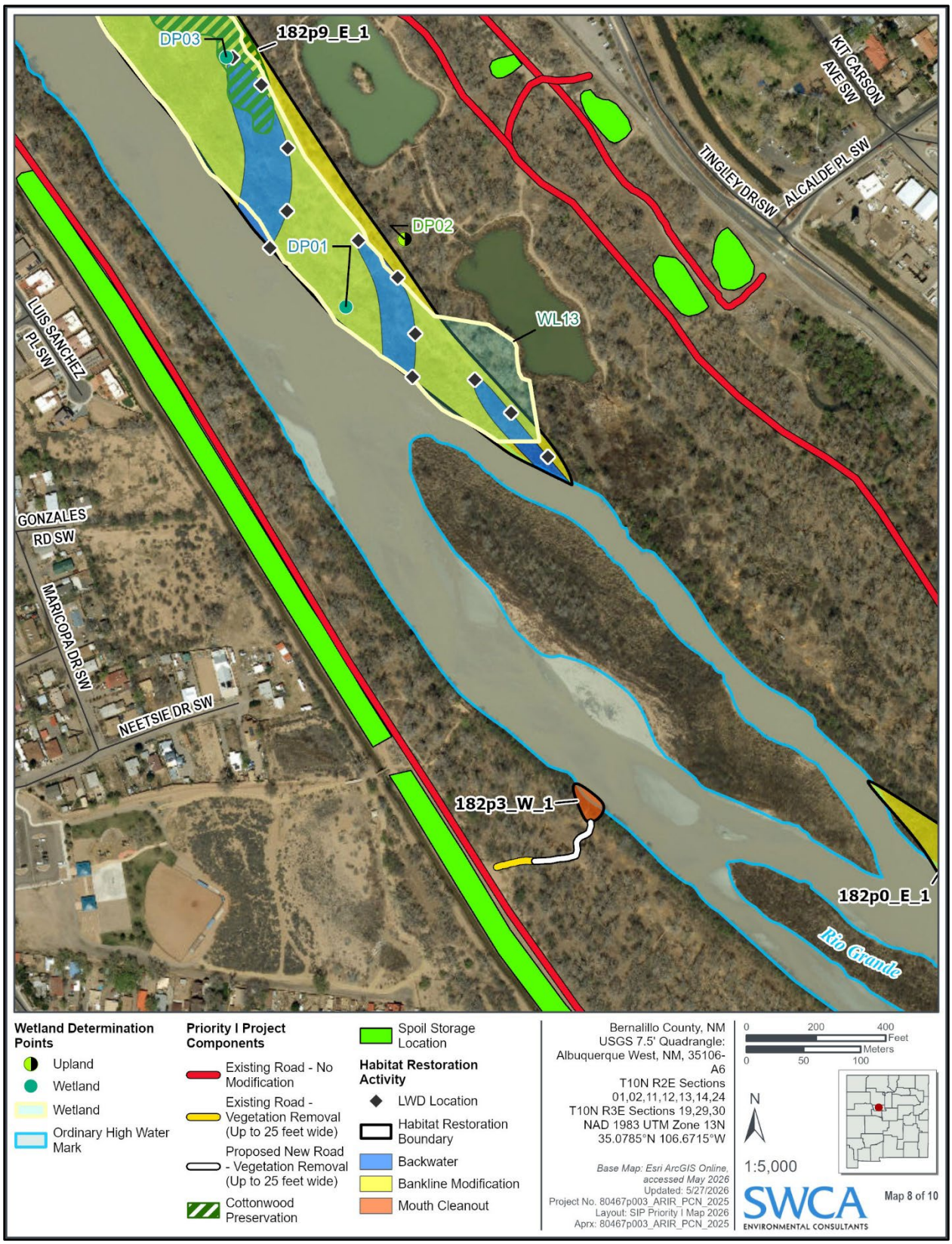


Figure A-20. Priority I project components and potentially jurisdictional WOTUS (map 8 of 10).

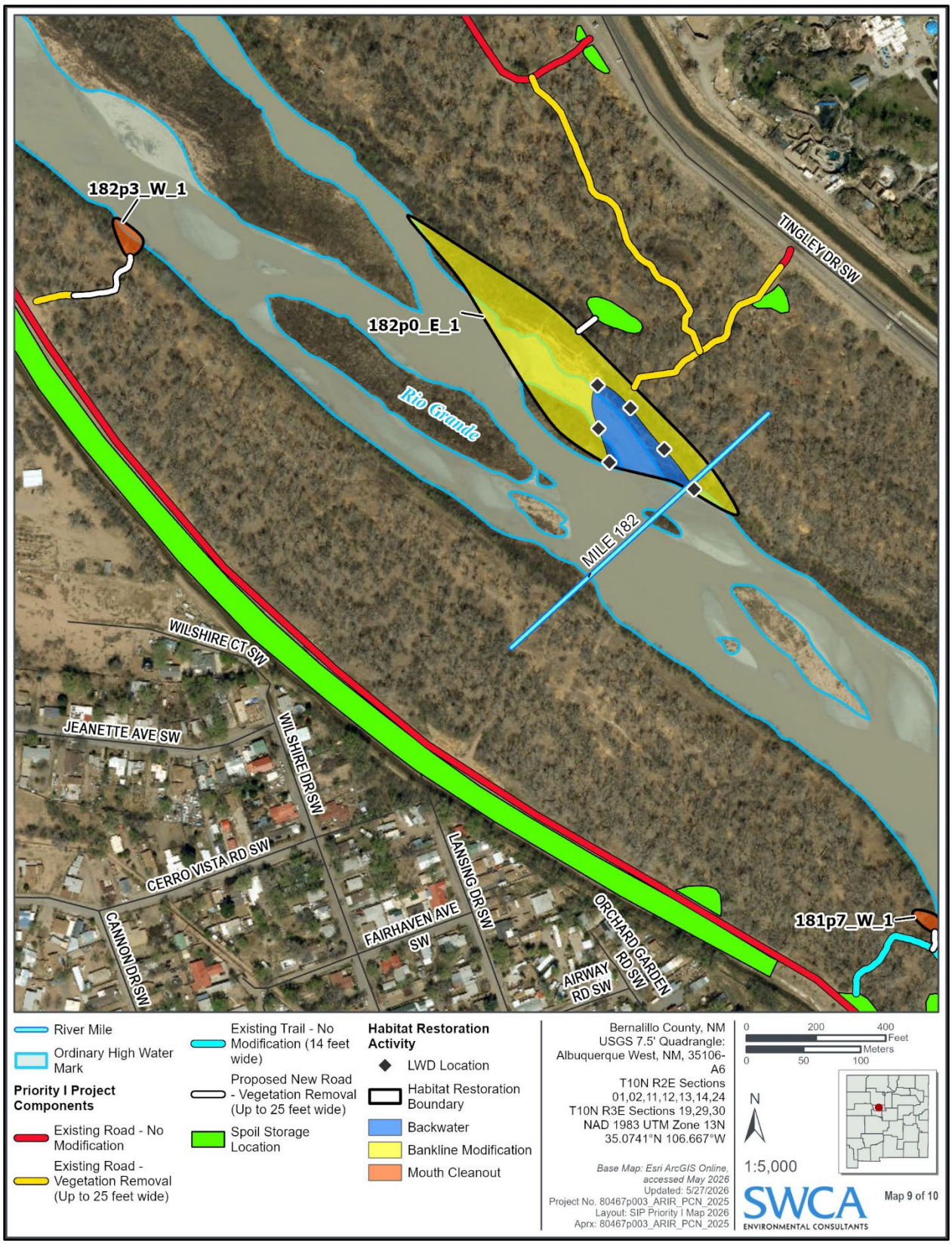


Figure A-21. Priority I project components and potentially jurisdictional WOTUS (map 9 of 10).

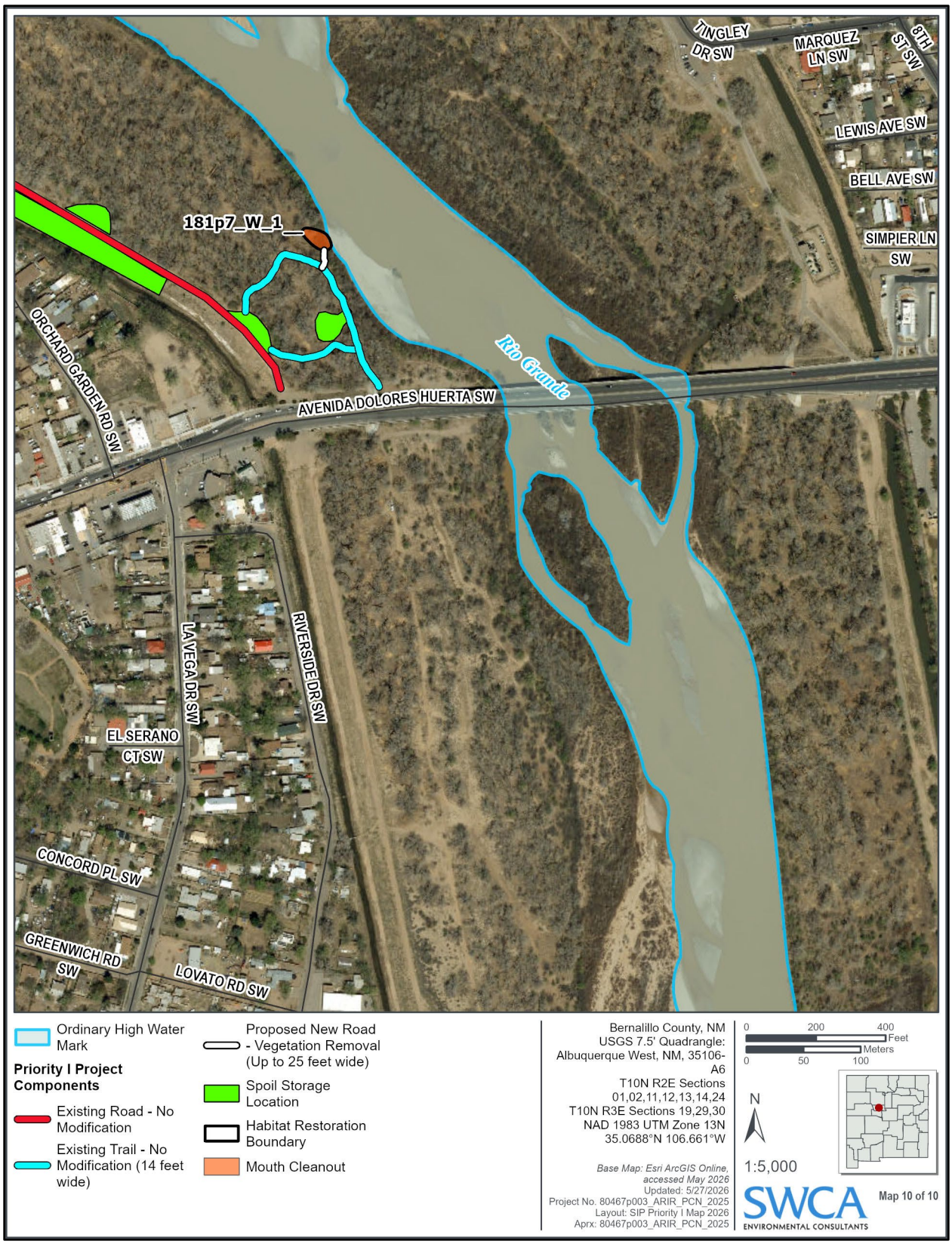


Figure A-22. Priority I project components and potentially jurisdictional WOTUS (map 10 of 10).

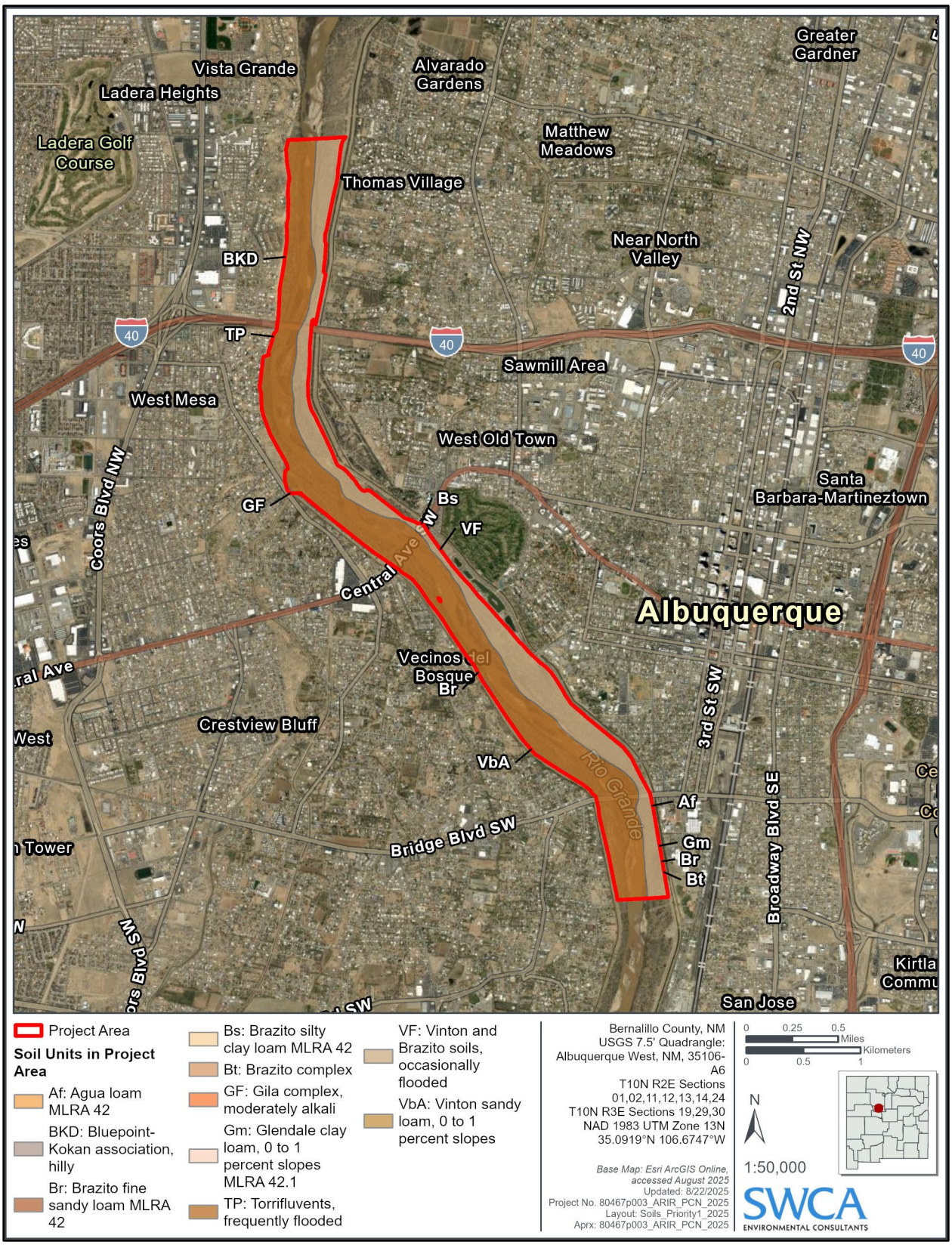
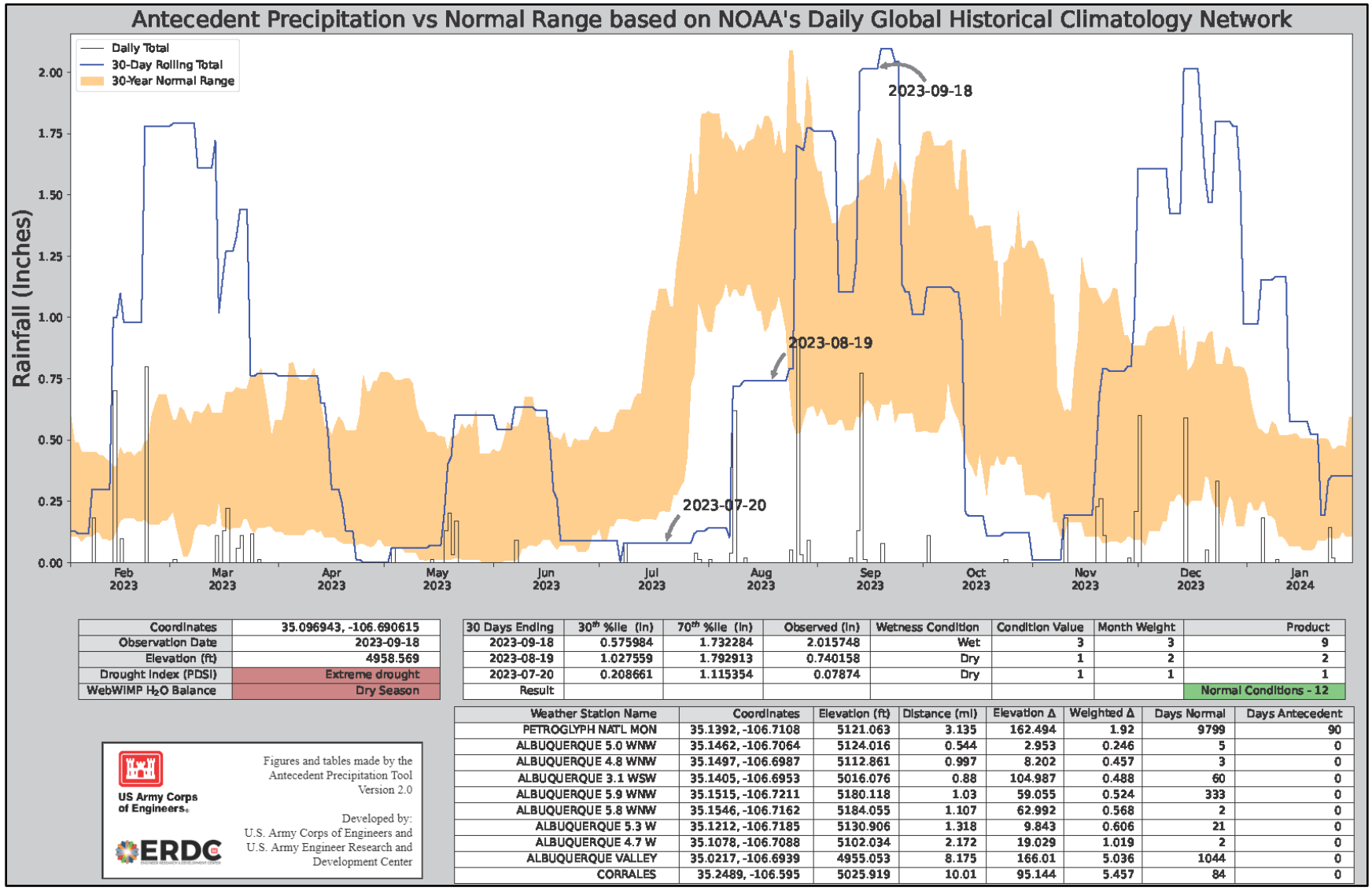


Figure A-23. Soil units in the Priority I survey area (NRCS 2024a).

APPENDIX B

Antecedent Precipitation Tool Reports



Coordinates	35.096943, -106.690615
Observation Date	2023-09-18
Elevation (ft)	4958.569
Drought Index (PDSI)	Extreme drought
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-09-18	0.575984	1.732284	2.015748	Wet	3	3	9
2023-08-19	1.027559	1.792913	0.740158	Dry	1	2	2
2023-07-20	0.208661	1.115354	0.07874	Dry	1	1	1
Result							Normal Conditions - 12

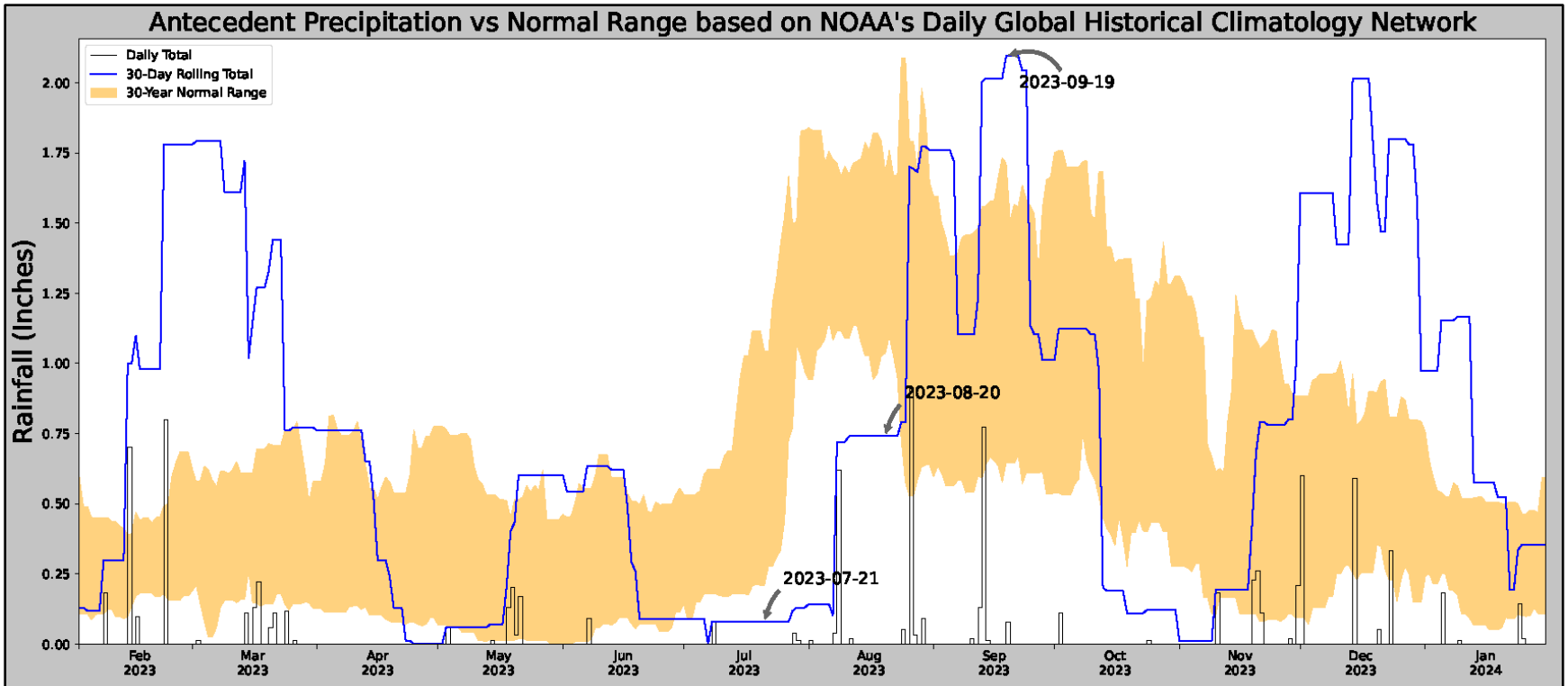
US Army Corps of Engineers

ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
PETROGLYPH NATL MON	35.1392, -106.7108	5121.063	3.135	162.494	1.92	9799	90
ALBUQUERQUE 5.0 WNW	35.1462, -106.7064	5124.016	0.544	2.953	0.246	5	0
ALBUQUERQUE 4.8 WNW	35.1497, -106.6987	5112.861	0.997	8.202	0.457	3	0
ALBUQUERQUE 3.1 WSW	35.1405, -106.6953	5016.076	0.88	104.987	0.488	60	0
ALBUQUERQUE 5.9 WNW	35.1515, -106.7211	5180.118	1.03	59.055	0.524	333	0
ALBUQUERQUE 5.8 WNW	35.1546, -106.7162	5184.055	1.107	62.992	0.568	2	0
ALBUQUERQUE 5.3 W	35.1212, -106.7185	5130.906	1.318	9.843	0.606	21	0
ALBUQUERQUE 4.7 W	35.1078, -106.7088	5102.034	2.172	19.029	1.019	2	0
ALBUQUERQUE VALLEY	35.0217, -106.6939	4955.053	8.175	166.01	5.036	1044	0
CORRALES	35.2489, -106.595	5025.919	10.01	95.144	5.457	84	0



Coordinates	35.096943, -106.690615
Observation Date	2023-09-19
Elevation (ft)	4958.569
Drought Index (PDSI)	Extreme drought
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-09-19	0.644095	1.71378	2.094488	Wet	3	3	9
2023-08-20	1.035827	1.68189	0.740158	Dry	1	2	2
2023-07-21	0.208661	1.043701	0.07874	Dry	1	1	1
Result							Normal Conditions - 12

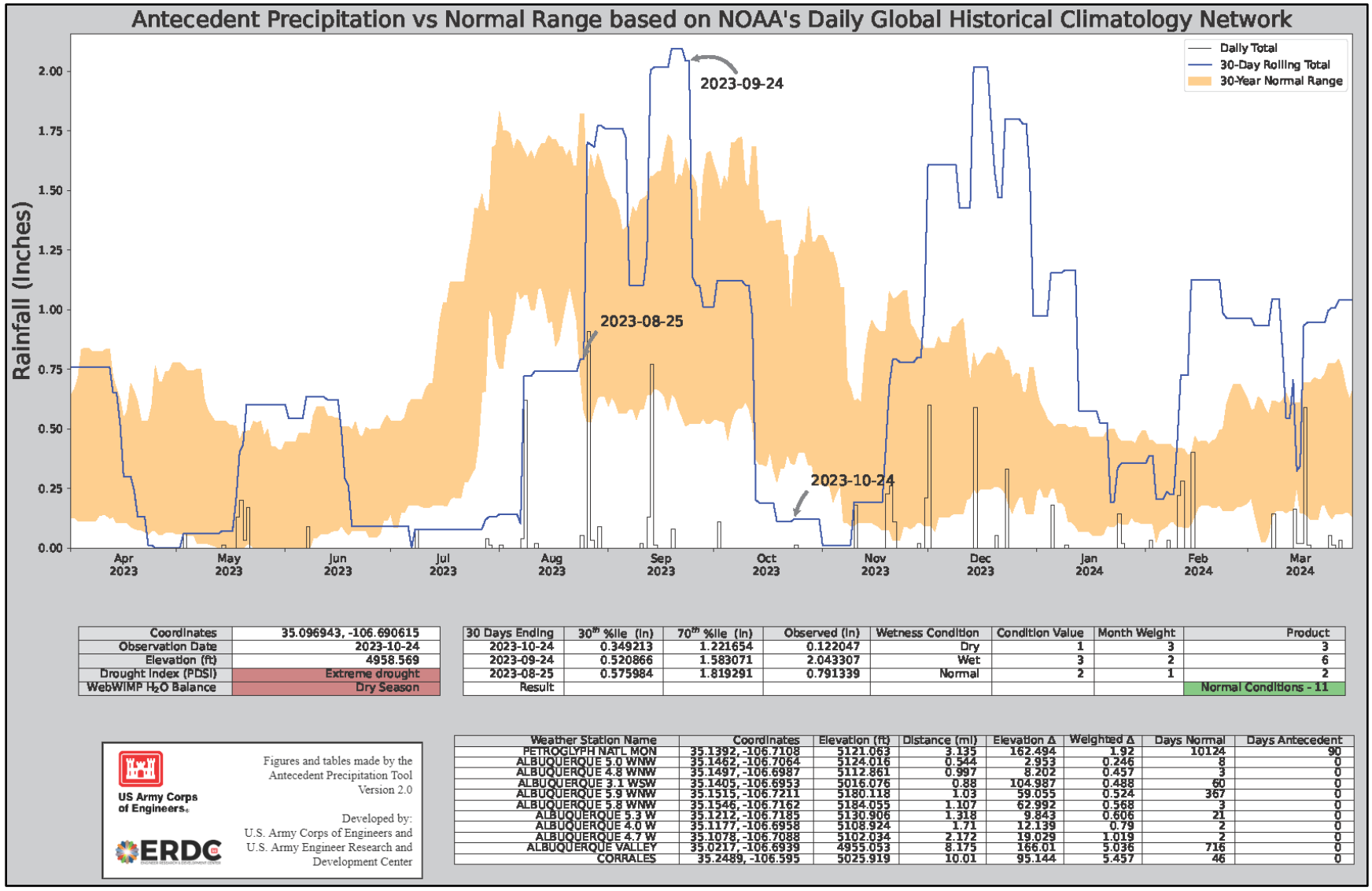
US Army Corps of Engineers

ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
PETROGLYPH NATL MON	35.1392, -106.7108	5121.063	3.135	162.494	1.92	9799	90
ALBUQUERQUE 5.0 WNW	35.1462, -106.7064	5124.016	0.544	2.953	0.246	5	0
ALBUQUERQUE 4.8 WNW	35.1497, -106.6987	5112.861	0.997	8.202	0.457	3	0
ALBUQUERQUE 3.1 WSW	35.1405, -106.6953	5016.076	0.88	104.987	0.488	60	0
ALBUQUERQUE 5.9 WNW	35.1515, -106.7211	5180.118	1.03	59.055	0.524	333	0
ALBUQUERQUE 5.8 WNW	35.1546, -106.7162	5184.055	1.107	62.992	0.568	2	0
ALBUQUERQUE 5.3 W	35.1212, -106.7185	5130.906	1.318	9.843	0.606	21	0
ALBUQUERQUE 4.7 W	35.1078, -106.7088	5102.034	2.172	19.029	1.019	2	0
ALBUQUERQUE VALLEY	35.0217, -106.6939	4955.053	8.175	166.01	5.036	1044	0
CORRALES	35.2489, -106.595	5025.919	10.01	95.144	5.457	84	0



Coordinates	35.096943, -106.690615
Observation Date	2023-10-24
Elevation (ft)	4958.569
Drought Index (PDSI)	Extreme drought
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-10-24	0.349213	1.221654	0.122047	Dry	1	3	3
2023-09-24	0.520866	1.583071	2.043307	Wet	3	2	6
2023-08-25	0.575984	1.819291	0.791339	Normal	2	1	2
Result							Normal Conditions - 11

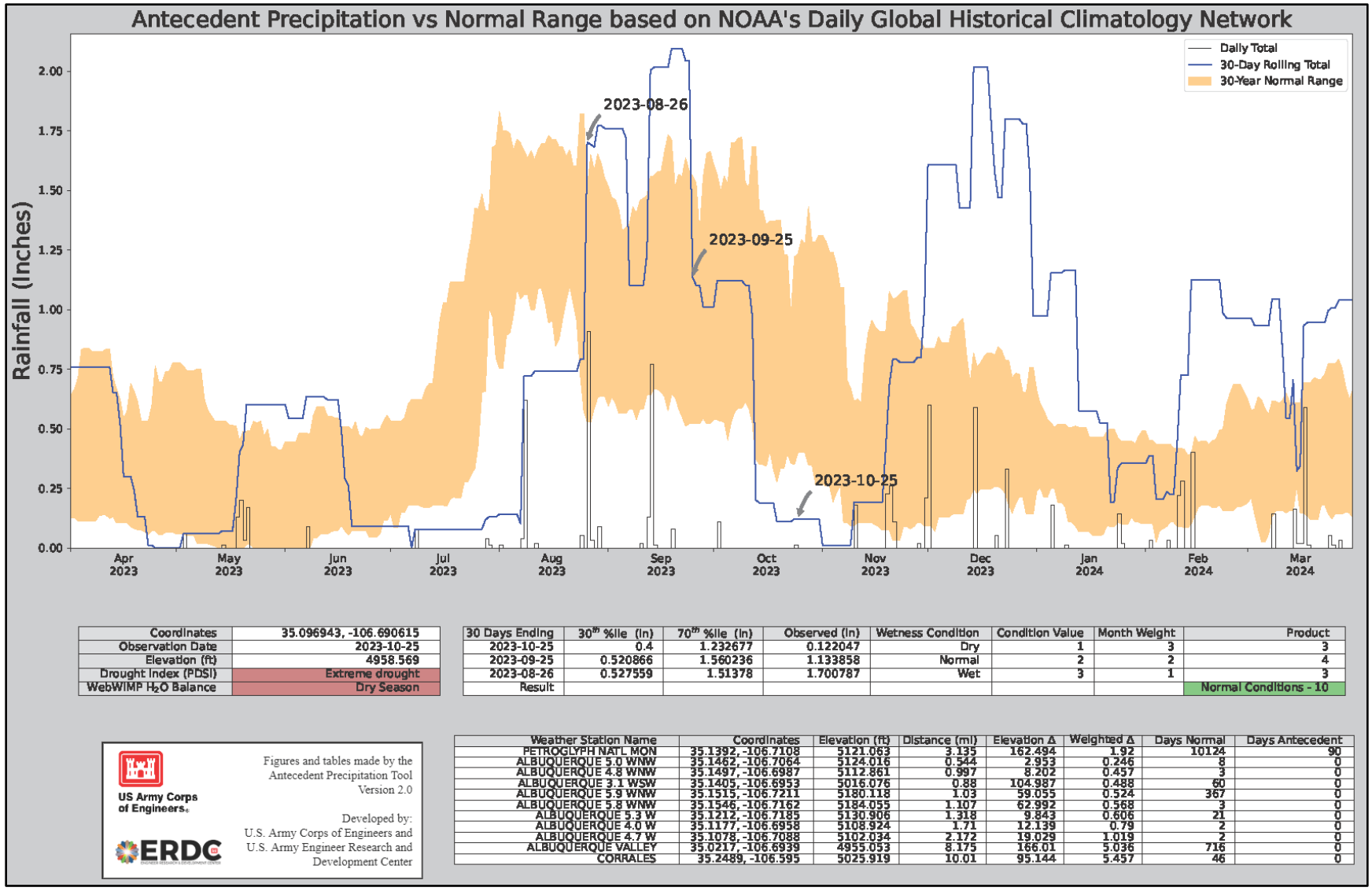
US Army Corps of Engineers

ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
PETROGLYPH NATL MON	35.1392, -106.7108	5121.063	3.135	162.494	1.92	10124	90
ALBUQUERQUE 5.0 WNW	35.1462, -106.7064	5124.016	0.544	2.953	0.246	8	0
ALBUQUERQUE 4.8 WNW	35.1497, -106.6987	5112.861	0.997	8.202	0.457	3	0
ALBUQUERQUE 3.1 WSW	35.1405, -106.6953	5016.076	0.88	104.987	0.488	60	0
ALBUQUERQUE 5.9 WNW	35.1515, -106.7211	5180.118	1.03	59.055	0.524	367	0
ALBUQUERQUE 5.8 WNW	35.1546, -106.7162	5184.055	1.107	62.992	0.568	3	0
ALBUQUERQUE 5.3 W	35.1212, -106.7185	5130.906	1.318	9.843	0.606	21	0
ALBUQUERQUE 4.0 W	35.1177, -106.6958	5108.924	1.71	12.139	0.79	2	0
ALBUQUERQUE 4.7 W	35.1078, -106.7088	5102.034	2.172	19.029	1.019	2	0
ALBUQUERQUE VALLEY	35.0217, -106.6939	4955.053	8.175	166.01	5.036	716	0
CORRALES	35.2489, -106.595	5025.919	10.01	95.144	5.457	46	0



Coordinates	35.096943, -106.690615
Observation Date	2023-10-25
Elevation (ft)	4958.569
Drought Index (PDSI)	Extreme drought
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-10-25	0.4	1.232677	0.122047	Dry	1	3	3
2023-09-25	0.520866	1.560236	1.133858	Normal	2	2	4
2023-08-26	0.527559	1.51378	1.700787	Wet	3	1	3
Result							Normal Conditions - 10

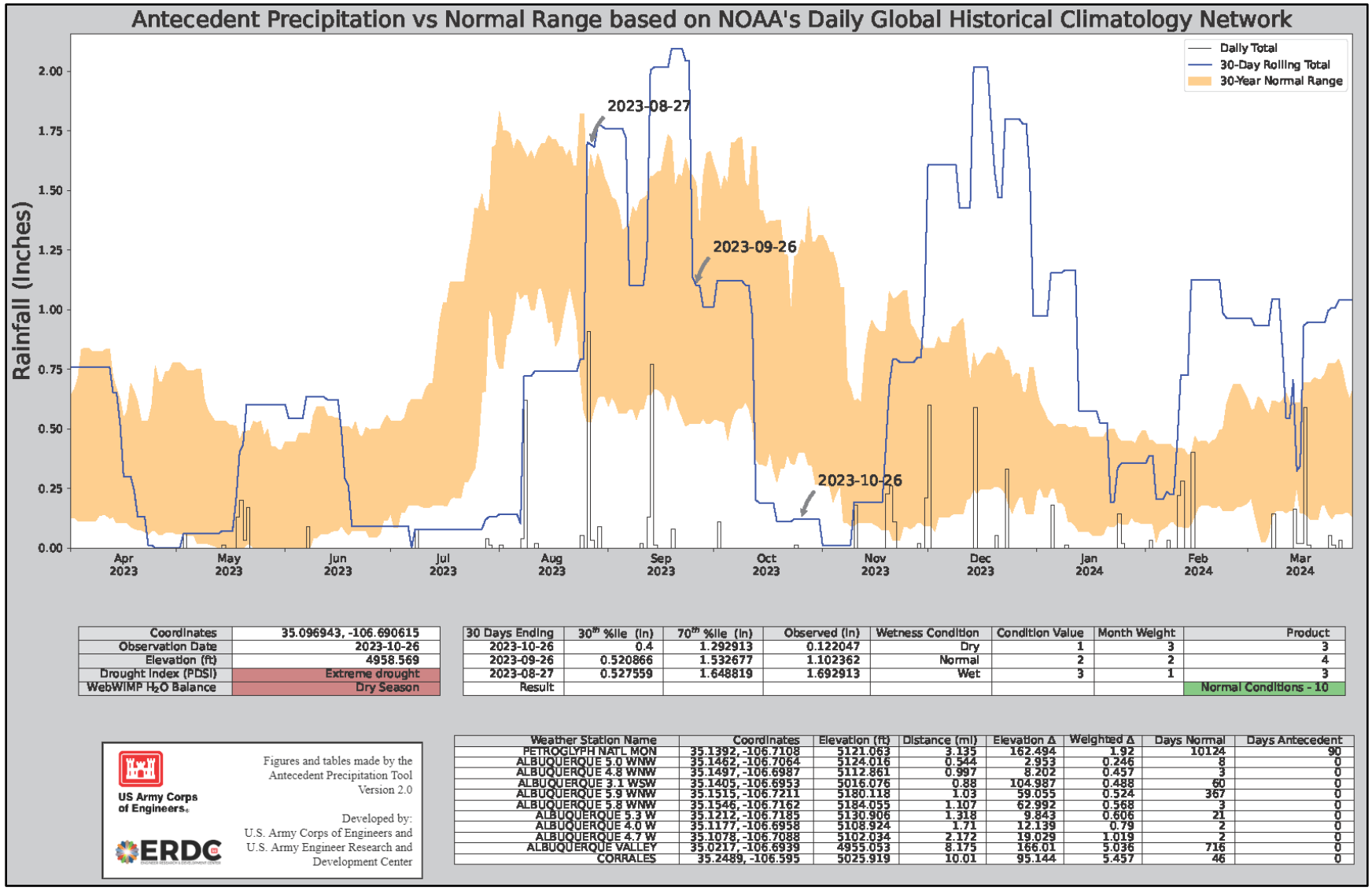
US Army Corps of Engineers

ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
PETROGLYPH NATL MON	35.1392, -106.7108	5121.063	3.135	162.494	1.92	10124	90
ALBUQUERQUE 5.0 WNW	35.1462, -106.7064	5124.016	0.544	2.953	0.246	8	0
ALBUQUERQUE 4.8 WNW	35.1497, -106.6987	5112.861	0.997	8.202	0.457	3	0
ALBUQUERQUE 3.1 WSW	35.1405, -106.6953	5016.076	0.88	104.987	0.488	60	0
ALBUQUERQUE 5.9 WNW	35.1515, -106.7211	5180.118	1.03	59.055	0.524	367	0
ALBUQUERQUE 5.8 WNW	35.1546, -106.7162	5184.055	1.107	62.992	0.568	3	0
ALBUQUERQUE 5.3 W	35.1212, -106.7185	5130.906	1.318	9.843	0.606	21	0
ALBUQUERQUE 4.0 W	35.1177, -106.6958	5108.924	1.71	12.139	0.79	2	0
ALBUQUERQUE 4.7 W	35.1078, -106.7088	5102.034	2.172	19.029	1.019	2	0
ALBUQUERQUE VALLEY	35.0217, -106.6939	4955.053	8.175	166.01	5.036	716	0
CORRALES	35.2489, -106.595	5025.919	10.01	95.144	5.457	46	0



Coordinates	35.096943, -106.690615
Observation Date	2023-10-26
Elevation (ft)	4958.569
Drought Index (PDSI)	Extreme drought
WebWIMP H_2O Balance	Dry Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-10-26	0.4	1.292913	0.122047	Dry	1	3	3
2023-09-26	0.520866	1.532677	1.102362	Normal	2	2	4
2023-08-27	0.527559	1.648819	1.692913	Wet	3	1	3
Result							Normal Conditions - 10

US Army Corps of Engineers

ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
PETROGLYPH NATL MON	35.1392, -106.7108	5121.063	3.135	162.494	1.92	10124	90
ALBUQUERQUE 5.0 WNW	35.1462, -106.7064	5124.016	0.544	2.953	0.246	8	0
ALBUQUERQUE 4.8 WNW	35.1497, -106.6987	5112.861	0.997	8.202	0.457	3	0
ALBUQUERQUE 3.1 WSW	35.1405, -106.6953	5016.076	0.88	104.987	0.488	60	0
ALBUQUERQUE 5.9 WNW	35.1515, -106.7211	5180.118	1.03	59.055	0.524	367	0
ALBUQUERQUE 5.8 WNW	35.1546, -106.7162	5184.055	1.107	62.992	0.568	3	0
ALBUQUERQUE 5.3 W	35.1212, -106.7185	5130.906	1.318	9.843	0.606	21	0
ALBUQUERQUE 4.0 W	35.1177, -106.6958	5108.924	1.71	12.139	0.79	2	0
ALBUQUERQUE 4.7 W	35.1078, -106.7088	5102.034	2.172	19.029	1.019	2	0
ALBUQUERQUE VALLEY	35.0217, -106.6939	4955.053	8.175	166.01	5.036	716	0
CORRALES	35.2489, -106.595	5025.919	10.01	95.144	5.457	46	0

APPENDIX C

Photographs



Photograph C-1. Overview of WL01, a three-parameter wetland, facing north from DP34.



Photograph C-2. Overview of WL02, a three-parameter wetland, facing south from DP32.



Photograph C-3. Overview of WL04, a three-parameter wetland, facing north from DP27.



Photograph C-4. Overview of WL04, a three-parameter wetland, facing north from DP25.



Photograph C-5. Overview of WL05, a three-parameter wetland, facing south from DP23.



Photograph C-6. Overview of WL06, a three-parameter wetland, facing west from DP20.



Photograph C-7. Overview of WL07, a three-parameter wetland, facing north from DP14.



Photograph C-8. Overview of WL08, a three-parameter wetland, facing north from DP37.



Photograph C-9. Overview of WL09, a three-parameter wetland, facing east from DP42.



Photograph C-10. Overview of WL10, a three-parameter wetland, facing north from DP40.



Photograph C-11. Overview of WL11, a three-parameter wetland area, facing north from DP 39.



Photograph C-12. Overview of WL12, a three-parameter wetland, facing north from DP12.



Photograph C-13. Overview of WL13, a three-parameter wetland, facing north from DP05.



Photograph C-14. Overview of ST01, an OHWM feature, facing upstream.



Photograph C-15. Overview of ST02, an OHWM feature, facing downstream.



Photograph C-16. Overview of Rio Grande, an OHWM feature, facing upstream.

APPENDIX D

Wetland Determination Datasheets

WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Northeast/80467-003 City/County: Bernalillo County Sampling Date: 10/26/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP34
Investigator(s): JS, NP Section, Township, Range: Sec. 01 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.1169 Long: -106.691 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: R2UB2F
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	8	Y	FAC
2. *Elaeagnus angustifolia*	8	Y	FAC
3.			
4.			
	16	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	80	Y	FACW
2. *Elaeagnus angustifolia*	15	N	FAC
3. *Fraxinus velutina*	3	N	FAC
4. *Salix gooddingii*	2	N	FACW
5.			
	100	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Cyperus odoratus*	80	Y	FACW
2. *Parthenocissus quinquefolia*	3	N	FAC
3. *Apocynum cannabinum*	2	N	FAC
4.			
5.			
6.			
7.			
8.			
	85	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0	
FACW species	162	x 2 =	324	
FAC species	39	x 3 =	117	
FACU species	0	x 4 =	0	
UPL species	0	x 5 =	0	
Column Totals:	201	(A)	441	(B)
Prevalence Index = B/A=			2.19	

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP34

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-4	7.5YR 4/3	100		0	NA	NA	Clay Loam	
4-10	7.5YR 4/4	100		0	NA	NA	Silt Loam	
10-18	10YR 5/3	100		0	NA	NA	Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Northeast City/County: Bernalillo County Sampling Date: 10/26/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP35
Investigator(s): SWCA Section, Township, Range: Sec. 12 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.1161 Long: -106.69 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes ____ No X**
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	40	Y	FAC
2. Ulmus pumila	2	N	UPL
3. Amorpha fruticosa	2	N	FACW
4.			
	44	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Pascopyrum smithii	35	Y	FAC
2. Pleuraphis jamesii	15	Y	UPL
3. Atriplex canescens	10	N	UPL
4. Setaria leucopila	5	N	UPL
5. Helianthus annuus	4	N	FACU
6. Melilotus officinalis	3	N	FACU
7. Lactuca serriola	2	N	FACU
8. Saccharum ravennae	2	N	FAC
	81	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1. Parthenocissus quinquefolia	15	Y	FAC
2.			
	15	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

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

Percent of Domant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	3	x 2 =	6
FAC species	94	x 3 =	282
FACU species	10	x 4 =	40
UPL species	33	x 5 =	165
Column Totals:	140 (A)		493 (B)
Prevalence Index = B/A=			3.52

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP35

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-18	7.5YR 4/3	100		0	NA	NA	Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks: No wetland hydrology indicators

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Northeast/80467-003 City/County: Bernalillo County Sampling Date: 10/26/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP32
Investigator(s): JS, NP Section, Township, Range: Sec. 12 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.113 Long: -106.691 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PSS1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	60	Y	FACW
2. Baccharis salicina	10	N	FACW
3. Tamarix ramosissima	5	N	UPL
4. Amorpha fruticosa	3	N	FACW
5. Parthenocissus quinquefolia	3	N	FAC
	81	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Saccharum ravennae	25	Y	FAC
2. Cyperus odoratus	3	N	FACW
3. Apocynum cannabinum	3	N	FAC
4. Sorghum halepense	3	N	FACU
5. Euthamia occidentalis	2	N	FACW
6.			
7.			
8.			
	36	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	78	x 2 =	156
FAC species	31	x 3 =	93
FACU species	3	x 4 =	12
UPL species	5	x 5 =	25
Column Totals:	117 (A)		286 (B)
Prevalence Index = B/A=			2.44

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP32

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-4	7.5YR 5/3	97	7.5YR 6/8	3	C	MP	Silt Loam	
4-18	7.5YR 6/3	100		0	NA	NA	Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
X Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks: Surface soil cracks are faint, likely due to sandy surface soil texture. Proximity to river and dense hydrophilic vegetation make this likely a wetland

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Northeast/80467-003 City/County: Bernalillo County Sampling Date: 10/26/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP36
Investigator(s): JS, NP Section, Township, Range: Sec. 12 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.111 Long: -106.691 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	25	Y	FAC
2. *Morus alba*	10	Y	FACU
3. *Elaeagnus angustifolia*	8	N	FAC
4.			
	43	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	10	Y	FACW
2. *Populus deltoides*	10	Y	FAC
3. *Ulmus pumila*	5	N	UPL
4. *Atriplex canescens*	5	N	UPL
5. *Baccharis salicina*	2	N	FACW
	32	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Pleuraphis jamesii*	25	Y	UPL
2. *Sporobolus airoides*	20	Y	FAC
3. *Bassia scoparia*	10	N	FAC
4. *Sphaeralcea incana*	5	N	UPL
5. *Salsola tragus*	5	N	FACU
6. *Muhlenbergia asperifolia*	2	N	FACW
7. *Melilotus officinalis*	2	N	FACU
8. *Solanum elaeagnifolium*	2	N	UPL
	73	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1. *Parthenocissus quinquefolia*	5	Y	FAC
2.			
	5	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
Total Number of Dominant Species Across All Strata: 7 (B)
Percent of Domant Species That Are OBL, FACW, or FAC: 71 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	14	x 2 =	28
FAC species	78	x 3 =	234
FACU species	19	x 4 =	76
UPL species	42	x 5 =	210
Column Totals:	153 (A)		548 (B)
Prevalence Index = B/A=			3.58

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
____ Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks:

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SOIL

Sampling Point: DP36

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-3	7.5YR 2.5/2	100		0	NA	NA	Silt Loam	
3-13	7.5YR 5/3	100		0	NA	NA	Loam	
13-18	7.5YR 4/3	99	7.5YR 5/8	1	C	M	Clay Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks: No wetland hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Northeast/80467-003 City/County: Bernalillo County Sampling Date: 10/26/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP33
Investigator(s): JS, NP Section, Township, Range: Sec. 12 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.113 Long: -106.691 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PSS1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	80	Y	FACW
2. Baccharis salicina	8	N	FACW
3. Morus alba	5	N	FACU
4. Elaeagnus angustifolia	3	N	FAC
5. Salix gooddingii	1	N	FACW
	97	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Euthamia occidentalis	8	Y	FACW
2. Parthenocissus quinquefolia	3	Y	FAC
3. Cyperus odoratus	3	Y	FACW
4. Apocynum cannabinum	3	Y	FAC
5. Saccharum ravennae	2	N	FAC
6.			
7.			
8.			
	19	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	100	x 2 =	200
FAC species	11	x 3 =	33
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	116 (A)		253 (B)
Prevalence Index = B/A=			2.18

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP33

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-4	7.5YR 4/3	100		0	NA	NA	Clay Loam	
4-10	7.5YR 4/4	100		0	NA	NA	Silt Loam	
10-18	10YR 5/3	100		0	NA	NA	Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Northeast/80467-003 City/County: Bernalillo County Sampling Date: 10/26/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP31
Investigator(s): JS, NP Section, Township, Range: Sec. 12 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.1086 Long: -106.691 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes ____ No X**
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	40	Y	FAC
2. *Ulmus pumila*	10	N	UPL
3. *Tamarix ramosissima*	2	N	UPL
4. *Elaeagnus angustifolia*	2	N	FAC
	54	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Forestiera pubescens*	25	Y	FACU
2. *Elaeagnus angustifolia*	15	Y	FAC
3. *Salix gooddingii*	5	N	FACW
4. *Ulmus pumila*	3	N	UPL
5. *Morus alba*	2	N	FACU
	53	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Bassia scoparia*	15	Y	FAC
2. *Sphaeralcea incana*	10	Y	UPL
3. *Oenothera curtiflora*	8	N	FACU
4. *Melilotus officinalis*	8	N	FACU
5. *Salsola tragus*	3	N	FACU
6. *Sporobolus cryptandrus*	1	N	FACU
7.			
8.			
	45	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1. *Parthenocissus quinquefolia*	5	Y	FAC
2.			
	5	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Domant Species That Are OBL, FACW, or FAC: 67 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	5	x 2 =	10
FAC species	77	x 3 =	231
FACU species	49	x 4 =	196
UPL species	26	x 5 =	130
Column Totals:	157 (A)		567 (B)
Prevalence Index = B/A=			3.61

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
____ Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP31

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-6	7.5YR 4/3	100		0	NA	NA	Clay Loam	
6-18	10YR 5/3	100		0	NA	NA	Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No Wetland hydrology Indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Northeast/80467-003 City/County: Bernalillo County Sampling Date: 10/26/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP30
Investigator(s): JS, NP Section, Township, Range: Sec. 12 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.1067 Long: -106.692 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: R2UB2F
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	20	Y	FAC
2.			
3.			
4.			
	20	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	30	Y	FACW
2. *Salix gooddingii*	2	N	FACW
3. *Populus deltoides*	2	N	FAC
4.			
5.			
	34	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Echinochloa crus-galli*	45	Y	FACW
2. *Cynodon dactylon*	20	Y	FACU
3. *Muhlenbergia asperifolia*	10	N	FACW
4. *Cyperus odoratus*	5	N	FACW
5. *Euthamia occidentalis*	3	N	FACW
6.			
7.			
8.			
	83	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

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

Percent of Domant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	95	x 2 =	190
FAC species	22	x 3 =	66
FACU species	20	x 4 =	80
UPL species	0	x 5 =	0
Column Totals:	137 (A)		336 (B)
Prevalence Index = B/A=			2.45

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP30

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-4	7.5YR 4/3	97	7.5YR 6/8	3	NA	NA	Clay Loam	
4-18	7.5YR 2.5/3	100		0	NA	NA	Silty Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
X Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches):
Water Table Present? Yes ___ No X Depth (inches):
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches):

Wetland Hydrology Present? Yes X No ___

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

Remarks:

US Army Corps of Engineers Arid West – Version 2.0

WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Southeast/80467-003 City/County: Bernalillo County Sampling Date: 10/25/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP28
Investigator(s): JS, NP, EH Section, Township, Range: Sec. 12 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.1053 Long: -106.692 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes:	X	No:	
Hydric Soil Present?	Yes:		No:	X
Wetland Hydrology Present?	Yes:		No:	X

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	10	Y	FAC
2. Ulmus pumila	8	Y	UPL
3. Tamarix ramosissima	5	N	UPL
4. Salix gooddingii	5	N	FACW
	31	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Atriplex canescens	25	Y	UPL
2. Amorpha fruticosa	12	Y	FACW
3. Salix exigua	8	N	FACW
4. Ulmus pumila	3	N	UPL
5.			
	48	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Muhlenbergia asperifolia	35	Y	FACW
2. Salsola tragus	10	N	FACU
3. Sporobolus cryptandrus	5	N	FACU
4. Lactuca serriola	3	N	FACU
5. Parthenocissus quinquefolia	2	N	FAC
6. Dimorphocarpa wislizeni	2	N	UPL
7. Sphaeralcea incana	1	N	UPL
8. Datura stramonium	1	N	UPL
	59	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 60 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	60	x 2 =	120
FAC species	15	x 3 =	45
FACU species	18	x 4 =	72
UPL species	45	x 5 =	225
Column Totals:	138 (A)		462 (B)
Prevalence Index = B/A=			3.35

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

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SOIL

Sampling Point: DP28

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-6	10YR 3/2	100		0	NA	NA	Loamy Sand	
6-18	10YR 4/3	100		0	NA	NA	Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Southeast City/County: Bernalillo County Sampling Date: 10/25/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP26
Investigator(s): SWCA Section, Township, Range: Sec. 11 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.1048 Long: -106.693 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	50	Y	FACW
2. Baccharis salicina	5	N	FACW
3. Tamarix ramosissima	3	N	UPL
4. Elaeagnus angustifolia	1	N	FAC
5.			
	59	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Cyperus odoratus	40	Y	FACW
2. Cynodon dactylon	30	Y	FACU
3. Saccharum ravennae	27	Y	FAC
4. Euthamia occidentalis	20	N	FACW
5. Panicum virgatum	15	N	FACW
6. Echinochloa crus-galli	3	N	FACW
7. Apocynum cannabinum	3	N	FAC
8. Machaeranthera tanacetifolia	2	N	UPL
	140	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

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

Percent of Domant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	133	x 2 =	266
FAC species	31	x 3 =	93
FACU species	30	x 4 =	120
UPL species	5	x 5 =	25
Column Totals:	199 (A)		504 (B)
Prevalence Index = B/A=			2.53

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ___**

Remarks:

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SOIL

Sampling Point: DP26

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-5	7.5YR 3/2	97	10YR 6/6	3	C	MP	Loam	
5-11	7.5YR 4/3	95	10YR 5/6	5	C	M	Clay Loam	
11-18	7.5YR 4/2	99	7.5YR 5/8	1	C	M	Clay Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Southeast/80467-003 City/County: Bernalillo County Sampling Date: 10/25/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP27
Investigator(s): JS, NP, EH Section, Township, Range: Sec. 11 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.104 Long: -106.693 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Tamarix ramosissima*	10	Y	UPL
2. *Ulmus pumila*	3	Y	UPL
3. *Euphorbia prostrata*	1	N	FACU
4.			
	14	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	50	Y	FACW
2. *Baccharis salicina*	10	N	FACW
3. *Cyperus odoratus*	3	N	FACW
4. *Populus deltoides*	3	N	FAC
5. *Verbena bracteata*	1	N	FAC
	67	=Total Cover	
Herb Stratum: (Plot size: 30)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	0	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	63	x 2 =	126
FAC species	4	x 3 =	12
FACU species	1	x 4 =	4
UPL species	13	x 5 =	65
Column Totals:	81 (A)		207 (B)
Prevalence Index = B/A=			2.56

Hydrophytic Vegetation Indicators:

____ Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

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SOIL

Sampling Point: DP27

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-5	10YR 4/4	0	10YR 7/8	2	C	M	Clay Loam	
5-18	10YR 3/6	0		0	NA	NA	Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks:

US Army Corps of Engineers

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Southeast/80467-003 City/County: Bernalillo County Sampling Date: 10/25/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP25
Investigator(s): JS, NP, EH Section, Township, Range: Sec. 11 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.1033 Long: -106.694 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PSS1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Fraxinus velutina*	15	Y	FAC
2. *Elaeagnus angustifolia*	10	Y	FAC
3.			
4.			
	25	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	60	Y	FACW
2. *Fraxinus velutina*	10	N	FAC
3. *Populus deltoides*	5	N	FAC
4. *Tamarix ramosissima*	2	N	UPL
5.			
	77	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Cyperus odoratus*	20	Y	FACW
2. *Saccharum ravennae*	15	Y	FAC
3. *Euthamia occidentalis*	5	N	FACW
4. *Sorghum halepense*	2	N	FACU
5.			
6.			
7.			
8.			
	42	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

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

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0	
FACW species	85	x 2 =	170	
FAC species	55	x 3 =	165	
FACU species	2	x 4 =	8	
UPL species	2	x 5 =	10	
Column Totals:	144	(A)	353	(B)
Prevalence Index = B/A=			2.45	

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ___**

Remarks:

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SOIL

Sampling Point: DP25

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-3	10YR 4/3	90	7.5YR 6/8	10	C		Loam	
3-9	10YR 3/4	100		0	NA	NA	Clay Loam	
9-18	10YR 4/3	0		0	NA	NA	Silt Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Southeast City/County: Bernalillo County Sampling Date: 10/25/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP29
Investigator(s): JS, NP, EH Section, Township, Range: Sec. 12 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.102 Long: -106.692 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: ____	No: X	**Is the Sampled Area within a Wetland?**	**Yes ____ No X**
Hydric Soil Present?	Yes: ____	No: X		
Wetland Hydrology Present?	Yes: ____	No: X		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	25	Y	FAC
2. *Morus alba*	15	Y	FACU
3. *Elaeagnus angustifolia*	5	N	FAC
4.			
	45	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Tamarix ramosissima*	10	Y	UPL
2.			
3.			
4.			
5.			
	10	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Sporobolus cryptandrus*	30	Y	FACU
2. *Salsola tragus*	15	Y	FACU
3. *Melilotus officinalis*	1	N	FACU
4. *Sphaeralcea incana*	1	N	UPL
5. *Amorpha fruticosa*	1	N	FACW
6.			
7.			
8.			
	48	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 20 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	1	x 2 =	2
FAC species	30	x 3 =	90
FACU species	61	x 4 =	244
UPL species	11	x 5 =	55
Column Totals:	103 (A)		391 (B)
Prevalence Index = B/A=			3.80

Hydrophytic Vegetation Indicators:

____ Dominance Test is >50%
____ Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes ____ No X**

Remarks:

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SOIL

Sampling Point: DP29

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-3	7.5YR 4/3	100		0	NA	NA	Sandy Loam	
3-18	7.5YR 5/3	100		0	NA	NA	Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No wetland hydrology indicators observed.

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: I-40 Southeast/80467-003 City/County: Bernalillo County Sampling Date: 10/25/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP24
Investigator(s): JS, NP, EH Section, Township, Range: Sec. 14 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.1018 Long: -106.693 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PSS1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Elaeagnus angustifolia*	15	Y	FAC
2.			
3.			
4.			
	15	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	50	Y	FACW
2. *Populus deltoides*	5	N	FAC
3. *Tamarix ramosissima*	3	N	UPL
4. *Morus alba*	3	N	FACU
5. *Amorpha fruticosa*	3	N	FACW
	71	=Total Cover	
Herb Stratum: (Plot size: 30)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	0	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	56	x 2 =	112
FAC species	24	x 3 =	72
FACU species	3	x 4 =	12
UPL species	3	x 5 =	15
Column Totals:	86 (A)		211 (B)
Prevalence Index = B/A=			2.45

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ___**

Remarks:

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SOIL

Sampling Point: DP24

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-4	7.5YR 2.5/3	100		0	NA	NA	Clay Loam	
4-12	7.5YR 4/3	100		0	NA	NA	Loam	
12-18	7.5YR 4/3	100		0	NA	NA	Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: North Central | City/County: Bernalillo County | Sampling Date: 10/24/2023
Applicant/Owner: NMISC | State: NM | Sampling Point: DP20
Investigator(s): SWCA | Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain | Local relief (concave, convex, none): Concave | Slope (%): <3%
Subregion (LRR): LRR D | Lat: 35.0999 | Long: -106.692 | Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded | NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Elaeagnus angustifolia	25	Y	FAC
2.			
3.			
4.			
	25	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	40	Y	FACW
2. Elaeagnus angustifolia	5	N	FAC
3. Tamarix ramosissima	3	N	UPL
4. Morus alba	3	N	FACU
5.			
	51	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Cyperus odoratus	20	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	20	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	60	x 2 =	120
FAC species	30	x 3 =	90
FACU species	3	x 4 =	12
UPL species	3	x 5 =	15
Column Totals:	96 (A)		237 (B)
Prevalence Index = B/A=			2.47

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP20

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-1		0		0			None Observed	Leaf litter
1-7	7.5YR 3/2	0		0	NA	NA	Silty Clay Loam	
7-18	10YR 5/4	92	7.5YR 5/8	8	C		Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** X **No** ___

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

Remarks:

US Army Corps of Engineers

Arid West – Version 2.0

WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central North/80467-003 City/County: Bernalillo County Sampling Date: 10/24/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP23
Investigator(s): JS, NP, EH, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.0995 Long: -106.692 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: PSS1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Landscape form and position, wetland vegetation and hydrology indicate wetland habitat. Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Elaeagnus angustifolia	15	Y	FAC
2. Ulmus pumila	3	N	UPL
3.			
4.			
	18	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	35	Y	FACW
2. Populus deltoides	10	Y	FAC
3. Ulmus pumila	5	N	UPL
4.			
5.			
	50	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Saccharum ravennae	5	Y	FAC
2. Oenothera curtiflora	3	Y	FACU
3. Asclepias subverticillata	3	Y	FACU
4. Helianthus annuus	3	Y	FACU
5. Xanthium strumarium	3	Y	FAC
6. Asparagus officinalis	2	N	FACU
7. Elymus canadensis	2	N	FAC
8. Echinochloa crus-galli	1	N	FACW
	23	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 63 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	36	x 2 =	72
FAC species	36	x 3 =	108
FACU species	11	x 4 =	44
UPL species	8	x 5 =	40
Column Totals:	91 (A)		264 (B)
Prevalence Index = B/A=			2.90

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

US Army Corps of Engineers Arid West – Version 2.0

SOIL

Sampling Point: DP23

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-9	7.5YR 4/2	100		0			Loam	
9-18	7.5YR 4/2	100		0			Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
X Drift Deposits (B3) (**Nonriverine**)
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks:

US Army Corps of Engineers

Arid West – Version 2.0

WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central North/80467-003 City/County: Bernalillo County Sampling Date: 10/24/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP21
Investigator(s): JS, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.0986 Long: -106.692 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: PSS1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation ____, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Due to landscape position, presence of hydrology and wetland veg, this is a wetland. Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	45	Y	FAC
2. *Elaeagnus angustifolia*	20	Y	FAC
3.			
4.			
	65	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	50	Y	FACW
2. *Elaeagnus angustifolia*	30	Y	FAC
3. *Ulmus pumila*	10	N	UPL
4. *Forestiera pubescens*	5	N	FACU
5.			
	95	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Ambrosia psilostachya*	25	Y	FACU
2. *Muhlenbergia asperifolia*	5	N	FACW
3. *Elymus trachycaulus*	5	N	FACU
4. *Saccharum ravennae*	2	N	FAC
5. *Helianthus annuus*	1	N	FACU
6. *Asclepias subverticillata*	1	N	FACU
7. *Equisetum laevigatum*	1	N	FACW
8.			
	40	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 80 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	56	x 2 =	112
FAC species	97	x 3 =	291
FACU species	37	x 4 =	148
UPL species	10	x 5 =	50
Column Totals:	200 (A)		601 (B)
Prevalence Index = B/A=			3.00

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

US Army Corps of Engineers Arid West – Version 2.0

SOIL

Sampling Point: DP21

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-9	7.5YR 4/2	100		0			Loam	
9-18	7.5YR 4/2	100		0			Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
X Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central North/80467-003 City/County: Bernalillo County Sampling Date: 10/24/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP22
Investigator(s): JS, NP, EH, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.0986 Long: -106.692 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: PSS1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: ____	No: X	**Is the Sampled Area within a Wetland?**	**Yes ____ No X**
Hydric Soil Present?	Yes: ____	No: X		
Wetland Hydrology Present?	Yes: ____	No: X		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Ulmus pumila	5	Y	UPL
2. Elaeagnus angustifolia	5	Y	FAC
3.			
4.			
	10	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	15	Y	FACW
2. Atriplex canescens	10	Y	UPL
3. Tamarix ramosissima	7	N	UPL
4. Populus deltoides	3	N	FAC
5. Ulmus pumila	3	N	UPL
	38	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Salsola tragus	35	Y	FACU
2. Sporobolus cryptandrus	30	Y	FACU
3. Machaeranthera tanacetifolia	20	Y	UPL
4. Oenothera curtiflora	2	N	FACU
5.			
6.			
7.			
8.			
	87	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 29 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	15	x 2 =	30
FAC species	8	x 3 =	24
FACU species	67	x 4 =	268
UPL species	45	x 5 =	225
Column Totals:	135 (A)		547 (B)
Prevalence Index = B/A=			4.05

Hydrophytic Vegetation Indicators:

____ Dominance Test is >50%
____ Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes ____ No X**

Remarks: Vegetation did not pass the dominance or prevalence tests

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SOIL

Sampling Point: DP22

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-18	7.5YR 4/3	100		0	NA	NA	Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks: No wetland hydrology indicators

US Army Corps of Engineers — Arid West – Version 2.0

WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: North Central City/County: Bernalillo County Sampling Date: 10/24/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP19
Investigator(s): SWCA Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <2
Subregion (LRR): LRR D Lat: 35.0982 Long: -106.69 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes:		No:	X
Hydric Soil Present?	Yes:		No:	X
Wetland Hydrology Present?	Yes:		No:	X

Is the Sampled Area within a Wetland? Yes _____ No X

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	30	Y	FAC
2. Elaeagnus angustifolia	1	N	FAC
3.			
4.			
	31	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Tamarix ramosissima	10	Y	UPL
2. Ulmus pumila	2	N	UPL
3.			
4.			
5.			
	12	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Salsola tragus	35	Y	FACU
2. Solanum elaeagnifolium	15	Y	UPL
3. Verbascum thapsus	5	N	FACU
4. Sporobolus airoides	3	N	FAC
5. Lactuca serriola	1	N	FACU
6.			
7.			
8.			
	59	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

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

Percent of Domant Species That Are OBL, FACW, or FAC: 25 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	34	x 3 =	102
FACU species	41	x 4 =	164
UPL species	27	x 5 =	135
Column Totals:	102 (A)		401 (B)
Prevalence Index = B/A=			3.93

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%
___ Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ___ No X

Remarks: Vegetation did not pass the dominance test

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SOIL

Sampling Point: DP19

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-3	10YR 3/2	100		0	NA	NA	Loam	
3-11	7.5YR 4/3	98	10YR 5/8	2	C	M	Loam	
11-18	7.5YR 4/4	100		0	NA	NA	Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No hydrology Indicators present

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central North/80467-003 City/County: Bernalillo County Sampling Date: 10/24/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP17
Investigator(s): JS, NP, EH, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.098 Long: -106.691 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Elaeagnus angustifolia*	25	Y	FAC
2. *Ulmus pumila*	5	N	UPL
3.			
4.			
	30	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Populus deltoides*	7	Y	FAC
2. *Salix exigua*	5	Y	FACW
3. *Amorpha fruticosa*	3	Y	FACW
4.			
5.			
	15	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Cenchrus spinifex*	30	Y	UPL
2. *Muhlenbergia asperifolia*	10	Y	FACW
3. *Saccharum ravennae*	3	N	FAC
4. *Salsola tragus*	3	N	FACU
5. *Helianthus annuus*	2	N	FACU
6. *Xanthium strumarium*	1	N	FAC
7. *Operculina pinnatifida*	1	N	UPL
8.			
	50	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 83 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	18	x 2 =	36
FAC species	36	x 3 =	108
FACU species	5	x 4 =	20
UPL species	36	x 5 =	180
Column Totals:	95 (A)		344 (B)

Prevalence Index = B/A= 3.62

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks:

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SOIL

Sampling Point: DP17

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-2	10YR 4/3	99	10YR 6/8	1	C	MP	Clay Loam	
2-8	10YR 5/3	100		0	NA	NA	Loam	
8-18	10YR 8/3	100		0	NA	NA	Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydrology indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central North/80467-003 City/County: Bernalillo County Sampling Date: 10/24/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP16
Investigator(s): JS, NP, EH, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.0978 Long: -106.691 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: ____	No: X	**Is the Sampled Area within a Wetland?**	**Yes ____ No X**
Hydric Soil Present?	Yes: ____	No: X		
Wetland Hydrology Present?	Yes: ____	No: X		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	70	Y	FAC
2. Elaeagnus angustifolia	10	N	FAC
3. Ulmus pumila	5	N	UPL
4.			
	85	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Ulmus pumila	35	Y	UPL
2. Ailanthus altissima	2	N	FACU
3.			
4.			
5.			
	37	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Salsola tragus	25	Y	FACU
2. Bassia scoparia	20	Y	FAC
3. Apocynum cannabinum	1	N	FAC
4. Ambrosia psilostachya	1	N	FACU
5.			
6.			
7.			
8.			
	47	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

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

Percent of Domant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	101	x 3 =	303
FACU species	28	x 4 =	112
UPL species	40	x 5 =	200
Column Totals:	169 (A)		615 (B)
Prevalence Index = B/A=			3.64

Hydrophytic Vegetation Indicators:

____ Dominance Test is >50%
____ Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes ____ No X**

Remarks: Vegetation did not pass the dominance or prevalence tests

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SOIL

Sampling Point: DP16

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-7	10YR 4/3	100		0			Clay Loam	
7-11	10YR 4/4	100		0			Silty Clay Loam	
11-18	10YR 7/4	98	10YR 6/8	2			Silt Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No hydrology indicators observed.

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central North City/County: Bernalillo County Sampling Date: 10/24/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP18
Investigator(s): JS, NP, EH, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): None Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.0976 Long: -106.692 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Elaeagnus angustifolia	25	Y	FAC
2. Populus deltoides	10	Y	FAC
3. Juniperus monosperma	3	N	UPL
4. Salix gooddingii	3	N	FACW
	41	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix gooddingii	5	Y	FACW
2. Elaeagnus angustifolia	5	Y	FAC
3. Populus deltoides	3	N	FAC
4. Tamarix ramosissima	3	N	UPL
5.			
	16	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Muhlenbergia asperifolia	70	Y	FACW
2. Salsola tragus	30	Y	FACU
3. Solanum elaeagnifolium	15	N	UPL
4. Oenothera curtiflora	5	N	FACU
5. Sporobolus airoides	3	N	FAC
6. Sphaeralcea incana	3	N	UPL
7. Ambrosia psilostachya	1	N	FACU
8. Dieteria bigelovii	1	N	FACW
	128	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 83 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	79	x 2 =	158
FAC species	46	x 3 =	138
FACU species	36	x 4 =	144
UPL species	24	x 5 =	120
Column Totals:	185 (A)		560 (B)
Prevalence Index = B/A=			3.03

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks:

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SOIL

Sampling Point: DP18

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-14	10YR 3/3	100		0	NA	NA	Loam	
14-18	10YR 4/2	95	7.5YR 5/8	5	C		Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Atrisco City/County: Bernalillo County Sampling Date: 10/27/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP37
Investigator(s): SWCA Section, Township, Range: Sec. 14 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.0973 Long: -106.693 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: R2UB2F
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Elaeagnus angustifolia*	15	Y	FAC
2. *Ulmus pumila*	4	N	UPL
3. *Salix gooddingii*	3	N	FACW
4.			
	22	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	30	Y	FACW
2. *Populus deltoides*	10	N	FAC
3. *Tamarix ramosissima*	5	N	UPL
4. *Elaeagnus angustifolia*	5	N	FAC
5. *Salix gooddingii*	2	N	FACW
	52	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Cynodon dactylon*	30	Y	FACU
2. *Cyperus odoratus*	30	Y	FACW
3. *Echinochloa crus-galli*	10	N	FACW
4. *Xanthium strumarium*	10	N	FAC
5. *Schoenoplectus pungens*	8	N	OBL
6. *Leersia oryzoides*	5	N	OBL
7. *Sorghum halepense*	2	N	FACU
8. *Euthamia occidentalis*	2	N	FACW
	98	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

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

Percent of Domant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	13	x 1 =	13
FACW species	77	x 2 =	154
FAC species	40	x 3 =	120
FACU species	33	x 4 =	132
UPL species	9	x 5 =	45
Column Totals:	172 (A)		464 (B)
Prevalence Index = B/A=			2.70

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ___**

Remarks:

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SOIL

Sampling Point: DP37

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-6	7.5YR 4/6	90	7.5YR 5/6	10			Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes _X_ No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
_X_ Drift Deposits (B3) (**Nonriverine**)
_X_ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No _X_ Depth (inches):
Water Table Present? Yes ___ No _X_ Depth (inches):
Saturation Present? (includes capillary fringe) Yes ___ No _X_ Depth (inches):

Wetland Hydrology Present? Yes _X_ No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central North City/County: Bernalillo County Sampling Date: 10/24/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP15
Investigator(s): JS, NP, EH, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.0968 Long: -106.69 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: No hydric soil indicatoes, but due to landscape position, hydrology, and hydrophytic veg a wetland is present. Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	35	Y	FACW
2. Morus alba	10	Y	FACU
3.			
4.			
5.			
	45	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Saccharum ravennae	2	Y	FAC
2. Euthamia occidentalis	1	Y	FACW
3. Apocynum cannabinum	1	Y	FAC
4. Cyperus odoratus	1	Y	FACW
5. Muhlenbergia asperifolia	1	Y	FACW
6.			
7.			
8.			
	6	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 86 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	38	x 2 =	76
FAC species	3	x 3 =	9
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column Totals:	51 (A)		125 (B)
Prevalence Index = B/A=			2.45

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

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SOIL

Sampling Point: DP15

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-8	7.5YR 4/3	100		0			Clay Loam	
8-18	7.5YR 2.5/2	100		0			Clay Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Atrisco City/County: Bernalillo County Sampling Date: 10/27/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP38
Investigator(s): JS, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.096367 Long: -106.692343 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes ____ No X**
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Gleditsia triacanthos	20	Y	FAC
2. Populus deltoides	5	N	FAC
3. Ulmus pumila	2	N	UPL
4.			
	27	=Total Cover	

Sapling/Shrub Stratum: (Plot size: 30)			
1. Ulmus pumila	5	Y	UPL
2. Salix exigua	4	Y	FACW
3. Opuntia engelmannii	2	N	UPL
4.			
5.			
	11	=Total Cover	

Herb Stratum: (Plot size: 30)			
1. Muhlenbergia asperifolia	40	Y	FACW
2. Sporobolus cryptandrus	35	Y	FACU
3. Sphaeralcea incana	3	N	UPL
4. Solanum elaeagnifolium	3	N	UPL
5. Sporobolus airoides	2	N	FAC
6. Melilotus officinalis	2	N	FACU
7.			
8.			
	85	=Total Cover	

Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 60 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	44	x 2 =	88
FAC species	27	x 3 =	81
FACU species	37	x 4 =	148
UPL species	15	x 5 =	75
Column Totals:	123 (A)		392 (B)
Prevalence Index = B/A=			3.19

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades.

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SOIL

Sampling Point: DP38

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-18	7.5YR 4/3	100		0	NA	NA	Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks: No wetland hydrology present

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central North | City/County: Bernalillo County | Sampling Date: 10/24/2023
Applicant/Owner: NMISC | State: NM | Sampling Point: DP14
Investigator(s): JS, NP, EH, NP | Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain | Local relief (concave, convex, none): None | Slope (%): <3%
Subregion (LRR): LRR D | Lat: 35.0962 | Long: -106.689 | Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded | NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Elaeagnus angustifolia*	10	Y	FAC
2.			
3.			
4.			
	10	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	50	Y	FACW
2. *Elaeagnus angustifolia*	15	Y	FAC
3. *Salix gooddingii*	5	N	FACW
4. *Baccharis salicina*	2	N	FACW
5.			
	72	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Cyperus odoratus*	40	Y	FACW
2. *Saccharum ravennae*	10	N	FAC
3. *Apocynum cannabinum*	5	N	FAC
4. *Euthamia occidentalis*	4	N	FACW
5. *Parthenocissus quinquefolia*	2	N	FAC
6. *Equisetum laevigatum*	1	N	FACW
7.			
8.			
	62	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Domant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	102	x 2 =	204
FAC species	42	x 3 =	126
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	144 (A)		330 (B)
Prevalence Index = B/A=			2.29

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

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SOIL

Sampling Point: DP14

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-18	7.5YR 3/2	95	10YR 5/6	5	C	M	Silty Clay Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: 0

Depth (inches): 0

Hydric Soil Present? Yes X No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- X Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- X Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

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

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

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

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Atrisco City/County: Bernalillo County Sampling Date: 10/27/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP43
Investigator(s): JS, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.095 Long: -106.691 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes:		No:	X
Hydric Soil Present?	Yes:		No:	X
Wetland Hydrology Present?	Yes:		No:	X

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	60	Y	FAC
2. Morus alba	30	Y	FACU
3. Elaeagnus angustifolia	10	N	FAC
4. Salix gooddingii	7	N	FACW
	107	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Ulmus pumila	10	Y	UPL
2. Tamarix ramosissima	8	Y	UPL
3. Opuntia engelmannii	3	N	UPL
4. Ribes aureum	2	N	FAC
5.			
	23	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Melilotus officinalis	12	Y	FACU
2. Sphaeralcea incana	10	Y	UPL
3. Sporobolus airoides	4	N	FAC
4. Achnatherum hymenoides	3	N	UPL
5. Sporobolus cryptandrus	3	N	FACU
6. Bassia scoparia	1	N	FAC
7. Ambrosia psilostachya	1	N	FACU
8. Machaeranthera tanacetifolia	1	N	UPL
	35	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 17 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	7	x 2 =	14
FAC species	77	x 3 =	231
FACU species	46	x 4 =	184
UPL species	35	x 5 =	175
Column Totals:	165 (A)		604 (B)
Prevalence Index = B/A=			3.66

Hydrophytic Vegetation Indicators:

____ Dominance Test is >50%
____ Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: Vegetation did not pass the dominance or prevalence tests

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SOIL

Sampling Point: DP43

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-5	7.5YR 2.5/2	100		0	NA	NA	Loam	
5-18	7.5YR 4/3	100		0	NA	NA	Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Atrisco City/County: Bernalillo County Sampling Date: 10/27/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP42
Investigator(s): JS, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.095 Long: -106.692 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Elaeagnus angustifolia*	12	Y	FAC
2.			
3.			
4.			
	12	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	80	Y	FACW
2. *Populus deltoides*	3	N	FAC
3. *Tamarix ramosissima*	2	N	UPL
4. *Salix gooddingii*	2	N	FACW
5. *Amorpha fruticosa*	2	N	FACW
	89	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Cyperus odoratus*	15	Y	FACW
2. *Schoenoplectus pungens*	10	Y	OBL
3. *Euthamia occidentalis*	8	Y	FACW
4. *Saccharum ravennae*	1	N	FAC
5.			
6.			
7.			
8.			
	34	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	10	x 1 =	10
FACW species	107	x 2 =	214
FAC species	16	x 3 =	48
FACU species	0	x 4 =	0
UPL species	2	x 5 =	10
Column Totals:	135 (A)		282 (B)
Prevalence Index = B/A=			2.09

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ___**

Remarks:

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SOIL

Sampling Point: DP42

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-14	7.5YR 4/3	99	7.5YR 6/8	1	C	M	Sandy Loam	
14-15	7.5YR 2.5/1	100		0	NA	NA	Sandy Loam	Hydrogen sulfide
15-18	7.5YR 4/1	100		0	NA	NA	Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Atrisco City/County: Bernalillo County Sampling Date: 10/27/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP40
Investigator(s): JS, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.0935 Long: -106.69 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Site appears to have been disturbed recently. Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	40	Y	FACW
2. Populus deltoides	6	N	FAC
3.			
4.			
5.			
	46	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Plantago lanceolata	60	Y	FAC
2. Xanthium strumarium	60	Y	FAC
3. Muhlenbergia asperifolia	60	Y	FACW
4.			
5.			
6.			
7.			
8.			
	180	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

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

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	100	x 2 =	200
FAC species	126	x 3 =	378
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	226 (A)		578 (B)
Prevalence Index = B/A=			2.56

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP40

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-10	7.5YR 2.5/2	95	7.5YR 5/8	5	C	M	Loam	
10-20	10YR 5/3	100		0	NA	NA	Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Atrisco City/County: Bernalillo County Sampling Date: 10/27/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP41
Investigator(s): JS, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.0937 Long: -106.689 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes ____ No X**
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	65	Y	FAC
2. Elaeagnus angustifolia	10	N	FAC
3. Tamarix ramosissima	8	N	UPL
4. Ulmus pumila	5	N	UPL
	88	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Elaeagnus angustifolia	45	Y	FAC
2. Ulmus pumila	8	N	UPL
3.			
4.			
5.			
	53	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Muhlenbergia asperifolia	25	Y	FACW
2. Sporobolus wrightii	10	Y	FAC
3. Sporobolus cryptandrus	10	Y	FACU
4. Elymus elymoides	5	N	FACU
5. Sporobolus airoides	4	N	FAC
6. Oenothera curtiflora	3	N	FACU
7. Bassia scoparia	2	N	FAC
8. Equisetum hyemale	1	N	FACW
	62	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 80 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	26	x 2 =	52
FAC species	136	x 3 =	408
FACU species	20	x 4 =	80
UPL species	21	x 5 =	105
Column Totals:	203 (A)		645 (B)
Prevalence Index = B/A=			3.18

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP41

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-9	7.5YR 2.5/2	100		0	NA	NA	Clay Loam	
9-18	10YR 5/3	100		0	NA	NA	Loamy Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central/80467-003 City/County: Bernalillo County Sampling Date: 09/19/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP09
Investigator(s): SWCA Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.093205 Long: -106.684907 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes** _____ **No** X
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however moderate public use of formal and informal trails, artificial fishing ponds, and mitigation of invasive plant species may have contributed to soil and vegetation degradation at the site. Specifically the location has had prior restoration work including vegetation mastication or removal. Prior activities at the site may have contributed to soil disturbances as well. The extent of soil disturbance overtime is unclear; however, anthropogenic alteration to wetland soils can result in degradation of the organic horizon and reduction of microbial biodiversity. In turn, the ecological stability of wetland soil and plant communities may be reduced.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	20	Y	FAC
2. Salix gooddingii	5	Y	FACW
3.			
4.			
	25	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	3	Y	FACW
2. Salix gooddingii	3	Y	FACW
3.			
4.			
5.			
	6	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Sporobolus cryptandrus	20	Y	FACU
2. Salsola tragus	2	N	FACU
3. Elymus elymoides	1	N	FACU
4. Bassia scoparia	1	N	FAC
5. Helianthus annuus	1	N	FACU
6.			
7.			
8.			
	25	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 80 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	11	x 2 =	22
FAC species	21	x 3 =	63
FACU species	24	x 4 =	96
UPL species	0	x 5 =	0
Column Totals:	56 (A)		181 (B)
Prevalence Index = B/A=			3.23

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: Gooddings willow may be planted

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SOIL

Sampling Point: DP09

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-18	10YR 6/3	100		0			Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Atrisco City/County: Bernalillo County Sampling Date: 10/27/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP39
Investigator(s): JS, NP Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.093 Long: -106.688 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades. Drier than normal climactic conditions according to ATP.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Elaeagnus angustifolia*	30	Y	FAC
2. *Ulmus pumila*	10	Y	UPL
3.			
4.			
	40	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Salix exigua*	70	Y	FACW
2. *Populus deltoides*	2	N	FAC
3. *Tamarix ramosissima*	1	N	UPL
4.			
5.			
	73	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Cyperus odoratus*	35	Y	FACW
2. *Saccharum ravennae*	20	Y	FAC
3. *Euthamia occidentalis*	3	N	FACW
4.			
5.			
6.			
7.			
8.			
	58	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 80 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	108	x 2 =	216
FAC species	52	x 3 =	156
FACU species	0	x 4 =	0
UPL species	11	x 5 =	55
Column Totals:	171 (A)		427 (B)
Prevalence Index = B/A=			2.50

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP39

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-10	7.5YR 4/3	99	7.5YR 6/8	1	C	M	Loam	
10-18	7.5YR 5/3	100		0	NA	NA	Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

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

Remarks: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators.

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central/80467-003 City/County: Bernalillo County Sampling Date: 09/19/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP10
Investigator(s): SWCA Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.092221 Long: -106.686032 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes** _____ **No** X
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however moderate public use of formal and informal trails, artificial fishing ponds, and mitigation of invasive plant species may have contributed to soil and vegetation degradation at the site. Specifically the location has had prior restoration work including vegetation mastication or removal. Prior activities at the site may have contributed to soil disturbances as well. The extent of soil disturbance overtime is unclear; however, anthropogenic alteration to wetland soils can result in degradation of the organic horizon and reduction of microbial biodiversity. In turn, the ecological stability of wetland soil and plant communities may be reduced.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	35	Y	FAC
2. Elaeagnus angustifolia	15	Y	FAC
3. Ulmus pumila	15	Y	UPL
4.			
	65	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix gooddingii	3	Y	FACW
2. Salix exigua	2	Y	FACW
3.			
4.			
5.			
	5	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Ambrosia psilostachya	10	Y	FACU
2. Juncus balticus	10	Y	FACW
3. Muhlenbergia asperifolia	10	Y	FACW
4. Euthamia occidentalis	6	N	FACW
5. Schizachyrium scoparium	3	N	FACU
6. Hopia obtusa	2	N	FACU
7. Helianthus annuus	1	N	FACU
8. Apocynum cannabinum	1	N	FAC
	44	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	32	x 2 =	64
FAC species	51	x 3 =	153
FACU species	16	x 4 =	64
UPL species	15	x 5 =	75
Column Totals:	114 (A)		356 (B)
Prevalence Index = B/A=			3.12

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks:

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SOIL

Sampling Point: DP10

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-2		0		0			Organic Soil Layer	Litter
2-6	7.5YR 2.5/2	100		0			Silty Clay	
6-12	7.5YR 5/3	100		0			Clay Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches):
Water Table Present? Yes ___ No X Depth (inches):
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches):

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central/80467-003 City/County: Bernalillo County Sampling Date: 09/19/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP08
Investigator(s): SWCA Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.091833 Long: -106.682947 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes:		No:	X
Hydric Soil Present?	Yes:		No:	X
Wetland Hydrology Present?	Yes:		No:	X

Is the Sampled Area within a Wetland? Yes _____ No X

Remarks: Normal circumstance appear present however moderate public use of formal and informal trails, and mitigation of invasive plant species may have contributed to soil and vegetation degradation at the site. Specifically the location has had prior restoration work including vegetation mastication or removal. Prior activities at the site may have contributed to soil disturbances as well. The extent of soil disturbance overtime is unclear; however, anthropogenic alteration to wetland soils can result in degradation of the organic horizon and reduction of microbial biodiversity. In turn, the ecological stability of wetland soil and plant communities may be reduced.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	20	Y	FAC
2. Ulmus pumila	3	N	UPL
3.			
4.			
	23	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Sporobolus cryptandrus	35	Y	FACU
2. Achnatherum hymenoides	5	N	UPL
3. Dimorphocarpa wislizeni	2	N	UPL
4. Sporobolus contractus	1	N	UPL
5. Gutierrezia sarothrae	1	N	UPL
6. Oenothera elata	1	N	FACW
7.			
8.			
	45	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	1	x 2 =	2
FAC species	20	x 3 =	60
FACU species	35	x 4 =	140
UPL species	12	x 5 =	60
Column Totals:	68 (A)		262 (B)
Prevalence Index = B/A=			3.85

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%
___ Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ___ No X

Remarks: Vegetation did not pass the dominance or prevalence tests

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SOIL

Sampling Point: DP08

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
1-3	7.5YR 4/4	100		0	C		Sandy Loam	
3-13	7.5YR 6/3	100		0			Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central/80467-003 City/County: Bernalillo County Sampling Date: 10/23/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP11
Investigator(s): JS, NP, EH Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.0917 Long: -106.685 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes ____ No X**
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Populus deltoides*	25	Y	FAC
2. *Elaeagnus angustifolia*	5	N	FAC
3.			
4.			
	30	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. *Ulmus pumila*	15	Y	UPL
2. *Populus deltoides*	5	Y	FAC
3. *Elaeagnus angustifolia*	5	Y	FAC
4.			
5.			
	25	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. *Ambrosia psilostachya*	40	Y	FACU
2. *Muhlenbergia asperifolia*	40	Y	FACW
3. *Sorghastrum nutans*	10	N	FACU
4. *Sporobolus airoides*	10	N	FAC
5. *Oenothera curtiflora*	8	N	FACU
6. *Helianthus annuus*	5	N	FACU
7. *Melilotus officinalis*	5	N	FACU
8.			
	118	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 67 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	40	x 2 =	80
FAC species	50	x 3 =	150
FACU species	68	x 4 =	272
UPL species	15	x 5 =	75
Column Totals:	173 (A)		577 (B)
Prevalence Index = B/A=			3.34

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X No ____**

Remarks:

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SOIL

Sampling Point: DP11

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-7	7.5YR 2.5/2	0		0	NA	NA	Clay	
7-12	7.5YR 6/4	0	7.5YR 6/8	5	C	M	Loam	
12-18	7.5YR 5/4	0		0	NA	NA	Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: no restrictive layer
Depth (inches): ____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ____
Water Table Present? Yes ___ No X Depth (inches): ____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ____

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No Hydrology Indicators Observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central/80467-003 City/County: Bernalillo County Sampling Date: 10/23/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP13
Investigator(s): JS, NP, EH Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Linear Slope Slope (%): <5%
Subregion (LRR): LRR D Lat: 35.0913 Long: -106.684 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Remarks: Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	20	Y	FACW
2. Populus deltoides	20	Y	FAC
3. Elaeagnus angustifolia	3	N	FAC
4.			
5.			
	43	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Cenchrus spinifex	15	Y	UPL
2. Xanthium strumarium	15	Y	FAC
3.			
4.			
5.			
6.			
7.			
8.			
	30	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

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

Percent of Domant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	20	x 2 =	40
FAC species	38	x 3 =	114
FACU species	0	x 4 =	0
UPL species	15	x 5 =	75
Column Totals:	73 (A)		229 (B)
Prevalence Index = B/A=			3.14

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks:

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SOIL

Sampling Point: DP13

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-8	10YR 3/2	0		0			Clay	
8-18	10YR 6/3	0		0			Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central/80467-003 City/County: Bernalillo County Sampling Date: 09/19/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP07
Investigator(s): SWCA Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.09106 Long: -106.683746 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PFO1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes** _____ **No** X
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however moderate public use of formal and informal trails, and mitigation of invasive plant species may have contributed to soil and vegetation degradation at the site. Specifically the location has had prior restoration work including vegetation mastication or removal. Prior activities at the site may have contributed to soil disturbances as well. The extent of soil disturbance overtime is unclear; however, anthropogenic alteration to wetland soils can result in degradation of the organic horizon and reduction of microbial biodiversity. In turn, the ecological stability of wetland soil and plant communities may be reduced.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	55	Y	FAC
2. Ulmus pumila	15	Y	UPL
3.			
4.			
	70	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Elaeagnus angustifolia	20	Y	FAC
2. Ulmus pumila	10	Y	UPL
3. Populus deltoides	3	N	FAC
4.			
5.			
	33	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Muhlenbergia asperifolia	35	Y	FACW
2. Ambrosia psilostachya	4	N	FACU
3. Sorghastrum nutans	3	N	FACU
4. Oenothera suffrutescens	1	N	UPL
5.			
6.			
7.			
8.			
	43	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 60 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	35	x 2 =	70
FAC species	78	x 3 =	234
FACU species	7	x 4 =	28
UPL species	26	x 5 =	130
Column Totals:	146 (A)		462 (B)
Prevalence Index = B/A=			3.16

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks:

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SOIL

Sampling Point: DP07

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-1		0		0		NA	Organic Soil Layer	Leaf litter
1-9	7.5YR 4/3	99	7.5YR 6/6	1	C	M	Silty Clay Loam	
9-15	7.5YR 5/4	100		0	NA	NA	Silty Clay Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? **Yes** ___ **No** X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Central City/County: Bernalillo County Sampling Date: 10/23/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP12
Investigator(s): JS, NP, EH Section, Township, Range: Sec. 13 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.0909 Long: -106.685 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: R2UB2F
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Hydric Soil Present?	Yes: X	No:		
Wetland Hydrology Present?	Yes: X	No:		

Remarks: Due to landscape position, hydrophitic vegetation and hydric indictors, soils considered problematic. Normal circumstance appear present however public use of formal and informal trails are located at or adjacent to the site. The trails suppress vegetation growth. It is also known that the general vicinity has been heavily manipulated being within such a populated location and known restoration activities, including vegetation mastication, noxious plant species treatment, plantings, and even grading projects, have taken place at the site or nearby within the last few decades.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	0	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	50	Y	FACW
2. Elaeagnus angustifolia	25	Y	FAC
3. Populus deltoides	5	N	FAC
4. Salix amygdaloides	1	N	FACW
5.			
	81	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Cynodon dactylon	20	Y	FACU
2. Schoenoplectus pungens	15	Y	OBL
3. Saccharum ravennae	5	N	FAC
4. Xanthium strumarium	1	N	FAC
5. Equisetum laevigatum	1	N	FACW
6.			
7.			
8.			
	42	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

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

Percent of Domant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:		
OBL species	15	x 1 =	15	
FACW species	52	x 2 =	104	
FAC species	36	x 3 =	108	
FACU species	20	x 4 =	80	
UPL species	0	x 5 =	0	
Column Totals:	123 (A)		307	(B)
Prevalence Index = B/A=			2.50	

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks:

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SOIL

Sampling Point: DP12

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-12	10YR 6/2	88	10YR 8/8	12	C	MP	Loam	
12-18	10YR 6/2	100		0	NA	NA	Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
X Sediment Deposits (B2) (**Nonriverine**)
X Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Tingley/80467-003 City/County: Bernalillo County Sampling Date: 09/19/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP06
Investigator(s): SWCA Section, Township, Range: Sec. 24 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.08451 Long: -106.674933 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Mulch layer; Normal circumstance appear present however moderate public use of formal and informal trails, artificial fishing ponds, and mitigation of invasive plant species may have contributed to soil and vegetation degradation at the site. Specifically the location has had prior restoration work including vegetation mastication or removal. Prior activities at the site may have contributed to soil disturbances as well. The extent of soil disturbance overtime is unclear; however, anthropogenic alteration to wetland soils can result in degradation of the organic horizon and reduction of microbial biodiversity. In turn, the ecological stability of wetland soil and plant communities may be reduced.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	15	Y	FAC
2. Fraxinus velutina	5	Y	FAC
3.			
4.			
	20	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Gleditsia triacanthos	5	Y	FAC
2. Atriplex canescens	5	Y	UPL
3.			
4.			
5.			
	10	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Muhlenbergia asperifolia	30	Y	FACW
2. Sporobolus cryptandrus	10	Y	FACU
3. Apocynum cannabinum	5	N	FAC
4. Oenothera curtiflora	2	N	FACU
5.			
6.			
7.			
8.			
	47	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 67 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:
OBL species	0	x 1 = 0
FACW species	30	x 2 = 60
FAC species	30	x 3 = 90
FACU species	12	x 4 = 48
UPL species	5	x 5 = 25
Column Totals:	77 (A)	223 (B)
Prevalence Index = B/A=		2.90

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks:

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SOIL

Sampling Point: DP06

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-3		0		0			Organic Soil Layer	Mulch and leaf litter
3-8	7.5YR 3/2	99	7.5YR 6/8	1	C	M	Clay Loam	
8-16	7.5YR 6/3	100		0			Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) **(Nonriverine)**
___ Sediment Deposits (B2) **(Nonriverine)**
___ Drift Deposits (B3) **(Nonriverine)**
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches):
Water Table Present? Yes ___ No X Depth (inches):
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches):

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Tingley/80467-003 City/County: Bernalillo County Sampling Date: 09/19/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP05
Investigator(s): SWCA Section, Township, Range: Sec. 24 T10N R2E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.084394 Long: -106.675979 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PEM1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes:	X	No:	
Hydric Soil Present?	Yes:	X	No:	
Wetland Hydrology Present?	Yes:	X	No:	

Is the Sampled Area within a Wetland? Yes X No _____

Remarks: Normal circumstance appear present however moderate public use of formal and informal trails, artificial fishing ponds, and mitigation of invasive plant species may have contributed to soil and vegetation degradation at the site. Specifically the location has had prior restoration work including vegetation mastication or removal. Prior activities at the site may have contributed to soil disturbances as well. The extent of soil disturbance overtime is unclear; however, anthropogenic alteration to wetland soils can result in degradation of the organic horizon and reduction of microbial biodiversity. In turn, the ecological stability of wetland soil and plant communities may be reduced.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Elaeagnus angustifolia	15	Y	FAC
2.			
3.			
4.			
	15	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	40	Y	FACW
2. Baccharis salicina	15	Y	FACW
3. Populus deltoides	5	N	FAC
4. Forestiera shrevei	3	N	UPL
5. Fraxinus velutina	1	N	FAC
	64	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Euthamia occidentalis	5	Y	FACW
2. Echinochloa crus-galli	5	Y	FACW
3. Saccharum ravennae	2	N	FAC
4. Cyperus odoratus	1	N	FACW
5. Oenothera curtiflora	1	N	FACU
6. Euphorbia prostrata	1	N	FACU
7. Panicum capillare	1	N	FACU
8. Bidens frondosa	1	N	FACW
	17	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	67	x 2 =	134
FAC species	23	x 3 =	69
FACU species	3	x 4 =	12
UPL species	3	x 5 =	15
Column Totals:	96 (A)		230 (B)
Prevalence Index = B/A=			2.40

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ___

Remarks:

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SOIL

Sampling Point: DP05

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-5	7.5YR 4/4	100		0			Loam	
5-18	10YR 6/3	100		0			Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
X Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Tingley/80467-003 City/County: Bernalillo County Sampling Date: 09/19/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP04
Investigator(s): SWCA Section, Township, Range: Sec. 19 T10N R3E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.082729 Long: -106.673297 Datum: WGS84
Soil Map Unit Name: VF - Vinton and Brazito soils, occasionally flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)
Are Vegetation X, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes:		No:	X
Hydric Soil Present?	Yes:		No:	X
Wetland Hydrology Present?	Yes:		No:	X

Is the Sampled Area within a Wetland? Yes ____ No X

Remarks: Normal circumstance appear present however moderate public use of formal and informal trails, artificial fishing ponds, and mitigation of invasive plant species may have contributed to soil and vegetation degradation at the site. Specifically the location has had prior restoration work including vegetation mastication or removal. Prior activities at the site may have contributed to soil disturbances as well. The extent of soil disturbance overtime is unclear; however, anthropogenic alteration to wetland soils can result in degradation of the organic horizon and reduction of microbial biodiversity. In turn, the ecological stability of wetland soil and plant communities may be reduced

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	45	Y	FAC
2. Ulmus pumila	5	N	UPL
3.			
4.			
	50	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1.			
2.			
3.			
4.			
5.			
	0	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Salsola tragus	35	Y	FACU
2. Helianthus annuus	15	Y	FACU
3. Oenothera suffrutescens	10	N	UPL
4. Sphaeralcea coccinea	3	N	UPL
5. Ulmus pumila	2	N	UPL
6.			
7.			
8.			
	65	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 33 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	45	x 3 =	135
FACU species	50	x 4 =	200
UPL species	20	x 5 =	100
Column Totals:	115 (A)		435 (B)
Prevalence Index = B/A=			3.78

Hydrophytic Vegetation Indicators:

____ Dominance Test is >50%
____ Prevalence Index is ≤3.0[1]
____ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: Vegetation did not pass the dominance or prevalence tests

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SOIL

Sampling Point: DP04

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-1		0		0			Organic Soil Layer	Surface mulch
1-3	7.5YR 3/4	100		0			Sandy Clay Loam	
3-15	7.5YR 6/3	100		0			Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
___ Drift Deposits (B3) (**Nonriverine**)
___ Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
___ Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): _____
Water Table Present? Yes ___ No X Depth (inches): _____
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): _____

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Tingley/80467-003 City/County: Bernalillo County Sampling Date: 09/19/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP03
Investigator(s): SWCA Section, Township, Range: Sec. 19 T10N R3E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.082113 Long: -106.673989 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PSS1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes:	X	No:	
Hydric Soil Present?	Yes:	X	No:	
Wetland Hydrology Present?	Yes:	X	No:	

Is the Sampled Area within a Wetland? Yes X No _____

Remarks: Normal circumstance appear present however moderate public use of formal and informal trails, artificial fishing ponds, and mitigation of invasive plant species may have contributed to soil and vegetation degradation at the site. Specifically the location has had prior restoration work including vegetation mastication or removal. Prior activities at the site may have contributed to soil disturbances as well. The extent of soil disturbance overtime is unclear; however, anthropogenic alteration to wetland soils can result in degradation of the organic horizon and reduction of microbial biodiversity. In turn, the ecological stability of wetland soil and plant communities may be reduced.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Ulmus pumila	10	Y	UPL
2. Elaeagnus angustifolia	5	Y	FAC
3.			
4.			
	15	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	60	Y	FACW
2. Tamarix ramosissima	3	N	UPL
3. Baccharis salicina	2	N	FACW
4. Elaeagnus angustifolia	1	N	FAC
5.			
	66	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Asclepias subverticillata	15	Y	FACU
2. Ambrosia psilostachya	8	Y	FACU
3. Cyperus odoratus	3	N	FACW
4. Euthamia occidentalis	3	N	FACW
5. Euphorbia prostrata	2	N	FACU
6. Helianthus annuus	1	N	FACU
7.			
8.			
	32	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 30

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 40 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	68	x 2 =	136
FAC species	6	x 3 =	18
FACU species	26	x 4 =	104
UPL species	13	x 5 =	65
Column Totals:	113 (A)		323 (B)
Prevalence Index = B/A=			2.86

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

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SOIL

Sampling Point: DP03

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-10	7.5YR 2.5/2	98	7.5YR 7/8	2	C	M	Sandy Loam	
10-18	10YR 7/3	100		0	NA	NA	Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:
Depth (inches):

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

___ Surface Water (A1)
___ High Water Table (A2)
___ Saturation (A3)
___ Water Marks (B1) (**Nonriverine**)
___ Sediment Deposits (B2) (**Nonriverine**)
X Drift Deposits (B3) (**Nonriverine**)
X Surface Soil Cracks (B6)
___ Inundation Visible on Aerial Imagery (B7)
___ Water-Stained Leaves (B9)
___ Salt Crust (B11)
X Biotic Crust (B12)
___ Aquatic Invertebrates (B13)
___ Hydrogen Sulfide Odor (C1)
___ Oxidized Rhizospheres along Living Roots (C3)
___ Presence of Reduced Iron (C4)
___ Recent Iron Reduction in Tilled Soils (C6)
___ Thin Muck Surface (C7)
___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

Surface Water Present? Yes ___ No X Depth (inches): ___
Water Table Present? Yes ___ No X Depth (inches): ___
Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Tingley/80467-003 City/County: Bernalillo County Sampling Date: 09/19/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP02
Investigator(s): SWCA Section, Township, Range: Sec. 19 T10N R3E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.08059 Long: -106.672171 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: No
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes: X	No:	**Is the Sampled Area within a Wetland?**	**Yes** _____ **No** X
Hydric Soil Present?	Yes:	No: X		
Wetland Hydrology Present?	Yes:	No: X		

Remarks: Normal circumstance appear present however moderate public use of formal and informal trails, artificial fishing ponds, and mitigation of invasive plant species may have contributed to soil and vegetation degradation at the site. Specifically the location has had prior restoration work including vegetation mastication or removal. Prior activities at the site may have contributed to soil disturbances as well. The extent of soil disturbance overtime is unclear; however, anthropogenic alteration to wetland soils can result in degradation of the organic horizon and reduction of microbial biodiversity. In turn, the ecological stability of soil and plant communities may be reduced.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Populus deltoides	35	Y	FAC
2.			
3.			
4.			
	35	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Baccharis salicina	5	Y	FACW
2. Salsola tragus	4	Y	FACU
3. Melilotus officinalis	1	N	FACU
4.			
5.			
	10	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Muhlenbergia asperifolia	70	Y	FACW
2. Helianthus annuus	10	N	FACU
3. Sorghastrum nutans	3	N	FACU
4. Hordeum jubatum	2	N	FAC
5. Sporobolus wrightii	2	N	FAC
6. Bouteloua gracilis	1	N	UPL
7. Saccharum ravennae	1	N	FAC
8.			
	89	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Domant Species That Are OBL, FACW, or FAC: 75 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	75	x 2 =	150
FAC species	40	x 3 =	120
FACU species	18	x 4 =	72
UPL species	1	x 5 =	5
Column Totals:	134 (A)		347 (B)
Prevalence Index = B/A=			2.59

Hydrophytic Vegetation Indicators:
X Dominance Test is >50%
X Prevalence Index is ≤3.0[1]
___ Morphological Adaptations[1] (Profice supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks:

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SOIL

Sampling Point: DP02

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
0-1		0		0		NA	Organic Soil Layer	Leaf litter
1-5	7.5YR 4/3	99	7.5YR 4/6	1	C	M	Silty Clay Loam	
5-15	7.5YR 5/4	100		0	NA	NA	Loamy Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ___ No X

Remarks: No hydric soil indicators observed

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) **(Nonriverine)**
- ___ Drift Deposits (B3) **(Nonriverine)**
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

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

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

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

Wetland Hydrology Present? Yes ___ No X

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

Remarks: No hydrology indicators observed

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WETLAND DETERMINATION DATA FORM — Arid West Region

Project/Site: Tingley/80467-003 City/County: Bernalillo County Sampling Date: 09/18/2023
Applicant/Owner: NMISC State: NM Sampling Point: DP01
Investigator(s): SWCA Section, Township, Range: Sec. 19 T10N R3E
Landform (hillslope, terrace, etc.): Flood Plain Local relief (concave, convex, none): Concave Slope (%): <3%
Subregion (LRR): LRR D Lat: 35.080155 Long: -106.672765 Datum: WGS84
Soil Map Unit Name: TP - Torrifluvents, frequently flooded NWI classification: PSS1A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes:	X	No:	
Hydric Soil Present?	Yes:	X	No:	
Wetland Hydrology Present?	Yes:	X	No:	

Is the Sampled Area within a Wetland? Yes X No _____

Remarks: Normal circumstance appear present however moderate public use of formal and informal trails, artificial fishing ponds, and mitigation of invasive plant species may have contributed to soil and vegetation degradation at the site. Specifically the location has had prior restoration work including vegetation mastication or removal. Prior activities at the site may have contributed to soil disturbances as well. The extent of soil disturbance overtime is unclear; however, anthropogenic alteration to wetland soils can result in degradation of the organic horizon and reduction of microbial biodiversity. In turn, the ecological stability of wetland soil and plant communities may be reduced.

VEGETATION — Use scientific names of plants.

Tree Stratum: (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. Elaeagnus angustifolia	20	Y	FAC
2.			
3.			
4.			
	20	=Total Cover	
Sapling/Shrub Stratum: (Plot size: 30)			
1. Salix exigua	75	Y	FACW
2. Elaeagnus angustifolia	3	N	FAC
3. Populus deltoides	3	N	FAC
4.			
5.			
	81	=Total Cover	
Herb Stratum: (Plot size: 30)			
1. Saccharum ravennae	40	Y	FAC
2. Cyperus odoratus	4	N	FACW
3. Equisetum laevigatum	1	N	FACW
4. Euthamia occidentalis	1	N	FACW
5.			
6.			
7.			
8.			
	46	=Total Cover	
Woody Vine Stratum: (Plot size: 30)			
1.			
2.			
	0	=Total Cover	

% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 30

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

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

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	81	x 2 =	162
FAC species	66	x 3 =	198
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	147 (A)		360 (B)
Prevalence Index = B/A=			2.45

Hydrophytic Vegetation Indicators:

X Dominance Test is >50%

X Prevalence Index is ≤3.0[1]

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

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ___

Remarks:

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SOIL

Sampling Point: DP01

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

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type [1]	Loc [2]	Texture	Remarks
2		0		0			Organic Soil Layer	Detritus, decomposing plants
12	7.5YR 3/3	98	7.5YR 5/8	2	C	M	Sandy Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

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

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

Indicators for Problematic Hydric Soils[3]:

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

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ___

Remarks: Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3%, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-mapped wetland.

HYDROLOGY

Wetland Hydrology Indicators:

Primary indicators (minimum of one required: check all that apply):

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) **(Nonriverine)**
- ___ Sediment Deposits (B2) **(Nonriverine)**
- X Drift Deposits (B3) **(Nonriverine)**
- X Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- X Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary indicators (2 or more required):

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

Field Observations:

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

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

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

Wetland Hydrology Present? Yes X No ___

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

Remarks:

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APPENDIX E

Wetland Determination Point Characteristics Tables

Table E-1. Summary Characteristics of the Wetland Sampling Points in the Priority I Survey Area

SWCA Wetland Sample Point	Wetland Determination Data Form No.	Hydrophytic Vegetation Present?	Hydric Soil Present?	Hydrology Present?	NWI Wetland Classification Code*	Does the sample area contain all three indicators that comprise a wetland?	Are there potentially problematic wetland indicators? If yes, provide rationale.
SWCA Problematic Wetland Determination Points							
DP34	Appendix D	Yes	Problematic	Yes	R2UB2F	Yes, but one is problematic	Yes. Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP32	Appendix D	Yes	Problematic	Yes	PSS1A	Yes, but one is problematic	Yes. Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP33	Appendix D	Yes	Problematic	Yes	PSS1A	Yes, but one is problematic	Yes. Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP30	Appendix D	Yes	Problematic	Yes	R2UB2F	Yes, but one is problematic	Yes. Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP26	Appendix D	Yes	Problematic	Yes	None	Yes, but one is problematic	Yes. Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.

SWCA Wetland Sample Point	Wetland Determination Data Form No.	Hydrophytic Vegetation Present?	Hydric Soil Present?	Hydrology Present?	NWI Wetland Classification Code*	Does the sample area contain all three indicators that comprise a wetland?	Are there potentially problematic wetland indicators? If yes, provide rationale.
DP27	Appendix D	Yes	Problematic	Yes	None	Yes, but one is problematic	Yes. Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP25	Appendix D	Yes	Problematic	Yes	PSS1A	Yes, but one is problematic	Yes. Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP24	Appendix D	Yes	Problematic	Yes	PSS1A	Yes, but one is problematic	Yes. Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP20	Appendix D	Yes	Problematic	Yes	PFO1A	Yes, but one is problematic	Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP23	Appendix D	Yes	Problematic	Yes	PSS1A	Yes, but one is problematic	Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.

SWCA Wetland Sample Point	Wetland Determination Data Form No.	Hydrophytic Vegetation Present?	Hydric Soil Present?	Hydrology Present?	NWI Wetland Classification Code*	Does the sample area contain all three indicators that comprise a wetland?	Are there potentially problematic wetland indicators? If yes, provide rationale.
DP21	Appendix D	Yes	Problematic	Yes	PSS1A	Yes, but one is problematic	Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP15	Appendix D	Yes	Problematic	Yes	PFO1A	Yes, but one is problematic	Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP40	Appendix D	Yes	Problematic	Yes	None	Yes, but one is problematic	Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP39	Appendix D	Yes	Problematic	Yes	PFO1A	Yes, but one is problematic	Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP12	Appendix D	Yes	Problematic	Yes	PFO1A	Yes, but one is problematic	Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.

SWCA Wetland Sample Point	Wetland Determination Data Form No.	Hydrophytic Vegetation Present?	Hydric Soil Present?	Hydrology Present?	NWI Wetland Classification Code*	Does the sample area contain all three indicators that comprise a wetland?	Are there potentially problematic wetland indicators? If yes, provide rationale.
DP05	Appendix D	Yes	Problematic	Yes	PEM1A	Yes, but one is problematic	Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP03	Appendix D	Yes	Problematic	Yes	PSS1A	Yes, but one is problematic	Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
DP01	Appendix D	Yes	Problematic	Yes	PSS1A	Yes, but one is problematic	Problematic soil indicators: Due to landscape position, including concave form and slopes less than 3 percent, as well as positive indicators for hydrophytic vegetation and hydrology, it is believed this location has problematic hydric soil indicators. Additionally, this wetland is mapped within a FEMA flood zone and NWI-modeled wetland.
SWCA Confirmed Wetland Determination Points							
DP37	Appendix D	Yes	Yes	Yes	PFO1A	Yes	No
DP14	Appendix D	Yes	Yes	Yes	PFO1A	Yes	No problematic wetland indicators.
DP42	Appendix D	Yes	Yes	Yes	None	Yes	No
SWCA Confirmed Non-Wetland/Upland Sample Points							
DP35	Appendix D	Yes	No	No	None	No	No
DP36	Appendix D	Yes	No	No	None	No	No
DP31	Appendix D	Yes	No	No	None	No	No
DP28	Appendix D	Yes	No	No	None	No	No
DP29	Appendix D	No	No	No	PFO1A	No	No
DP22	Appendix D	No	No	No	PSS1A	No	No
DP19	Appendix D	No	No	No	None	No	No
DP17	Appendix D	Yes	No	Yes	PFO1A	No	No

SWCA Wetland Sample Point	Wetland Determination Data Form No.	Hydrophytic Vegetation Present?	Hydric Soil Present?	Hydrology Present?	NWI Wetland Classification Code*	Does the sample area contain all three indicators that comprise a wetland?	Are there potentially problematic wetland indicators? If yes, provide rationale.
DP16	Appendix D	No	No	No	PFO1A	No	No
DP18	Appendix D	Yes	No	No	PFO1A	No	No
DP38	Appendix D	Yes	No	No	PFO1A	No	No
DP43	Appendix D	No	No	Yes	None	No	No
DP41	Appendix D	Yes	No	No	None	No	No
DP09	Appendix D	Yes	No	No	PFO1A	No	No
DP10	Appendix D	Yes	No	No	R2UB2F	No	No
DP08	Appendix D	No	No	No	PFO1A	No	No
DP11	Appendix D	Yes	No	No	None	No	No
DP13	Appendix D	Yes	No	Yes	PFO1A	No	No
DP07	Appendix D	Yes	No	No	None	No	No
DP06	Appendix D	Yes	No	No	None	No	No
DP04	Appendix D	No	No	No	None	No	No
DP02	Appendix D	Yes	No	No	None	No	No

*NWI wetland classification codes (USFWS 2025):

PSS1A = Palustrine scrub-shrub, broad-leaved deciduous, temporary flooded

R2UB2F = Riverine lower perennial unconsolidated bottom, sand, semi-permanently flooded

PFO1A = Palustrine forested, broad-leaved deciduous, temporally flooded wetland

PEM1A = Palustrine emergent, persistent temporarily flooded wetland

Table E-2. Topographic and Wetland Indicator Characteristics of Confirmed Wetland Determination Points in the Priority I Survey Area

SWCA Sample Point Identifier	Latitude, Longitude	Landform, Slope, Local Relief	Hydrophytic Vegetation Present?	Dominant Plant Species, Percent Cover, Wetland Indicator Status*	Hydric Soil Present?	Soil Texture	Wetland Hydrology Present?
DP30	35.106814°N, 106.691923°W	Floodplain, <3 percent slope, concave	Yes	Bermuda grass (*Cynodon dactylon*), 20%, FACU Coyote willow (*Salix exigua*), 30%, FACW Eastern cottonwood (*Populus deltoides*), 20%, FAC Large barnyard grass (*Echinochloa crus-galli*), 45%, FACW	Yes, problematic	Clay loam; silty clay	Yes
DP31	35.108553°N, 106.691079°W	Floodplain, <5 percent slope, linear slope	Yes	Eastern cottonwood (*Populus deltoides*), 40%, FAC Russian olive (*Elaeagnus angustifolia*), 15%, FAC Stretchberry (*Forestiera pubescens*), 25%, FACU	No	Clay loam; loam	No
DP32	35.112923°N, 106.69105°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 60%, FACW Ravennagrass (*Saccharum ravennae*), 25%, FAC	Yes, problematic	Silty loam; sand	Yes
DP33	35.110508°N, 106.690997°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 80%, FACW Rusty flat sedge (*Cyperus odoratus*), 3%, FACW Virginia creeper (*Parthenocissus quinquefolia*), 3%, FAC Western goldentop (*Euthamia occidentalis*), 8%, FACW	Yes, problematic	Clay loam; silt loam; sand	Yes
DP34	35.116839°N, 106.690501°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 80%, FACW Eastern cottonwood (*Populus deltoides*), 8%, FAC Russian olive (*Elaeagnus angustifolia*), 8%, FAC	Yes, problematic	Clay; silt loam; sand	No
DP35	35.116086°N, 106.690271°W	Floodplain, <5 percent slope, linear slope	Yes	Eastern cottonwood (*Populus deltoides*), 40%, FAC James' galleta (*Pleuraphis jamesii*), 15%, UPL Western wheatgrass (*Pascopyrum smithii*), 35%, FAC	No	Loam	No
DP36	35.11105°N, 106.690496°W	Floodplain, <5 percent slope, linear slope	Yes	Coyote willow (*Salix exigua*), 10%, FACW Eastern cottonwood (*Populus deltoides*), 10%, FAC Eastern cottonwood (*Populus deltoides*), 25%, FAC White mulberry (*Morus alba*), 10%, FACU	No	Silt loam; loam; clay loam	No
DP24	35.101705°N, 106.692972°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 50%, FACW Russian olive (*Elaeagnus angustifolia*), 15%, FAC	Yes, problematic	Clay loam, loam, sandy loam	Yes
DP25	35.103302°N, 106.694075°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 60%, FACW Ravennagrass (*Saccharum ravennae*), 15%, FAC Russian olive (*Elaeagnus angustifolia*), 10%, FAC Rusty flat sedge (*Cyperus odoratus*), 20%, FACW Velvet ash (*Fraxinus velutina*), 15%, FAC	Yes, problematic	Loam, clay loam, silty loam	Yes
DP26	31.104826°N, 106.693204°W	Floodplain, <3 percent slope, concave	Yes	Bermudagrass (*Cynodon dactylon*), 30%, FACU Coyote willow (*Salix exigua*), 50%, FACW Rusty flatsedge (*Cyperus odoratus*), 40%, FACW	Yes, problematic	Loam, clay loam	Yes

SWCA Sample Point Identifier	Latitude, Longitude	Landform, Slope, Local Relief	Hydrophytic Vegetation Present?	Dominant Plant Species, Percent Cover, Wetland Indicator Status*	Hydric Soil Present?	Soil Texture	Wetland Hydrology Present?
DP27	35.10393°N, 106.692654°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 50%, FACW Saltcedar (*Tamarix ramosissima*), 10%, UPL Siberian elm (*Ulmus pumila*), 3%, UPL	Yes, problematic	Clay loam, sandy loam	Yes
DP28	35.10522°N, 106.692017°W	Floodplain, <5 percent slope, linear slope	Yes	Alkali muhly (*Muhlenbergia asperifolia*), 35%, FACW Eastern cottonwood (*Populus deltoides*), 10%, FAC False indigo-bush (*Amorpha fruticosa*), 12%, FACW Fourwing saltbush (*Atriplex canescens*), 25%, UPL Siberian elm (*Ulmus pumila*), 3%, UPL	No	Loamy sand, sand	No
DP29	35.10203°N, 106.69248°W	Floodplain, <5 percent slope, linear slope	No	Eastern cottonwood (*Populus deltoides*), 25%, FAC Prickly Russian thistle (*Salsola tragus*), 15%, FACU Saltcedar (*Tamarix ramosissima*), 10%, UPL Sand dropseed (*Sporobolus cryptandrus*), 30%, FACU White mulberry (*Morus alba*), 15%, FACU	No	Sandy loam, sand	No
DP14	35.096165°N, 106.689312°W	Floodplain, <3 percent slope, none	Yes	Coyote willow (*Salix exigua*), 50%, FACW Russian olive (*Elaeagnus angustifolia*), 10%, FAC Russian olive (*Elaeagnus angustifolia*), 15%, FAC Rusty flat sedge (*Cyperus odoratus*), 40%, FACW	Yes	Silty clay loam	Yes
DP15	35.096737°N, 106.689609°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 35%, FACW Indian-hemp (*Apocynum cannabinum*), 1%, FAC Ravennagrass (*Saccharum ravennae*), 2%, FAC Rusty flat sedge (*Cyperus odoratus*), 1%, FACW Western goldentop (*Euthamia occidentalis*), 1%, FACW White mulberry (*Morus alba*), 10%, FACU	Yes, problematic	Clay loam	Yes
DP16	35.097775°N, 106.690729°W	Floodplain, <5 percent slope, linear slope	No	Eastern cottonwood (*Populus deltoides*), 70%, FAC Mexican-Fireweed (*Bassia scoparia*), 20%, FAC Prickly Russian thistle (*Salsola tragus*), 25%, FACU Siberian elm (*Ulmus pumila*), 35%, UPL	No	Clay loam, silty clay loam, silty loam	No
DP17	35.097979°N, 106.691465°W	Floodplain, <5 percent slope, linear slope	Yes	Alkali muhly (*Muhlenbergia asperifolia*), 10%, FACW Coastal sandbur (*Cenchrus spinifex*), 30%, UPL Coyote willow (*Salix exigua*), 5%, FACW Eastern cottonwood (*Populus deltoides*), 7%, FAC False indigo-bush (*Amorpha fruticosa*), 3%, FACW Russian olive (*Elaeagnus angustifolia*), 25%, FAC	No	Clay loam, loam, sand	Yes
DP18	35.09751°N, 106.691811°W	Floodplain, <5 percent slope, none	Yes	Eastern cottonwood (*Populus deltoides*), 10%, FAC Goodding's black willow (*Salix gooddingii*), 5%, FACW Russian olive (*Elaeagnus angustifolia*), 25%, FAC Russian olive (*Elaeagnus angustifolia*), 5%, FAC	No	Loam, sandy loam	No

SWCA Sample Point Identifier	Latitude, Longitude	Landform, Slope, Local Relief	Hydrophytic Vegetation Present?	Dominant Plant Species, Percent Cover, Wetland Indicator Status*	Hydric Soil Present?	Soil Texture	Wetland Hydrology Present?
DP19	35.098068°N, 106.69005°W	Floodplain, <2 percent slope, linear slope	No	Eastern cottonwood (*Populus deltoides*), 30%, FAC Prickly Russian thistle (*Salsola tragus*), 35%, FACU Saltcedar (*Tamarix ramosissima*), 10%, UPL Silverleaf nightshade (*Solanum elaeagnifolium*), 15%, UPL	No	Loam, sand	No
DP20	35.099886°N, 106.691763°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 40%, FACW Russian olive (*Elaeagnus angustifolia*), 25%, FAC	Yes, problematic	Silty clay loam, sand	Yes
DP21	35.098619°N, 106.692329°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 50%, FACW Eastern cottonwood (*Populus deltoides*), 45%, FAC Perennial ragweed (*Ambrosia psilostachya*), 25%, FACU Russian olive (*Elaeagnus angustifolia*), 20%, FAC Russian olive (*Elaeagnus angustifolia*), 30%, FAC	Yes, problematic	Loam, sandy loam	Yes
DP22	35.098615°N, 106.692017°W	Floodplain, <5 percent slope, linear slope	No	Coyote willow (*Salix exigua*), 15%, FACW Fourwing saltbush (*Atriplex canescens*), 10%, UPL Russian olive (*Elaeagnus angustifolia*), 5%, FAC Siberian elm (*Ulmus pumila*), 5%, UPL	No	Sandy loam	No
DP23	35.099517°N, 106.692395°W	Floodplain, <3 percent slope, concave	Yes	Common sunflower (*Helianthus annuus*), 3%, FACU Coyote willow (*Salix exigua*), 35%, FACW Eastern cottonwood (*Populus deltoides*), 10%, FAC Horsetail milkweed (*Asclepias subverticillata*), 3%, FACU Ravennagrass (*Saccharum ravennae*), 5%, FAC Rough cocklebur (*Xanthium strumarium*), 3%, FAC Russian olive (*Elaeagnus angustifolia*), 15%, FAC Siberian elm (*Ulmus pumila*), 3%, UPL	Yes, problematic	Loam, sandy loam	Yes
DP37	35.097345°N, 106.693303°W	Floodplain, <3 percent slope, concave	Yes	Bermuda grass (*Cynodon dactylon*), 30%, FACU Coyote willow (*Salix exigua*), 30%, FACW Russian olive (*Elaeagnus angustifolia*), 15%, FAC Rusty flat sedge (*Cyperus odoratus*), 30%, FACW	Yes	Sandy loam	Yes
DP38	35.09634°N, 106.692328°W	Floodplain, <5 percent slope, linear slope	Yes	Alkali muhly (*Muhlenbergia asperifolia*), 40%, FACW Coyote willow (*Salix exigua*), 4%, FACW Honey locust (*Gleditsia triacanthos*), 20%, FAC Sand dropseed (*Sporobolus cryptandrus*), 35%, FACU Siberian elm (*Ulmus puilam*), 5%, UPL	No	Loam	No
DP39	35.093102°N, 106.68775°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 70%, FACW Ravennagrass (*Saccharum ravennae*), 20%, FAC Russian olive (*Elaeagnus angustifolia*), 30%, FAC Rusty flat sedge (*Cyperus odoratus*), 35%, FACW Siberian elm (*Ulmus pumila*), 10%, UPL	Yes, problematic	Loam; sand	Yes

SWCA Sample Point Identifier	Latitude, Longitude	Landform, Slope, Local Relief	Hydrophytic Vegetation Present?	Dominant Plant Species, Percent Cover, Wetland Indicator Status*	Hydric Soil Present?	Soil Texture	Wetland Hydrology Present?
DP40	35.09362°N, 106.689628°W	Floodplain, <3 percent slope, concave	Yes	Alkali muhly (*Muhlenbergia asperifolia*), 60%, FACW Coyote willow (*Salix exigua*), 40%, FACW English plantain (*Plantago lanceolata*), 60%, FAC Rough cocklebur (*Xanthium strumarium*), 60%, FAC	Yes, problematic	Loam; sand	Yes
DP41	35.093582°N, 106.688559°W	Floodplain, <5 percent slope, linear slope	Yes	Alkali muhly (*Muhlenbergia asperifolia*), 25%, FACW Eastern cottonwood (*Populus deltoides*), 65%, FAC Russian olive (*Elaeagnus angustifolia*), 45%, FAC Sand dropseed (*Sporobolus cryptandrus*), 10%, FACU Wright's dropseed (*Sporobolus wrightii*), 10%, FAC	No	Clay loam; loamy sand	No
DP42	35.094803°N, 106.691947°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 80%, FACW Russian olive (*Elaeagnus angustifolia*), 12%, FAC Rusty flat sedge (*Cyperus odoratus*), 15%, FACW Common threesquare (*Schoenoplectus pungens*), 10%, OBL Western goldentop (*Euthamia occidentalis*), 8%, FACW	Yes	Sandy loam	Yes
DP43	35.094886°N, 106.691396°W	Floodplain, <5 percent slope, linear slope	No	Eastern cottonwood (*Populus deltoides*), 60%, FAC Gray globemallow (*Sphaeralcea incana*), 10%, UPL Saltcedar (*Tamarix ramosissima*), 8%, UPL Siberian elm (*Ulmus pumila*), 10%, UPL White mulberry (*Morus alba*), 30%, FACU Sweetclover (*Melilotus officinalis*), 12%, FACU	No	Loam; sandy loam	Yes
DP07	35.091063°N, 106.683709°W	Floodplain, <3 percent slope, concave	Yes	Alkali muhly (*Muhlenbergia asperifolia*), 35%, FACW Eastern cottonwood (*Populus deltoides*), 55%, FAC Russian olive (*Elaeagnus angustifolia*), 20%, FAC Siberian elm (*Ulmus pumila*), 10%, UPL Siberian elm (*Ulmus pumila*), 15%, UPL	No	Organic; silty clay loam	No
DP08	35.091819°N, 106.682917°W	Floodplain, <3 percent slope, concave	No	Eastern cottonwood (*Populus deltoides*), 20%, FAC Sand dropseed (*Sporobolus cryptandrus*), 35%, FACU	No	Sandy loam; sand	No
DP09	35.093228°N, 106.684789°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 3%, FACW Eastern cottonwood (*Populus deltoides*), 20%, FAC Goodding's black willow (*Salix gooddingii*), 3%, FACW Goodding's black willow (*Salix* gooddingii), 5%, FACW Sand dropseed (*Sporobolus cryptandrus*), 20%, FACU	No	Sand	No

SWCA Sample Point Identifier	Latitude, Longitude	Landform, Slope, Local Relief	Hydrophytic Vegetation Present?	Dominant Plant Species, Percent Cover, Wetland Indicator Status*	Hydric Soil Present?	Soil Texture	Wetland Hydrology Present?
DP10	35.092215°N, 106.686031°W	Floodplain, <3 percent slope, concave	Yes	Alkali muhly (*Muhlenbergia asperifolia*), 10%, FACW Baltic rush (*Juncus* balticus), 10%, FACW Coyote willow (*Salix exigua*), 2%, FACW Eastern cottonwood (*Populus d*eltoides), 35%, FAC Goodding's black willow (*Salix gooddingii*), 3%, FACW Perennial ragweed (*Ambrosia psilostachya*), 10%, FACU Russian olive (*Elaeagnus angustifolia*), 15%, FAC Siberian elm (*Ulmus pumila*), 15%, UPL	No	Organic; silty clay; clay loam	No
DP11	35.091614°N, 106.684624°W	Floodplain, <5 percent slope, linear slope	Yes	Alkali muhly (*Muhlenbergia asperifolia*), 40%, FACW, Eastern cottonwood (*Populus deltoides*), 25%, FAC Eastern cottonwood (*Populus deltoides*), 5%, FAC Perennial ragweed (*Ambrosia psilostachya*), 40%, FACU Russian olive (*Elaeagnus angustifolia*), 5%, FAC Siberian elm (*Ulmus pumila*), 15%, UPL	No	Clay; loam; sandy loam	No
DP12	35.090883°N, 106.684827°W	Floodplain, <3 percent slope, concave	Yes	Bermuda grass (*Cynodon dactylon*), 20%, FACU Coyote willow (*Salix exigua*), 50%, FACW Russian olive (*Elaeagnus angustifolia*), 25%, FAC Three-square (*Schoenoplectus pungens*), 15%, OBL	Yes, problematic	Loam; sandy loam	Yes
DP13	31.091235°N, 106.68353°W	Floodplain, <5 percent slope, linear slope	Yes	Coastal sandbur (*Cenchrus spinifex*), 15%, UPL Coyote willow (*Salix exigua*), 20%, FACW Eastern cottonwood (*Populus deltoides*), 20%, FAC Rough cocklebur (*Xanthium strumarium*), 15%, FAC	No	Clay; sandy loam	Yes
DP01	35.080135°N, 106.67277°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 75%, FACW Russian olive (*Elaeagnus angustifolia*), 20%, FAC Ravennagrass (*Saccharum ravennae*), 40%, FAC	Yes, problematic	Organic; sandy loam	Yes
DP02	35.080678°N, 106.672217°W	Floodplain, <3 percent slope, concave	Yes	Alkali muhly (*Muhlenbergia asperifolia*), 70%, FACW Eastern cottonwood (*Populus deltoides*), 35%, FAC Great plains false willow (*Baccharis salicina*), 5%, FACW Prickly Russian thistle (*Salsola tragus*), 4%, FACU	No	Organic layer; silty clay loam; loamy sand	No
DP03	35.082091°N, 106.673959°W	Floodplain, <3 percent slope, concave	Yes	Coyote willow (*Salix exigua*), 60%, FACW Horsetail milkweed (*Asclepias subverticillata*), 15%, FACU Perennial ragweed (*Ambrosia psilostachya*), 8%, FACU Siberian elm (*Ulmus pumila*), 10%, UPL Russian olive (*Elaeagnus angustifolia*), 5%, FAC	Yes, problematic	Sandy loam	Yes
DP04	35.082737°N, 106.673254°W	Floodplain, <3 percent slope, concave	No	Common sunflower (*Helianthus annuus*), 15%, FACU Eastern cottonwood (*Populus deltoides*), 45%, FAC Prickly Russian thistle (*Salsola tragus*), 35%, FACU	No	Organic layer; sandy clay; loam	No

SWCA Sample Point Identifier	Latitude, Longitude	Landform, Slope, Local Relief	Hydrophytic Vegetation Present?	Dominant Plant Species, Percent Cover, Wetland Indicator Status*	Hydric Soil Present?	Soil Texture	Wetland Hydrology Present?
DP05	35.084308°N, 106.676014°W	Floodplain, <5 percent slope, linear slope	Yes	Coyote willow (*Salix exigua*), 40%, FACW Great plains false willow (*Baccharis salicina*), 15%, FACW Large barnyard grass (*Echinochloa crus-galli*), 5%, FACW Russian olive (*Elaeagnus angustifolia*), 15%, FAC Western goldentop (*Euthamia occidentalis*), 5%, FACW	Yes, problematic	Loam; sandy loam	Yes
DP06	35.084465°N, 106.674997°W	Floodplain, <3 percent slope, concave	Yes	Alkali muhly (*Muhlenbergia asperifolia*), 30%, FACW Eastern cottonwood (*Populus deltoides*), 15%, FAC Fourwing saltbush (*Atriplex canescens*), 5%, UPL Honey-locust (*Gleditsia triacanthos*), 5%, FAC Sand dropseed (*Sporobolus cryptandrus*), 10%, FACU Velvet ash (*Fraxinus velutina*), 5%, FAC	No	Organic; clay loam, loam	Yes

*Wetland indicator status abbreviations (USACE 2020):

FAC = Facultative, equally likely to occur in wetlands and non-wetlands.

FACU = Facultative upland, usually occurs in non-wetlands but occasionally found in wetlands.

FACW = Facultative wetland, usually occurs in wetlands but occasionally found in non-wetlands.

UPL = Upland, occurs in wetlands in another region but occurs almost always under natural conditions in non-wetlands in the region specified.

OBL = Obligate, occurs almost always under natural conditions in wetlands.

APPENDIX F

OHWM Datasheets

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: NMISC I-40 Northeast
Project Number: 80467-003
Stream: ST01
Investigator(s): SWCA

Date: 10/26/2023 **Time:** 8:34am
Town: Albuquerque **State:** NM
Photo begin file#: **Photo end file#:**
Geolocated photos recorded and in report

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

Y ☐ / N ☑ Is the site significantly disturbed?

Location Details:
Albuquerque, NM

Projection: WGS84
Coordinates: 35.10779, -106.691171

Potential anthropogenic influences on the channel system:

No known recent extreme events, piped water source unknown, flows east to west from pipe

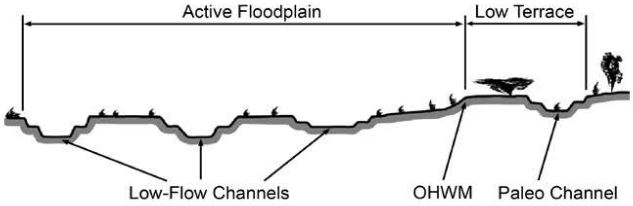
Brief site description:

Channel Shape: SingleThread. artificial deep erosional channel with water plunge pool created below pipe end

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 NHD, NWI, FEMA datasets
- ☐ 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



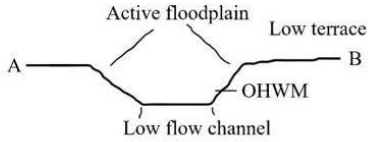
Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

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
   - ☐ Digitized on computer
   - ☑ GPS
   - ☐ Other:

Project ID: 80467-003 **Cross section ID:** A-B ST01 **Date:** 08/26/2023 **Time:** 8:34am

Cross section drawing:

OHWM Width(ft): 25
OHWM Depth (ft): 3.



OHWM

GPS point: See recorded spatial data

Indicators:

- ☐ Change in average sediment texture
- ☐ Change in vegetation species
- ☑ Change in vegetation cover
- ☑ Break in bank slope
- ☐ Other: _____
- ☐ Other: _____

Comments:

OHWM Rationale: the transition in vegetation cover as well as a break in slope were strong, relevant, and reliable OHWM indicators

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

GPS point: See recorded spatial data

Characteristics of the floodplain unit:

Average sediment texture: gravel and coarse sand
Total veg cover: 0 % Tree: 0 % Shrub: 0 % Herb: 0 %
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:

Trash and some plant material debris

Project ID: 80467-003 **Cross section ID:** A-B ST01 **Date:** 10/26/2023 **Time:** 8:34am

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

GPS point: See recorded spatial data

Characteristics of the floodplain unit:

Average sediment texture: coarse sand

Total veg cover: 5 % Tree: ____ % Shrub: ____ % 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: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Dominant vegetation above OHWM: Kochia

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

GPS point: See recorded spatial data

Characteristics of the floodplain unit:

Average sediment texture: coarse sand and fine sand

Total veg cover: 55 % Tree: 25 % Shrub: 5 % Herb: 25 %

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:

Dominant vegetation above OHWM: Siberian elm, kochia, and fourwind saltbush

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: NMISC Atrisco
Project Number: 80467-003
Stream: ST02
Investigator(s): SWCA

Date: 10/27/2023 **Time:** 7:49am
Town: Albuquerque **State:** NM
Photo begin file#: **Photo end file#:**
Geolocated photos recorded and in report

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

Y ☐ / N ☑ Is the site significantly disturbed?

Location Details:
Albuquerque, NM

Projection: WGS84
Coordinates: 35.096599, -106.692704

Potential anthropogenic influences on the channel system:

No known recent extreme events, piped/culvert water source unknown, flows east to west from pipe

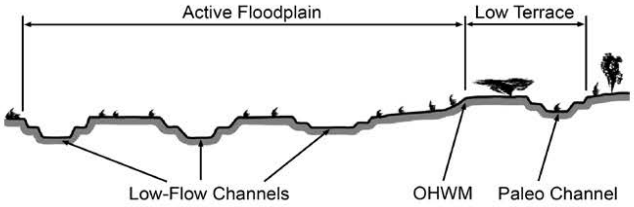
Brief site description:

Channel Shape: SingleThread. artificial deep erosional channel

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 NHD, NWI, FEMA datasets
- ☐ 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



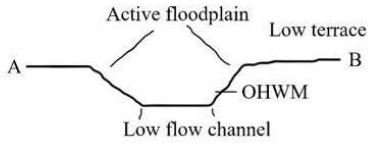
Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

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
   - ☐ Digitized on computer
   - ☑ GPS
   - ☐ Other:

Project ID: 80467-003 **Cross section ID:** A-B ST02 **Date:** 10/27/2023 **Time:** 7:49am

Cross section drawing:

OHWM Width(ft): 22
OHWM Depth (ft): 3



OHWM

GPS point: See recorded spatial data

Indicators:

- ☐ Change in average sediment texture
- ☐ Change in vegetation species
- ☑ Change in vegetation cover
- ☑ Break in bank slope
- ☐ Other: _____
- ☐ Other: _____

Comments:

OHWM Rationale: the transition in vegetation cover as well as a break in slope were strong, relevant, and reliable OHWM indicators

Floodplain unit:

☑ Low-Flow Channel ☐ Active Floodplain ☐ Low Terrace

GPS point: See recorded spatial data

Characteristics of the floodplain unit:

Average sediment texture: gravel and coarse sand
Total veg cover: 0 % Tree: 0 % Shrub: 0 % Herb: 0 %
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:

Trash and some plant material debris

Project ID: 80467-003 **Cross section ID:** A-B ST02 **Date:** 10/27/2023 **Time:** 7:49am

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

GPS point: See recorded spatial data

Characteristics of the floodplain unit:

Average sediment texture: coarse sand

Total veg cover: 5 % Tree: ____ % Shrub: ____ % 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: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

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

GPS point: See recorded spatial data

Characteristics of the floodplain unit:

Average sediment texture: coarse sand and fine sand

Total veg cover: 50 % Tree: 45 % Shrub: ____ % 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: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:

Dominant vegetation above OHWM: Siberian elm, honey locust